LG
Life's Good

MULTI V™

DUCTED INDOOR UNIT ENGINEERING MANUAL

High Static Ducted
7,500 to 95,900 Btu/h

Mid Static Ducted
7,500 to 54,000 Btu/h

Low Static Ducted
7,500 to 24,000 Btu/h

Vertical / Horizontal Air Handler
12,000 to 54,000 Btu/h

PROPRIETARY DATA NOTICE

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This document is for design purposes only.

A summary list of safety precautions is on page 3.

For more technical materials such as submittals, catalogs, installation, owner's, and service manuals, visit www.lghvac.com.

MULTI V™

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TABLE OF SYMBOLS

⚠ **DANGER**	*This symbol indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.*
⚠ **WARNING**	*This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.*
⚠ **CAUTION**	*This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.*
Note	*This symbol indicates situations that may result in equipment or property damage accidents only.*
⃠	*This symbol indicates an action must not be completed.*

UNIT NOMENCLATURE

Family
ARN = Multi V Indoor Unit
(Refrigerant R410A)

Type
U = DC Inverter Heat Pump

Indoor Unit Capacity

05 = 5,000 Btu/h	18 = 18,000 Btu/h	42 = 42,000 Btu/h
07 = 7,000 Btu/h	24 = 24,000 Btu/h	48 = 48,000 Btu/h
09 = 9,000 Btu/h	28 = 28,000 Btu/h	54 = 54,000 Btu/h
12 = 12,000 Btu/h	30 = 30,000 Btu/h	76 = 76,000 Btu/h
15 = 15,000 Btu/h	36 = 36,000 Btu/h	96 = 96,000 Btu/h

Electrical Ratings
3 = 208–230V/60Hz/1Ph

Model

B8 = Ducted (high static)	M3 = Ducted (mid / high static)	TU = 1-Way Ceiling Cassette
CE = Floor Standing (small frame)	NJ = Vertical/Horizontal Air Handling Unit	TS = 2-Way Ceiling Cassette
CF = Floor Standing (large frame)	NK = Vertical/Horizontal Air Handling Unit	TM = 4-Way Ceiling Cassette
L1 = Ducted (low static)	SF = Wall Mounted / Art Cool™ Gallery	TN = 4-Way Ceiling Cassette
L2 = Ducted (low static)	SJ = Wall Mounted / Art Cool Mirror	TQ = 4-Way Ceiling Cassette
L3 = Ducted (low static)	SK = Wall Mounted / Art Cool Mirror	TR = 4-Way Ceiling Cassette
M1 = Ducted (mid static)	SV = Wall Mounted / Standard	
M2 = Ducted (mid / high static)	TT = 1-Way Ceiling Cassette	

Feature
A, C, L, R = Standard
G = Low Static
U = Uncased

Generation
2 = Second
4 = Fourth
A = Second, Revision A

LG Air Conditioner Technical Solution (LATS) Software

A properly designed and installed refrigerant piping system is critical to the optimal performance of LG air-conditioning systems. To assist engineers, LG offers, free of charge, LG Air Conditioner Technical Solution (LATS) software—a total design solution for LG air conditioning systems.

Note:

To reduce the risk of designing an improper applied system or one that will not operate correctly, LG requires that LATS software be used on all projects.

Formats

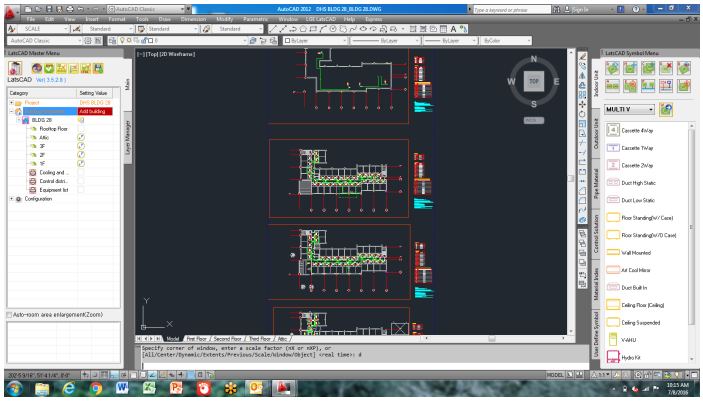
LATS is available to LG customers in three user interfaces: LATS HVAC, LATS CAD2, and LATS REVIT. All three LATS formats are available through www.myLGHVAC.com, or contact an LG Sales Representative.

LATS HVAC is a Windows®-based application that aids engineers in designing LG Variable Refrigerant Flow (VRF), Multi F / Multi F MAX, Single-Zone, and Energy Recovery Ventilator (ERV) systems.

**Windows® is a registered mark of Microsoft® Corporation.*

LATS CAD2 combines the LG LATS program with AutoCAD® software**. It permits engineers to layout and validate LG Multi V Variable Refrigerant Flow (VRF), Multi F / Multi F MAX, Single-Zone, and Energy Recovery Ventilator (ERV) systems directly into CAD drawings.

Figure 1:Example of LATS CAD2.



LATS Revit integrates the LG LATS program with Revit® software**. It permits engineers to layout and validate Multi V VRF systems directly into Revit drawings.

***AutoCAD® and Revit® are both registered marks of Autodesk, Inc.*

Features

All LG product design criteria have been loaded into the program, making LATS simple to use: double click or drag and drop the component choices. Build systems in Tree Mode where the refrigerant system can be viewed. Switch to a Schematic diagram to see the electrical and communications wiring.

LATS software permits the user to input region data, indoor and outdoor design temperatures, modify humidity default values, zoning, specify type and size of outdoor units and indoor units, and input air flow and external static pressure (ESP) for ducted indoor units.

The program can also:

- Import building loads from a separate Excel file.
- Present options for outdoor unit auto selection.
- Automatically calculate component capacity based on design conditions for the chosen region.
- Verify if the height differences between the various system components are within system limits.
- Provide the correct size of each refrigerant piping segment and LG Y-Branches and Headers.
- Adjust overall piping system length when elbows are added.
- Check for component piping limitations and flag if any parameters are broken.
- Factor operation and capacity for defrost operation.
- Calculate refrigerant charge, noting any additional trim charge.
- Suggest accessories for indoor units and outdoor units.
- Run system simulation.

Note:

Features depend on which LATS program is being used, and the type of system being designed.

LG AIR CONDITIONER TECHNICAL SOLUTION (LATS)

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LATS Generates a Complete Project Report

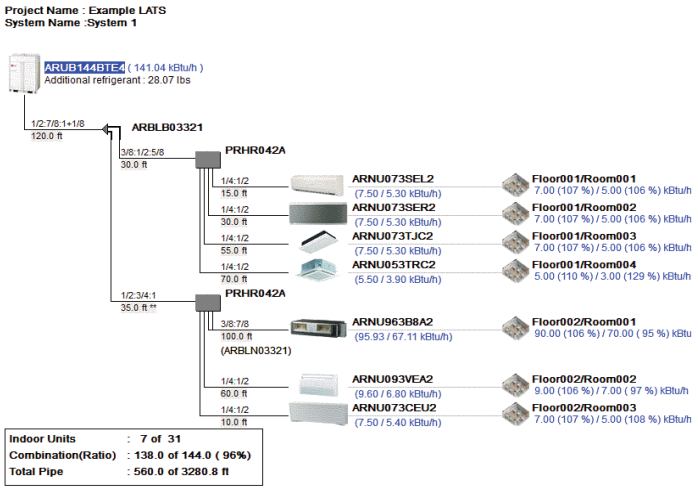
LATS software also generates a report containing project design parameters, cooling and heating design data, system component performance, and capacity data. The report includes system combination ratio and refrigerant charge calculations; and provides detailed bill of material, including outdoor units, indoor units, control devices, accessories, refrigerant pipe sizes segregated by building, by system, by pipe size, and by pipe segments. LATS can generate an Excel GERP report that can imported into the LG SOPS pricing and ordering system.

Proper Design to Install Procedure

LG encourages a two report design-to-install-procedure. After the design engineer determines building / zone loads and other details, the engineer opens the LATS program and inputs the project's information. When the design is complete, the "Auto Piping" and "System Check" functions must be used to verify piping sizes, limitations, and if any design errors are present. If errors are found, engineers must adjust the design, and run Auto Piping and System Check again. When the design passes the checks, then the engineer prints out a project "Shop Drawing" (LATS Tree Diagram) and provides it to the installing contractor. The contractor must follow the LATS Tree Diagram when building the piping system, but oftentimes the design changes on the building site:

- Architect has changed location and/or purpose of room(s).
- Outdoor unit cannot be placed where originally intended.
- Structural elements prevent routing the piping as planned.
- Air conditioning system conflicts with other building systems (plumbing, gas lines, etc.).

Figure 2:Example of a LATS Tree Diagram.



The contractor must mark any deviation from the design on the Shop Drawing, including as-built straight lines and elbows. This "Mark Up" drawing must be returned to the design engineer or Rep, who must input contractor changes into the LATS file. (Copy the original LATS software file, save and rename as a separate file, and modify all piping lengths by double-clicking on each length and editing information.) Like the shop drawing, the Auto Piping and System Check must also be run on this new "As Built" drawing. The design engineer or Rep must then provide the final As Built file to the contractor. The Mark Up version must be compared to the As Built version for:

- Differences in pipe diameter(s). If incorrect diameters have been installed, the piping must be changed out. If pipe diameters have changed, check to see if Y-Branches will also need to be changed.
- Changes to outdoor unit and indoor unit capacities. Capacities changes may impact line length changes.
- Additional refrigerant charge quantity ("Trim Charge"). Trim charge will change if piping lengths and diameters change. The As Built version must reflect installed piping lengths to ensure correct trim charge.

All documents submitted by the contractor, as well as the Shop Drawing and the As Built Drawing files must be provided for commissioning purposes. Model and serial numbers for all system components must also be submitted. If the steps previously detailed are not followed, and all documents are not provided to the commissioning agent, the project runs the risk of not being commissioned and voiding any limited warranty LG offers on the equipment.

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REFRIGERANT CHARGE WORKSHEET

Multi V 5 System R410A Refrigerant Charge Calculator (lbs.)

System Tag or ID:	Job Name: _____
	Project Manager: _____ Date: _____

Line #	Description			Chassis I.D.	Size	Quantity	CF (Ref.)[1]	Total (lbs.)
1	Linear feet of 1/4" liquid line tubing[2]			—	—		0.015	
2	Linear feet of 3/8" liquid line tubing[2]			—	—		0.041	
3	Linear feet of 1/2" liquid line tubing[2]			—	—		0.079	
4	Linear feet of 5/8" liquid line tubing[2]			—	—		0.116	
5	Linear feet of 3/4" liquid line tubing[2]			—	—		0.179	
6	Linear feet of 7/8" liquid line tubing[2]			—	—		0.238	
7	Linear feet of 1" liquid line tubing[2]			—	—		0.323	
8	Standard + Art Cool Mirror			SJ, SK	5k to 15k		0.53	
9	Standard + Art Cool Mirror			SJ, SK	18k to 24k		0.62	
10	Standard			SV	30k to 36k		1.01	
11	Art Cool Gallery			SF	9k to 12k		0.22	
12	1-Way Cassette			TU	7k to 12k		0.44	
13	1-Way Cassette			TT	18k to 24k		0.64	
14	2-Way Cassette			TS	18k to 24k		0.75	
15	4-Way 2' x 2' Cassette			TR	5k to 7k		0.40	
16	4-Way 2' x 2' Cassette			TR	9k to 12k		0.55	
17	4-Way 2' x 2' Cassette			TQ	15k to 18k		0.71	
18	4-Way 3' x 3' Cassette			TN	7k to 24k		0.88	
19	4-Way 3' x 3' Cassette			TM	28k to 36k		1.08	
20	4-Way 3' x 3' Cassette			TM	42k to 48k		1.41	
21	Mid Static Ducted			M1	7k to 24k		0.57	
22	High Static Ducted			M2	7k to 24k		0.77	
23	Mid Static Ducted			M2	28k to 42k		1.15	
24	Mid / High Static Ducted			M3	28k to 54k		1.35	
25	High Static Ducted			B8	36k to 96k		2.20	
26	Low Static Ducted, Low Static Ducted Bottom Return			L1	5k to 9k		0.31	
27	Low Static Ducted, Low Static Ducted Bottom Return			L2	12k to 18k		0.42	
28	Low Static Ducted, Low Static Ducted Bottom Return			L3	21k to 24k		0.55	
29	Vertical / Horizontal Air Handling Unit			NJ	12k to 30k		1.04	
30	Vertical / Horizontal Air Handling Unit			NJ	36k		1.57	
31	Vertical / Horizontal Air Handling Unit			NK	42k to 54k		2.00	
32	Floor Standing			CE (U)	7k to 15k		0.37	
33	Floor Standing			CF (U)	18k to 24k		0.82	
34	HRU: PRHR022A/023A, 032A/033A, 042A/043A			—	—		1.1	
35	HRU: PRHR063A, 083A			—	—		2.2	
36	**ADDITIONAL Refrigerant Charge Required** (Sum of lines 1 – 35)							
37	Outdoor Unit Factory Refrigerant Charge	37A	ARUM072*TE5		72k		14.3	
		37B	ARUM096*TE5		96k		23.2	
		37C	ARUM121*TE5		121k		23.2	
		37D	ARUM144*TE5		144k		26.5	
		37E	ARUM168*TE5		168k		26.5	
		37F	ARUM192*TE5		192k		30.9	
		37G	ARUM216*TE5		216k		37.5	
		37H	ARUM241*TE5		241k		37.5	
38	**Total ODU FACTORY Refrigerant Charge** (Sum of factory refrigerant charges for all ODUs in the system, lines 37A -37H)							
39	**TOTAL SYSTEM CHARGE** Sum of Additional Refrigerant Charge Required (line 36) and Total ODU Factory Refrigerant Charge (line 38)							

[1]CF (Ref.) = Correction Factor for Refrigerant Charge. [2]For refrigerant charge purposes, consider only the liquid line; ignore the vapor line(s).

REFRIGERANT CHARGE WORKSHEET

Water IV System R410A Refrigerant Charge Calculator (lbs.)

System Tag or ID:	Job Name: _____ Project Manager: _____ Date: _____

Line #	Description	Chassis I.D.	Size	Quantity	CF (Ref.)[1]	Total (lbs.)
1	Linear feet of 1/4" liquid line tubing[2]	—	—		0.015	
2	Linear feet of 3/8" liquid line tubing[2]	—	—		0.041	
3	Linear feet of 1/2" liquid line tubing[2]	—	—		0.079	
4	Linear feet of 5/8" liquid line tubing[2]	—	—		0.116	
5	Linear feet of 3/4" liquid line tubing[2]	—	—		0.179	
6	Linear feet of 7/8" liquid line tubing[2]	—	—		0.238	
7	Linear feet of 1" liquid line tubing[2]	—	—		0.323	
8	Standard + Art Cool Mirror	SJ, SK	5k to 15k		0.53	
9	Standard + Art Cool Mirror	SJ, SK	18k to 24k		0.62	
10	Standard	SV	30k to 36k		1.01	
11	Art Cool Gallery	SF	9k to 12k		0.22	
12	1-Way Cassette	TU	7k to 12k		0.44	
13	1-Way Cassette	TT	18k to 24k		0.64	
14	2-Way Cassette	TS	18k to 24k		0.75	
15	4-Way 2' x 2' Cassette	TR	5k to 7k		0.40	
16	4-Way 2' x 2' Cassette	TR	9k to 12k		0.55	
17	4-Way 2' x 2' Cassette	TQ	15k to 18k		0.71	
18	4-Way 3' x 3' Cassette	TN	7k to 24k		0.88	
19	4-Way 3' x 3' Cassette	TM	28k to 36k		1.08	
20	4-Way 3' x 3' Cassette	TM	42k to 48k		1.41	
21	Mid Static Ducted	M1	7k to 24k		0.57	
22	High Static Ducted	M2	7k to 24k		0.77	
23	Mid Static Ducted	M2	28k to 42k		1.15	
24	Mid / High Static Ducted	M3	28k to 54k		1.35	
25	High Static Ducted	B8	36k to 96k		2.20	
26	Low Static Ducted, Low Static Ducted Bottom Return	L1	5k to 9k		0.31	
27	Low Static Ducted, Low Static Ducted Bottom Return	L2	12k to 18k		0.42	
28	Low Static Ducted, Low Static Ducted Bottom Return	L3	21k to 24k		0.55	
29	Vertical / Horizontal Air Handling Unit	NJ	12k to 30k		1.04	
30	Vertical / Horizontal Air Handling Unit	NJ	36k		1.57	
31	Vertical / Horizontal Air Handling Unit	NK	42k to 54k		2.00	
32	Floor Standing	CE (U)	7k to 15k		0.37	
33	Floor Standing	CF (U)	18k to 24k		0.82	
34	HRU: PRHR022A/023A, 032A/033A, 042A/043A	—	—		1.1	
35	HRU: PRHR063A, 083A	—	—		2.2	
36	**ADDITIONAL Refrigerant Charge Required** (Sum of lines 1 – 35)					
37	Water-Source Unit Factory Refrigerant Charge	ARW*072BAS4, ARW*096BAS4, ARW*121BAS4, ARW*144BAS4			10.42	
		ARW*072DAS4, ARW*096DAS4, ARW*121DAS4			10.42	
		ARW*144DAS4, ARW*192DAS4			11.66	
38	**Total WSU FACTORY Refrigerant Charge** (Sum of factory refrigerant charges for all WSUs in the system)					
39	**TOTAL SYSTEM CHARGE** Sum of Additional Refrigerant Charge Required (line 36) and Total WSU Factory Refrigerant Charge (line 38)					

[1]CF (Ref.) = Correction Factor for Refrigerant Charge. [2]For refrigerant charge purposes, consider only the liquid line; ignore the vapor line(s).

MULTI V™

REFRIGERANT CHARGE WORKSHEET

Multi V S System R410A Refrigerant Charge Calculator (lbs.)

System Tag or ID:	Job Name: _____
	Project Manager: _____ Date: _____

Line #	Description			Chassis I.D.	Size	Quantity	CF (Ref.)[1]	Total (lbs.)
1	Linear feet of 1/4" liquid line tubing[2]			—	—		0.015	
2	Linear feet of 3/8" liquid line tubing[2]			—	—		0.041	
3	Linear feet of 1/2" liquid line tubing[2]			—	—		0.079	
4	Linear feet of 5/8" liquid line tubing[2]			—	—		0.116	
5	Linear feet of 3/4" liquid line tubing[2]			—	—		0.179	
6	Linear feet of 7/8" liquid line tubing[2]			—	—		0.238	
7	Linear feet of 1" liquid line tubing[2]			—	—		0.323	
8	Standard + Art Cool Mirror			SJ, SK	5k to 15k		0.53	
9	Standard + Art Cool Mirror			SJ, SK	18k to 24k		0.62	
10	Standard			SV	30k to 36k		1.01	
11	Art Cool Gallery			SF	9k to 12k		0.22	
12	1-Way Cassette			TU	7k to 12k		0.44	
13	1-Way Cassette			TT	18k to 24k		0.64	
14	2-Way Cassette			TS	18k to 24k		0.75	
15	4-Way 2' x 2' Cassette			TR	5k to 7k		0.40	
16	4-Way 2' x 2' Cassette			TR	9k to 12k		0.55	
17	4-Way 2' x 2' Cassette			TQ	15k to 18k		0.71	
18	4-Way 3' x 3' Cassette			TN	7k to 24k		0.88	
19	4-Way 3' x 3' Cassette			TM	28k to 36k		1.08	
20	4-Way 3' x 3' Cassette			TM	42k to 48k		1.41	
21	Mid Static Ducted			M1	7k to 24k		0.57	
22	High Static Ducted			M2	7k to 24k		0.77	
23	Mid Static Ducted			M2	28k to 42k		1.15	
24	Mid / High Static Ducted			M3	28k to 54k		1.35	
25	High Static Ducted			B8	36k to 96k		2.20	
26	Low Static Ducted, Low Static Ducted Bottom Return			L1	5k to 9k		0.31	
27	Low Static Ducted, Low Static Ducted Bottom Return			L2	12k to 18k		0.42	
28	Low Static Ducted, Low Static Ducted Bottom Return			L3	21k to 24k		0.55	
29	Vertical / Horizontal Air Handling Unit			NJ	12k to 30k		1.04	
30	Vertical / Horizontal Air Handling Unit			NJ	36k		1.57	
31	Vertical / Horizontal Air Handling Unit			NK	42k to 54k		2.00	
32	Floor Standing			CE (U)	7k to 15k		0.37	
33	Floor Standing			CF (U)	18k to 24k		0.82	
34	HRU: PRHR022A/023A, 032A/ 033A, 042A/ 043A			—	—		1.1	
35	HRU: PRHR063A, 083A			—	—		2.2	
36	**ADDITIONAL Refrigerant Charge Required** (Sum of lines 1 – 35)							
37	Total ODU FACTORY Refrigerant Charge (Choose One)	37A	ARUN024GSS4				0	
		37B	ARUN038GSS4				0	
		37C	ARUN048GSS4				0	
		37D	ARUN053GSS4				0	
		37F	ARUN060GSS4				0	
		37G	ARUB060GSS4				0	
38	**TOTAL SYSTEM CHARGE** Sum of Additional Refrigerant Charge Required (line 36) and Total ODU Factory Refrigerant Charge (from lines 37A through 37G)							

[1]CF (Ref.) = Correction Factor for Refrigerant Charge. [2]For refrigerant charge purposes, consider only the liquid line; ignore the vapor line(s).

CEILING-CONCEALED DUCTED HIGH STATIC

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DUCTED HIGH STATIC
Mechanical Specifications

Casing
The case is designed to mount concealed above a finished ceiling. Fan supply air is front horizontal with a dedicated rear horizontal return. The unit is manufactured with coated metal. Cold surfaces are covered with a coated polystyrene insulating material. The cold surface areas of the case are covered externally with sheet insulation made of Ethylene Propylene Diene Monomer (M-Class) (EPDM) conforming to ASTM Standard D-1418. The case is provided with hanger brackets designed to support the unit weight on four corners. Hanger brackets have pre-punched holes designed to accept field supplied, all-thread rod hangers.

Fan Assembly and Control
The unit has Sirocco fans made of high strength ABS GP-2200 polymeric resin. Fans are directly driven and mounted on a common shaft. The fan motor is a Brushless Digitally Controlled (BLDC) design with permanently lubricated and sealed ball bearings. The fan motor includes thermal, overcurrent and low RPM protection. The fan / motor assembly is mounted on vibration attenuating rubber grommets. The fan impeller is statically and dynamically balanced. The fan speed is controlled using a microprocessor based, direct digital control algorithm that provides a high fan speed in cooling thermal ON and low fan speed in cooling thermal OFF, high fan speed in heating thermal ON and fan off in heating thermal OFF. The fan speeds can be field adjusted between low, medium, and high speeds and DIP switch settings will allow the fan to run constantly during defrost or oil return modes. Each setting can be field adjusted from the factory setting (RPM / ESP) to compensate for additional resistance to airflow caused by field connected ductwork or other airflow restricting devices.

Air Filter
Return air is filtered with a removable, washable filter with anti fungal treatment. MERV 13 filter modules with plenums available.

Microprocessor Controls
The unit is provided with an integrated microprocessor-based controller. The controller is capable of performing functions necessary to operate the system without the use of a wall-mounted controller. A temperature thermistor is factory-mounted in the return air stream. All unit operation parameters, excluding the unit operating schedule, are stored in non-volatile memory resident on the unit microprocessor. Operating schedules are stored in select models of the optional, wall-mounted, local, or central controller. The field supplied communication cable between the indoor unit(s) and outdoor unit must be a minimum of 18 AWG, 2-conductor, stranded, and shielded cable (RS-485), terminated via screw terminals on the control boards. The microprocessor control provides the following functions: auto addressing, self-diagnostics, auto restart following power restoration, test run, and will operate the indoor unit using one of five operating modes:

1. Auto Changeover (Heat Recovery only)
2. Heating
3. Cooling
4. Dry
5. Fan Only

For Heat Recovery systems, the Auto Changeover setting automatically switches control of the indoor unit between cooling and heating modes based on space temperature conditions.

For Heat Pump systems, heated or cooled air delivery is dependent upon outdoor unit operating mode.

In Heating mode, the microprocessor control will activate the indoor unit when indoor room temperature falls below setpoint temperature and signals the outdoor unit to begin heating cycle. The indoor unit fan operation is delayed until coil pipe temperature reaches 76ºF. Significant airflow is generated when pipe temperature reaches 80°F. In lieu of factory return air thermistor, screw terminals on the microprocessor circuit board accommodate various models of wall-mounted local controllers and/or a wall-mounted remote temperature sensor. The unit microprocessor is capable of accepting space temperature readings concurrently or individually from either:

1. Wall-mounted wired controller(s)
2. Factory mounted return air thermistor or the optional wall-mounted wired remote temperature sensor

A single indoor unit has the capability of being controlled by up to two local wired controllers. The microprocessor controls space temperature using the value provided by the temperature sensor sensing a space temperature that is farthest away from the temperature set-point. The microprocessor control provides a cooling or heating mode test cycle that operates the unit for 18 minutes without regard to the space temperature. If the system is provided with an optional wall-mounted local or central controller, displayed diagnostic codes are specific, alpha numeric, and provide the service technician with a reason for the code displayed.

Condensate Lift / Pump
The indoor unit is provided with a factory installed and wired condensate lift / pump capable of providing a maximum 27.5 inch lift from the bottom exterior surface of the unit casing. The unit drain pan is provided with a secondary drain port/plug allowing the pan to be drained for service. The lift pump comes with a safety switch that will shut off indoor unit if condensate rises too high in the drain pan.

Condensate Drain Pan
The condensate drain pan is constructed of high impact polystyrene resin (HIPS).

Coil
The indoor unit coil is constructed with grooved design copper tubes with slit coil fins, 2 to 3 rows, 18 - 19 fins per inch.

Controls Features
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- External on/off control
- Dual thermistor control
- Dual set-point control
- Filter life display
- Multiple auxiliary heater applications
- Group control
- External static pressure control
- Hot start
- Self diagnostics
- Timer (on / off)
- Weekly schedule
- Fan speed control
- Ventilation (outside air)
- Wi-Fi compatible
- Auto fan
- Leak detection

**To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.*

DUCTED HIGH STATIC
General Data

Table 1: Ducted High Static Indoor Unit General Data.

Model No.	ARNU073M2A4	ARNU093M2A4	ARNU123M2A4	ARNU153M2A4	ARNU183M2A4
Cooling Mode Performance					
Capacity (Btu/h)	7,500	9,600	12,300	15,400	19,100
Max Power Input[1] (W)	430	430	430	430	430
L/M/H Power Input at Factory Default (W)	21 / 29 / 38	21 / 29 / 38	25 / 34 / 43	25 / 34 / 43	34 / 43 / 67
Heating Mode Performance					
Capacity (Btu/h)	8,500	10,900	13,600	17,100	21,500
Max Power Input[1] (W)	430	430	430	430	430
L/M/H Power Input at Factory Default (W)	21 / 29 / 38	21 / 29 / 38	25 / 34 / 43	25 / 34 / 43	34 / 43 / 67
Entering Mixed Air					
Cooling Max. (°F WB)	76	76	76	76	76
Heating Min. (°F DB)[2]	59	59	59	59	59
Unit Data					
Refrigerant Type[3]	R410A	R410A	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV	EEV	EEV
Sound Power[4] dB(A) (H/M/L, @0.24" ESP)	53 / 52 / 52	53 / 52 / 52	53 / 53 / 52	53 / 53 / 52	54 / 53 / 53
Net Unit Weight (lbs.)	82.9	82.9	82.9	82.9	82.9
Shipping Weight (lbs.)	95.5	95.5	95.5	95.5	95.5
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Fan					
Type	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco
Motor	1	1	1	1	1
Housing	2	2	2	2	2
Motor/Drive	Brushless Digitally Controlled / Direct				
Airflow Rate H/M/L (CFM) Standard Mode	477 / 399 / 327	477 / 399 / 327	520 / 435 / 363	520 / 435 / 363	640 / 520 / 435
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	468 / 381 / 294	468 / 381 / 294	512 / 425 / 337	512 / 425 / 337	673 / 512 / 425
External Static Pressure (in. wg) Standard Mode	0.20	0.20	0.20	0.20	0.20
External Static Pressure (in. wg) High Mode (Factory Set)	0.24	0.24	0.24	0.24	0.24
Piping					
Liquid Line (in., O.D.)	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare
Condensate Line (in., I.D.)	1	1	1	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Power level is measured using rated conditions, and tested in a reverberation room per ISO Standard 3741.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

Table 2: Ducted High Static Indoor Unit General Data.

Model No.	ARNU243M2A4	ARNU283M3A4
Cooling Mode Performance		
Capacity (Btu/h)	24,200	28,000
Max Power Input[1] (W)	430	650
L/M/H Power Input at Factory Default (W)	34 / 43 / 67	60 / 83 / 109
Heating Mode Performance		
Capacity (Btu/h)	27,300	31,500
Max Power Input[1] (W)	450	650
L/M/H Power Input at Factory Default (W)	34 / 43 / 67	60 / 83 / 109
Entering Mixed Air		
Cooling Max. (°F WB)	76	76
Heating Min. (°F DB)[2]	59	59
Unit Data		
Refrigerant Type[3]	R410A	R410A
Refrigerant Control	EEV	EEV
Sound Power[4] dB(A) (H/M/L, @0.24" ESP)	54 / 53 / 53	64 / 62 / 61
Net Unit Weight (lbs.)	82.9	96.1
Shipping Weight (lbs.)	95.5	110.0
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18
Fan		
Type	Sirocco	Sirocco
Motor	1	1
Housing	2	2
Motor/Drive	Brushless Digitally Controlled / Direct	
Airflow Rate H/M/L (CFM) Standard Mode	640 / 520 / 435	1,235 / 1,060 / 915
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	673 / 512 / 425	1,250 / 1,017 / 837
External Static Pressure (in. wg) Standard Mode	0.20	0.19
External Static Pressure (in. wg) High Mode (Factory Set)	0.24	0.23
Piping		
Liquid Line (in., O.D.)	3/8 Flare	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare	5/8 Flare
Condensate Line (in., I.D.)	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Power level is measured using rated conditions, and tested in a reverberation room per ISO Standard 3741.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED HIGH STATIC

General Data

Table 3: Ducted High Static Indoor Unit General Data.

Model No.	ARNU363B8A4	ARNU423B8A4	ARNU483B8A4	ARNU763B8A4	ARNU963B8A4
Cooling Mode Performance					
Capacity (Btu/h)	36,200	42,000	48,100	76,400	95,900
Max. Power Input[1] (W)	800	800	800	800	800
L/M/H Power Input at Factory Default (W)	403 / 420 / 478	465 / 497 / 528	482 / 500 / 538	505 / 505 / 765	750 / 750 / 800
Heating Mode Performance					
Capacity (Btu/h)	40,600	43,800	51,200	86,000	107,500
Max. Power Input[1] (W)	800	800	800	800	800
L/M/H Power Input at Factory Default (W)	403 / 420 / 478	465 / 497 / 528	482 / 500 / 538	505 / 505 / 765	750 / 750 / 800
Entering Mixed Air					
Cooling Max. (°F WB)	76	76	76	76	76
Heating Min. (°F DB)[2]	59	59	59	59	59
Unit Data					
Refrigerant Type[3]	R410A	R410A	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV	EEV	EEV
Sound Pressure[4] dB(A) (H/M/L)	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44	50 / 48 / 48	52 / 50 / 50
Net Unit Weight (lbs.)	192	192	192	192	192
Shipping Weight (lbs.)	222	222	222	222	222
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Fan					
Type	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco
Motor	2	2	2	2	2
Housing	2	2	2	2	2
Motor/Drive	Brushless Digitally Controlled / Direct				
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	1,730 / 1,317 / 1,066	1,914 / 1,458 / 1,123	2,019 / 1,518 / 1,200	2,260 / 1,766 / 1,766	2,542 / 2,260 / 2,260
External Static Pressure (in. wg) High Mode (Factory Set)	0.70	0.70	0.70	0.87	0.87
Piping					
Liquid Line (in., O.D.)	3/8 Brazed	3/8 Brazed	3/8 Brazed	3/8 Brazed	3/8 Brazed
Vapor Line (in., O.D.)	3/4 Brazed	3/4 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed
Condensate Line (in., I.D.)	1	1	1	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED HIGH STATIC
Electrical Data

Table 4: Ducted High Static Indoor Unit Electrical Data.

Model	Voltage Range	MCA	MOP	Rated Amps (A)	Power Supply			Power Input (W)		
					Hz	Volts	Phase	Max. Cooling	Max. Heating	L / M / H at Factory Default
M2 Units										
ARNU073M2A4	208-230	2.9	15	2.3	60	208-230	1	430	430	21 / 29 / 38
ARNU093M2A4		2.9		2.3				430	430	21 / 29 / 38
ARNU123M2A4		2.9		2.3				430	430	25 / 34 / 43
ARNU153M2A4		2.9		2.3				430	430	25 / 34 / 43
ARNU183M2A4		2.9		2.3				430	430	34 / 43 / 67
ARNU243M2A4		2.9		2.3				430	430	34 / 43 / 67
M3 Units										
ARNU283M3A4	208-230	3.1	15	2.5	60	208-230	1	650	650	60 / 83 / 109
B8 Units										
ARNU363B8A4	208-230	6.5	15	5.2	60	208-230	1	800	800	403 / 420 / 478
ARNU423B8A4		6.5		5.2				800	800	465 / 497 / 528
ARNU483B8A4		6.5		5.2				800	800	482 / 500 / 538
ARNU763B8A4		6.5		5.2				800	800	505 / 505 / 765
ARNU963B8A4		6.5		5.2				800	800	750 / 750 / 800

MCA : Minimum Circuit Ampacity.
MOP : Maximum Overcurrent Protection.

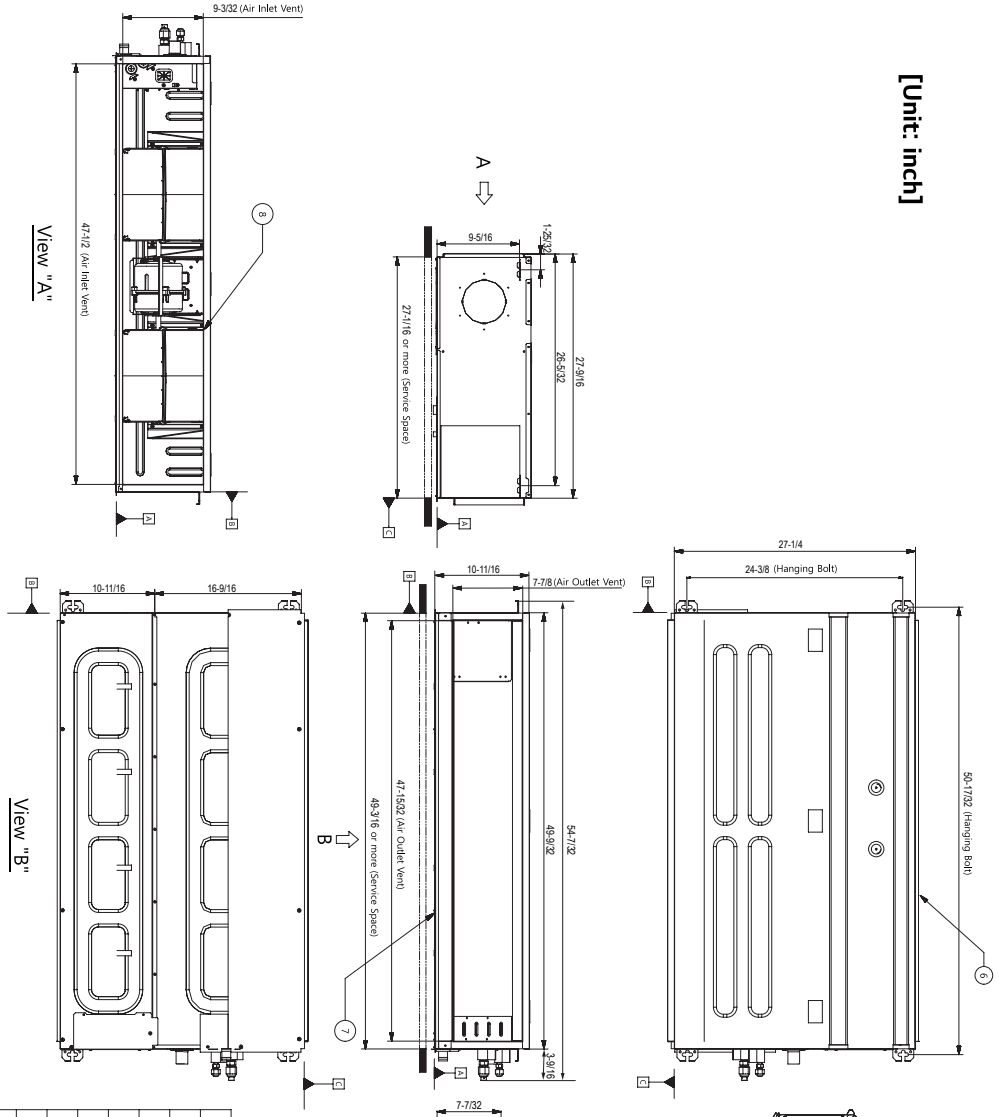
Units are suitable for use on an electrical system where voltage supplied to unit terminals is within the listed range limits.
Select wire size based on the larger MCA value.
Instead of fuse, use the circuit breaker.
Max. power input is rated at maximum setting value.

DUCTED HIGH STATIC

External Dimensions

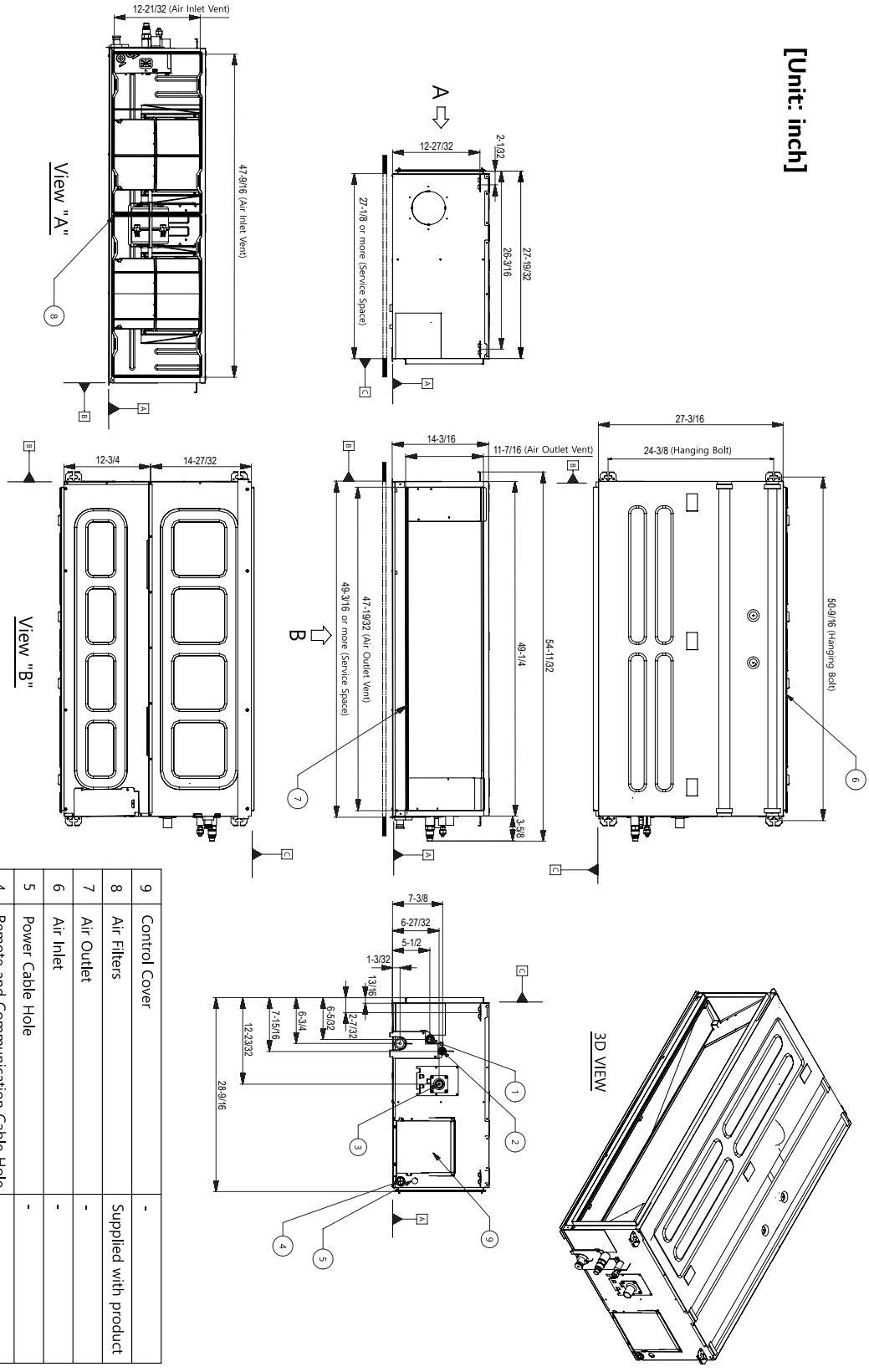
ARNU073~243M2A4 Units

Figure 3: ARNU073~243M2A4 Dimensions.



No.	Part Name	Description
1	Gas pipe connection	-
2	Liquid pipe connection	-
3	Drain pipe connection	-
4	Remote and Communication Cable Hole	-
5	Power Cable Hole	-
6	Air Inlet	-
7	Air Outlet	-
8	Air Filters	Supplied with product
9	Control Cover	-

Figure 4: ARNU283M3A4 Dimensions.



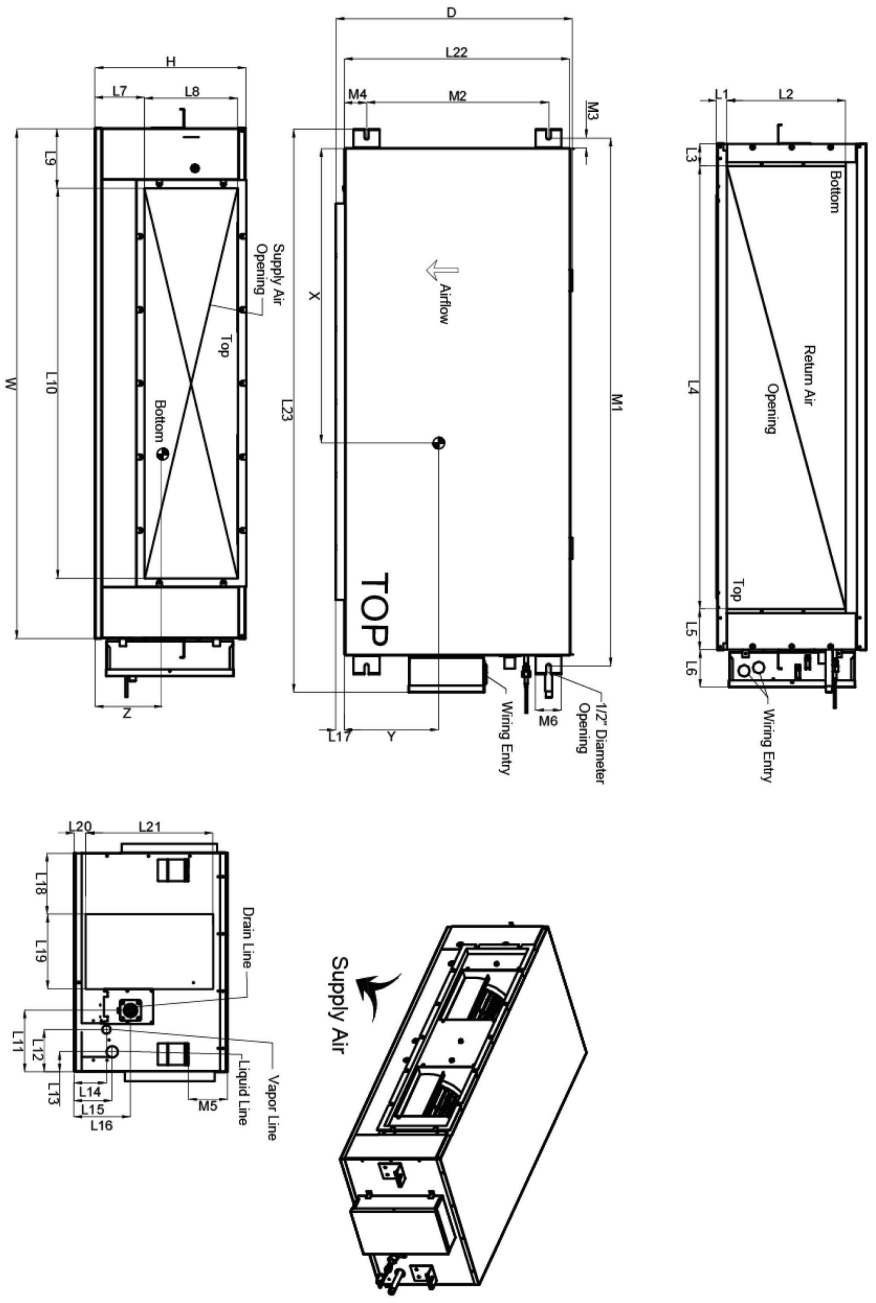
No.	Part Name	Description
1	Gas pipe connection	-
2	Liquid pipe connection	-
3	Drain pipe connection	-
4	Remote and Communication Cable Hole	-
5	Power Cable Hole	-
6	Air Inlet	-
7	Air Outlet	-
8	Air Filters	Supplied with product
9	Control Cover	-

DUCTED HIGH STATIC

External Dimensions

B8 Units

Figure 5: ARNU363~963B8A4 Dimensions.



W	D	H	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	M1	M2	M3	M4	M5	M6
61 1/2"	28 5/8"	18 1/8"	2 3/8"	15 7/16"	2"	55"	4 9/16"	4 1/2"	6"	11 5/8"	6 3/4"	44 1/4"	7 5/8"	5 1/4"	2 1/2"	4 3/4"	5 1/2"	6 7/8"	1 3/16"	7 13/16"	9 3/16"	1 5/16"	15 3/8"	27 1/8"	68 1/4"	63 13/16"	22"	1 3/16"	2 1/2"	4 1/8"	3 3/16"

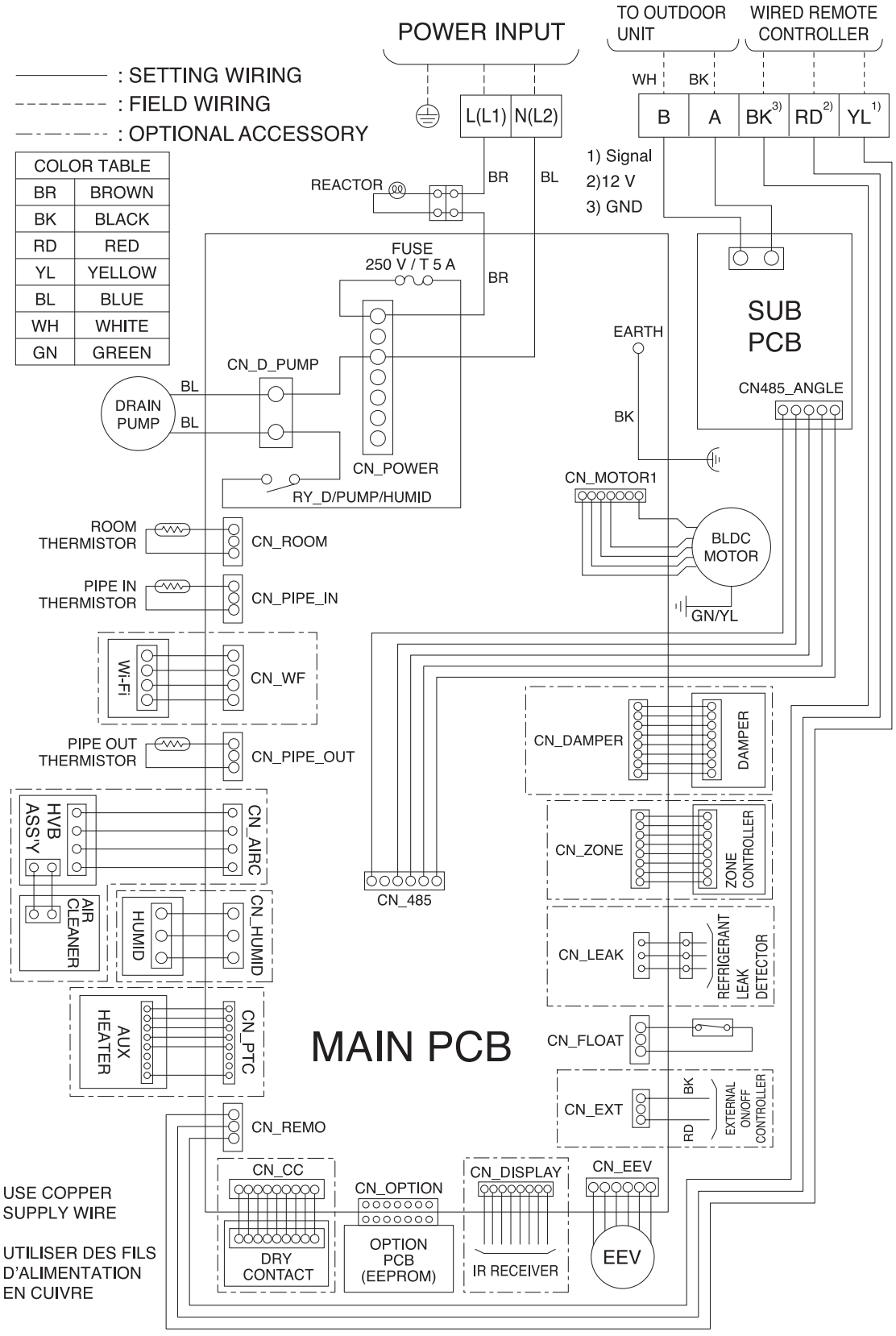
Center of Gravity

X	Y	Z
31 1/16"	18 1/8"	8 3/4"

Note - All dimensions have a tolerance of ± 0.25 in.

⊕ = Center of gravity

Figure 6: ARNU073~243M2A4 Wiring Diagram.



DUCTED HIGH STATIC

Electrical Wiring Diagram

ARNU073~243M2A4 Units

Table 5: ARNU073~243M2A4 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-HUMID	N / A	N / A
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

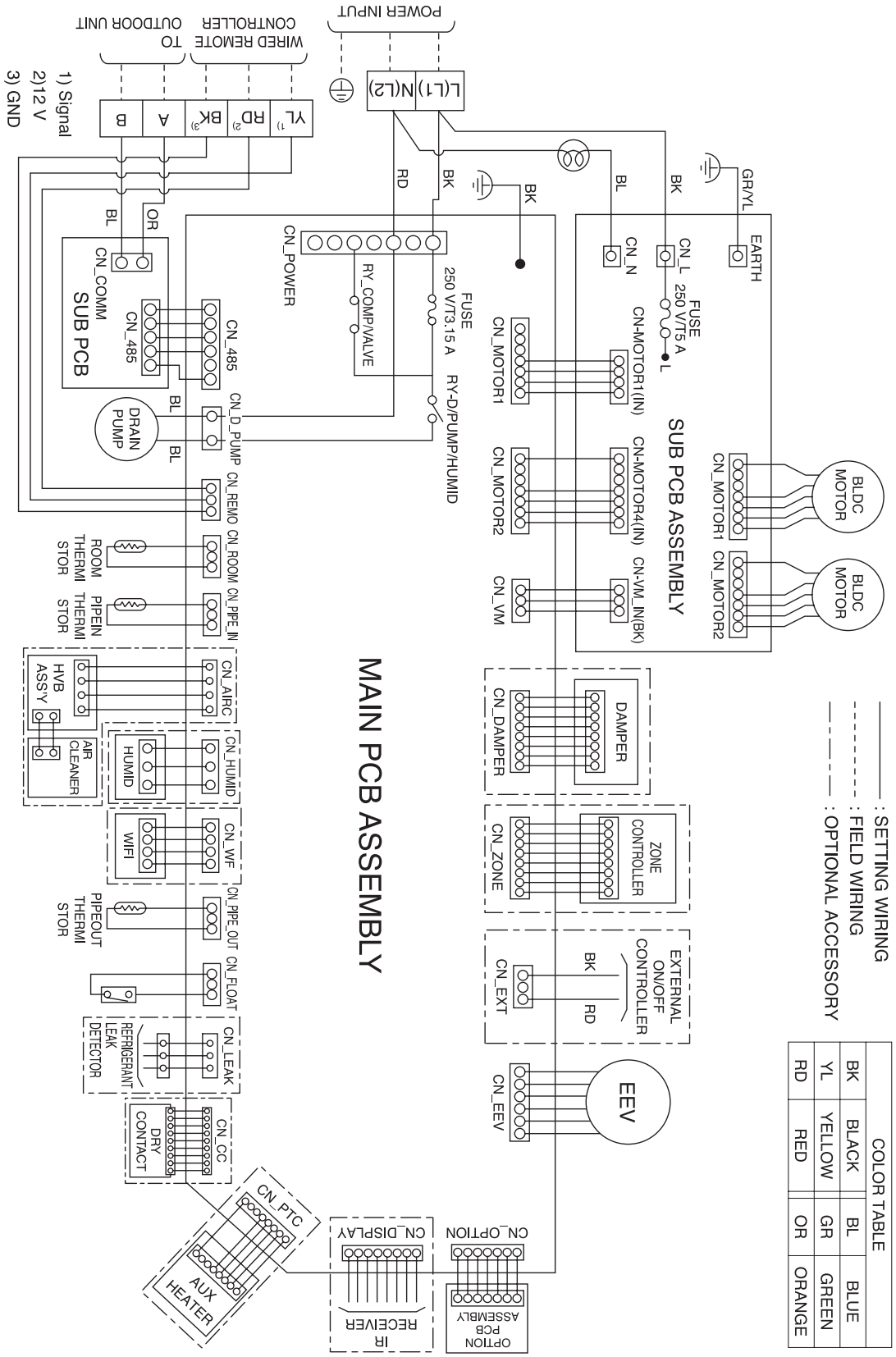
Table 6: ARNU073~243M2A4 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

Figure 7: ARNU283M3A4 Wiring Diagram.



DUCTED HIGH STATIC

Electrical Wiring Diagram
ARNU283M3A4 Unit

Table 7: ARNU283M3A4 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-MOTOR2	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

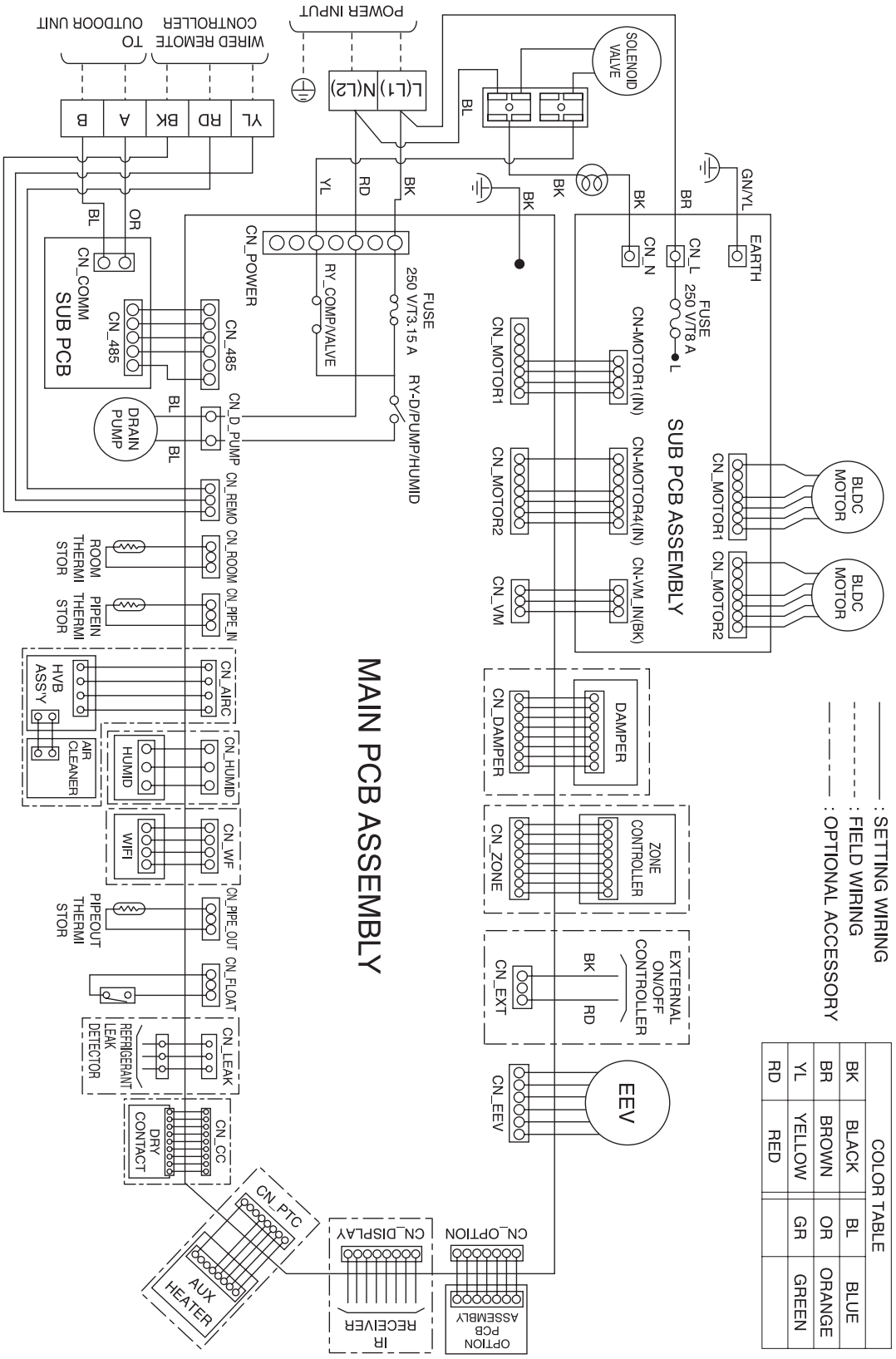
Table 8: ARNU283M3A4 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

Figure 8: ARNU363~963B8A4 Wiring Diagram.



DUCTED HIGH STATIC

Electrical Wiring Diagram

B8 Units

Table 9: B8 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-MOTOR2	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 10: B8 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

Figure 9: M2, M3 Unit Refrigerant Flow Diagram.

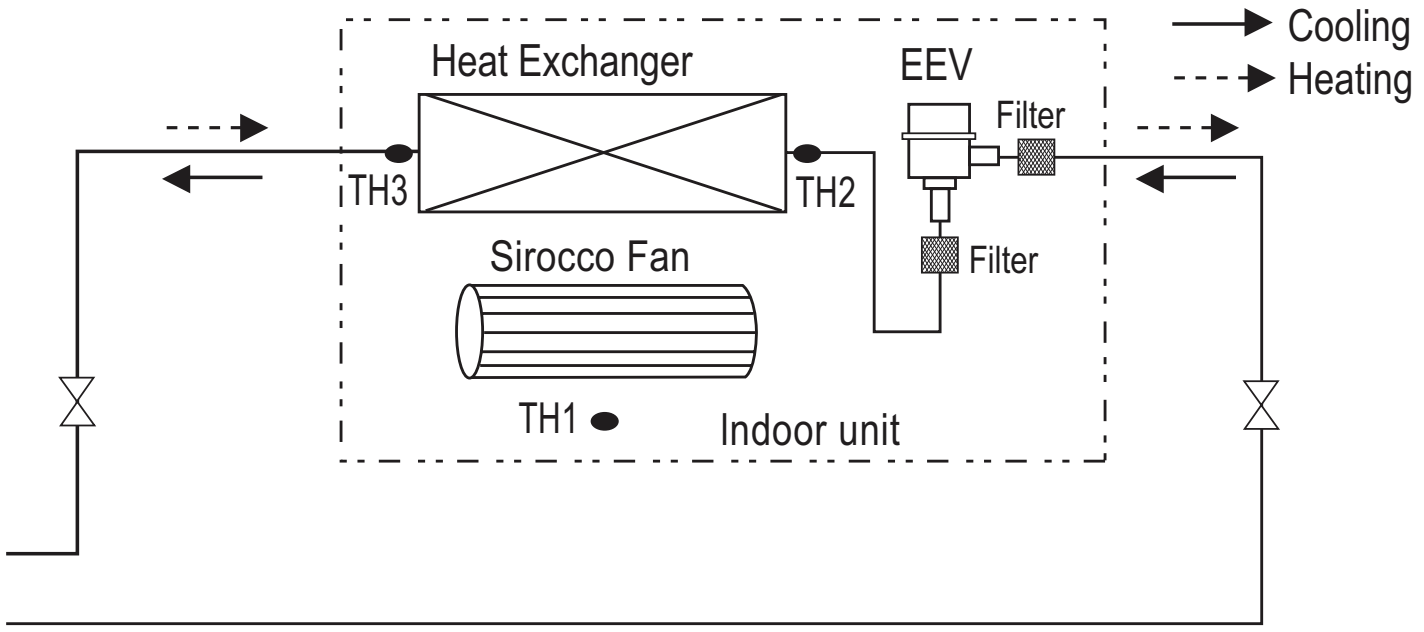


Table 11: M2, M3 Unit Refrigerant Pipe Connection Port Diameters.

Model	Liquid (inch)	Vapor (inch)
M2 Units		
ARNU073M2A4	1/4 Flare	1/2 Flare
ARNU093M2A4	1/4 Flare	1/2 Flare
ARNU123M2A4	1/4 Flare	1/2 Flare
ARNU153M2A4	1/4 Flare	1/2 Flare
ARNU183M2A4	1/4 Flare	1/2 Flare
ARNU243M2A4	3/8 Flare	5/8 Flare
M3 Units		
ARNU283M3A4	3/8 Flare	5/8 Flare

Table 12: M2, M3 Frame Thermistors.

Thermistor	Description
TH1	Return air thermistor
TH2	Pipe in thermistor
TH3	Pipe out thermistor

Refrigerant Flow Diagram
B8 Units

Figure 10: B8 Unit Refrigerant Flow Diagram.

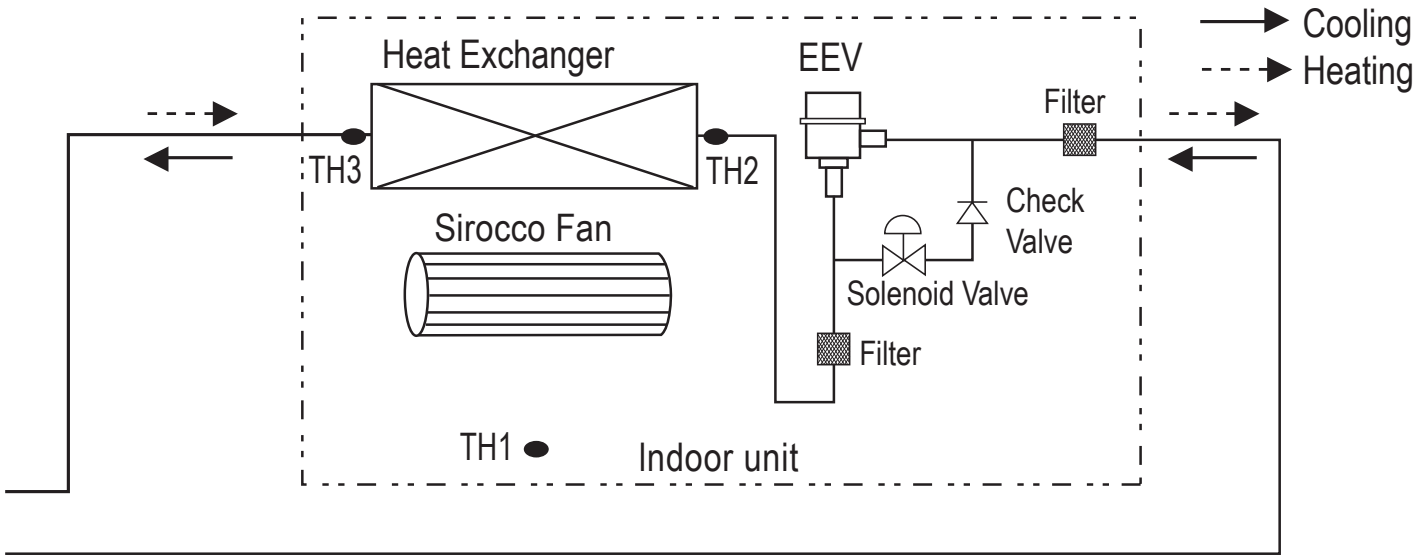


Table 13: B8 Unit Refrigerant Pipe Connection Port Diameters.

Model	Liquid (inch)	Vapor (inch)
ARNU363B8A4	3/8 Brazed	3/4 Brazed
ARNU423B8A4		
ARNU483B8A4		
ARNU763B8A4		
ARNU963B8A4		7/8 Brazed

Table 14: B8 Unit Thermistors.

Thermistor	Description
TH1	Return air thermistor
TH2	Pipe in thermistor
TH3	Pipe out thermistor

ARNU073~243M2A4 Unit External Static Pressure and Air Flow Table

Table 15: ARNU073~243M2A4 External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)							
	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71
	Air Flow Rate [CFM]							
65								
70								
75	530							
80	672	267						
85	879	486	173					
90	974	720	276					
95	1073	861	554	182				
100	1168	1013	734	325	135			
105	1267	1119	851	618	238			
110	1363	1225	1077	784	406	195		
115	1416	1334	1193	985	713	321		
120		1380	1310	1108	868	632	263	
125			1358	1236	1063	748	389	235
130				1310	1130	974	551	353
135					1298	1113	857	572
140					1431	1267	1052	792
145						1407	1233	980
150							1391	1207
155								1309

1. All static pressure air flow rates are listed in CFM.

2. The tables above show the correlation between air flow rates and external static pressure.

3. The tables above show the available external static pressure range.

Note:

If the external static pressure of the installed indoor unit is less than the lowest value (as mentioned in the table), the indoor unit components can fail.

DUCTED HIGH STATIC

External Static Pressure and Air Flow Tables

ARNU283M3A4 Unit External Static Pressure and Air Flow Table

Table 16: ARNU283M3A4 Unit External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)								
	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71	0.79
	Air Flow Rate [CFM]								
70	891								
75	1074	756							
80	1235	959	654						
85	1404	1250	869						
90	1562	1416	1111	800					
95	1741	1581	1300	1017	754				
100	1872	1744	1574	1251	978				
105	2020	1910	1737	1518	1234	935			
110		2076	1903	1691	1497	1193	858	522	
115			2069	1867	1687	1500	1108	717	646
120				2040	1874	1701	1384	1066	868
125					1913	1744	1520	1296	1168
130					1927	1860	1714	1567	1398
135								1772	1596

1. All static pressure air flow rates are listed in CFM.

2. The tables above show the correlation between air flow rates and external static pressure.

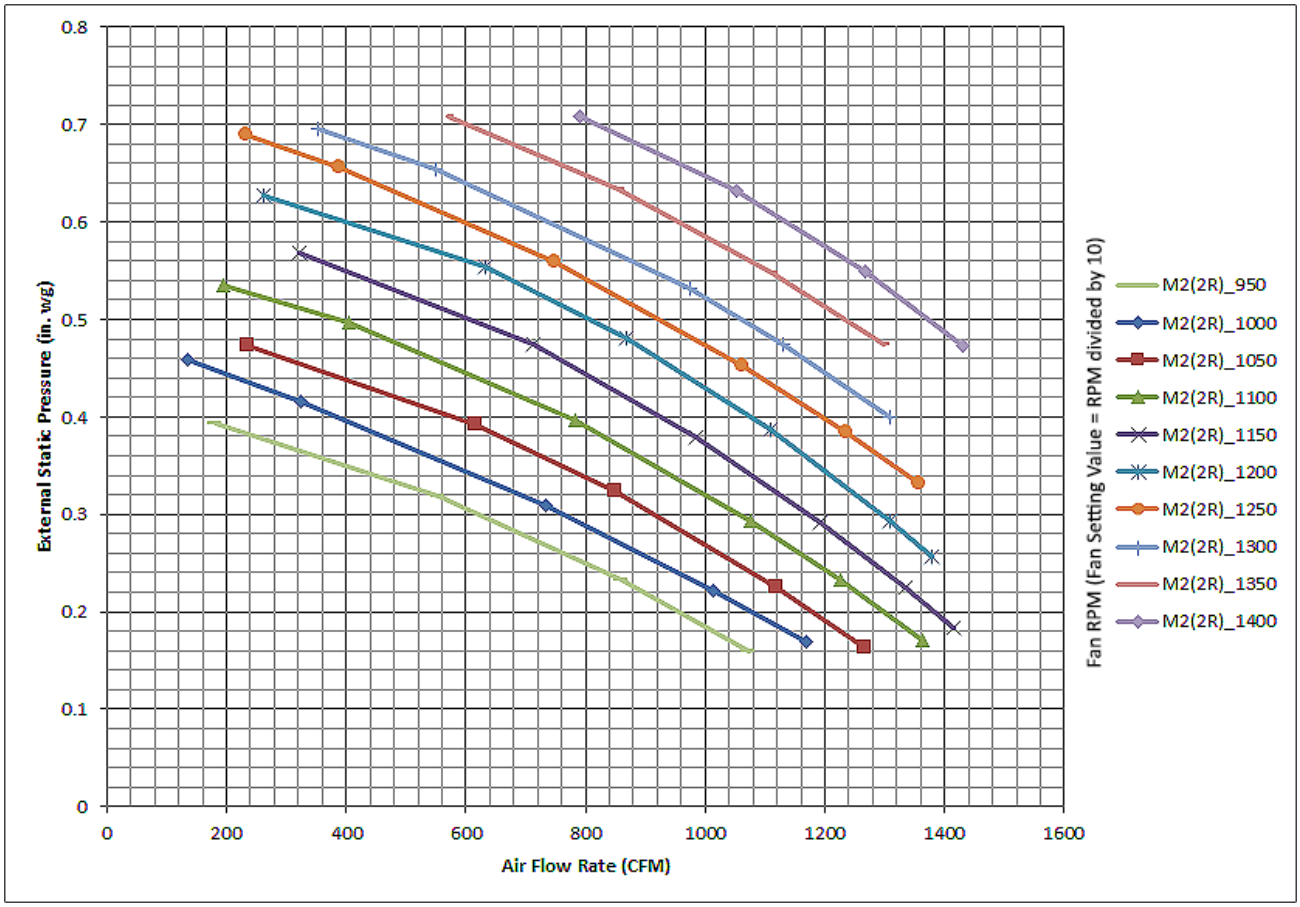
3. The tables above show the available external static pressure range.

Note:

If the external static pressure of the installed indoor unit is less than the lowest value (as mentioned in the table), the indoor unit components can fail.

ARNU073~243M2A4 Unit External Static Pressure and Air Flow Chart

Figure 11: ARNU073~243M2A4 External Static Pressure and Air Flow Chart.

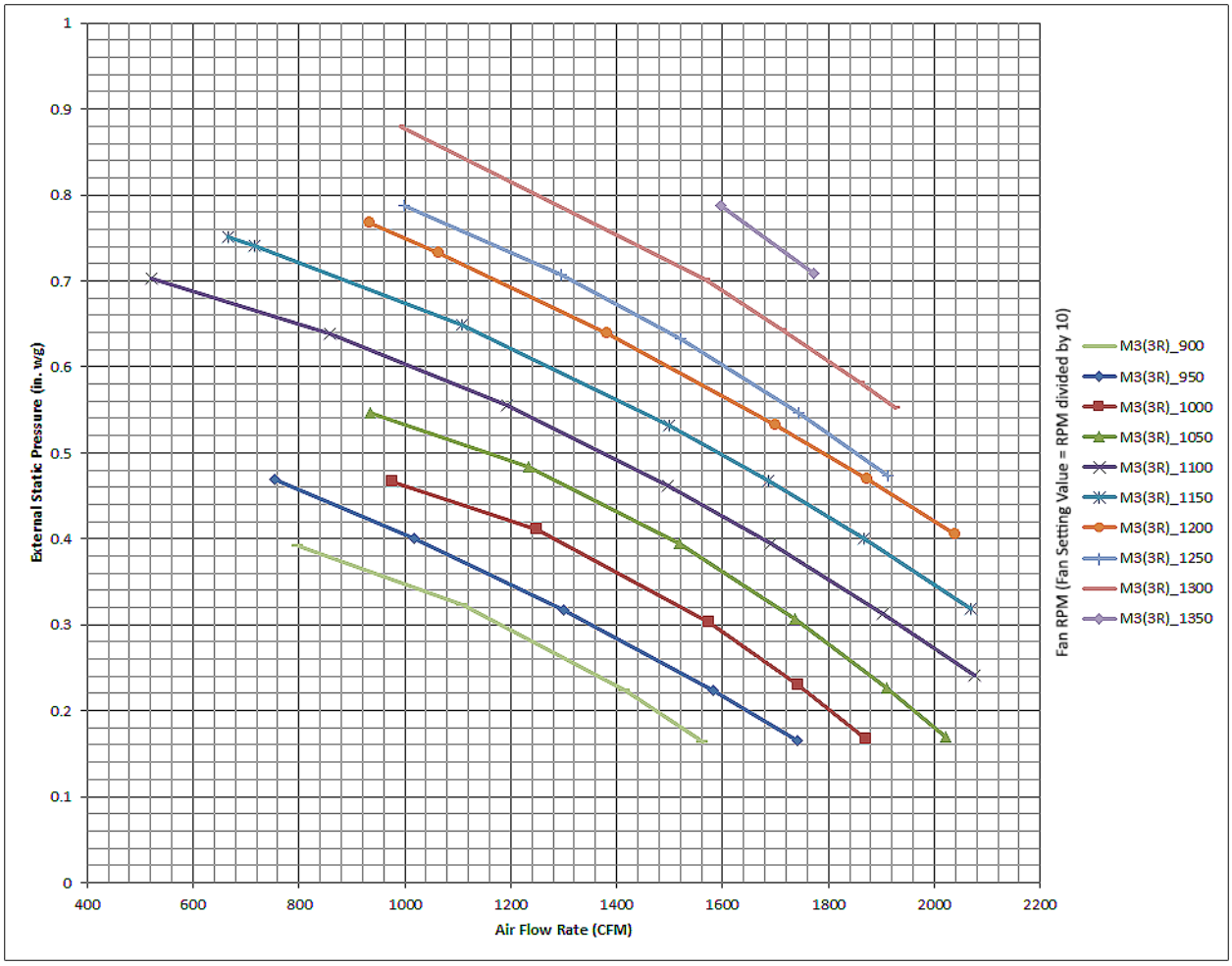


DUCTED HIGH STATIC

External Static Pressure and Air Flow Charts

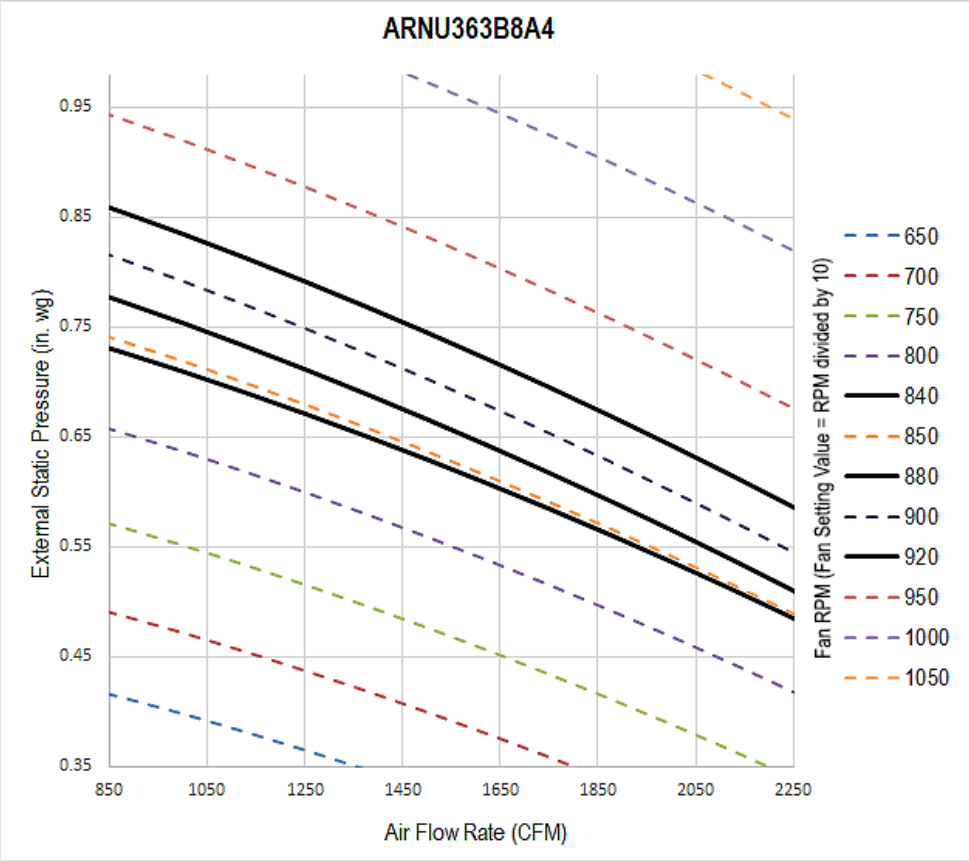
ARNU283M3A4 Unit External Static Pressure and Air Flow Chart

Figure 12: ARNU283M3A4 Unit External Static Pressure and Air Flow Chart.



ARNU363B8A4 Unit External Static Pressure and Air Flow Chart

Figure 13: ARNU363B8A4 Unit External Static Pressure and Air Flow Chart.

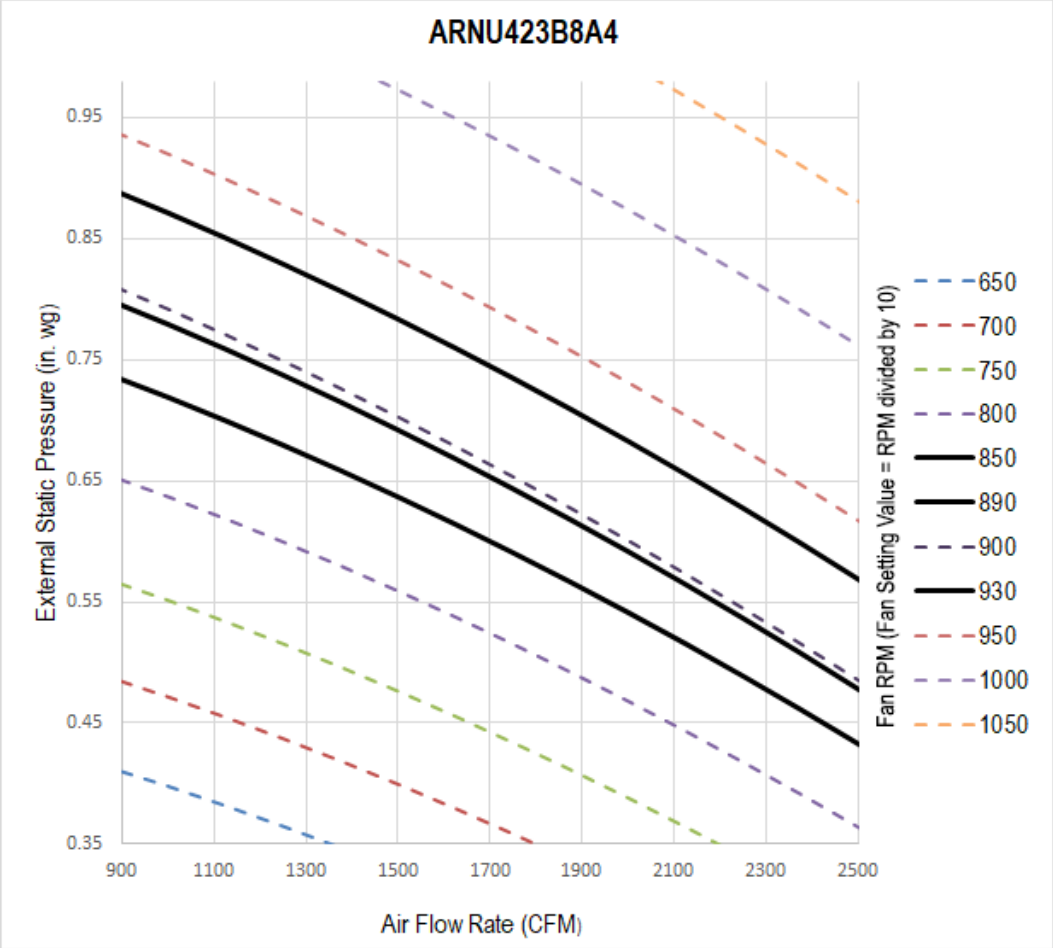


DUCTED HIGH STATIC

External Static Pressure and Air Flow Charts

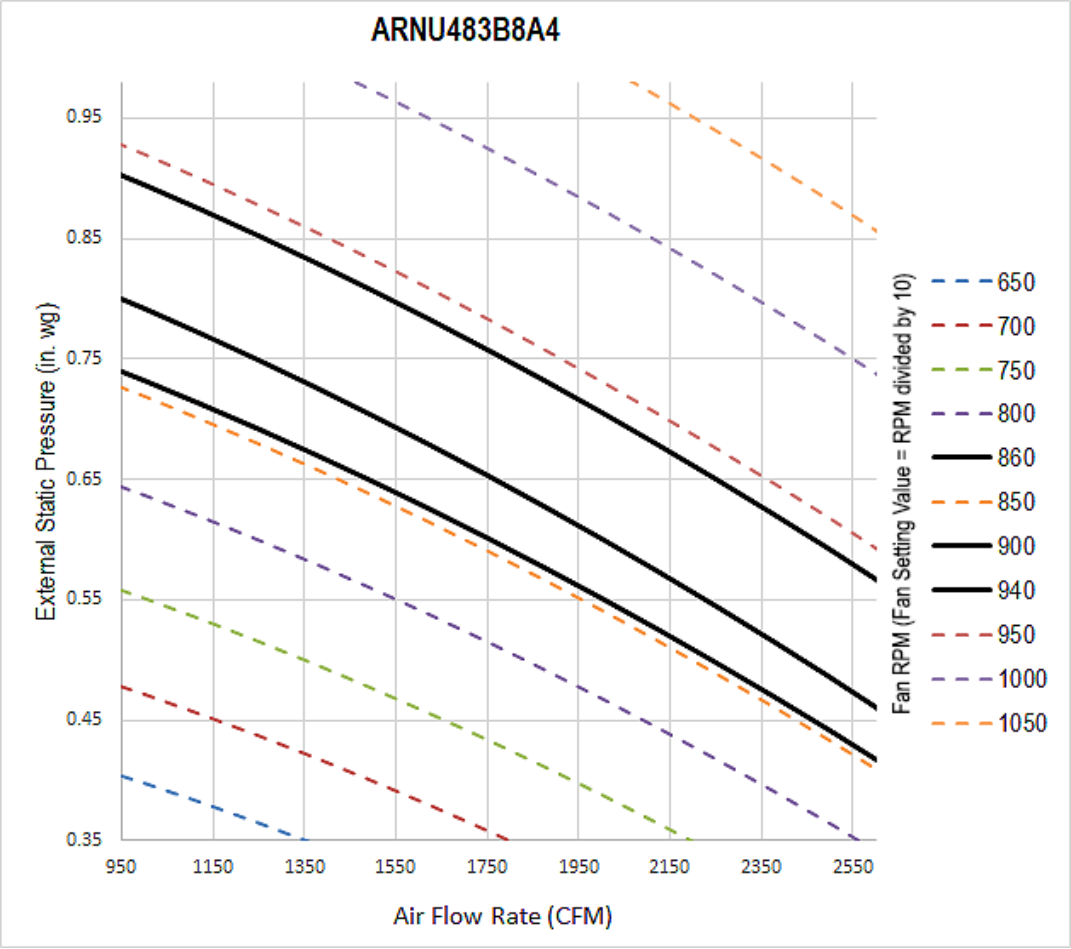
ARNU423B8A4 Unit External Static Pressure and Air Flow Chart

Figure 14: ARNU423B8A4 Unit External Static Pressure and Air Flow Chart.



ARNU483B8A4 Unit External Static Pressure and Air Flow Chart

Figure 15: ARNU483B8A4 Unit External Static Pressure and Air Flow Chart.

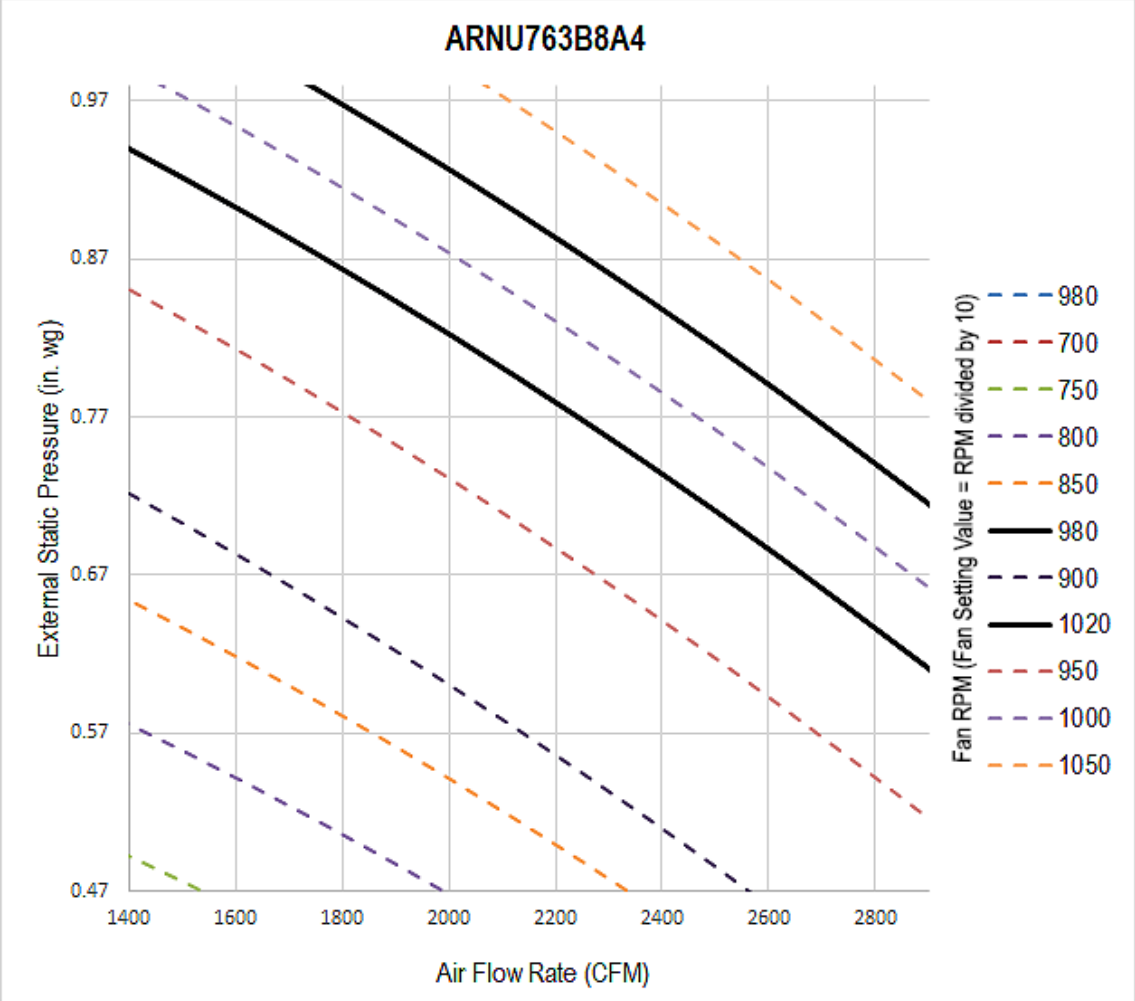


DUCTED HIGH STATIC

External Static Pressure and Air Flow Charts

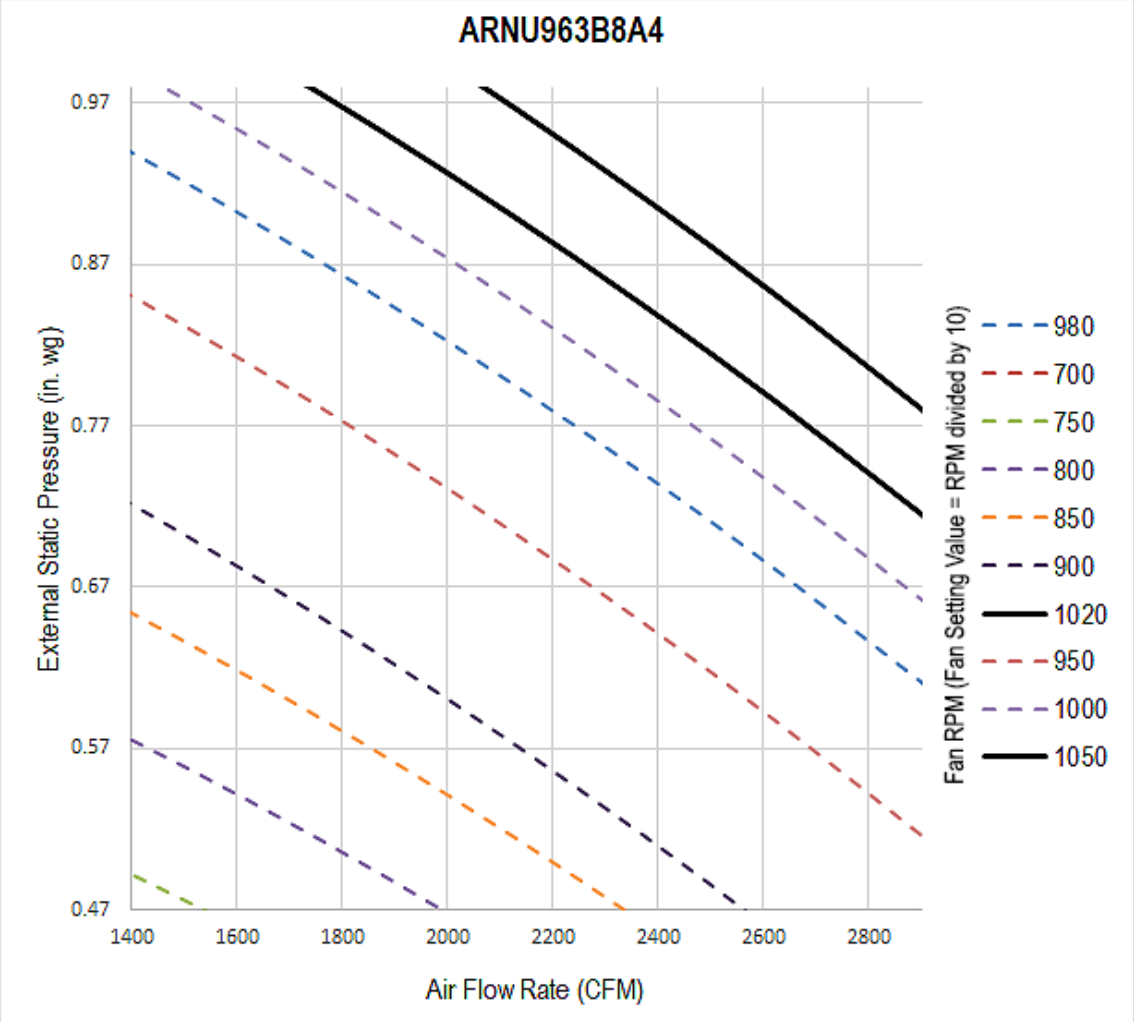
ARNU763B8A4 Unit External Static Pressure and Air Flow Chart

Figure 16: ARNU763B8A4 Unit External Static Pressure and Air Flow Chart.



ARNU963B8A4 Unit External Static Pressure and Air Flow Chart

Figure 17: ARNU963B8A4 Unit External Static Pressure and Air Flow Chart.



DUCTED HIGH STATIC
External Static Pressure Ranges

External Static Pressure Ranges for ARNU073~243M2A4 units

Table 17: M2 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in wg)	CFM	Min. ESP (in wg)	Max. ESP (in wg)
ARNU073M2A4	7.0	High (Factory Set)	High	83	0.24	468	0.16	0.71
			Mid	81		381		
			Low	79		294		
		Standard	High	81	0.20	477	0.16	0.71
			Mid	79		399		
			Low	77		327		
ARNU093M2A4	9.0	High (Factory Set)	High	83	0.24	468	0.16	0.71
			Mid	81		381		
			Low	79		294		
		Standard	High	81	0.20	477	0.16	0.71
			Mid	79		399		
			Low	77		327		
ARNU123M2A4	12.0	High (Factory Set)	High	84	0.24	512	0.16	0.71
			Mid	82		425		
			Low	80		337		
		Standard	High	82	0.20	520	0.16	0.71
			Mid	80		435		
			Low	78		363		
ARNU153M2A4	15.0	High (Factory Set)	High	84	0.24	512	0.16	0.71
			Mid	82		425		
			Low	80		337		
		Standard	High	82	0.20	520	0.16	0.71
			Mid	80		435		
			Low	78		363		
ARNU183M2A4	18.0	High (Factory Set)	High	89	0.24	673	0.16	0.71
			Mid	84		512		
			Low	82		425		
		Standard	High	84	0.20	640	0.16	0.71
			Mid	82		520		
			Low	80		435		
ARNU243M2A4	24.0	High (Factory Set	High	89	0.24	673	0.16	0.71
			Mid	84		512		
			Low	82		425		
		Standard	High	84	0.20	640	0.16	0.71
			Mid	82		520		
			Low	80		435		

The table above shows the available E.S.P. range.

External Static Pressure Ranges for ARNU283M3A4 unit

Table 18: M3 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in wg)	CFM	Min. ESP (in wg)	Max. ESP (in wg)
ARNU283M3A4	28.0	High (Factory Set)	High	86	0.23	1250	0.16	0.79
			Mid	82		1017		
			Low	78		837		
		Standard	High	83	0.19	1235	0.16	0.79
			Mid	79		1060		
			Low	75		915		

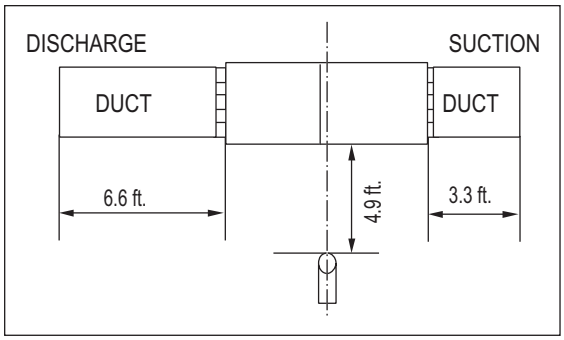
The table above show the available E.S.P. range.

DUCTED HIGH STATIC

Acoustic Data

Sound Pressure Levels

Figure 18: Sound Pressure Measurement Location.



- Measurements are taken 4.9 ft away from the front of the unit.
- Sound pressure levels are measured in dB(A) with a tolerance of ±3.
- Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

Operating Conditions:

- Power source: 220V/60 Hz

- Sound level will vary depending on a range of factors including the construction (acoustic absorption coefficient) of a particular room in which the unit was installed.

Sound Pressure for ARNU073~243M2A4 Units

Table 19: M2 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.71
ARNU073M2A4	32-31-29	33-33-32	38-37-36	42-42-41
ARNU093M2A4	32-31-29	33-33-32	38-38-36	42-42-41
ARNU123M2A4	32-32-29	34-33-32	38-38-36	43-42-41
ARNU153M2A4	32-32-29	34-33-32	38-38-36	43-42-41
ARNU183M2A4	33-32-32	34-34-33	39-38-37	44-43-42
ARNU243M2A4	33-32-32	34-34-33	39-38-37	44-43-42

Sound Pressure for ARNU283M3A4 Unit

Table 20: M3 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.79
ARNU283M3A4	38-37-33	39-37-35	40-39-37	46-46-44

Sound Pressure for B8 Units

Table 21: B8 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels dB(A)		
	High Fan Speed	Medium Fan Speed	Low Fan Speed
ARNU363B8A4	46	45	42
ARNU423B8A4	47	46	43
ARNU483B8A4	47	46	44
ARNU763B8A4	50	48	48
ARNU963B8A4	52	50	50

Sound Power for ARNU073~243M2A4 Units

Table 22: Ducted High Static Indoor Unit Sound Power Levels.

Model	Sound Power Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.71
ARNU073M2A4	51-51-50	52-52-52	53-52-52	63-61-59
ARNU093M2A4	51-51-50	52-52-52	53-52-52	63-61-59
ARNU123M2A4	52-51-50	53-52-52	53-53-52	64-62-60
ARNU153M2A4	52-51-50	53-52-52	53-53-52	64-62-60
ARNU183M2A4	52-52-51	53-53-52	54-53-53	64-62-60
ARNU243M2A4	52-52-51	53-53-52	54-53-53	64-62-60

- Data is valid under diffuse field conditions.
- Data is valid under nominal operating conditions.
- Sound power level is measured using rated conditions, and tested in a reverberation room per ISO 3741 standards.
- Sound level will vary depending on a range of factors such as construction (acoustic absorption coefficient) of particular area in which the equipment is installed.
- Reference acoustic intensity: 0dB = 10E-6μW/m^2

Sound Power for ARNU283M3A4 Unit

Table 23: Ducted High Static Indoor Unit Sound Power Levels.

Model	Sound Power Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.79
ARNU283M3A4	62-61-59	63-62-61	64-62-61	70-70-69

Sound Power for B8 Units

Table 24: Ducted High Static Indoor Unit Sound Power Levels.

Model	Sound Power Levels dB(A)
	High Fan Speed
B8 Units	
ARNU363B8A4	70
ARNU423B8A4	70
ARNU483B8A4	70
ARNU763B8A4	70
ARNU963B8A4	72

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M2A4	RETURN OPENING	H	0.16	760	559	41	40	51	46	44	39	32	25
		M		720	430	40	40	50	46	44	38	32	25
		L		680	284	40	40	50	45	44	38	31	25
	CASING RADIATED	H		760	559	41	37	44	38	38	33	26	18
		M		720	430	41	36	43	38	37	32	25	17
		L		680	284	40	35	43	37	37	32	24	17
	DUCTED DISCHARGE	H		760	559	42	39	51	47	47	43	36	30
		M		720	430	42	38	50	46	46	42	35	29
		L		680	284	41	37	49	45	45	41	34	28
ARNU093M2A4	RETURN OPENING	H	0.16	760	559	41	40	51	46	44	39	32	25
		M		720	430	40	40	50	46	44	38	32	25
		L		680	284	40	40	50	45	44	38	31	25
	CASING RADIATED	H		760	559	41	37	44	38	38	33	26	18
		M		720	430	41	36	43	38	37	32	25	17
		L		680	284	40	35	43	37	37	32	24	17
	DUCTED DISCHARGE	H		760	559	42	39	51	47	47	43	36	30
		M		720	430	42	38	50	46	46	42	35	29
		L		680	284	41	37	49	45	45	41	34	28
ARNU123M2A4	RETURN OPENING	H	0.16	770	587	41	40	51	46	44	39	32	25
		M		730	463	41	40	50	46	44	38	32	25
		L		690	323	40	40	50	45	44	38	31	25
	CASING RADIATED	H		770	587	42	37	44	39	38	34	26	18
		M		730	463	41	36	44	38	38	33	25	18
		L		690	323	40	36	43	37	37	32	24	17
	DUCTED DISCHARGE	H		770	587	43	39	51	48	47	43	36	30
		M		730	463	42	38	50	47	46	42	35	29
		L		690	323	41	37	49	46	45	41	34	28
ARNU153M2A4	RETURN OPENING	H	0.16	770	587	41	40	51	46	44	39	32	25
		M		730	463	41	40	50	46	44	38	32	25
		L		690	323	40	40	50	45	44	38	31	25
	CASING RADIATED	H		770	587	42	37	44	39	38	34	26	18
		M		730	463	41	36	44	38	38	33	25	18
		L		690	323	40	36	43	37	37	32	24	17
	DUCTED DISCHARGE	H		770	587	43	39	51	48	47	43	36	30
		M		730	463	42	38	50	47	46	42	35	29
		L		690	323	41	37	49	46	45	41	34	28

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M2A4	RETURN OPENING	H	0.16	810	713	41	41	51	47	45	39	33	26
		M		770	587	41	40	51	46	44	39	32	25
		L		730	463	41	40	50	46	44	38	32	25
	CASING RADIATED	H		810	713	43	38	45	39	39	34	27	19
		M		770	587	42	37	44	39	38	34	26	18
		L		730	463	41	36	44	38	38	33	25	18
	DUCTED DISCHARGE	H		810	713	44	40	52	49	48	44	37	31
		M		770	587	43	39	51	48	47	43	36	30
		L		730	463	42	38	50	47	46	42	35	29
ARNU243M2A4	RETURN OPENING	H	0.16	810	713	41	41	51	47	45	39	33	26
		M		770	587	41	40	51	46	44	39	32	25
		L		730	463	41	40	50	46	44	38	32	25
	CASING RADIATED	H		810	713	43	38	45	39	39	34	27	19
		M		770	587	42	37	44	39	38	34	26	18
		L		730	463	41	36	44	38	38	33	25	18
	DUCTED DISCHARGE	H		810	713	44	40	52	49	48	44	37	31
		M		770	587	43	39	51	48	47	43	36	30
		L		730	463	42	38	50	47	46	42	35	29

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M2A4	RETURN OPENING	H	0.20	810	477	40	46	45	49	48	42	36	29
		M		790	399	40	46	45	49	48	42	36	29
		L		770	327	40	46	45	49	47	42	36	28
	CASING RADIATED	H		810	477	36	41	44	41	42	37	29	23
		M		790	399	36	41	44	41	41	37	29	23
		L		770	327	35	40	43	41	41	36	28	22
	CASING RADIATED	H		810	477	48	43	47	49	50	46	39	34
		M		790	399	47	43	46	49	49	45	39	33
		L		770	327	47	42	46	48	49	45	38	33
ARNU093M2A4	RETURN OPENING	H	0.20	810	477	40	46	45	49	48	42	36	29
		M		790	399	40	46	45	49	48	42	36	29
		L		770	327	40	46	45	49	47	42	36	28
	CASING RADIATED	H		810	477	36	41	44	41	42	37	29	23
		M		790	399	36	41	44	41	41	37	29	23
		L		770	327	35	40	43	41	41	36	28	22
	DUCTED DISCHARGE	H		810	477	48	43	47	49	50	46	39	34
		M		790	399	47	43	46	49	49	45	39	33
		L		770	327	47	42	46	48	49	45	38	33
ARNU123M2A4	RETURN OPENING	H	0.20	820	520	40	46	45	49	48	42	36	29
		M		800	435	40	46	45	49	48	42	36	29
		L		780	363	40	46	45	49	47	42	36	28
	CASING RADIATED	H		820	520	36	41	45	42	42	37	29	23
		M		800	435	36	41	44	41	42	37	29	23
		L		780	363	35	41	44	41	41	36	28	22
	DUCTED DISCHARGE	H		820	520	48	44	47	50	50	46	40	34
		M		800	435	48	43	47	49	50	46	39	34
		L		780	363	47	43	46	49	49	45	39	33
ARNU153M2A4	RETURN OPENING	H	0.20	820	520	40	46	45	49	48	42	36	29
		M		800	435	40	46	45	49	48	42	36	29
		L		780	363	40	46	45	49	47	42	36	28
	CASING RADIATED	H		820	520	36	41	45	42	42	37	29	23
		M		800	435	36	41	44	41	42	37	29	23
		L		780	363	35	41	44	41	41	36	28	22
	DUCTED DISCHARGE	H		820	520	48	44	47	50	50	46	40	34
		M		800	435	48	43	47	49	50	46	39	34
		L		780	363	47	43	46	49	49	45	39	33

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M2A4	RETURN OPENING	H	0.20	840	640	41	47	46	50	48	42	36	29
		M		820	520	40	46	45	49	48	42	36	29
		L		800	435	40	46	45	49	48	42	36	29
	CASING RADIATED	H		840	640	37	42	45	42	43	38	30	24
		M		820	520	36	41	45	42	42	37	29	23
		L		800	435	36	41	44	41	42	37	29	23
	DUCTED DISCHARGE	H		840	640	49	44	48	50	51	47	40	35
		M		820	520	48	44	47	50	50	46	40	34
		L		800	435	48	43	47	49	50	46	39	34
ARNU243M2A4	RETURN OPENING	H	0.20	840	640	41	47	46	50	48	42	36	29
		M		820	520	40	46	45	49	48	42	36	29
		L		800	435	40	46	45	49	48	42	36	29
	CASING RADIATED	H		840	640	37	42	45	42	43	38	30	24
		M		820	520	36	41	45	42	42	37	29	23
		L		800	435	36	41	44	41	42	37	29	23
	DUCTED DISCHARGE	H		840	640	49	44	48	50	51	47	40	35
		M		820	520	48	44	47	50	50	46	40	34
		L		800	435	48	43	47	49	50	46	39	34

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M2A4	RETURN OPENING	H	0.24	830	468	42	45	45	49	49	43	37	31
		M		810	381	42	45	45	49	49	42	37	31
		L		790	294	41	44	45	48	48	42	37	30
	CASING RADIATED	H		830	468	37	39	44	43	44	39	32	24
		M		810	381	36	38	43	42	43	39	32	24
		L		790	294	36	38	43	42	43	38	31	23
	DUCTED DISCHARGE	H		830	468	50	44	45	49	50	47	40	36
		M		810	381	49	44	45	49	50	46	40	36
		L		790	294	49	43	44	48	50	46	39	35
ARNU093M2A4	RETURN OPENING	H	0.24	830	468	42	45	45	49	49	43	37	31
		M		810	381	42	45	45	49	49	42	37	31
		L		790	294	41	44	45	48	48	42	37	30
	CASING RADIATED	H		830	468	37	39	44	43	44	39	32	24
		M		810	381	36	38	43	42	43	39	32	24
		L		790	294	36	38	43	42	43	38	31	23
	DUCTED DISCHARGE	H		830	468	50	44	45	49	50	47	40	36
		M		810	381	49	44	45	49	50	46	40	36
		L		790	294	49	43	44	48	50	46	39	35
ARNU123M2A4	RETURN OPENING	H	0.24	840	512	42	45	45	49	49	43	37	31
		M		820	425	42	45	45	49	49	43	37	31
		L		800	337	42	45	45	49	49	42	37	30
	CASING RADIATED	H		840	512	37	39	44	43	44	39	32	24
		M		820	425	37	39	44	43	43	39	32	24
		L		800	337	36	38	43	42	43	38	31	23
	DUCTED DISCHARGE	H		840	512	50	45	45	50	51	47	41	37
		M		820	425	50	44	45	49	50	46	40	36
		L		800	337	49	44	44	49	50	46	40	36
ARNU153M2A4	RETURN OPENING	H	0.24	840	512	42	45	45	49	49	43	37	31
		M		820	425	42	45	45	49	49	43	37	31
		L		800	337	42	45	45	49	49	42	37	30
	CASING RADIATED	H		840	512	37	39	44	43	44	39	32	24
		M		820	425	37	39	44	43	43	39	32	24
		L		800	337	36	38	43	42	43	38	31	23
	DUCTED DISCHARGE	H		840	512	50	45	45	50	51	47	41	37
		M		820	425	50	44	45	49	50	46	40	36
		L		800	337	49	44	44	49	50	46	40	36

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M2A4	RETURN OPENING	H	0.24	890	673	43	46	46	50	50	44	38	32
		M		840	512	42	45	45	49	49	43	37	31
		L		820	425	42	45	45	49	49	43	37	31
	CASING RADIATED	H		890	673	38	40	45	44	45	41	34	26
		M		840	512	37	39	44	43	44	39	32	24
		L		820	425	37	39	44	43	43	39	32	24
	DUCTED DISCHARGE	H		890	673	51	46	47	51	52	48	42	38
		M		840	512	50	45	45	50	51	47	41	37
		L		820	425	50	44	45	49	50	46	40	36
ARNU243M2A4	RETURN OPENING	H	0.24	890	673	43	46	46	50	50	44	38	32
		M		840	512	42	45	45	49	49	43	37	31
		L		820	425	42	45	45	49	49	43	37	31
	CASING RADIATED	H		890	673	38	40	45	44	45	41	34	26
		M		840	512	37	39	44	43	44	39	32	24
		L		820	425	37	39	44	43	43	39	32	24
	DUCTED DISCHARGE	H		890	673	51	46	47	51	52	48	42	38
		M		840	512	50	45	45	50	51	47	41	37
		L		820	425	50	44	45	49	50	46	40	36

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M2A4	RETURN OPENING	H	0.71	1320	440	44	51	55	55	57	50	44	37
		M		1280	306	48	53	52	54	55	48	42	34
		L		1240	211	48	52	51	53	52	46	39	32
	CASING RADIATED	H		1320	440	41	48	49	54	55	48	40	31
		M		1280	306	47	49	49	50	52	48	41	33
		L		1240	211	43	48	48	49	50	46	39	31
	DUCTED DISCHARGE	H		1320	440	61	57	55	58	59	59	51	43
		M		1280	306	54	52	53	58	59	58	51	42
		L		1240	211	52	50	52	56	57	57	50	42
ARNU093M2A4	RETURN OPENING	H	0.71	1320	440	44	51	55	55	57	50	44	37
		M		1280	306	48	53	52	54	55	48	42	34
		L		1240	211	48	52	51	53	52	46	39	32
	CASING RADIATED	H		1320	440	41	48	49	54	55	48	40	31
		M		1280	306	47	49	49	50	52	48	41	33
		L		1240	211	43	48	48	49	50	46	39	31
	DUCTED DISCHARGE	H		1320	440	61	57	55	58	59	59	51	43
		M		1280	306	54	52	53	58	59	58	51	42
		L		1240	211	52	50	52	56	57	57	50	42
ARNU123M2A4	RETURN OPENING	H	0.71	1340	528	45	52	56	56	58	51	45	38
		M		1300	353	42	49	52	53	55	48	41	35
		L		1260	258	47	52	52	53	54	47	41	34
	CASING RADIATED	H		1340	528	42	49	50	55	57	49	41	32
		M		1300	353	40	46	48	53	54	46	39	30
		L		1260	258	46	48	48	49	51	47	41	32
	DUCTED DISCHARGE	H		1340	528	61	58	56	59	60	59	52	43
		M		1300	353	59	55	53	56	58	57	49	41
		L		1260	258	53	51	53	57	59	57	50	41
ARNU153M2A4	RETURN OPENING	H	0.71	1340	528	45	52	56	56	58	51	45	38
		M		1300	353	42	49	52	53	55	48	41	35
		L		1260	258	47	52	52	53	54	47	41	34
	CASING RADIATED	H		1340	528	42	49	50	55	57	49	41	32
		M		1300	353	40	46	48	53	54	46	39	30
		L		1260	258	46	48	48	49	51	47	41	32
	DUCTED DISCHARGE	H		1340	528	61	58	56	59	60	59	52	43
		M		1300	353	59	55	53	56	58	57	49	41
		L		1260	258	53	51	53	57	59	57	50	41

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU073~243M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M2A4	RETURN OPENING	H	0.71	1360	616	46	53	57	57	59	52	46	39
		M		1340	528	45	52	56	56	58	51	45	38
		L		1300	353	42	49	52	53	55	48	41	35
	CASING RADIATED	H		1360	616	44	50	52	56	58	50	43	33
		M		1340	528	42	49	50	55	57	49	41	32
		L		1300	353	40	46	48	53	54	46	39	30
	DUCTED DISCHARGE	H		1360	616	62	59	57	60	61	60	53	44
		M		1340	528	61	58	56	59	60	59	52	43
		L		1300	353	59	55	53	56	58	57	49	41
ARNU243M2A4	RETURN OPENING	H	0.71	1360	616	46	53	57	57	59	52	46	39
		M		1340	528	45	52	56	56	58	51	45	38
		L		1300	353	42	49	52	53	55	48	41	35
	CASING RADIATED	H		1360	616	44	50	52	56	58	50	43	33
		M		1340	528	42	49	50	55	57	49	41	32
		L		1300	353	40	46	48	53	54	46	39	30
	DUCTED DISCHARGE	H		1360	616	62	59	57	60	61	60	53	44
		M		1340	528	61	58	56	59	60	59	52	43
		L		1300	353	59	55	53	56	58	57	49	41

DUCTED HIGH STATIC

Acoustic Data

Sound Power Data for ARNU283M3A4 Unit

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M3A4	RETURN OPENING	H	0.16	790	1203	35	43	44	48	48	41	36	27
		M		740	1037	39	41	42	47	46	38	32	19
		L		680	817	37	39	40	45	44	36	30	17
	CASING RADIATED	H		790	1203	29	37	42	43	41	37	32	23
		M		740	1037	42	36	39	41	37	34	29	22
		L		680	817	41	35	38	40	36	33	28	21
	DUCTED DISCHARGE	H		790	1203	36	42	46	52	52	46	43	34
		M		740	1037	35	39	45	50	49	43	39	28
		L		680	817	32	37	43	48	46	41	36	25

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M3A4	RETURN OPENING	H	0.20	830	1235	36	44	46	50	50	43	39	32
		M		790	1060	35	42	44	48	48	42	37	30
		L		750	915	33	41	43	47	47	40	36	29
	CASING RADIATED	H		830	1235	34	40	42	45	43	39	34	34
		M		790	1060	33	39	41	44	41	38	34	26
		L		750	915	32	38	40	43	40	37	33	25
	DUCTED DISCHARGE	H		830	1235	45	41	49	53	53	48	46	41
		M		790	1060	43	40	47	51	51	46	44	40
		L		750	915	42	38	45	49	49	45	43	38

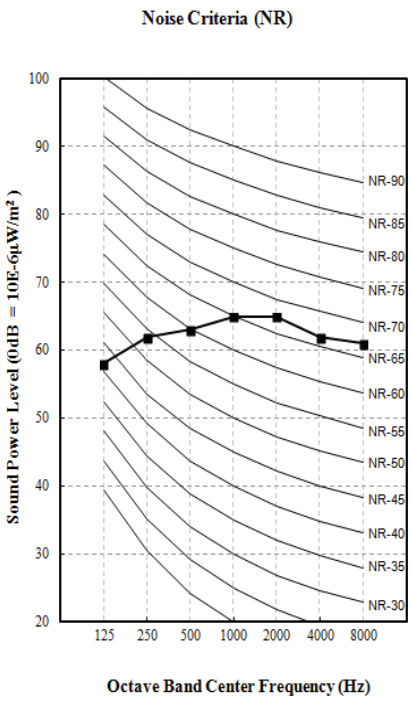
Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M3A4	RETURN OPENING	H	0.24	850	1250	36	45	47	50	51	44	40	33
		M		810	1017	38	43	45	49	49	42	37	29
		L		770	837	37	42	43	48	47	41	36	28
	CASING RADIATED	H		850	1250	32	41	44	45	43	40	35	26
		M		810	1017	35	38	42	45	41	38	32	23
		L		770	837	34	36	41	43	40	37	31	22
	DUCTED DISCHARGE	H		850	1250	42	43	49	54	54	49	46	40
		M		810	1017	38	41	48	52	52	47	44	37
		L		770	837	37	40	46	50	51	45	42	35

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M3A4	RETURN OPENING	H	0.79	1240	1108	48	53	52	55	58	50	46	39
		M		1200	868	48	53	52	55	58	49	46	39
		L		1180	779	47	52	52	55	57	49	45	39
	CASING RADIATED	H		1240	1108	46	51	49	51	51	49	44	37
		M		1200	868	46	50	48	50	51	48	44	36
		L		1180	779	45	50	48	50	50	48	43	36
	DUCTED DISCHARGE	H		1240	1108	65	60	55	59	61	59	54	47
		M		1200	868	65	60	55	59	61	59	54	47
		L		1180	779	64	60	54	58	60	58	53	46

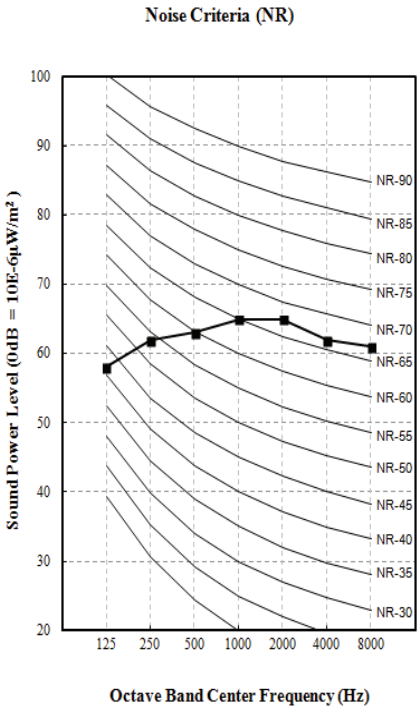
Sound Power Levels for B8 Units

Figure 19: ARNU363~763B8A4 and ARNU963B8A4 Sound Power Level Diagrams.

ARNU363B8A4, ARNU423B8A4, ARNU483B8A4, ARNU763B8A4



ARNU963B8A4



DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU073M2A4

Table 25: ARNU073M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU073M2A4/ 7.5	-9.9	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	-5	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	0	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	5	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	10	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	14	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	20	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	23	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	25	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	30	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	35	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	40	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	45	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	50	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	55	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.7	6.4
	60	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.6	6.3
	65	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.4	6.2
	70	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.3	6.1
	75	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.9	6.4	9.1	6.0
	80	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.4	6.4	8.7	6.3	8.8	6.0
	85	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.3	6.4	8.4	6.1	8.6	5.7
	90	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	8.2	6.3	8.3	6.0	8.4	5.7
	95	4.9	4.6	6	5.3	6.8	5.6	**7.5**	**6.0**	8	6.2	8.2	5.9	8.3	5.6
	100	4.9	4.6	6	5.3	6.8	5.6	7.5	6.0	7.9	6.1	8	5.9	8.2	5.6
	105	4.9	4.6	5.7	5.0	6.4	5.4	7.2	5.7	7.5	5.7	7.7	5.7	7.9	5.4
	110	4.8	4.4	5.4	4.8	6	5.0	6.8	5.4	7.1	5.4	7.3	5.4	7.7	5.3
	115	4.7	4.3	5.1	4.5	5.6	4.7	6.3	5.1	6.6	5.1	7	5.1	7.4	5.0
	118	4.6	4.2	4.9	4.3	5.4	4.4	6.1	4.9	6.3	4.9	6.7	4.9	7.1	4.8
	122	4.5	4.1	4.6	4.1	5.1	4.2	5.8	4.6	6	4.6	6.3	4.6	6.8	4.6

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 26: ARNU093M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU093M2A4/ 9.5	-9.9	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	-5	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	0	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	5	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	10	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	14	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	20	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	23	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	25	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	30	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	35	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	40	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	45	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	50	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	55	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	60	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.3	8.0
	65	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.1	7.9
	70	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	11.9	7.8
	75	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	11.6	7.6
	80	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.1	8.0	11.3	7.5
	85	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.6	8.1	10.8	7.7	11	7.2
	90	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.5	7.9	10.6	7.5	10.8	7.2
	95	6.3	5.8	7.7	6.7	8.6	7.1	**9.6**	**7.6**	10.3	7.9	10.5	7.5	10.6	7.1
	100	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.1	7.8	10.3	7.4	10.5	7.0
	105	6.3	5.8	7.3	6.3	8.2	6.8	9.2	7.2	9.6	7.2	9.9	7.2	10.2	6.9
	110	6.2	5.6	6.9	6.0	7.7	6.3	8.6	6.8	9	6.8	9.4	6.8	9.8	6.6
	115	6	5.5	6.6	5.7	7.2	6.0	8.1	6.5	8.5	6.5	8.9	6.5	9.4	6.4
	118	5.9	5.3	6.2	5.4	6.9	5.6	7.8	6.2	8.1	6.2	8.5	6.2	9	6.1
	122	5.7	5.1	5.9	5.1	6.5	5.3	7.4	5.8	7.7	5.8	8.1	5.8	8.7	5.8

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU123M2A4

Table 27: ARNU123M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU123M2A4/ 12.3	-9.9	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	-5	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	0	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	5	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	10	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	14	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	20	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	23	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	25	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	30	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	35	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	40	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	45	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	50	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	55	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	60	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.7	10.1
	65	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.5	10.0
	70	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	15.3	9.8
	75	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.7	10.2	14.9	9.6
	80	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.8	10.3	14.2	10.1	14.5	9.5
	85	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.6	10.2	13.8	9.7	14	9.2
	90	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	13.4	10.0	13.5	9.5	13.8	9.1
	95	8.1	7.3	9.8	8.5	11.1	9.0	**12.3**	**9.6**	13.2	10.0	13.4	9.5	13.6	8.9
	100	8.1	7.3	9.8	8.5	11.1	9.0	12.3	9.6	12.9	9.8	13.2	9.4	13.4	8.9
	105	8.1	7.3	9.3	8.0	10.6	8.6	11.8	9.2	12.3	9.2	12.7	9.1	13	8.7
	110	7.9	7.1	8.9	7.6	9.8	8.0	11.1	8.6	11.6	8.6	12	8.6	12.6	8.4
	115	7.7	6.9	8.4	7.2	9.2	7.6	10.4	8.2	10.9	8.2	11.4	8.2	12.1	8.1
	118	7.5	6.7	8	6.9	8.8	7.1	10	7.8	10.4	7.8	10.9	7.8	11.6	7.7
	122	7.3	6.5	7.6	6.5	8.3	6.7	9.4	7.4	9.8	7.4	10.3	7.4	11.1	7.4

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU153M2A4

Table 28: ARNU153M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU153M2A4/ 15.4	-9.9	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	-5	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	0	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	5	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	10	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	14	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	20	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	23	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	25	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	30	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	35	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	40	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	45	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	50	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	55	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.9	12.9
	60	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.7	12.8
	65	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.4	12.6
	70	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	19.1	12.4
	75	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	18.4	12.9	18.6	12.2
	80	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.3	13.1	17.8	12.8	18.2	12.1
	85	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	17.1	12.9	17.3	12.3	17.6	11.6
	90	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	16.8	12.7	16.9	12.1	17.3	11.5
	95	10.1	9.3	12.3	10.7	13.9	11.4	**15.4**	**12.2**	16.5	12.6	16.8	12.0	17.1	11.3
	100	10.1	9.3	12.3	10.7	13.9	11.4	15.4	12.2	16.2	12.4	16.5	11.9	16.8	11.3
	105	10.1	9.3	11.7	10.2	13.2	10.9	14.8	11.6	15.4	11.6	15.8	11.5	16.3	11.0
	110	9.9	9.0	11.1	9.6	12.3	10.2	13.9	10.9	14.5	10.9	15.1	10.9	15.7	10.7
	115	9.6	8.8	10.5	9.1	11.6	9.6	13	10.4	13.6	10.4	14.3	10.4	15.1	10.2
	118	9.4	8.5	10	8.7	11	9.0	12.5	9.9	13	9.9	13.7	9.9	14.5	9.8
	122	9.1	8.2	9.5	8.2	10.4	8.5	11.8	9.4	12.3	9.4	12.9	9.4	13.9	9.4

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU183M2A4

Table 29: ARNU183M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU183M2A4/ 19.1	-9.9	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	-5	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	0	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	5	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	10	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	14	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	20	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	23	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	25	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	30	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	35	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	40	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	45	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	50	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	55	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.7	15.8
	60	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24.4	15.7
	65	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	24	15.5
	70	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	23.7	15.2
	75	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.8	15.8	23.1	14.9
	80	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.4	16.0	22.1	15.7	22.5	14.8
	85	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	21.2	15.8	21.4	15.1	21.8	14.2
	90	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	20.9	15.6	21	14.8	21.4	14.1
	95	12.6	11.4	15.3	13.1	17.2	14.0	**19.1**	**14.9**	20.5	15.5	20.9	14.7	21.2	13.9
	100	12.6	11.4	15.3	13.1	17.2	14.0	19.1	14.9	20.1	15.2	20.5	14.6	20.9	13.8
	105	12.6	11.4	14.5	12.5	16.4	13.4	18.3	14.2	19	14.2	19.7	14.1	20.2	13.5
	110	12.3	11.0	13.8	11.8	15.3	12.5	17.2	13.4	18	13.4	18.7	13.4	19.5	13.1
	115	12	10.7	13.1	11.2	14.4	11.7	16.2	12.7	16.9	12.7	17.8	12.7	18.7	12.5
	118	11.7	10.4	12.4	10.6	13.6	11.0	15.5	12.1	16.1	12.1	17	12.1	18	12.0
	122	11.3	10.1	11.8	10.1	12.9	10.4	14.7	11.5	15.3	11.5	16	11.5	17.2	11.5

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU243M2A4

Table 30: ARNU243M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU243M2A4/ 24.2	-9.9	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	-5	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	0	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	5	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	10	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	14	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	20	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	23	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	25	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	30	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	35	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	40	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	45	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	50	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	55	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31.3	20.0
	60	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	31	19.9
	65	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	30.5	19.6
	70	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	30	19.3
	75	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28.8	20.0	29.2	18.9
	80	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	27.1	20.3	28	19.9	28.5	18.8
	85	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	26.8	20.0	27.1	19.1	27.6	18.0
	90	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	26.4	19.7	26.6	18.8	27.1	17.8
	95	15.9	14.4	19.4	16.6	21.8	17.7	**24.2**	**18.9**	25.9	19.6	26.4	18.7	26.8	17.6
	100	15.9	14.4	19.4	16.6	21.8	17.7	24.2	18.9	25.4	19.3	25.9	18.5	26.4	17.5
	105	15.9	14.4	18.4	15.8	20.8	17.0	23.2	18.0	24.1	18.0	24.9	17.8	25.6	17.1
	110	15.5	14.0	17.4	15.0	19.4	15.8	21.8	17.0	22.8	17.0	23.7	17.0	24.7	16.5
	115	15.1	13.6	16.6	14.2	18.2	14.9	20.5	16.1	21.4	16.1	22.5	16.1	23.7	15.9
	118	14.8	13.2	15.7	13.5	17.3	14.0	19.7	15.3	20.4	15.3	21.5	15.3	22.8	15.2
	122	14.4	12.8	15	12.8	16.3	13.1	18.6	14.5	19.4	14.5	20.3	14.5	21.9	14.5

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU283M3A4

Table 31: ARNU283M3A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU283M3A4/ 28.0	-9.9	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	-5	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	0	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	5	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	10	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	14	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	20	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	23	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	25	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	30	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	35	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	40	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	45	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	50	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	55	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	36.2	23.8
	60	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	35.8	23.7
	65	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	35.2	23.3
	70	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	34.8	22.9
	75	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	33.4	23.8	33.8	22.4
	80	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31.4	24.0	32.4	23.7	33	22.3
	85	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	31	23.8	31.4	22.7	32	21.4
	90	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	30.6	23.4	30.8	22.3	31.4	21.1
	95	18.4	17.1	22.4	19.8	25.2	21.0	**28**	**22.4**	30	23.3	30.6	22.1	31	20.9
	100	18.4	17.1	22.4	19.8	25.2	21.0	28	22.4	29.4	22.9	30	21.9	30.6	20.8
	105	18.4	17.1	21.2	18.8	24	20.1	26.8	21.4	27.9	21.4	28.8	21.1	29.6	20.3
	110	18	16.6	20.2	17.7	22.4	18.8	25.2	20.1	26.4	20.1	27.4	20.1	28.6	19.6
	115	17.5	16.1	19.2	16.8	21.1	17.6	23.7	19.1	24.8	19.1	26	19.1	27.4	18.8
	118	17.1	15.6	18.2	16.0	20	16.6	22.7	18.2	23.7	18.2	24.9	18.2	26.3	18.1
	122	16.6	15.1	17.3	15.2	18.9	15.6	21.5	17.2	22.4	17.2	23.5	17.2	25.3	17.2

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU363B8A4

Table 32: ARNU363B8A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU363B8A4/ 36.2	-9.9	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	-5	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	0	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	5	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	10	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	14	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	20	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	23	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	25	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	30	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	35	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	40	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	45	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	50	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	55	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.8	27.7
	60	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	46.3	27.6
	65	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	45.6	27.1
	70	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	44.9	26.7
	75	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	43.1	27.7	43.7	26.1
	80	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.6	28.0	41.9	27.6	42.7	26.0
	85	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	40.1	27.7	40.6	26.4	41.3	24.9
	90	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	39.5	27.3	39.8	26.0	40.6	24.6
	95	23.8	20.0	29.0	23.0	32.6	24.5	**36.2**	**26.1**	38.8	27.1	39.5	25.8	40.1	24.4
	100	23.8	20.0	29.0	23.0	32.6	24.5	36.2	26.1	38.0	26.7	38.8	25.5	39.5	24.2
	105	23.8	20.0	27.5	21.9	31.1	23.5	34.7	24.9	36.1	24.9	37.3	24.6	38.3	23.6
	110	23.2	19.4	26.1	20.7	29.0	21.9	32.6	23.5	34.1	23.5	35.4	23.5	37.0	22.9
	115	22.7	18.8	24.8	19.6	27.2	20.6	30.6	22.3	32.0	22.3	33.7	22.3	35.5	22.0
	118	22.1	18.2	23.5	18.6	25.8	19.3	29.4	21.2	30.6	21.2	32.1	21.2	34.1	21.1
	122	21.5	17.7	22.4	17.7	24.4	18.2	27.8	20.1	29.0	20.1	30.4	20.1	32.7	20.1

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU423B8A4

Table 33: ARNU423B8A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU423B8A4/ 42.0	-9.9	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	-5	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	0	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	5	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	10	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	14	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	20	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	23	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	25	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	30	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	35	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	40	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	45	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	50	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	55	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	54.3	32.2
	60	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	53.7	32.0
	65	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	52.9	31.5
	70	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	52.2	31.0
	75	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	50.1	32.2	50.8	30.3
	80	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	47.1	32.5	48.7	32.0	49.5	30.1
	85	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	46.6	32.2	47.1	30.6	48.0	28.9
	90	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	45.9	31.7	46.2	30.1	47.1	28.6
	95	27.7	23.2	33.6	26.7	37.8	28.4	**42.0**	**30.3**	45.0	31.5	45.9	30.0	46.6	28.3
	100	27.7	23.2	33.6	26.7	37.8	28.4	42.0	30.3	44.1	31.0	45.0	29.6	45.9	28.1
	105	27.7	23.2	31.9	25.4	36.1	27.2	40.3	28.9	41.9	28.9	43.2	28.6	44.5	27.4
	110	27.0	22.5	30.3	24.0	33.6	25.4	37.8	27.2	39.6	27.2	41.1	27.2	42.9	26.6
	115	26.3	21.8	28.8	22.8	31.6	23.8	35.5	25.9	37.2	25.9	39.1	25.9	41.2	25.5
	118	25.6	21.1	27.3	21.6	30.0	22.4	34.1	24.6	35.5	24.6	37.3	24.6	39.5	24.5
	122	24.9	20.5	26.0	20.5	28.4	21.1	32.3	23.3	33.6	23.3	35.3	23.3	37.9	23.3

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC
Cooling Capacity Tables
ARNU483B8A4

Table 34: ARNU483B8A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU483B8A4/ 48.1	-9.9	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	-5	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	0	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	5	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	10	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	14	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	20	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	23	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	25	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	30	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	35	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	40	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	45	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	50	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	55	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	62.1	36.8
	60	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	61.5	36.6
	65	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	60.5	36.1
	70	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	59.7	35.5
	75	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	57.3	36.8	58.1	34.7
	80	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.9	37.2	55.7	36.6	56.7	34.5
	85	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	53.3	36.8	53.9	35.1	54.9	33.1
	90	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	52.5	36.3	52.9	34.5	53.9	32.8
	95	31.7	26.5	38.5	30.6	43.3	32.6	**48.1**	**34.7**	51.5	36.1	52.5	34.3	53.3	32.4
	100	31.7	26.5	38.5	30.6	43.3	32.6	48.1	34.7	50.5	35.5	51.5	33.9	52.5	32.2
	105	31.7	26.5	36.5	29.0	41.3	31.2	46.1	33.1	48.0	33.1	49.5	32.8	50.9	31.4
	110	30.9	25.7	34.7	27.5	38.5	29.0	43.3	31.2	45.3	31.2	47.1	31.2	49.1	30.4
	115	30.1	25.0	32.9	26.1	36.2	27.3	40.7	29.6	42.6	29.6	44.7	29.6	47.1	29.2
	118	29.3	24.2	31.3	24.8	34.3	25.7	39.1	28.1	40.6	28.1	42.7	28.1	45.3	28.0
	122	28.6	23.5	29.7	23.5	32.5	24.2	36.9	26.7	38.5	26.7	40.4	26.7	43.4	26.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Cooling Capacity Tables

ARNU763B8A4

Table 35: ARNU763B8A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU763B8A4/ 76.4	-9.9	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	-5	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	0	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	5	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	10	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	14	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	20	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	23	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	25	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	30	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	35	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	40	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	45	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	50	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	55	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	98.7	56.8
	60	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	97.7	56.5
	65	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	96.1	55.6
	70	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	94.9	54.7
	75	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	91.0	56.8	92.3	53.5
	80	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	85.6	57.4	88.5	56.5	90.1	53.2
	85	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	84.7	56.8	85.6	54.1	87.2	51.1
	90	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	83.4	55.9	84.0	53.2	85.6	50.5
	95	50.3	40.9	61.1	47.2	68.8	50.2	**76.4**	**53.5**	81.8	55.6	83.4	52.9	84.7	49.9
	100	50.3	40.9	61.1	47.2	68.8	50.2	76.4	53.5	80.2	54.7	81.8	52.3	83.4	49.6
	105	50.3	40.9	57.9	44.8	65.6	48.1	73.2	51.1	76.2	51.1	78.6	50.5	80.9	48.4
	110	49.0	39.7	55.1	42.4	61.1	44.8	68.8	48.1	72.0	48.1	74.8	48.1	78.0	46.9
	115	47.8	38.5	52.3	40.2	57.5	42.1	64.6	45.7	67.6	45.7	71.1	45.7	74.9	45.0
	118	46.6	37.3	49.7	38.2	54.5	39.6	62.0	43.4	64.6	43.4	67.8	43.4	71.9	43.2
	122	45.4	36.2	47.2	36.3	51.6	37.2	58.7	41.2	61.1	41.2	64.2	41.2	69.0	41.2

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC
Cooling Capacity Tables
ARNU963B8A4

Table 36: ARNU963B8A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU963B8A4/ 95.9	-9.9	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	-5	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	0	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	5	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	10	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	14	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	20	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	23	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	25	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	30	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	35	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	40	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	45	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	50	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	55	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	123.9	71.3
	60	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	122.7	70.9
	65	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	120.7	69.8
	70	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	119.1	68.6
	75	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	114.3	71.3	115.9	67.1
	80	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	107.5	72.0	111.1	70.9	113.1	66.8
	85	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	106.3	71.3	107.5	67.9	109.5	64.1
	90	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	104.7	70.1	105.5	66.8	107.5	63.4
	95	63.1	51.3	76.7	59.2	86.3	63.0	**95.9**	**67.1**	102.7	69.8	104.7	66.4	106.3	62.6
	100	63.1	51.3	76.7	59.2	86.3	63.0	95.9	67.1	100.7	68.6	102.7	65.6	104.7	62.2
	105	63.1	51.3	72.7	56.2	82.3	60.3	91.9	64.1	95.6	64.1	98.7	63.4	101.5	60.7
	110	61.5	49.8	69.1	53.2	76.7	56.2	86.3	60.3	90.3	60.3	93.9	60.3	97.9	58.8
	115	60.0	48.3	65.7	50.5	72.1	52.8	81.1	57.3	84.9	57.3	89.2	57.3	94.0	56.5
	118	58.5	46.9	62.3	47.9	68.5	49.7	77.9	54.4	81.0	54.4	85.2	54.4	90.2	54.2
	122	57.0	45.4	59.3	45.5	64.7	46.7	73.7	51.7	76.7	51.7	80.6	51.7	86.6	51.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU073M2A4

Table 37: ARNU073M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU073M2A4/ 7.5	-21.6	-22.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	-17.1	-17.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	-12.6	-13	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3
	-7	-7.6	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4
	-4	-4.4	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6
	0	-0.4	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8
	5	4.5	6.6	6.6	6.5	6.5	6.5	6.5	6.5	6.5
	10	9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8
	15	14	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.1
	20	19	7.7	7.7	7.7	7.7	7.6	7.6	7.4	7.4
	25	23	8.1	8.1	8.1	8.1	8.1	7.9	7.8	7.4
	30	28	8.3	8.3	8.3	8.3	8.3	8.1	7.8	7.4
	35	32	8.5	8.5	8.5	8.5	8.4	8.3	7.8	7.4
	40	36	8.8	8.8	8.8	8.8	8.5	8.3	7.8	7.4
	45	41	9.2	9.2	9.2	8.9	8.5	8.3	7.8	7.4
	47	43	9.5	9.4	9.4	8.9	**8.5**	8.3	7.8	7.4
	50	46	10.2	9.8	9.4	8.9	8.5	8.3	7.8	7.4
	55	51	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4
	60	56	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU093M2A4

Table 38: ARNU093M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU093M2A4/ 9.6	-21.6	-22.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	-17.1	-17.5	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1
	-12.6	-13	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-7	-7.6	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0
	-4	-4.4	7.3	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	0	-0.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4
	5	4.5	8.5	8.4	8.3	8.3	8.3	8.3	8.3	8.3
	10	9	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.7
	15	14	9.4	9.4	9.4	9.4	9.4	9.4	9.3	9.2
	20	19	9.9	9.9	9.9	9.9	9.7	9.7	9.5	9.4
	25	23	10.4	10.4	10.4	10.4	10.4	10.1	10.0	9.5
	30	28	10.6	10.6	10.6	10.6	10.6	10.4	10.0	9.5
	35	32	10.9	10.9	10.9	10.9	10.8	10.6	10.0	9.5
	40	36	11.3	11.3	11.3	11.3	10.9	10.6	10.0	9.5
	45	41	11.8	11.8	11.8	11.5	10.9	10.6	10.0	9.5
	47	43	12.2	12.1	12.0	11.5	**10.9**	10.6	10.0	9.5
	50	46	13.1	12.5	12.0	11.5	10.9	10.6	10.0	9.5
	55	51	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5
	60	56	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU123M2A4

Table 39: ARNU123M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU123M2A4/ 12.3	-21.6	-22.0	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-17.1	-17.5	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.6
	-12.6	-13	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5
	-7	-7.6	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.7
	-4	-4.4	9.1	9.1	9.1	9.1	9.0	9.0	9.0	9.0
	0	-0.4	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.3
	5	4.5	10.6	10.5	10.3	10.3	10.3	10.3	10.3	10.3
	10	9	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9
	15	14	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.4
	20	19	12.4	12.4	12.4	12.4	12.1	12.1	11.9	11.8
	25	23	12.9	12.9	12.9	12.9	12.9	12.7	12.5	11.9
	30	28	13.2	13.2	13.2	13.2	13.2	12.9	12.5	11.9
	35	32	13.6	13.6	13.6	13.6	13.5	13.2	12.5	11.9
	40	36	14.1	14.1	14.1	14.1	13.6	13.2	12.5	11.9
	45	41	14.7	14.7	14.7	14.3	13.6	13.2	12.5	11.9
	47	43	15.2	15.1	15.0	14.3	**13.6**	13.2	12.5	11.9
	50	46	16.3	15.6	15.0	14.3	13.6	13.2	12.5	11.9
	55	51	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9
	60	56	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 40: ARNU153M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU153M2A4/ 15.4	-21.6	-22.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6
	-17.1	-17.5	9.7	9.7	9.7	9.7	9.6	9.6	9.6	9.6
	-12.6	-13	10.8	10.8	10.8	10.8	10.6	10.6	10.6	10.6
	-7	-7.6	11.1	11.1	11.1	11.1	10.9	10.9	10.9	10.9
	-4	-4.4	11.5	11.5	11.5	11.5	11.3	11.3	11.3	11.3
	0	-0.4	11.8	11.8	11.8	11.8	11.8	11.6	11.6	11.6
	5	4.5	13.3	13.2	13.0	13.0	13.0	13.0	13.0	13.0
	10	9	13.9	13.9	13.9	13.7	13.7	13.7	13.7	13.7
	15	14	14.7	14.7	14.7	14.7	14.7	14.7	14.5	14.4
	20	19	15.6	15.6	15.6	15.6	15.2	15.2	15.0	14.8
	25	23	16.3	16.3	16.3	16.3	16.3	15.9	15.7	15.0
	30	28	16.6	16.6	16.6	16.6	16.6	16.3	15.7	15.0
	35	32	17.1	17.1	17.1	17.1	16.9	16.6	15.7	15.0
	40	36	17.8	17.8	17.8	17.8	17.1	16.6	15.7	15.0
	45	41	18.5	18.5	18.5	18.0	17.1	16.6	15.7	15.0
	47	43	19.2	19.0	18.8	18.0	**17.1**	16.6	15.7	15.0
	50	46	20.5	19.7	18.8	18.0	17.1	16.6	15.7	15.0
	55	51	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0
	60	56	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC
Heating Capacity Tables
ARNU183M2A4

Table 41: ARNU183M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU183M2A4/ 19.1	-21.6	-22.0	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8
	-17.1	-17.5	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.1
	-12.6	-13	13.6	13.6	13.6	13.6	13.4	13.4	13.4	13.4
	-7	-7.6	14.0	14.0	14.0	14.0	13.8	13.8	13.8	13.8
	-4	-4.4	14.4	14.4	14.4	14.4	14.2	14.2	14.2	14.2
	0	-0.4	14.8	14.8	14.8	14.8	14.8	14.6	14.6	14.6
	5	4.5	16.8	16.6	16.3	16.3	16.3	16.3	16.3	16.3
	10	9	17.4	17.4	17.4	17.2	17.2	17.2	17.2	17.2
	15	14	18.5	18.5	18.5	18.5	18.5	18.5	18.3	18.1
	20	19	19.6	19.6	19.6	19.6	19.1	19.1	18.8	18.6
	25	23	20.4	20.4	20.4	20.4	20.4	20.0	19.8	18.8
	30	28	20.9	20.9	20.9	20.9	20.9	20.4	19.8	18.8
	35	32	21.5	21.5	21.5	21.5	21.3	20.9	19.8	18.8
	40	36	22.4	22.4	22.4	22.4	21.5	20.9	19.8	18.8
	45	41	23.2	23.2	23.2	22.6	21.5	20.9	19.8	18.8
	47	43	24.1	23.9	23.7	22.6	**21.5**	20.9	19.8	18.8
	50	46	25.8	24.7	23.7	22.6	21.5	20.9	19.8	18.8
	55	51	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8
	60	56	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC
Heating Capacity Tables
ARNU243M2A4

Table 42: ARNU243M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU243M2A4/ 24.2	-21.6	-22.0	13.9	13.9	13.9	13.9	13.7	13.7	13.7	13.7
	-17.1	-17.5	15.5	15.5	15.5	15.5	15.3	15.3	15.3	15.3
	-12.6	-13	17.2	17.2	17.2	17.2	17.0	17.0	17.0	17.0
	-7	-7.6	17.8	17.8	17.8	17.8	17.5	17.5	17.5	17.5
	-4	-4.4	18.3	18.3	18.3	18.3	18.0	18.0	18.0	18.0
	0	-0.4	18.8	18.8	18.8	18.8	18.8	18.6	18.6	18.6
	5	4.5	21.3	21.0	20.8	20.8	20.8	20.8	20.8	20.8
	10	9	22.1	22.1	22.1	21.8	21.8	21.8	21.8	21.8
	15	14	23.5	23.5	23.5	23.5	23.5	23.5	23.2	22.9
	20	19	24.8	24.8	24.8	24.8	24.3	24.3	23.9	23.6
	25	23	25.9	25.9	25.9	25.9	25.9	25.4	25.1	23.9
	30	28	26.5	26.5	26.5	26.5	26.5	25.9	25.1	23.9
	35	32	27.3	27.3	27.3	27.3	27.0	26.5	25.1	23.9
	40	36	28.4	28.4	28.4	28.4	27.3	26.5	25.1	23.9
	45	41	29.5	29.5	29.5	28.7	27.3	26.5	25.1	23.9
	47	43	30.6	30.3	30.0	28.7	**27.3**	26.5	25.1	23.9
	50	46	32.8	31.4	30.0	28.7	27.3	26.5	25.1	23.9
	55	51	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9
	60	56	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU283M3A4

Table 43: ARNU283M3A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU283M3A4/ 28.0	-21.6	-22.0	16.0	16.0	16.0	16.0	15.8	15.8	15.8	15.8
	-17.1	-17.5	17.9	17.9	17.9	17.9	17.7	17.7	17.7	17.7
	-12.6	-13	19.9	19.9	19.9	19.9	19.6	19.6	19.6	19.6
	-7	-7.6	20.5	20.5	20.5	20.5	20.2	20.2	20.2	20.2
	-4	-4.4	21.1	21.1	21.1	21.1	20.8	20.8	20.8	20.8
	0	-0.4	21.7	21.7	21.7	21.7	21.7	21.4	21.4	21.4
	5	4.5	24.6	24.3	23.9	23.9	23.9	23.9	23.9	23.9
	10	9	25.5	25.5	25.5	25.2	25.2	25.2	25.2	25.2
	15	14	27.1	27.1	27.1	27.1	27.1	27.1	26.8	26.5
	20	19	28.7	28.7	28.7	28.7	28.0	28.0	27.6	27.3
	25	23	29.9	29.9	29.9	29.9	29.9	29.3	29.0	27.6
	30	28	30.6	30.6	30.6	30.6	30.6	29.9	29.0	27.6
	35	32	31.5	31.5	31.5	31.5	31.2	30.6	29.0	27.6
	40	36	32.8	32.8	32.8	32.8	31.5	30.6	29.0	27.6
	45	41	34.0	34.0	34.0	33.1	31.5	30.6	29.0	27.6
	47	43	35.3	35.0	34.7	33.1	**31.5**	30.6	29.0	27.6
	50	46	37.8	36.2	34.7	33.1	31.5	30.6	29.0	27.6
	55	51	38.6	36.5	34.7	33.1	31.5	30.6	29.0	27.6
	60	56	38.6	36.5	34.7	33.1	31.5	30.6	29.0	27.6

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 44: ARNU363B8A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU363B8A4/ 36.2	-21.6	-22.0	20.6	20.6	20.6	20.6	20.3	20.3	20.3	20.3
	-17.1	-17.5	23.1	23.1	23.1	23.1	22.8	22.8	22.8	22.8
	-12.6	-13	25.6	25.6	25.6	25.6	25.2	25.2	25.2	25.2
	-7	-7.6	26.4	26.4	26.4	26.4	26.0	26.0	26.0	26.0
	-4	-4.4	27.2	27.2	27.2	27.2	26.8	26.8	26.8	26.8
	0	-0.4	28.0	28.0	28.0	28.0	28.0	27.6	27.6	27.6
	5	4.5	31.7	31.3	30.9	30.9	30.9	30.9	30.9	30.9
	10	9	32.9	32.9	32.9	32.5	32.5	32.5	32.5	32.5
	15	14	34.9	34.9	34.9	34.9	34.9	34.9	34.5	34.1
	20	19	37.0	37.0	37.0	37.0	36.1	36.1	35.5	35.1
	25	23	38.6	38.6	38.6	38.6	38.6	37.8	37.4	35.5
	30	28	39.4	39.4	39.4	39.4	39.4	38.6	37.4	35.5
	35	32	40.6	40.6	40.6	40.6	40.2	39.4	37.4	35.5
	40	36	42.2	42.2	42.2	42.2	40.6	39.4	37.4	35.5
	45	41	43.9	43.9	43.9	42.6	40.6	39.4	37.4	35.5
	47	43	45.5	45.1	44.7	42.6	**40.6**	39.4	37.4	35.5
	50	46	48.7	46.7	44.7	42.6	40.6	39.4	37.4	35.5
	55	51	49.7	47.1	44.7	42.6	40.6	39.4	37.4	35.5
	60	56	49.7	47.1	44.7	42.6	40.6	39.4	37.4	35.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU423B8A4

Table 45: ARNU423B8A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU423B8A4/ 42.0	-21.6	-22.0	22.2	22.2	22.2	22.2	21.9	21.9	21.9	21.9
	-17.1	-17.5	24.9	24.9	24.9	24.9	24.6	24.6	24.6	24.6
	-12.6	-13	27.6	27.6	27.6	27.6	27.2	27.2	27.2	27.2
	-7	-7.6	28.5	28.5	28.5	28.5	28.0	28.0	28.0	28.0
	-4	-4.4	29.4	29.4	29.4	29.4	28.9	28.9	28.9	28.9
	0	-0.4	30.2	30.2	30.2	30.2	30.2	29.8	29.8	29.8
	5	4.5	34.2	33.7	33.3	33.3	33.3	33.3	33.3	33.3
	10	9	35.5	35.5	35.5	35.0	35.0	35.0	35.0	35.0
	15	14	37.7	37.7	37.7	37.7	37.7	37.7	37.2	36.8
	20	19	39.9	39.9	39.9	39.9	39.0	39.0	38.3	37.9
	25	23	41.6	41.6	41.6	41.6	41.6	40.7	40.3	38.3
	30	28	42.5	42.5	42.5	42.5	42.5	41.6	40.3	38.3
	35	32	43.8	43.8	43.8	43.8	43.4	42.5	40.3	38.3
	40	36	45.6	45.6	45.6	45.6	43.8	42.5	40.3	38.3
	45	41	47.3	47.3	47.3	46.0	43.8	42.5	40.3	38.3
	47	43	49.1	48.6	48.2	46.0	**43.8**	42.5	40.3	38.3
	50	46	52.6	50.4	48.2	46.0	43.8	42.5	40.3	38.3
	55	51	53.7	50.8	48.2	46.0	43.8	42.5	40.3	38.3
	60	56	53.7	50.8	48.2	46.0	43.8	42.5	40.3	38.3

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 46: ARNU483B8A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU483B8A4/ 48.1	-21.6	-22.0	26.0	26.0	26.0	26.0	25.6	25.6	25.6	25.6
	-17.1	-17.5	29.1	29.1	29.1	29.1	28.7	28.7	28.7	28.7
	-12.6	-13	32.3	32.3	32.3	32.3	31.8	31.8	31.8	31.8
	-7	-7.6	33.3	33.3	33.3	33.3	32.8	32.8	32.8	32.8
	-4	-4.4	34.3	34.3	34.3	34.3	33.8	33.8	33.8	33.8
	0	-0.4	35.3	35.3	35.3	35.3	35.3	34.8	34.8	34.8
	5	4.5	39.9	39.4	38.9	38.9	38.9	38.9	38.9	38.9
	10	9	41.5	41.5	41.5	41.0	41.0	41.0	41.0	41.0
	15	14	44.0	44.0	44.0	44.0	44.0	44.0	43.5	43.0
	20	19	46.6	46.6	46.6	46.6	45.6	45.6	44.8	44.3
	25	23	48.6	48.6	48.6	48.6	48.6	47.6	47.1	44.8
	30	28	49.7	49.7	49.7	49.7	49.7	48.6	47.1	44.8
	35	32	51.2	51.2	51.2	51.2	50.7	49.7	47.1	44.8
	40	36	53.3	53.3	53.3	53.3	51.2	49.7	47.1	44.8
	45	41	55.3	55.3	55.3	53.8	51.2	49.7	47.1	44.8
	47	43	57.3	56.8	56.3	53.8	**51.2**	49.7	47.1	44.8
	50	46	61.4	58.9	56.3	53.8	51.2	49.7	47.1	44.8
	55	51	62.7	59.4	56.3	53.8	51.2	49.7	47.1	44.8
	60	56	62.7	59.4	56.3	53.8	51.2	49.7	47.1	44.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED HIGH STATIC

Heating Capacity Tables

ARNU763B8A4

Table 47: ARNU763B8A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU763B8A4/ 76.4	-21.6	-22.0	43.6	43.6	43.6	43.6	43.0	43.0	43.0	43.0
	-17.1	-17.5	48.9	48.9	48.9	48.9	48.2	48.2	48.2	48.2
	-12.6	-13	54.2	54.2	54.2	54.2	53.4	53.4	53.4	53.4
	-7	-7.6	55.9	55.9	55.9	55.9	55.0	55.0	55.0	55.0
	-4	-4.4	57.6	57.6	57.6	57.6	56.8	56.8	56.8	56.8
	0	-0.4	59.3	59.3	59.3	59.3	59.3	58.5	58.5	58.5
	5	4.5	67.1	66.2	65.4	65.4	65.4	65.4	65.4	65.4
	10	9	69.7	69.7	69.7	68.8	68.8	68.8	68.8	68.8
	15	14	74.0	74.0	74.0	74.0	74.0	74.0	73.1	72.2
	20	19	78.3	78.3	78.3	78.3	76.5	76.5	75.3	74.4
	25	23	81.7	81.7	81.7	81.7	81.7	80.0	79.1	75.3
	30	28	83.4	83.4	83.4	83.4	83.4	81.7	79.1	75.3
	35	32	86.0	86.0	86.0	86.0	85.1	83.4	79.1	75.3
	40	36	89.4	89.4	89.4	89.4	86.0	83.4	79.1	75.3
	45	41	92.9	92.9	92.9	90.3	86.0	83.4	79.1	75.3
	47	43	96.3	95.5	94.6	90.3	**86.0**	83.4	79.1	75.3
	50	46	103.2	98.9	94.6	90.3	86.0	83.4	79.1	75.3
	55	51	105.4	99.8	94.6	90.3	86.0	83.4	79.1	75.3
	60	56	105.4	99.8	94.6	90.3	86.0	83.4	79.1	75.3

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 48: ARNU963B8A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU963B8A4/ 95.9	-21.6	-22.0	54.5	54.5	54.5	54.5	53.8	53.8	53.8	53.8
	-17.1	-17.5	61.1	61.1	61.1	61.1	60.3	60.3	60.3	60.3
	-12.6	-13	67.7	67.7	67.7	67.7	66.8	66.8	66.8	66.8
	-7	-7.6	69.9	69.9	69.9	69.9	68.8	68.8	68.8	68.8
	-4	-4.4	72.0	72.0	72.0	72.0	71.0	71.0	71.0	71.0
	0	-0.4	74.2	74.2	74.2	74.2	74.2	73.1	73.1	73.1
	5	4.5	83.9	82.8	81.7	81.7	81.7	81.7	81.7	81.7
	10	9	87.1	87.1	87.1	86.0	86.0	86.0	86.0	86.0
	15	14	92.5	92.5	92.5	92.5	92.5	92.5	91.4	90.3
	20	19	97.8	97.8	97.8	97.8	95.7	95.7	94.1	93.0
	25	23	102.1	102.1	102.1	102.1	102.1	100.0	98.9	94.1
	30	28	104.3	104.3	104.3	104.3	104.3	102.1	98.9	94.1
	35	32	107.5	107.5	107.5	107.5	106.4	104.3	98.9	94.1
	40	36	111.8	111.8	111.8	111.8	107.5	104.3	98.9	94.1
	45	41	116.1	116.1	116.1	112.9	107.5	104.3	98.9	94.1
	47	43	120.4	119.3	118.3	112.9	**107.5**	104.3	98.9	94.1
	50	46	129.0	123.6	118.3	112.9	107.5	104.3	98.9	94.1
	55	51	131.7	124.7	118.3	112.9	107.5	104.3	98.9	94.1
	60	56	131.7	124.7	118.3	112.9	107.5	104.3	98.9	94.1

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Optional Accessories

Table 49: Optional Accessories for Ducted High Static Indoor Units.

Accessory	Model Number
High Efficiency Filter Box	ZFBXM201A (For 7~24MBh M2 Ducted High Static Indoor Units) ZFBXM301A (For 28MBh M3 Ducted High Static Indoor Units) ZFBXB801A (For 36~96MBh B8 Ducted High Static Indoor Units)

All accessories are sold separately.

CEILING-CONCEALED DUCTED MID STATIC

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Electrical Data on page 80
External Dimensions on page 81
Electrical Wiring Diagrams on page 84
Refrigerant Flow Diagrams on page 90
External Static Pressure and Air Flow on page 91
External Static Pressure Ranges on page 97
Acoustic Data on page 100
Capacity Tables on page 116
Optional Accessories on page 138

DUCTED MID STATIC
Mechanical Specifications

Casing
The case is designed to mount concealed above a finished ceiling. Fan supply air is front horizontal with a dedicated rear horizontal return. The unit is manufactured with coated metal. Cold surfaces are covered with a coated polystyrene insulating material. The cold surface areas of the case are covered externally with sheet insulation made of Ethylene Propylene Diene Monomer (M-Class) (EPDM) conforming to ASTM Standard D-1418. The case is provided with hanger brackets designed to support the unit weight on four corners. Hanger brackets have pre-punched holes designed to accept field supplied, all-thread rod hangers.

Fan Assembly and Control
The unit has Sirocco fans made of high strength ABS GP-2200 polymeric resin. Fans are directly driven and mounted on a common shaft. The fan motor is a Brushless Digitally Controlled (BLDC) design with permanently lubricated and sealed ball bearings. The fan motor includes thermal, overcurrent and low RPM protection. The fan / motor assembly is mounted on vibration attenuating rubber grommets. The fan impeller is statically and dynamically balanced. The fan speed is controlled using a microprocessor based, direct digital control algorithm that provides a high fan speed in cooling thermal ON and low fan speed in cooling thermal OFF, high fan speed in heating thermal ON and fan off in heating thermal OFF. The fan speeds can be field adjusted between low, medium, and high speeds and DIP switch settings will allow the fan to run constantly during defrost or oil return modes. Each setting can be field adjusted from the factory setting (RPM / ESP) to compensate for additional resistance to airflow caused by field connected ductwork or other airflow restricting devices.

Air Filter
Return air is filtered with a removable, washable filter with anti fungal treatment. MERV 13 filter modules with plenums available.

Microprocessor Controls
The unit is provided with an integrated microprocessor-based controller. The controller is capable of performing functions necessary to operate the system without the use of a wall-mounted controller. A temperature thermistor is factory-mounted in the return air stream. All unit operation parameters, excluding the unit operating schedule, are stored in non-volatile memory resident on the unit microprocessor. Operating schedules are stored in select models of the optional, wall-mounted, local, or central controller. The field supplied communication cable between the indoor unit(s) and outdoor unit is to be a minimum of 18 AWG, 2-conductor, stranded, and shielded cable (RS-485), terminated via screw terminals on the control boards. The microprocessor control provides the following functions: auto addressing, self-diagnostics, auto restart following power restoration, test run, and will operate the indoor unit using one of five operating modes:

1. Auto Changeover (Heat Recovery only)
2. Heating
3. Cooling
4. Dry
5. Fan Only

For Heat Recovery systems the Auto Changeover setting automatically switches control of the indoor unit between cooling and heating modes based on space temperature conditions.

For Heat Pump systems, heated or cooled air delivery is dependent upon outdoor unit operating mode.

In Heating mode, the microprocessor control will activate the indoor unit when indoor room temperature falls below setpoint temperature and signals the outdoor unit to begin heating cycle. The indoor unit fan operation is delayed until coil pipe temperature reaches 76ºF. Significant airflow is generated when pipe temperature reaches 80°F. In lieu of factory return air thermistor, screw terminals on the microprocessor circuit board accommodate various models of wall-mounted local controllers and/or a wall-mounted remote temperature sensor. The unit microprocessor is capable of accepting space temperature readings concurrently or individually from either:

1. Wall-mounted wired controller(s)
2. Factory mounted return air thermistor or the optional wall-mounted wired remote temperature sensor

A single indoor unit has the capability of being controlled by up to two local wired controllers. The microprocessor controls space temperature using the value provided by the temperature sensor sensing a space temperature that is farthest away from the temperature set-point. The microprocessor control provides a cooling or heating mode test cycle that operates the unit for 18 minutes without regard to the space temperature. If the system is provided with an optional wall-mounted local or central controller, displayed diagnostic codes are specific, alpha numeric, and provide the service technician with a reason for the code displayed.

Condensate Lift / Pump
The indoor unit is provided with a factory installed and wired condensate lift / pump capable of providing a maximum 27.5 inch lift from the bottom exterior surface of the unit casing. The unit drain pan is provided with a secondary drain port/plug allowing the pan to be drained for service. The lift pump comes with a safety switch that will shut off indoor unit if condensate rises too high in the drain pan.

Condensate Drain Pan
The condensate drain pan is constructed of high impact polystyrene resin (HIPS).

Coil
The indoor unit coil is constructed with grooved design copper tubes with slit coil fins, 2 to 3 rows, 18 fins per inch.

Controls Features
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- External on/off control
- Dual thermistor control
- Dual set-point control
- Filter life display
- Multiple auxiliary heater applications
- Group control
- External static pressure control
- Hot start
- Self diagnostics
- Timer (on / off)
- Weekly schedule
- Fan speed control
- Ventilation (outside air)
- Wi-Fi compatible
- Auto fan
- Leak detection

**To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.*

DUCTED MID STATIC
General Data

Table 50: Ducted Mid Static (M1 Frame) Indoor Unit General Data.

Model No.	ARNU073M1A4	ARNU093M1A4	ARNU123M1A4	ARNU153M1A4	ARNU183M1A4	ARNU243M1A4
Cooling Mode Performance						
Capacity (Btu/h)	7,500	9,600	12,300	15,400	19,100	24,200
Max. Power Input[1] (W)	190	190	190	190	190	190
L/M/H Power Input at Factory Default (W)	25 / 30 / 39	26 / 32 / 40	31 / 38 / 46	46 / 53 / 67	55 / 63 / 85	58 / 74 / 91
Heating Mode Performance						
Capacity (Btu/h)	8,500	10,900	13,600	17,100	21,500	27,300
Max. Power Input[1] (W)	190	190	190	190	190	190
L/M/H Power Input at Factory Default (W)	25 / 30 / 39	26 / 32 / 40	31 / 38 / 46	46 / 53 / 67	55 / 63 / 85	58 / 74 / 91
Entering Mixed Air						
Cooling Max. (°F WB)	76	76	76	76	76	76
Heating Min. (°F DB)[2]	59	59	59	59	59	59
Unit Data						
Refrigerant Type[3]	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV	EEV	EEV	EEV
Sound Power[4] dB(A) (H/M/L, @0.24" ESP)	44 / 41 / 39	44 / 42 / 39	44 / 43 / 40	47 / 43 / 43	49 / 47 / 43	51 / 49 / 47
Net Unit Weight (lbs.)	56.0	56.0	56.0	56.0	56.0	59.0
Shipping Weight (lbs.)	67.0	67.0	67.0	67.0	67.0	70.0
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Fan						
Type	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco
Motor	1	1	1	1	1	1
Housing	1	1	1	1	1	1
Motor/Drive	Brushless Digitally Controlled / Direct					
Airflow Rate H/M/L (CFM) Standard Mode	372 / 315 / 257	385 / 329 / 272	399 / 344 / 286	593 / 413 / 344	606 / 493 / 413	641 / 592 / 493
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	361 / 279 / 211	376 / 296 / 229	392 / 328 / 262	570 / 392 / 328	638 / 556 / 392	703 / 638 / 556
External Static Pressure (in. wg) Standard Mode	0.10	0.10	0.10	0.10	0.10	0.10
External Static Pressure (in. wg) High Mode (Factory Set)	0.24	0.24	0.24	0.24	0.24	0.24
Piping						
Liquid Line (in., O.D.)	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare	3/8 Flare
Vapor Line (in., O.D.)	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare	5/8 Flare
Condensate Line (in., I.D.)	1	1	1	1	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Power level is measured using rated conditions, and tested in a reverberation room per ISO Standard 3741.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED MID STATIC
General Data

Table 51: Ducted Mid Static (M2 Frame) Indoor Unit General Data, continued.

Model No.	ARNU283M2A4	ARNU363M2A4	ARNU423M2A4
Cooling Mode Performance			
Capacity (Btu/h)	28,000	36,200	42,000
Max Power Input[1] (W)	430	430	430
L/M/H Power Input at Factory Default (W)	57 / 88 / 123	88 / 123 / 184	136 / 193 / 231
Heating Mode Performance			
Capacity (Btu/h)	31,500	40,600	47,000
Max Power Input[1] (W)	450	450	450
L/M/H Power Input at Factory Default (W)	57 / 88 / 123	88 / 123 / 184	136 / 193 / 231
Entering Mixed Air			
Cooling Max. (°F WB)	76	76	76
Heating Min. (°F DB)[2]	59	59	59
Unit Data			
Refrigerant Type[3]	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV
Sound Power[4] dB(A) (H/M/L, @0.24" ESP)	64 / 61 / 57	65 / 62 / 60	66 / 65 / 63
Net Unit Weight (lbs.)	86.2	86.2	86.2
Shipping Weight (lbs.)	99.2	99.2	99.2
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18
Fan			
Type	Sirocco	Sirocco	Sirocco
Motor	1	1	1
Housing	2	2	2
Motor/Drive			
Airflow Rate H/M/L (CFM) Standard Mode	892 / 770 / 645	1,021 / 844 / 695	1,262 / 1,087 / 917
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	845 / 676 / 528	1,031 / 845 / 676	1,260 / 1,076 / 888
External Static Pressure (in. wg) Standard Mode	0.20	0.20	0.20
External Static Pressure (in. wg) High Mode (Factory Set)	0.24	0.24	0.24
Piping			
Liquid Line (in., O.D.)	3/8 Flare	3/8 Flare	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare	5/8 Flare	5/8 Flare
Condensate Line (in., I.D.)	1	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Power level is measured using rated conditions, and tested in a reverberation room per ISO Standard 3741.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED MID STATIC
General Data

Table 52: Ducted Mid Static (M3 Frames) Indoor Unit General Data.

Model No.	ARNU483M3A4	ARNU543M3A4
Cooling Mode Performance		
Capacity (Btu/h)	48,100	54,000
Max Power Input[1] (W)	650	650
L/M/H Power Input at Factory Default (W)	75 / 107 / 172	172 / 215 / 260
Heating Mode Performance		
Capacity (Btu/h)	54,200	61,400
Power Input[1] (W)	650	650
L/M/H Power Input at Factory Default (W)	75 / 107 / 172	172 / 215 / 260
Entering Mixed Air		
Cooling Max. (°F WB)	76	76
Heating Min. (°F DB)[2]	59	59
Unit Data		
Refrigerant Type[3]	R410A	R410A
Refrigerant Control	EEV	EEV
Sound Power[4] dB(A) (H/M/L, @0.24" ESP)	67 / 64 / 62	69 / 68 / 67
Net Unit Weight (lbs.)	96.1	96.1
Shipping Weight (lbs.)	110.0	110.0
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18
Fan		
Type	Sirocco	Sirocco
Motor	1	1
Housing	2	2
Motor/Drive		
Airflow Rate H/M/L (CFM) Standard Mode	1,457 / 1,189 / 952	1,720 / 1,558 / 1,424
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	1,482 / 1,191 / 918	1,744 / 1,614 / 1,482
External Static Pressure (in. wg) Standard Mode	0.19	0.19
External Static Pressure (in. wg) High Mode (Factory Set)	0.23	0.23
Piping		
Liquid Line (in., O.D.)	3/8 Flare	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare	5/8 Flare
Condensate Line (in., I.D.)	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Power level is measured using rated conditions, and tested in a reverberation room per ISO Standard 3741.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED MID STATIC
Electrical Data

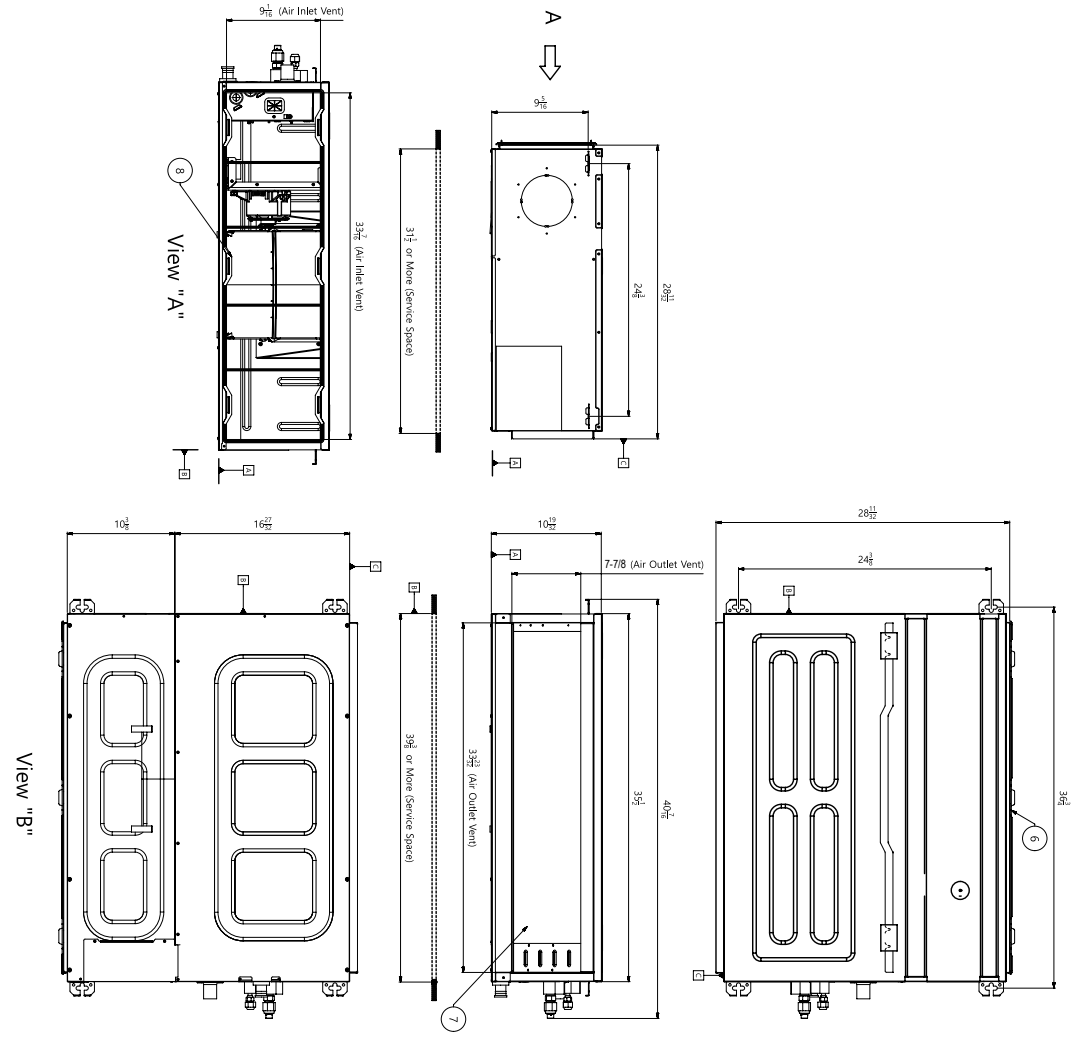
Table 53: Ducted Mid Static Indoor Unit Electrical Data.

Model	Voltage Range	MCA	MOP	Rated Amps (A)	Power Supply			Power Input (W)		
					Hz	Volts	Phase	Max. Cooling	Max. Heating	L / M / H at Factory Default
M1 Units										
ARNU073M1A4	208-230	2.0	15	1.6	60	208-230	1	190	190	25 / 30 / 39
ARNU093M1A4		2.0		1.6				190	190	26 / 32 / 40
ARNU123M1A4		2.0		1.6				190	190	31 / 38 / 46
ARNU153M1A4		2.0		1.6				190	190	46 / 53 / 67
ARNU183M1A4		2.0		1.6				190	190	55 / 63 / 85
ARNU243M1A4		2.0		1.6				190	190	58 / 74 / 91
M2 Units										
ARNU283M2A4		2.9		2.3				430	430	57 / 88 / 123
ARNU363M2A4		2.9		2.3				430	430	88 / 123 / 184
ARNU423M2A4		2.9		2.3				430	430	136 / 193 / 231
M3 Units										
ARNU483M3A4		3.1		2.5				650	650	75 / 107 / 172
ARNU543M3A4		3.1		2.5				650	650	172 / 215 / 260

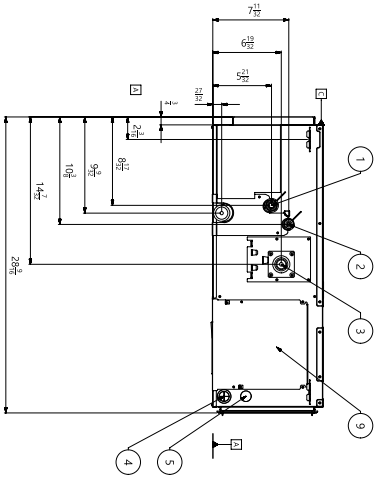
MCA : Minimum Circuit Ampacity.
MOP : Maximum Overcurrent Protection.

Units are suitable for use on an electrical system where voltage supplied to unit terminals is within the listed range limits.
Select wire size based on the larger MCA value.
Instead of fuse, use the circuit breaker.
Max. power input is rated at maximum setting value.

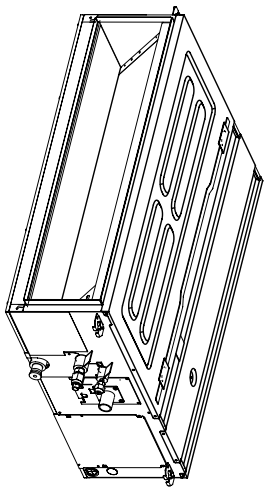
Figure 20: ARNU073~243M1A4 Dimensions.



No.	Part Name	Description
1	Gas pipe connection	-
2	Liquid pipe connection	-
3	Drain pipe connection	-
4	Remote and Communication Cable Hole	-
5	Power Cable Hole	-
6	Air Inlet	-
7	Air Outlet	-
8	Air Filters	Supplied with Product
9	Control Cover	-



3D View

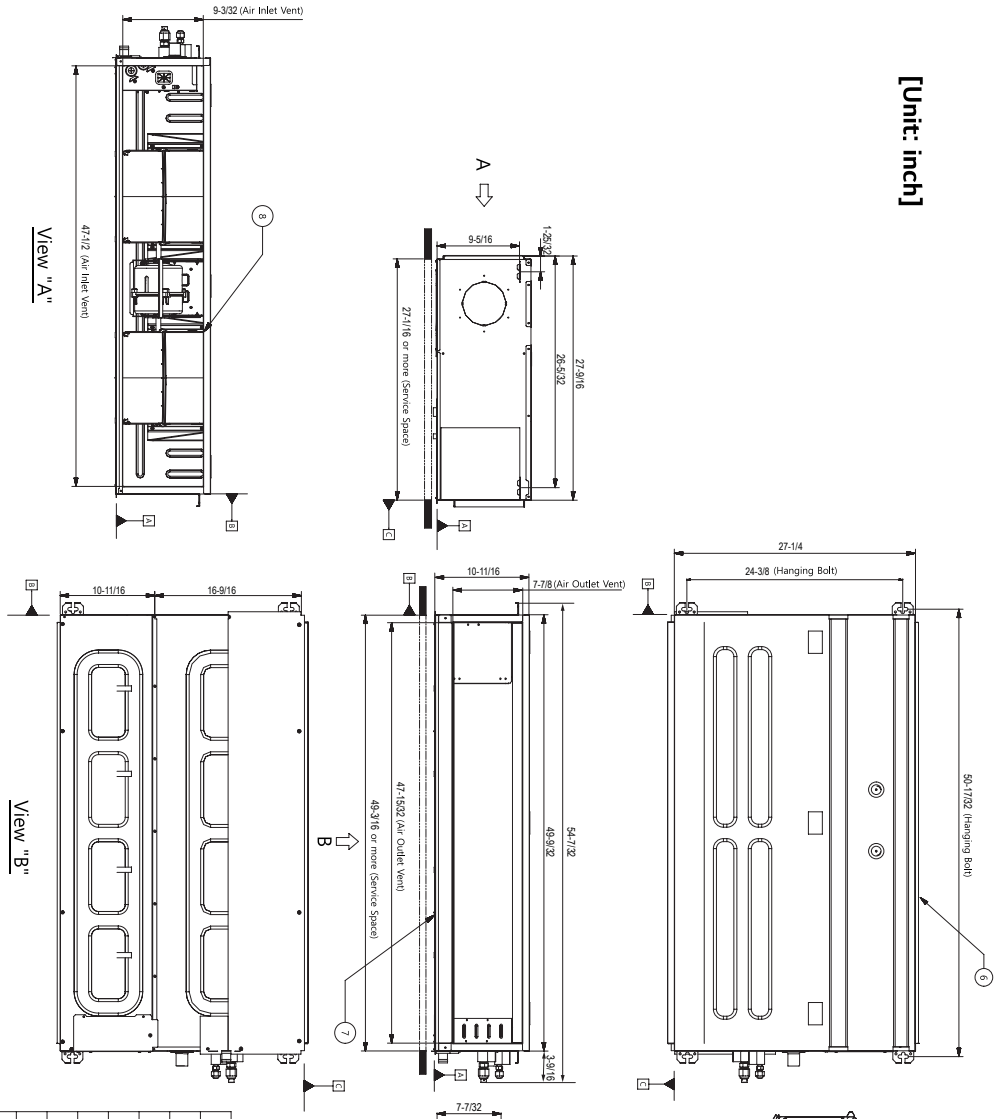


DUCTED MID STATIC

External Dimensions

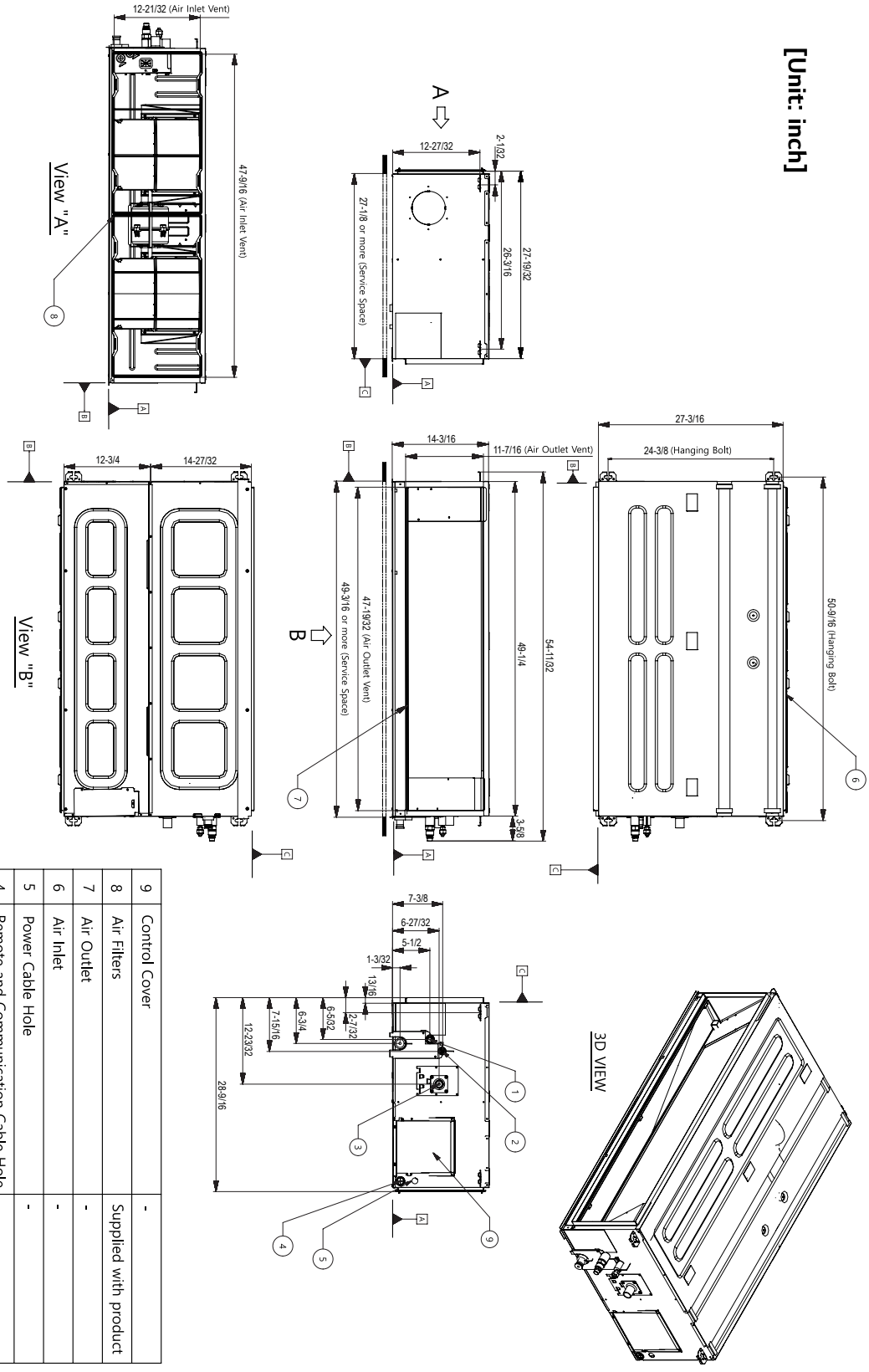
ARNU283~423M2A4 Units

Figure 21: ARNU283~423M2A4 Dimensions.



No.	Part Name	Description
1	Gas pipe connection	-
2	Liquid pipe connection	-
3	Drain pipe connection	-
4	Remote and Communication Cable Hole	-
5	Power Cable Hole	-
6	Air Inlet	-
7	Air Outlet	-
8	Air Filters	Supplied with product
9	Control Cover	-

Figure 22: ARNU483~543M3A4 Dimensions.



No.	Part Name	Description
1	Gas pipe connection	-
2	Liquid pipe connection	-
3	Drain pipe connection	-
4	Remote and Communication Cable Hole	-
5	Power Cable Hole	-
6	Air Inlet	-
7	Air Outlet	-
8	Air Filters	Supplied with product
9	Control Cover	-

DUCTED MID STATIC

Electrical Wiring Diagram

M1 Units

Figure 23: ARNU073~243M1A4 Wiring Diagram.

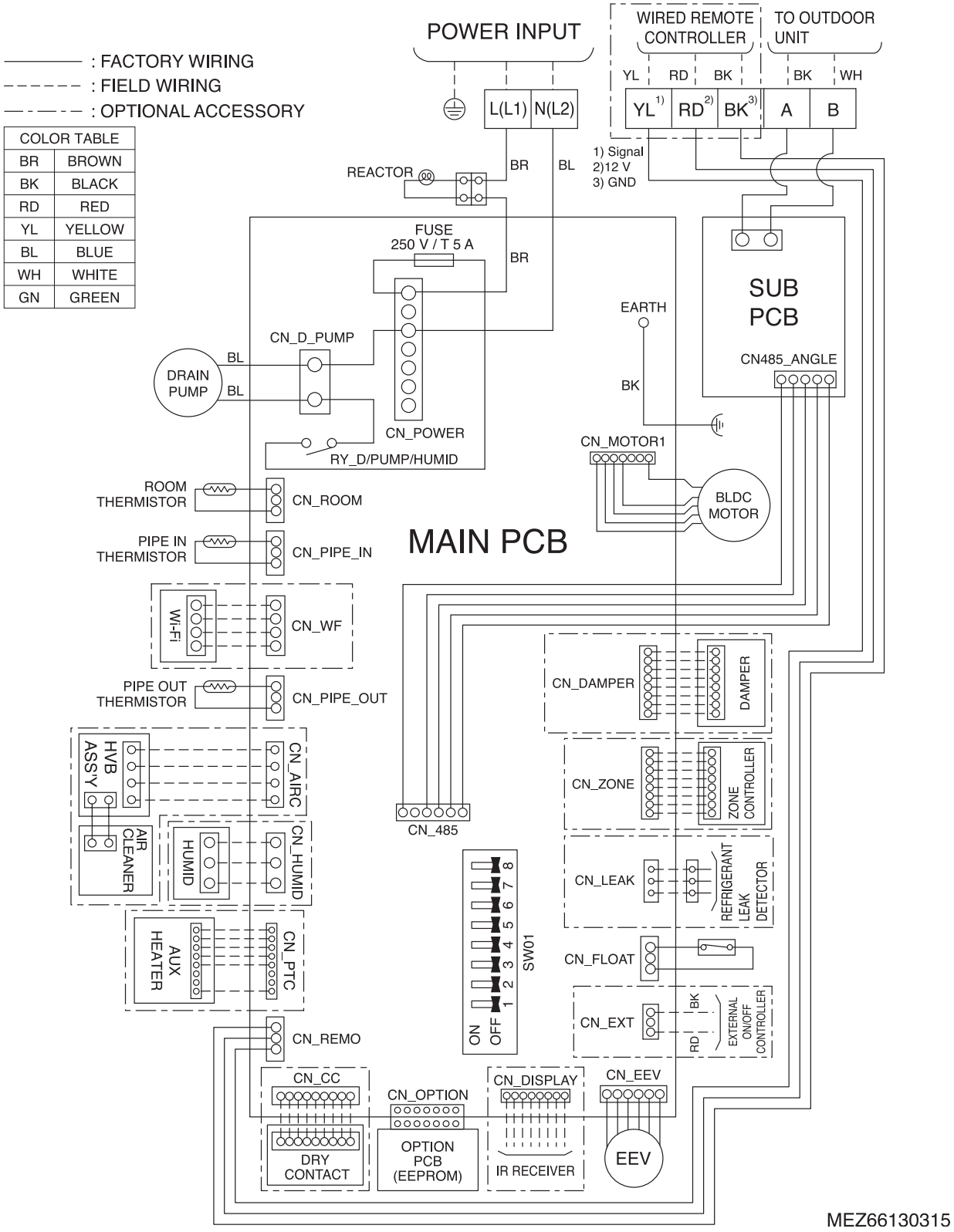


Table 54: M1 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-HUMID	N / A	N / A
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 55: M1 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

DUCTED MID STATIC

Electrical Wiring Diagram

ARNU283~423M2A4 Units

Figure 24: ARNU283~423M2A4 Wiring Diagram.

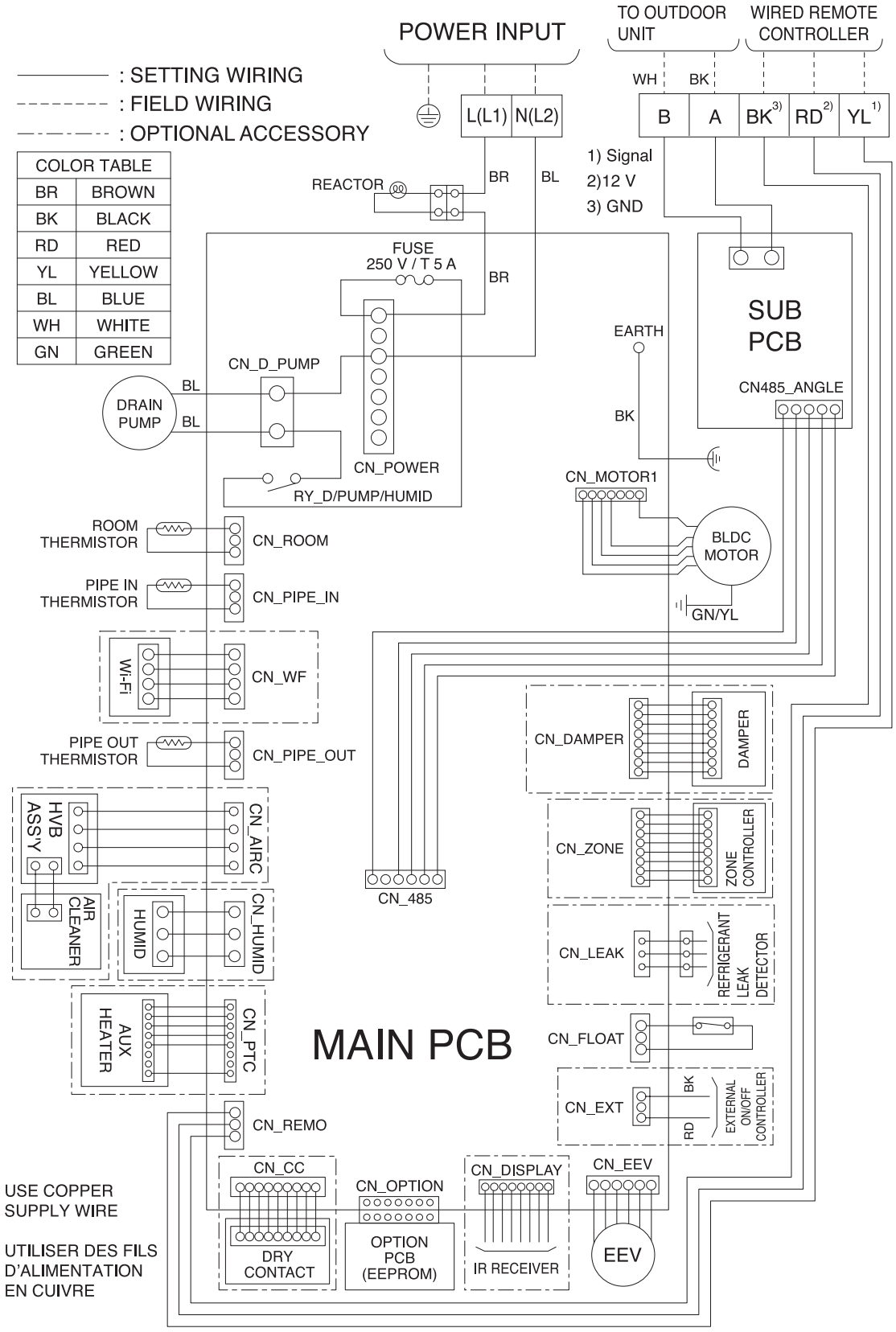


Table 56: ARNU283~423M2A4 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-HUMID	N / A	N / A
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 57: ARNU283~423M2A4 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

DUCTED MID STATIC

Electrical Wiring Diagram

ARNU483~543M3A4 Units

Figure 25: ARNU483~543M3A4 Wiring Diagram.

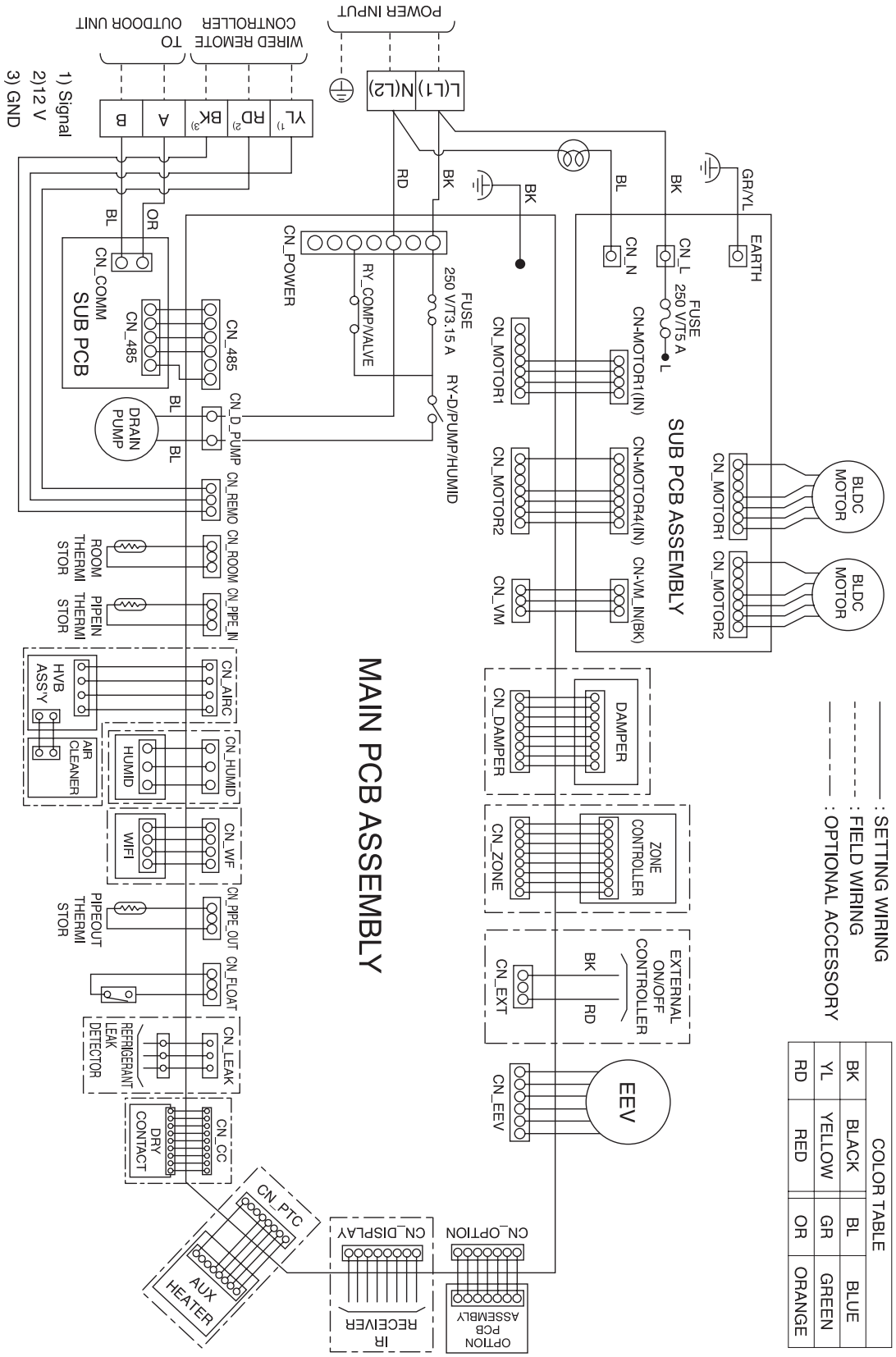


Table 58: ARNU483~543M3A4 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-MOTOR2	Fan motor output	Motor output of BLDC
CN-VM	Sub PCB to Main PCB power supply	Power supply connection
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-LEAK	Leak detector	Leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-AIRC	N / A	N / A
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 59: M3 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP Switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.**

Refrigerant Flow Diagram for ARNU073~243M1A4, ARNU283~423M2A4, ARNU483~543M3A4 Units

Figure 26: M1, M2, M3 Unit Refrigerant Flow Diagram.

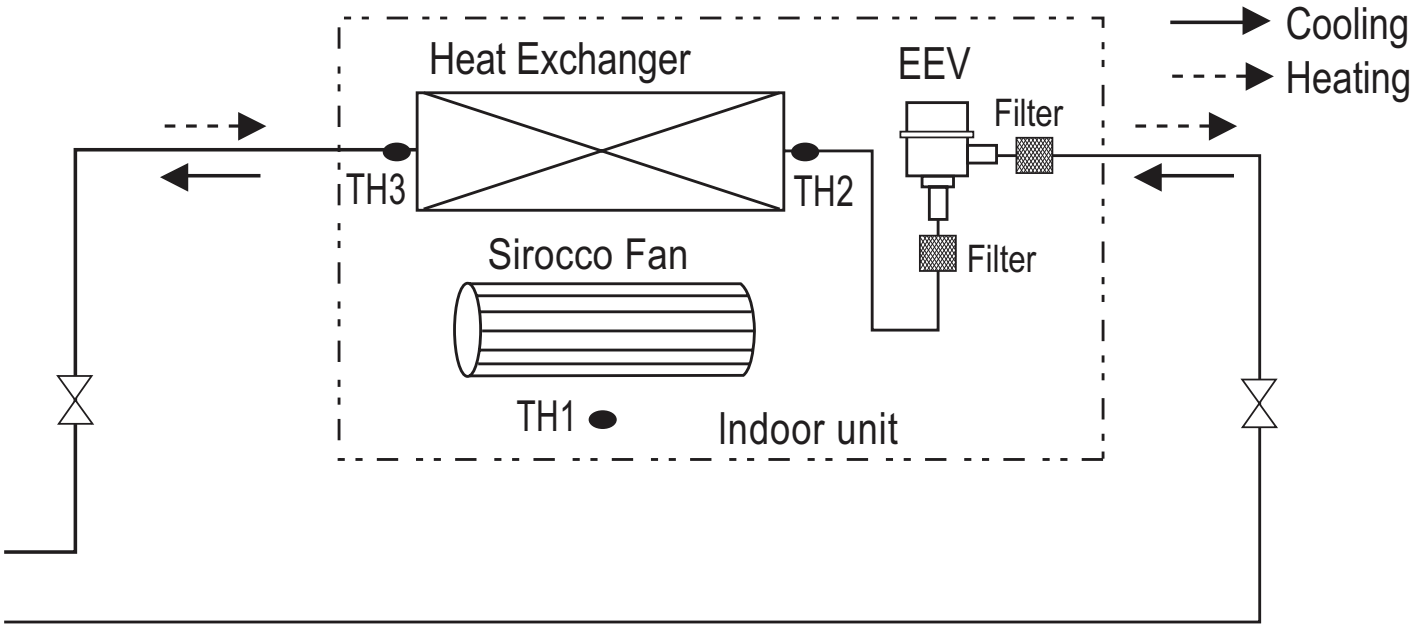


Table 60: M1, M2, M3 Unit Refrigerant Pipe Connection Port Diameters.

Model	Liquid (inch)	Vapor (inch)
M1 Units		
ARNU073M1A4	1/4 Flare	1/2 Flare
ARNU093M1A4		
ARNU123M1A4		
ARNU153M1A4		
ARNU183M1A4		
ARNU243M1A4	3/8 Flare	5/8 Flare
M2 Units		
ARNU283M2A4	3/8 Flare	5/8 Flare
ARNU363M2A4	3/8 Flare	5/8 Flare
ARNU423M2A4	3/8 Flare	5/8 Flare
M3 Units		
ARNU483M3A4	3/8 Flare	5/8 Flare
ARNU543M3A4		

Table 61: M1, M2, M3 Frame Thermistors.

Thermistor	Description
TH1	Return air thermistor
TH2	Pipe in thermistor
TH3	Pipe out thermistor

M1 Units External Static Pressure and Air Flow Tables

ARNU073~183M1A4 External Static Pressure and Air Flow Table.

Table 62: ARNU073~183M1A4 External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)							
	0.10	0.16	0.24	0.31	0.39	0.47	0.55	0.59
	Air Flow Rate [CFM]							
60	233							
65	315							
70	400	285						
75	455	368	216					
80	520	440	296					
85	580	504	366					
90	640	569	454	314				
95	696	631	530	413				
100	737	681	598	509	344			
105	816	755	666	570	423	260		
110	860	809	731	652	538	351		
115		858	786	715	621	506	334	
120			841	775	687	581	452	352
125				833	761	675	569	501
130				906	828	742	644	590
135					890	819	735	684
140						888	820	770

ARNU243M1A4 External Static Pressure and Air Flow Table.

Table 63: 243M1A4 Unit External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)							
	0.10	0.16	0.24	0.31	0.39	0.47	0.55	0.59
	Air Flow Rate [CFM]							
85	572	510						
90	625	558						
95	667	615	515					
100	717	668	588	494				
105	770	710	633	554	440			
110	819	769	692	616	506			
115	872	825	755	687	598	487		
120	911	868	805	742	658	553	378	
125		916	858	798	723	631	504	418
130			900	848	784	710	618	560
135				894	844	786	713	664
140					884	830	764	728

1. All static pressure air flow rates are listed in CFM.
2. The tables above show the correlation between air flow rates and external static pressure.
3. The tables above show the available external static pressure range.

Note:
If the external static pressure of the installed indoor unit is less than the lowest value (as mentioned in the table), the indoor unit components can fail.

DUCTED MID STATIC

External Static Pressure and Air Flow Tables

ARNU283~423M2A4 Units External Static Pressure and Air Flow Table

Table 65: ARNU283~423M2A4 External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)							
	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71
	Air Flow Rate[CFM]							
90	812							
95	914	676						
100	1010	823						
105	1110	931	691					
110	1208	1056	854					
115	1292	1153	1016	765				
120	1383	1260	1121	926	692			
125	1473	1358	1227	1087	857			
130	1554	1456	1332	1203	1023	787		
135		1545	1437	1318	1150	971	723	
140			1534	1426	1313	1151	909	701
145				1533	1468	1320	1084	868
150					1532	1493	1249	1036
155						1543	1324	1155

ARNU483~543M3A4 Unit External Static Pressure and Air Flow Table

Table 64: ARNU483~543M3A4 External Static Pressure and Air Flow Table.

Set value	Static Pressure (in wg)								
	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71	0.79
	Air Flow Rate [CFM]								
70	891								
75	1074	756							
80	1235	959	654						
85	1404	1250	869						
90	1562	1416	1111	800					
95	1741	1581	1300	1017	754				
100	1872	1744	1574	1251	978				
105	2020	1910	1737	1518	1234	935			
110		2076	1903	1691	1497	1193	858	522	
115			2069	1867	1687	1500	1108	717	646
120				2040	1874	1701	1384	1066	868
125					1913	1744	1520	1296	1168
130					1927	1860	1714	1567	1398
135								1772	1596

1. All static pressure air flow rates are listed in CFM.

2. The tables above show the correlation between air flow rates and external static pressure.

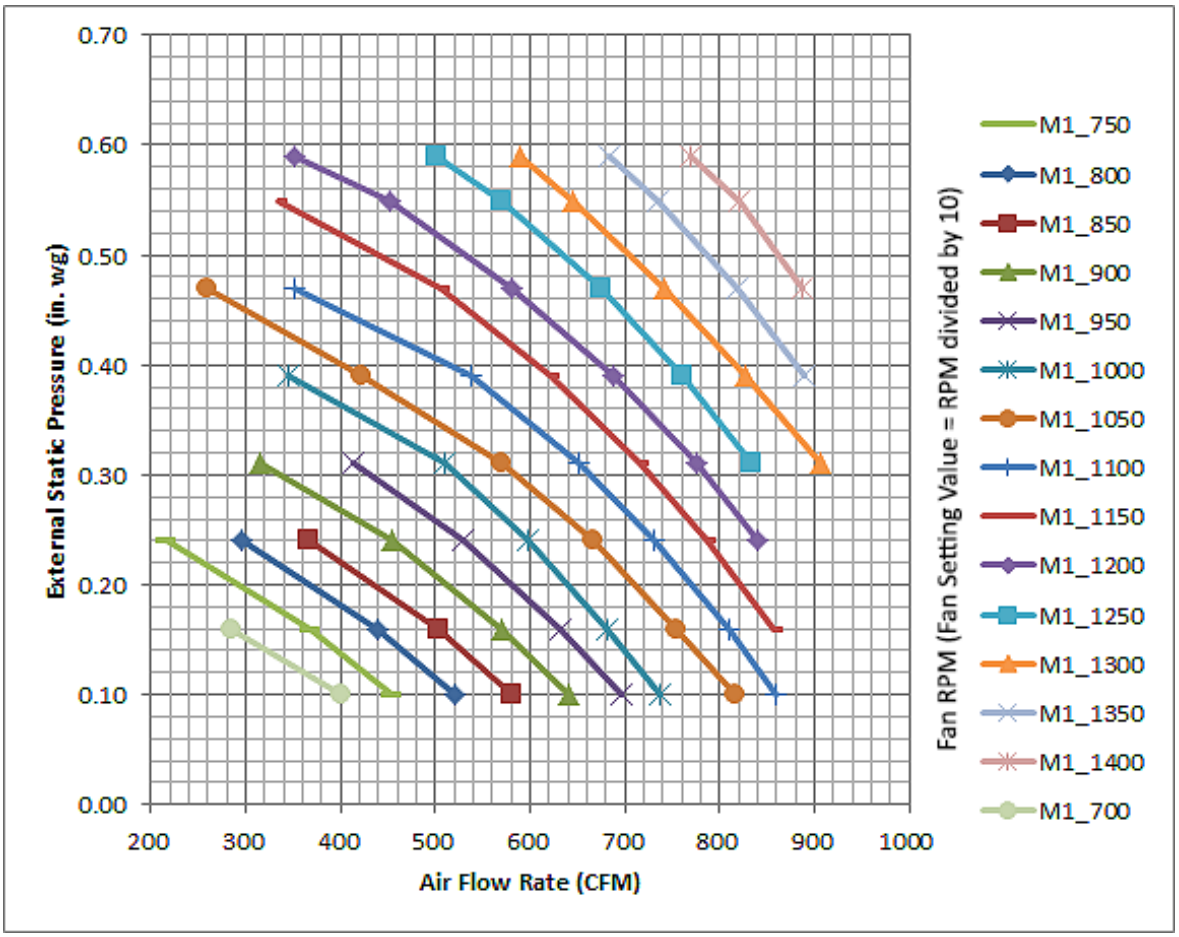
3. The tables above show the available external static pressure range.

Note:

If the external static pressure of the installed indoor unit is less than the lowest value (as mentioned in the table), the indoor unit components can fail.

ARNU073~183M1A4 External Static Pressure and Air Flow Chart

Figure 27: ARNU073~183M1A4 External Static Pressure and Air Flow Chart.

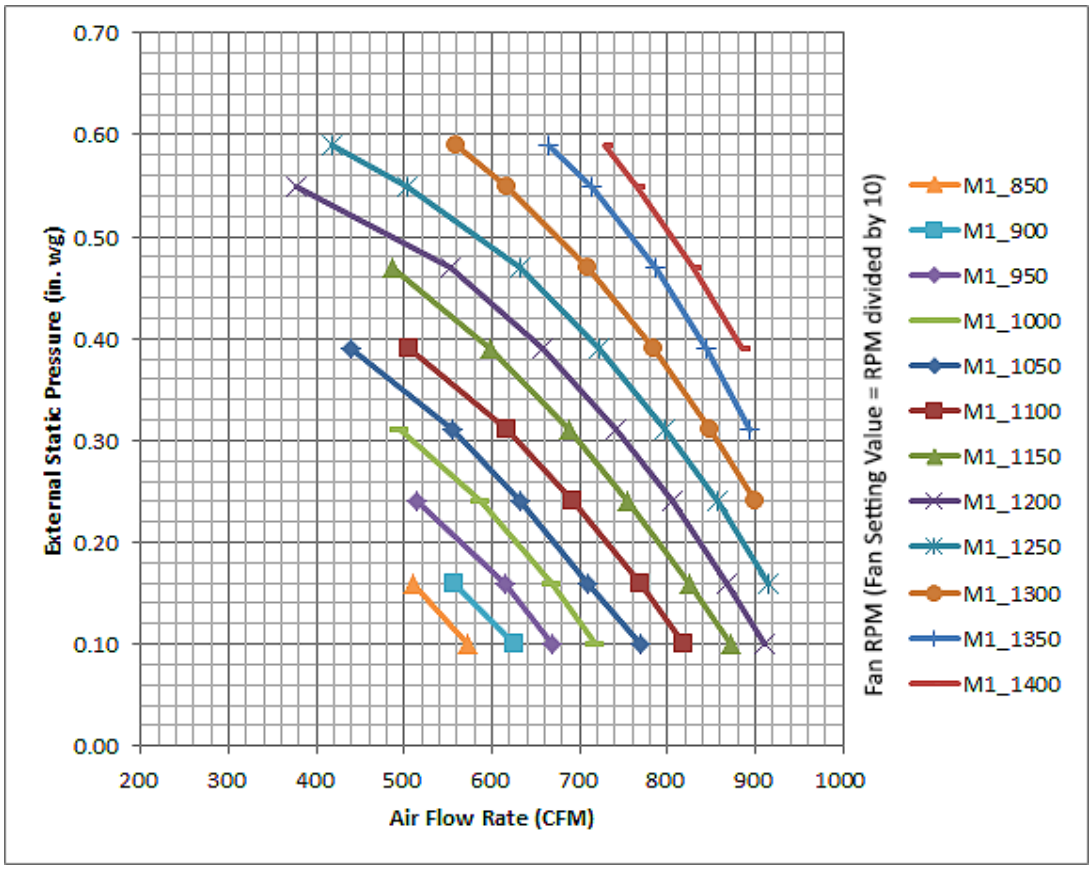


DUCTED MID STATIC

External Static Pressure and Air Flow Charts

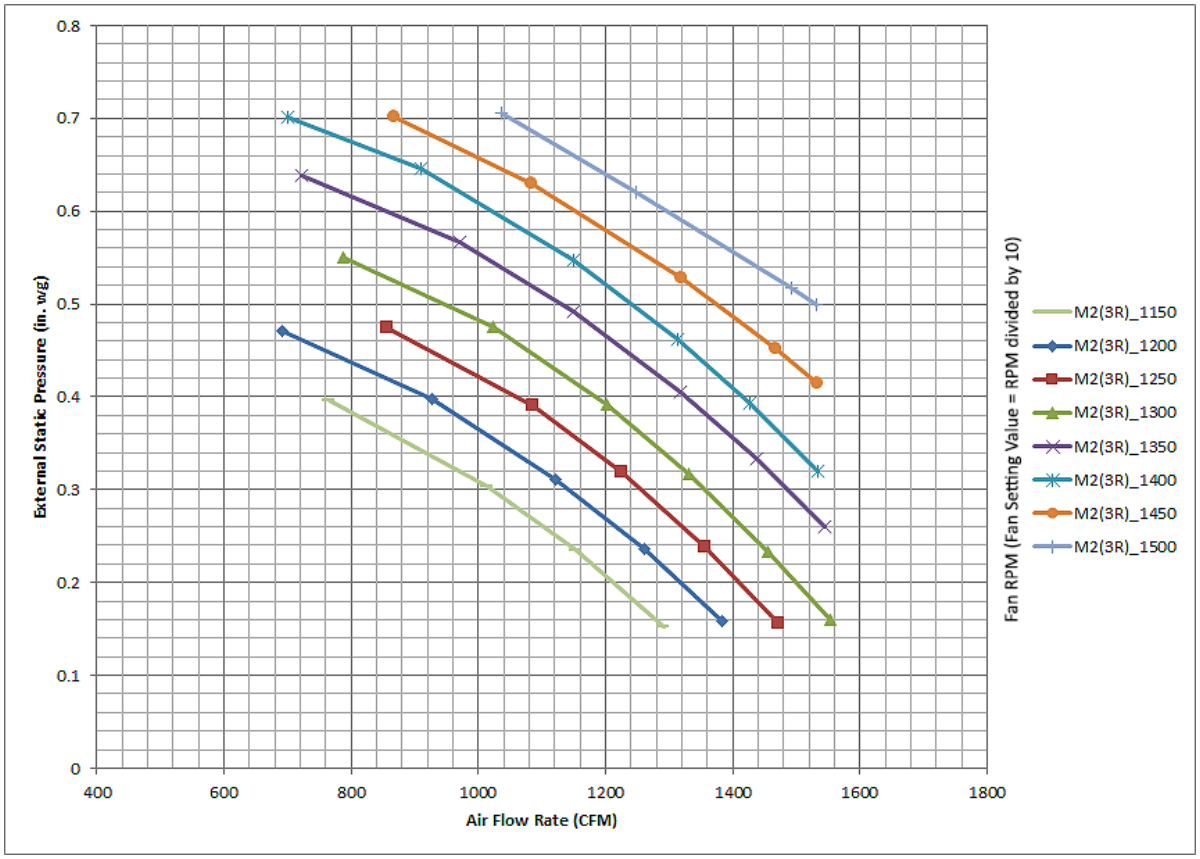
ARNU243M1A4 External Static Pressure and Air Flow Chart

Figure 28: 243M1A4 External Static Pressure and Air Flow Chart.



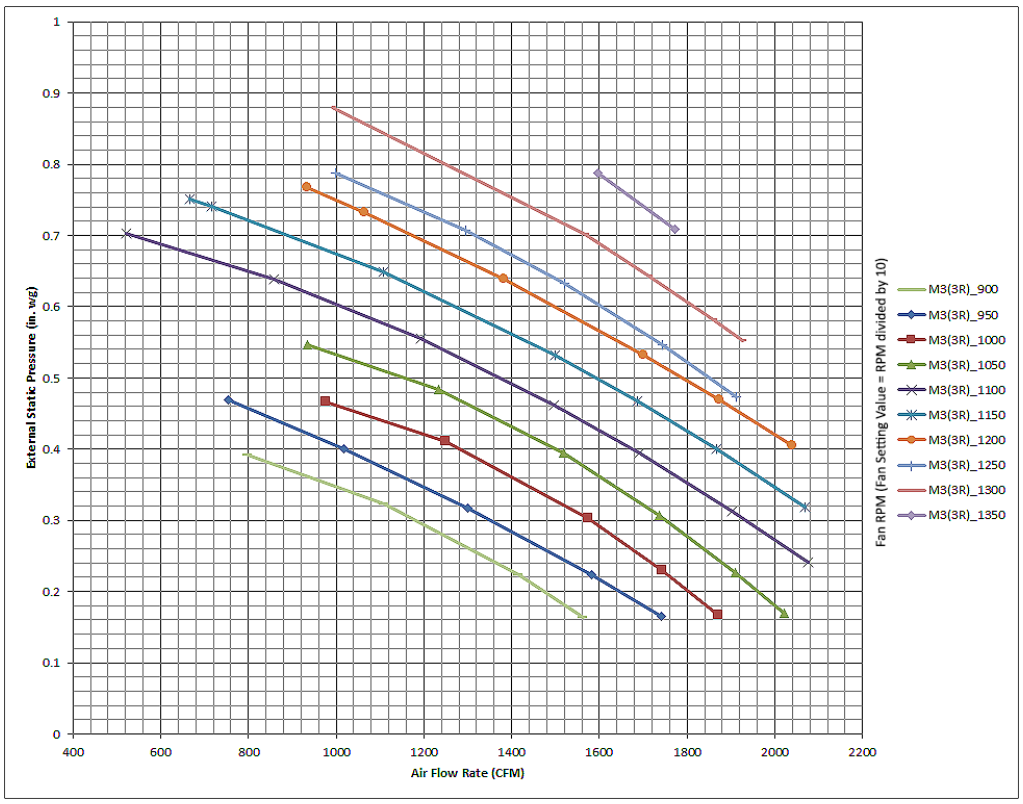
ARNU283~423M2A4 External Static Pressure and Air Flow chart

Figure 29: ARNU283~423M2A4 External Static Pressure and Air Flow Chart.



ARNU483~543M3A4 Units External Static Pressure and Air Flow Chart

Figure 30: ARNU483~543M3A4 External Static Pressure and Air Flow Chart.



External Static Pressure Ranges for M1 units

Table 66: M1 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in wg)	CFM	Lower Limit of ESP (in wg)	Upper Limit of ESP (in wg)
ARNU073M1A4	7.5	High (factory set)	High	84	0.24	361	0.08	0.59
			Mid	79		279		
			Low	75		211		
		Standard	High	69	0.10	372	0.08	0.59
			Mid	65		315		
			Low	61		257		
ARNU093M1A4	9.6	High (factory set)	High	85	0.24	376	0.08	0.59
			Mid	80		296		
			Low	76		229		
		Standard	High	70	0.10	385	0.08	0.59
			Mid	66		329		
			Low	62		272		
ARNU123M1A4	12.3	High (factory set)	High	86	0.24	392	0.08	0.59
			Mid	82		328		
			Low	78		262		
		Standard	High	71	0.10	399	0.08	0.59
			Mid	67		344		
			Low	63		286		
ARNU153M1A4	15.4	High (factory set)	High	98	0.24	570	0.08	0.59
			Mid	86		392		
			Low	82		328		
		Standard	High	86	0.10	593	0.08	0.59
			Mid	72		413		
			Low	67		344		
ARNU183M1A4	19.1	High (factory set)	High	103	0.24	638	0.08	0.59
			Mid	97		556		
			Low	86		392		
		Standard	High	87	0.10	606	0.08	0.59
			Mid	78		493		
			Low	72		413		
ARNU243M1A4	24.2	High (factory set)	High	108	0.24	703	0.08	0.59
			Mid	103		638		
			Low	97		556		
		Standard	High	92	0.10	641	0.08	0.59
			Mid	87		592		
			Low	77		493		

The table above shows the available E.S.P. range.

External Static Pressure Ranges for ARNU283~423M2A4 units

Table 67: ARNU283~423M2A4 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in wg)	CFM	Min. ESP (in wg)	Max. ESP (in wg)
ARNU283M2A4	28.0	High (Factory Set)	High	101	0.24	845	0.16	0.71
			Mid	95		676		
			Low	90		528		
		Standard	High	99	0.20	892	0.16	0.71
			Mid	94		770		
			Low	89		645		
ARNU363M2A4	36.0	High (Factory Set)	High	109	0.24	1031	0.16	0.71
			Mid	101		845		
			Low	95		676		
		Standard	High	105	0.20	1021	0.16	0.71
			Mid	97		844		
			Low	92		695		
ARNU423M2A4	42.0	High (Factory Set)	High	120	0.24	1260	0.16	0.71
			Mid	111		1076		
			Low	103		888		
		Standard	High	117	0.20	1262	0.16	0.71
			Mid	108		1087		
			Low	103		917		

The table above shows the available E.S.P. range.

External Static Pressure Ranges for ARNU483~543M3A4 units

Table 68: ARNU483~543M3A4 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in wg)	CFM	Min. ESP (in wg)	Max. ESP (in wg)
ARNU483M3A4	48.0	High (Factory Set)	High	92	0.23	1482	0.16	0.79
			Mid	84		1191		
			Low	79		918		
		Standard	High	89	0.19	1457	0.16	0.79
			Mid	82		1189		
			Low	76		952		
ARNU543M3A4	54.0	High (Factory Set)	High	100	0.23	1744	0.16	0.79
			Mid	96		1614		
			Low	92		1482		
		Standard	High	97	0.19	1720	0.16	0.79
			Mid	92		1558		
			Low	88		1424		

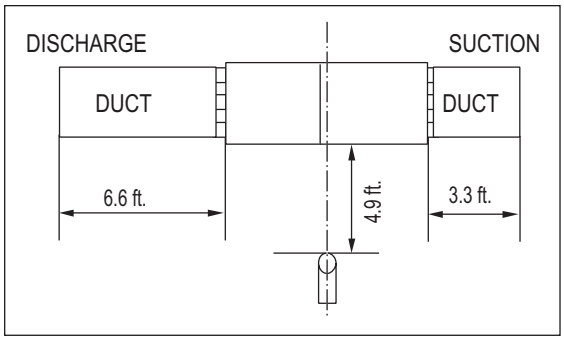
The table above shows the available E.S.P. range.

DUCTED MID STATIC

Acoustic Data

Sound Pressure Levels

Figure 31: Sound Pressure Measurement Location.



- Measurements are taken 4.9 ft away from the front of the unit.
- Sound pressure levels are measured in dB(A) with a tolerance of ±3.
- Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

Operating Conditions:

- Power source: 220V/60 Hz
- Sound level will vary depending on a range of factors including the construction (acoustic absorption coefficient) of a particular room in which the unit was installed.

Sound Pressure for M1 Units.

Table 69: M1 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels [dB(A), H-M-L]		
	External Static Pressure [in wg]		
	0.10	0.24	0.59
ARNU073M1A4	26-24-23	27-24-23	33-28-25
ARNU093M1A4	27-25-23	27-25-23	33-29-26
ARNU123M1A4	27-25-23	28-25-23	33-30-27
ARNU153M1A4	30-27-23	30-27-24	37-33-30
ARNU183M1A4	31-28-25	32-29-27	37-34-29
ARNU243M1A4	32-29-26	33-30-28	38-35-32

Sound Pressure for ARNU283~423M2A4 Units.

Table 70: M2 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.71
ARNU283M2A4	40-39-41	40-39-38	40-39-37	48-48-49
ARNU363M2A4	41-40-41	42-40-38	42-40-38	48-48-48
ARNU423M2A4	46-44-41	45-43-41	44-43-40	49-48-48

Sound Pressure for ARNU483~543M3A4 Units.

Table 71: M3 Indoor Unit Sound Pressure Levels.

Model	Sound Pressure Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.79
ARNU483M3A4	40-38-37	41-39-36	42-39-37	47-45-46
ARNU543M3A4	44-42-40	44-42-41	44-43-42	47-47-47

Sound Power for M1 Units

Table 72: M1 Indoor Unit Sound Power Levels.

Model	Sound Power Levels [dB(A), H-M-L]		
	External Static Pressure [in wg]		
	0.10	0.24	0.59
ARNU073M1A4	40-39-38	44-41-39	50-48-47
ARNU093M1A4	41-39-39	44-42-39	50-49-47
ARNU123M1A4	42-40-39	44-43-40	50-50-48
ARNU153M1A4	46-42-40	47-43-43	53-50-50
ARNU183M1A4	47-45-42	49-47-43	53-52-50
ARNU243M1A4	48-47-46	51-49-47	54-53-52

- Data is valid under diffuse field conditions.
- Data is valid under nominal operating conditions.
- Sound power level is measured using rated conditions, and tested in a reverberation room per ISO 3741 standards.
- Sound level will vary depending on a range of factors such as construction (acoustic absorption coefficient) of particular area in which the equipment is installed.
- Reference acoustic intensity: 0dB = 10E-6μW/m^2

Sound Power for ARNU283~423M2A4 Units

Table 73: M2 Indoor Unit Sound Power Levels.

Model	Sound Power Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.71
ARNU283M2A4	62-60-59	62-60-59	64-61-57	73-70-69
ARNU363M2A4	62-61-58	63-62-60	65-62-60	75-73-70
ARNU423M2A4	64-63-62	65-64-63	66-65-63	77-75-73

Sound Power for ARNU483~543M3A4 Units

Table 74: M3 Indoor Unit Sound Power Levels.

Model	Sound Power Levels [dB(A), H-M-L]			
	External Static Pressure [in wg]			
	0.16	0.20	0.24	0.79
ARNU483M3A4	64-63-62	66-63-62	67-64-62	71-70-70
ARNU543M3A4	67-66-64	68-67-65	69-68-67	71-71-71

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound Power Level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M1A4	RETURN OPENING	H	0.1	690	372	54	54	51	42	38	33	26	20
		M		650	315	54	49	51	42	36	30	23	18
		L		610	257	53	48	48	40	33	27	19	14
	CASING RADIATED	H		690	372	52	51	41	38	32	25	12	8
		M		650	315	51	50	39	38	29	24	11	8
		L		610	257	52	51	37	36	27	23	10	5
	DUCTED DISCHARGE	H		690	372	60	55	49	44	41	37	29	21
		M		650	315	58	52	50	42	40	35	27	17
		L		610	257	56	50	48	39	36	30	21	11
ARNU093M1A4	RETURN OPENING	H	0.1	700	385	54	54	52	44	40	35	28	22
		M		660	329	54	51	50	43	37	31	24	19
		L		620	272	53	48	49	41	34	27	20	14
	CASING RADIATED	H		700	385	52	51	42	40	32	27	15	7
		M		660	329	51	49	39	38	30	25	12	9
		L		620	272	52	51	37	37	28	23	10	4
	DUCTED DISCHARGE	H		700	385	61	56	49	45	42	38	30	22
		M		660	329	59	53	48	43	39	34	27	19
		L		620	272	57	50	47	39	37	31	22	11
ARNU123M1A4	RETURN OPENING	H	0.1	710	399	54	54	53	44	40	35	29	23
		M		670	344	54	52	51	41	37	33	26	19
		L		630	286	53	50	50	41	35	29	21	16
	CASING RADIATED	H		710	399	52	51	43	40	34	29	16	10
		M		670	344	52	50	40	39	30	25	11	9
		L		630	286	52	51	37	37	28	23	11	6
	DUCTED DISCHARGE	H		710	399	61	56	50	47	44	40	33	25
		M		670	344	59	54	49	43	41	35	28	19
		L		630	286	58	51	48	41	38	33	24	14
ARNU153M1A4	RETURN OPENING	H	0.1	860	593	60	59	55	51	45	43	40	36
		M		720	413	54	54	53	44	40	35	29	23
		L		670	344	54	52	51	41	37	33	26	19
	CASING RADIATED	H		860	593	55	53	47	44	39	35	29	22
		M		720	413	52	51	43	40	34	29	16	10
		L		670	344	52	50	40	39	30	25	11	9
	DUCTED DISCHARGE	H		860	593	68	63	60	56	53	51	49	44
		M		720	413	61	56	50	47	44	40	33	25
		L		670	344	59	54	49	43	41	35	28	19

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound Power Level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M1A4	RETURN OPENING	H	0.1	870	606	60	62	59	53	49	45	41	35
		M		780	493	53	53	50	47	43	40	36	35
		L		720	413	54	54	53	44	40	35	29	23
	CASING RADIATED	H		870	606	56	55	47	46	41	37	29	20
		M		780	493	55	53	45	45	38	32	26	20
		L		720	413	52	51	43	40	34	29	16	10
	DUCTED DISCHARGE	H		870	606	69	64	58	55	54	50	47	44
		M		780	493	67	61	57	55	54	48	46	43
		L		720	413	61	56	50	47	44	40	33	25
ARNU243M1A4	RETURN OPENING	H	0.1	920	641	61	63	59	53	50	47	42	36
		M		870	592	58	60	57	53	49	45	41	33
		L		770	493	56	58	55	49	46	42	37	32
	CASING RADIATED	H		920	641	59	55	49	46	43	37	31	23
		M		870	592	56	55	47	44	41	35	30	21
		L		770	493	56	55	47	44	38	32	26	16
	DUCTED DISCHARGE	H		920	641	69	65	61	56	54	52	49	44
		M		870	592	67	62	58	55	54	50	47	42
		L		770	493	65	62	55	53	52	46	44	38

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan Speed	E.S.P	RPM	CFM	Sound Power Level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M1A4	RETURN OPENING	H	0.24	840	361	57	58	54	46	41	36	29	21
		M		790	279	56	60	49	40	38	33	25	16
		L		750	211	56	61	45	36	36	30	22	13
	CASING RADIATED	H		840	361	56	55	45	41	36	31	25	11
		M		790	279	54	53	41	38	32	27	13	2
		L		750	211	52	52	37	35	28	23	4	2
	DUCTED DISCHARGE	H		840	361	64	59	56	51	47	43	38	30
		M		790	279	60	57	48	48	43	37	30	20
		L		750	211	57	56	41	46	39	33	24	12
ARNU093M1A4	RETURN OPENING	H	0.24	850	376	57	58	53	45	41	35	28	19
		M		800	296	56	59	50	41	39	33	26	17
		L		760	229	56	61	46	37	37	31	23	14
	CASING RADIATED	H		850	376	56	55	43	41	35	30	22	13
		M		800	296	54	54	41	38	33	28	15	4
		L		760	229	52	52	38	36	29	24	6	3
	DUCTED DISCHARGE	H		850	376	64	59	58	51	48	44	39	31
		M		800	296	61	58	50	48	44	39	32	22
		L		760	229	58	57	43	46	40	34	25	14
ARNU123M1A4	RETURN OPENING	H	0.24	860	392	57	58	53	45	41	36	29	20
		M		820	328	57	59	52	44	40	34	27	19
		L		780	262	56	60	48	39	38	32	24	16
	CASING RADIATED	H		860	392	57	55	44	41	35	30	22	11
		M		820	328	55	54	43	40	34	29	20	7
		L		780	262	53	53	40	37	31	26	11	4
	DUCTED DISCHARGE	H		860	392	64	59	56	51	48	44	39	31
		M		820	328	62	58	53	49	45	41	35	26
		L		780	262	59	57	46	47	42	36	28	18
ARNU153M1A4	RETURN OPENING	H	0.24	980	570	56	60	57	50	49	44	39	32
		M		860	392	57	58	53	45	41	36	29	20
		L		820	328	57	59	52	44	40	34	27	19
	CASING RADIATED	H		980	570	57	53	47	44	43	37	31	21
		M		860	392	56	54	44	41	35	30	22	11
		L		820	328	55	54	43	40	34	29	20	7
	DUCTED DISCHARGE	H		980	570	70	65	60	56	55	51	49	44
		M		860	392	64	59	56	51	48	44	39	31
		L		820	328	62	58	53	49	45	41	35	26

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan Speed	E.S.P	RPM	CFM	Sound Power Level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M1A4	RETURN OPENING	H	0.24	1030	638	60	62	59	51	51	47	43	37
		M		970	556	58	60	57	49	48	44	39	31
		L		860	392	57	58	53	45	41	36	29	20
	CASING RADIATED	H		1030	638	58	53	49	46	45	39	35	26
		M		970	556	56	52	47	44	43	37	31	21
		L		860	392	56	54	44	41	35	30	22	11
	DUCTED DISCHARGE	H		1030	638	71	66	62	57	56	52	51	46
		M		970	556	70	64	60	55	54	51	49	43
		L		860	392	64	59	56	51	48	44	39	31
ARNU243M1A4	RETURN OPENING	H	0.24	1080	703	61	63	61	53	54	49	46	40
		M		1030	638	60	62	59	51	51	47	43	37
		L		970	556	58	60	57	49	48	44	39	31
	CASING RADIATED	H		1080	703	59	55	51	48	47	41	38	30
		M		1030	638	58	53	49	46	45	39	35	26
		L		970	556	56	52	47	44	43	37	31	21
	DUCTED DISCHARGE	H		1080	703	73	67	63	58	58	54	53	49
		M		1030	638	71	66	62	57	56	52	51	46
		L		970	556	70	64	60	55	54	51	49	43

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan Speed	E.S.P	RPM	CFM	Sound Power Level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU073M1A4	RETURN OPENING	H	0.59	1240	455	64	66	62	52	51	47	41	34
		M		1180	296	65	65	61	50	48	43	37	29
		L		1140	176	64	64	59	48	46	40	33	25
	CASING RADIATED	H		1240	455	64	57	51	47	44	40	34	28
		M		1180	296	65	56	50	45	42	37	31	25
		L		1140	176	65	55	48	43	39	35	28	22
	DUCTED DISCHARGE	H		1240	455	72	67	62	56	56	51	47	41
		M		1180	296	69	64	59	53	52	47	42	34
		L		1140	176	67	62	56	50	49	43	38	29
ARNU093M1A4	RETURN OPENING	H	0.59	1250	479	64	66	62	52	52	47	42	35
		M		1190	324	65	65	61	51	49	44	38	30
		L		1150	207	64	65	60	49	46	41	34	26
	CASING RADIATED	H		1250	479	64	57	51	47	45	40	35	28
		M		1190	324	65	56	50	46	42	38	32	26
		L		1150	207	65	55	48	44	40	35	29	23
	DUCTED DISCHARGE	H		1250	479	72	67	62	56	56	52	48	42
		M		1190	324	70	65	59	53	53	48	43	36
		L		1150	207	67	63	57	51	50	44	39	30
ARNU123M1A4	RETURN OPENING	H	0.59	1250	479	64	66	62	52	52	47	42	35
		M		1210	378	65	66	61	51	50	45	40	32
		L		1170	267	65	65	60	50	48	43	36	28
	CASING RADIATED	H		1250	479	64	57	51	47	45	40	35	28
		M		1210	378	65	57	51	46	43	39	33	27
		L		1170	267	65	56	49	45	41	37	30	24
	DUCTED DISCHARGE	H		1250	479	72	67	62	56	56	52	48	42
		M		1210	378	70	66	60	55	54	49	45	38
		L		1170	267	69	64	58	52	51	46	41	33
ARNU153M1A4	RETURN OPENING	H	0.59	1350	681	62	67	64	55	56	52	48	41
		M		1250	479	64	66	62	52	52	47	42	35
		L		1210	378	65	66	61	51	50	45	40	32
	CASING RADIATED	H		1350	681	62	58	53	50	49	44	39	32
		M		1250	479	64	57	51	47	45	40	35	28
		L		1210	378	65	57	51	46	43	39	33	27
	DUCTED DISCHARGE	H		1350	681	75	71	67	61	62	58	56	52
		M		1250	479	72	67	62	56	56	52	48	42
		L		1210	378	70	66	60	55	54	49	45	38

DUCTED MID STATIC

Acoustic Data

Sound Power Data for M1 Units

Model	Rating	Fan Speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU183M1A4	RETURN OPENING	H	0.59	1360	698	63	67	64	55	56	52	48	42
		M		1320	628	63	66	64	54	55	50	46	40
		L		1250	479	64	66	62	52	52	47	42	35
	CASING RADIATED	H		1360	698	63	58	53	50	49	44	39	32
		M		1320	628	63	58	53	49	47	43	38	31
		L		1250	479	64	57	51	47	45	40	35	28
	DUCTED DISCHARGE	H		1360	698	76	71	67	61	62	58	56	52
		M		1320	628	74	70	65	60	60	56	54	49
		L		1250	479	72	67	62	56	56	52	48	42
ARNU243M1A4	RETURN OPENING	H	0.59	1380	728	63	67	64	56	56	52	48	42
		M		1340	664	62	66	64	55	56	51	47	41
		L		1300	589	63	66	63	54	54	49	45	38
	CASING RADIATED	H		1380	728	63	59	54	50	49	44	39	32
		M		1340	664	63	58	53	49	48	43	38	32
		L		1300	589	63	58	52	49	47	42	37	30
	DUCTED DISCHARGE	H		1380	728	76	72	67	61	62	59	56	53
		M		1340	664	75	71	66	61	61	58	55	51
		L		1300	589	74	69	64	59	59	55	52	47

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU283~423M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M2A4	RETURN OPENING	H	0.16	960	933	43	48	48	51	51	46	40	34
		M		920	853	42	47	47	51	50	45	39	34
		L		880	770	43	42	52	48	46	40	34	27
	CASING RADIATED	H		960	933	40	44	47	46	47	44	36	30
		M		920	853	39	43	45	45	46	42	35	29
		L		880	770	44	40	47	41	41	36	29	21
	DUCTED DISCHARGE	H		960	933	45	47	49	54	55	51	45	43
		M		920	853	44	45	48	53	54	50	44	42
		L		880	770	45	42	54	50	50	46	39	33
ARNU363M2A4	RETURN OPENING	H	0.16	1010	1030	44	49	49	53	52	47	41	36
		M		930	873	42	47	47	51	50	46	39	34
		L		880	770	43	42	52	48	46	40	34	27
	CASING RADIATED	H		1010	1030	42	45	48	48	49	45	37	32
		M		930	873	39	43	46	46	46	43	35	29
		L		880	770	44	40	47	41	41	36	29	21
	DUCTED DISCHARGE	H		1010	1030	46	48	51	55	57	53	47	44
		M		930	873	44	46	49	53	54	50	45	42
		L		880	770	45	42	54	50	50	46	39	33
ARNU423M2A4	RETURN OPENING	H	0.16	1170	1328	43	56	53	56	56	52	47	43
		M		1080	1169	41	53	50	53	54	49	44	40
		L		1000	1010	44	48	48	52	52	47	41	35
	CASING RADIATED	H		1170	1328	40	59	49	50	51	48	41	37
		M		1080	1169	36	55	46	46	47	44	38	33
		L		1000	1010	42	45	48	48	48	45	37	31
	DUCTED DISCHARGE	H		1170	1328	50	54	56	59	61	57	53	52
		M		1080	1169	47	52	53	57	58	55	50	49
		L		1000	1010	46	48	51	55	56	52	47	44

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU283~423M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M2A4	RETURN OPENING	H	0.20	990	892	44	47	48	52	52	47	40	35
		M		940	770	43	48	47	51	50	44	38	31
		L		890	645	42	47	46	50	49	43	37	30
	CASING RADIATED	H		990	892	41	45	48	47	48	44	37	29
		M		940	770	40	45	48	45	45	41	32	27
		L		890	645	38	43	46	43	44	39	31	25
	DUCTED DISCHARGE	H		990	892	50	49	50	55	55	51	45	42
		M		940	770	51	47	50	53	53	49	43	37
		L		890	645	50	45	49	51	52	48	41	36
ARNU363M2A4	RETURN OPENING	H	0.20	1050	1021	40	51	50	53	53	48	42	37
		M		970	844	44	46	48	52	52	46	40	34
		L		910	695	42	48	47	51	49	44	38	30
	CASING RADIATED	H		1050	1021	36	50	49	48	50	45	39	32
		M		970	844	41	44	47	47	48	44	36	28
		L		910	695	39	44	47	44	44	40	32	26
	DUCTED DISCHARGE	H		1050	1021	52	48	53	56	57	53	48	46
		M		970	844	50	48	50	54	55	51	45	42
		L		910	695	51	46	49	52	53	48	42	36
ARNU423M2A4	RETURN OPENING	H	0.20	1170	1262	44	55	53	56	57	52	46	41
		M		1080	1087	41	52	50	54	54	49	43	38
		L		1000	917	44	47	48	53	52	47	41	35
	CASING RADIATED	H		1170	1262	40	55	54	52	54	50	43	36
		M		1080	1087	37	52	50	49	51	46	40	33
		L		1000	917	42	45	48	48	49	45	37	29
	DUCTED DISCHARGE	H		1170	1262	55	52	57	59	61	57	52	49
		M		1080	1087	53	49	54	57	58	54	49	47
		L		1000	917	51	49	51	55	56	52	46	42

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU283~423M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M2A4	RETURN OPENING	H	0.24	1010	845	40	50	48	52	52	46	41	35
		M		950	676	43	46	47	50	50	44	38	32
		L		900	528	43	46	46	50	50	44	38	32
	CASING RADIATED	H		1010	845	37	45	46	46	48	43	36	28
		M		950	676	38	40	45	44	45	40	33	25
		L		900	528	39	41	46	45	45	41	34	26
	DUCTED DISCHARGE	H		1010	845	55	50	50	53	55	51	45	42
		M		950	676	53	47	48	52	53	49	43	39
		L		900	528	52	46	47	51	52	48	42	38
ARNU363M2A4	RETURN OPENING	H	0.24	1090	1031	41	55	49	53	54	49	43	38
		M		1010	845	40	50	48	52	52	46	41	35
		L		950	676	43	46	47	50	50	44	38	32
	CASING RADIATED	H		1090	1031	37	57	48	48	50	46	39	34
		M		1010	845	37	45	46	46	48	43	36	28
		L		950	676	38	40	45	44	45	40	33	25
	DUCTED DISCHARGE	H		1090	1031	54	52	52	56	58	54	49	47
		M		1010	845	55	50	50	53	55	51	45	42
		L		950	676	53	47	48	52	53	49	43	39
ARNU423M2A4	RETURN OPENING	H	0.24	1200	1260	47	53	54	56	57	52	48	43
		M		1110	1076	42	54	51	54	55	50	45	40
		L		1030	888	39	53	48	52	52	47	42	37
	CASING RADIATED	H		1200	1260	45	52	52	52	54	50	44	40
		M		1110	1076	39	57	48	48	51	46	39	34
		L		1030	888	34	53	44	44	47	43	36	31
	DUCTED DISCHARGE	H		1200	1260	57	53	56	59	61	58	53	52
		M		1110	1076	53	53	53	57	59	55	50	48
		L		1030	888	53	50	51	55	57	53	47	45

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU283~423M2A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU283M2A4	RETURN OPENING	H	0.71	1480	969	53	60	63	64	66	59	52	46
		M		1440	835	50	57	61	62	64	56	50	43
		L		1420	768	49	56	60	60	62	55	49	42
	CASING RADIATED	H		1480	969	52	58	60	65	66	58	51	42
		M		1440	835	49	55	57	62	63	55	48	39
		L		1420	768	47	54	55	60	62	54	46	37
	DUCTED DISCHARGE	H		1480	969	69	66	64	67	68	67	60	51
		M		1440	835	67	63	61	64	66	65	57	49
		L		1420	768	66	62	60	63	65	64	56	48
ARNU363M2A4	RETURN OPENING	H	0.71	1500	1036	54	61	65	65	67	60	54	47
		M		1480	969	53	60	63	64	66	59	52	46
		L		1440	835	50	57	61	62	64	56	50	43
	CASING RADIATED	H		1500	1036	54	60	61	66	68	60	52	43
		M		1480	969	52	58	60	65	66	58	51	42
		L		1440	835	49	55	57	62	63	55	48	39
	DUCTED DISCHARGE	H		1500	1036	71	67	65	68	70	69	61	53
		M		1480	969	69	66	64	67	68	67	60	51
		L		1440	835	67	63	61	64	66	65	57	49
ARNU423M2A4	RETURN OPENING	H	0.71	1520	1084	55	62	66	67	69	61	55	48
		M		1500	1036	54	61	65	65	67	60	54	47
		L		1480	969	53	60	63	64	66	59	52	46
	CASING RADIATED	H		1520	1084	55	61	63	68	69	61	54	45
		M		1500	1036	54	60	61	66	68	60	52	43
		L		1480	969	52	58	60	65	66	58	51	42
	DUCTED DISCHARGE	H		1520	1084	72	68	66	69	71	70	62	54
		M		1500	1036	71	67	65	68	70	69	61	53
		L		1480	969	69	66	64	67	68	67	60	51

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU483~543M3A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU483M3A4	RETURN OPENING	H	0.16	830	1336	37	45	45	50	50	43	38	29
		M		780	1171	35	43	44	48	48	41	36	27
		L		740	1037	39	41	42	47	46	38	32	19
	CASING RADIATED	H		830	1336	30	39	43	45	42	39	34	25
		M		780	1171	29	37	42	44	41	38	32	23
		L		740	1037	42	36	39	41	37	34	29	22
	DUCTED DISCHARGE	H		830	1336	38	43	48	53	53	48	45	36
		M		780	1171	36	41	46	51	51	46	42	33
		L		740	1037	35	39	45	50	49	43	39	28
ARNU543M3A4	RETURN OPENING	H	0.16	940	1705	41	49	49	54	54	47	42	33
		M		900	1562	39	47	48	53	52	45	40	32
		L		820	1303	36	44	45	50	49	42	37	29
	CASING RADIATED	H		940	1705	34	43	47	49	46	43	38	29
		M		900	1562	33	41	46	47	45	42	36	27
		L		820	1303	30	38	43	45	42	39	33	24
	DUCTED DISCHARGE	H		940	1705	43	48	52	58	58	53	49	40
		M		900	1562	41	46	51	56	56	51	48	39
		L		820	1303	38	43	47	53	53	47	44	35

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU483~543M3A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU483M3A4	RETURN OPENING	H	0.20	890	1457	38	46	48	52	52	45	41	34
		M		820	1189	36	44	45	49	49	43	39	31
		L		760	952	33	41	43	47	47	40	36	29
	CASING RADIATED	H		890	1457	36	42	44	47	45	41	36	36
		M		820	1189	34	40	42	45	42	39	35	27
		L		760	952	32	38	40	43	41	37	33	25
	DUCTED DISCHARGE	H		890	1457	48	44	51	55	55	51	49	44
		M		820	1189	45	41	48	52	52	48	46	41
		L		760	952	42	38	46	50	50	45	43	38
ARNU543M3A4	RETURN OPENING	H	0.20	970	1720	39	49	51	55	55	49	45	39
		M		920	1558	39	48	50	54	55	48	44	39
		L		880	1424	38	46	48	52	52	45	41	34
	CASING RADIATED	H		970	1720	35	45	48	50	48	45	35	35
		M		920	1558	34	44	47	49	47	44	39	32
		L		880	1424	36	42	44	46	44	41	37	29
	DUCTED DISCHARGE	H		970	1720	47	47	53	59	59	55	53	49
		M		920	1558	46	46	53	58	58	54	52	49
		L		880	1424	47	43	51	55	55	50	48	43

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU483~543M3A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU483M3A4	RETURN OPENING	H	0.24	920	1482	38	46	48	52	52	45	41	34
		M		840	1191	39	44	46	50	50	43	38	30
		L		790	918	37	43	44	48	48	41	37	28
	CASING RADIATED	H		920	1482	33	43	46	47	44	42	37	28
		M		840	1191	36	38	43	45	42	39	33	23
		L		790	918	35	37	42	44	41	38	32	22
	DUCTED DISCHARGE	H		920	1482	44	45	51	55	56	51	48	42
		M		840	1191	39	42	49	53	54	48	45	38
		L		790	918	37	41	47	51	52	46	43	36
ARNU543M3A4	RETURN OPENING	H	0.24	1000	1744	41	49	51	55	57	50	47	42
		M		960	1614	40	48	49	53	56	49	45	40
		L		920	1482	38	46	48	52	52	45	41	34
	CASING RADIATED	H		1000	1744	36	46	50	51	50	46	42	36
		M		960	1614	34	44	48	49	48	45	40	34
		L		920	1482	33	43	46	47	44	42	37	28
	DUCTED DISCHARGE	H		1000	1744	52	49	54	60	61	56	55	52
		M		960	1614	50	47	52	58	59	54	53	50
		L		920	1482	44	45	51	55	56	51	48	42

DUCTED MID STATIC

Acoustic Data

Sound Power Data for ARNU483~543M3A4 Units

Model	Rating	Fan speed	E.S.P	RPM	CFM	Sound power level, Lw (dB one reference picowatt)							
						63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ARNU483M3A4	RETURN OPENING	H	0.79	1280	1306	49	54	53	56	59	50	47	40
		M		1260	1214	48	53	53	56	58	50	46	40
		L		1200	868	48	53	52	55	58	49	46	39
	CASING RADIATED	H		1280	1306	47	51	50	52	52	50	45	38
		M		1260	1214	47	51	50	51	52	49	45	37
		L		1200	868	46	50	48	50	51	48	44	36
	DUCTED DISCHARGE	H		1280	1306	65	61	55	60	62	60	54	48
		M		1260	1214	65	61	55	60	61	59	54	47
		L		1200	868	65	60	55	59	61	59	54	47
ARNU543M3A4	RETURN OPENING	H	0.79	1320	1477	49	54	53	56	59	51	47	40
		M		1300	1398	49	54	53	56	59	50	47	40
		L		1280	1306	49	54	53	56	59	50	47	40
	CASING RADIATED	H		1320	1477	48	52	51	53	53	50	46	38
		M		1300	1398	47	52	50	52	52	50	45	38
		L		1280	1306	47	51	50	52	52	50	45	38
	DUCTED DISCHARGE	H		1320	1477	66	61	56	60	62	60	55	48
		M		1300	1398	66	61	56	60	62	60	55	48
		L		1280	1306	65	61	55	60	62	60	54	48

DUCTED MID STATIC

Cooling Capacity Tables

ARNU073M1A4

Table 75: ARNU073M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU073M1A4/ 7.5	-9.9	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	-5	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	0	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	5	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	10	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	14	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	20	4.9	4.4	6	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	23	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	25	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	30	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	35	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	40	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	45	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	50	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	55	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.7	6.1
	60	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.6	6.1
	65	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.4	6
	70	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.3	5.9
	75	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.1	9.1	5.8
	80	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.7	6.1	8.8	5.7
	85	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.3	6.1	8.4	5.8	8.6	5.5
	90	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.2	6	8.3	5.7	8.4	5.5
	95	4.9	4.4	6.0	5.1	6.8	5.4	**7.5**	**5.8**	8.0	6	8.2	5.7	8.3	5.4
	100	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	7.9	5.9	8.0	5.6	8.2	5.4
	105	4.9	4.4	5.7	4.8	6.4	5.2	7.2	5.5	7.5	5.5	7.7	5.5	7.9	5.2
	110	4.8	4.3	5.4	4.6	6.0	4.8	6.8	5.2	7.1	5.2	7.3	5.2	7.7	5.1
	115	4.7	4.2	5.1	4.3	5.6	4.5	6.3	4.9	6.6	4.9	7	4.9	7.4	4.9
	118	4.6	4	4.9	4.1	5.4	4.3	6.1	4.7	6.3	4.7	6.7	4.7	7.1	4.7
	122	4.5	3.9	4.6	3.9	5.1	4	5.8	4.4	6	4.4	6.3	4.4	6.8	4.4

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU093M1A4

Table 76: ARNU093M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU093M1A4/ 9.5	-9.9	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	-5	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	0	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	5	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	10	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	14	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	20	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	23	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	25	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	30	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	35	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	40	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	45	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	50	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	55	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.4	8.1
	60	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.3	8
	65	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	12.1	7.9
	70	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	11.9	7.8
	75	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.4	8.1	11.6	7.6
	80	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.8	8.1	11.1	8	11.3	7.5
	85	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.6	8.1	10.8	7.7	11.0	7.2
	90	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.5	7.9	10.6	7.5	10.8	7.2
	95	6.3	5.8	7.7	6.7	8.6	7.1	**9.6**	**7.6**	10.3	7.9	10.5	7.5	10.6	7.1
	100	6.3	5.8	7.7	6.7	8.6	7.1	9.6	7.6	10.1	7.8	10.3	7.4	10.5	7
	105	6.3	5.8	7.3	6.3	8.2	6.8	9.2	7.2	9.6	7.2	9.9	7.2	10.2	6.9
	110	6.2	5.6	6.9	6	7.7	6.3	8.6	6.8	9.0	6.8	9.4	6.8	9.8	6.6
	115	6	5.5	6.6	5.7	7.2	6	8.1	6.5	8.5	6.5	8.9	6.5	9.4	6.4
	118	5.9	5.3	6.2	5.4	6.9	5.6	7.8	6.2	8.1	6.2	8.5	6.2	9	6.1
	122	5.7	5.1	5.9	5.1	6.5	5.3	7.4	5.8	7.7	5.8	8.1	5.8	8.7	5.8

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU123M1A4

Table 77: ARNU123M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU123M1A4/ 12.3	-9.9	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	-5	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	0	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	5	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	10	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	14	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	20	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	23	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	25	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	30	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	35	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	40	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	45	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	50	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	55	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.9	10.2
	60	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.7	10.1
	65	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.5	10
	70	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	15.3	9.8
	75	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.7	10.2	14.9	9.6
	80	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.8	10.3	14.2	10.1	14.5	9.5
	85	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.6	10.2	13.8	9.7	14.0	9.2
	90	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	13.4	10	13.5	9.5	13.8	9.1
	95	8.1	7.3	9.8	8.5	11.1	9	**12.3**	**9.6**	13.2	10	13.4	9.5	13.6	8.9
	100	8.1	7.3	9.8	8.5	11.1	9	12.3	9.6	12.9	9.8	13.2	9.4	13.4	8.9
	105	8.1	7.3	9.3	8	10.6	8.6	11.8	9.2	12.3	9.2	12.7	9.1	13.0	8.7
	110	7.9	7.1	8.9	7.6	9.8	8	11.1	8.6	11.6	8.6	12.0	8.6	12.6	8.4
	115	7.7	6.9	8.4	7.2	9.2	7.6	10.4	8.2	10.9	8.2	11.4	8.2	12.1	8.1
	118	7.5	6.7	8	6.9	8.8	7.1	10	7.8	10.4	7.8	10.9	7.8	11.6	7.7
	122	7.3	6.5	7.6	6.5	8.3	6.7	9.4	7.4	9.8	7.4	10.3	7.4	11.1	7.4

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC
Cooling Capacity Tables
ARNU153M1A4

Table 78: ARNU153M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU153M1A4/ 15.4	-9.9	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	-5	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	0	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	5	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	10	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	14	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	20	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	23	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	25	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	30	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	35	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	40	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	45	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	50	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	55	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.9	12.8
	60	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.7	12.7
	65	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.4	12.5
	70	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	19.1	12.3
	75	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	18.4	12.8	18.6	12
	80	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.3	12.9	17.8	12.7	18.2	11.9
	85	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	17.1	12.8	17.3	12.1	17.6	11.5
	90	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	16.8	12.6	16.9	11.9	17.3	11.3
	95	10.1	9.2	12.3	10.6	13.9	11.3	**15.4**	**12.0**	16.5	12.5	16.8	11.9	17.1	11.2
	100	10.1	9.2	12.3	10.6	13.9	11.3	15.4	12.0	16.2	12.3	16.5	11.7	16.8	11.1
	105	10.1	9.2	11.7	10.1	13.2	10.8	14.8	11.5	15.4	11.5	15.8	11.3	16.3	10.9
	110	9.9	8.9	11.1	9.5	12.3	10.1	13.9	10.8	14.5	10.8	15.1	10.8	15.7	10.5
	115	9.6	8.6	10.5	9	11.6	9.5	13	10.3	13.6	10.3	14.3	10.3	15.1	10.1
	118	9.4	8.4	10	8.6	11	8.9	12.5	9.7	13	9.7	13.7	9.7	14.5	9.7
	122	9.1	8.1	9.5	8.1	10.4	8.4	11.8	9.2	12.3	9.2	12.9	9.2	13.9	9.2

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU183M1A4

Table 79: ARNU183M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU183M1A4/ 19.1	-9.9	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	-5	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	0	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	5	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	10	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	14	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	20	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	23	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	25	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	30	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	35	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	40	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	45	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	50	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	55	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.7	14.8
	60	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.4	14.7
	65	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	24.0	14.5
	70	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	23.7	14.3
	75	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.8	14.8	23.1	13.9
	80	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.4	15	22.1	14.7	22.5	13.9
	85	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	21.2	14.8	21.4	14.1	21.8	13.3
	90	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	20.9	14.6	21.0	13.9	21.4	13.2
	95	12.6	10.7	15.3	12.3	17.2	13.1	**19.1**	**13.9**	20.5	14.5	20.9	13.8	21.2	13
	100	12.6	10.7	15.3	12.3	17.2	13.1	19.1	13.9	20.1	14.3	20.5	13.6	20.9	12.9
	105	12.6	10.7	14.5	11.7	16.4	12.5	18.3	13.3	19.0	13.3	19.7	13.2	20.2	12.6
	110	12.3	10.3	13.8	11	15.3	11.7	17.2	12.5	18.0	12.5	18.7	12.5	19.5	12.2
	115	12	10	13.1	10.5	14.4	11	16.2	11.9	16.9	11.9	17.8	11.9	18.7	11.7
	118	11.7	9.7	12.4	10	13.6	10.3	15.5	11.3	16.1	11.3	17	11.3	18	11.3
	122	11.3	9.4	11.8	9.5	12.9	9.7	14.7	10.7	15.3	10.7	16	10.7	17.2	10.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC
Cooling Capacity Tables
ARNU243M1A4

Table 80: ARNU243M1A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU243M1A4/ 24.3	-9.9	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	-5	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	0	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	5	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	10	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	14	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	20	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	23	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	25	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	30	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	35	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	40	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	45	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	50	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	55	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.3	18.8
	60	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	31.0	18.7
	65	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	30.5	18.4
	70	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	30.0	18.1
	75	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.8	18.8	29.2	17.7
	80	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	27.1	19	28.0	18.7	28.5	17.6
	85	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	26.8	18.8	27.1	17.9	27.6	16.9
	90	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	26.4	18.5	26.6	17.6	27.1	16.7
	95	15.9	13.5	19.4	15.6	21.8	16.6	**24.2**	**17.7**	25.9	18.4	26.4	17.5	26.8	16.5
	100	15.9	13.5	19.4	15.6	21.8	16.6	24.2	17.7	25.4	18.1	25.9	17.3	26.4	16.4
	105	15.9	13.5	18.4	14.8	20.8	15.9	23.2	16.9	24.1	16.9	24.9	16.7	25.6	16
	110	15.5	13.1	17.4	14	19.4	14.8	21.8	15.9	22.8	15.9	23.7	15.9	24.7	15.5
	115	15.1	12.7	16.6	13.3	18.2	13.9	20.5	15.1	21.4	15.1	22.5	15.1	23.7	14.9
	118	14.8	12.3	15.7	12.6	17.3	13.1	19.7	14.3	20.4	14.3	21.5	14.3	22.8	14.3
	122	14.4	11.9	15	12	16.3	12.3	18.6	13.6	19.4	13.6	20.3	13.6	21.9	13.6

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU283M2A4

Table 81: ARNU283M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU283M2A4/ 28.0	-9.9	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	-5	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	0	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	5	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	10	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	14	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	20	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	23	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	25	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	30	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	35	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	40	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	45	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	50	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	55	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	36.2	22.0
	60	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	35.8	21.9
	65	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	35.2	21.5
	70	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	34.8	21.2
	75	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	33.4	22.0	33.8	20.7
	80	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31.4	22.2	32.4	21.9	33	20.6
	85	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	31	22.0	31.4	21.0	32	19.8
	90	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	30.6	21.7	30.8	20.6	31.4	19.6
	95	18.4	15.8	22.4	18.3	25.2	19.4	**28**	**20.7**	30	21.5	30.6	20.5	31	19.3
	100	18.4	15.8	22.4	18.3	25.2	19.4	28	20.7	29.4	21.2	30	20.3	30.6	19.2
	105	18.4	15.8	21.2	17.3	24	18.6	26.8	19.8	27.9	19.8	28.8	19.6	29.6	18.7
	110	18	15.4	20.2	16.4	22.4	17.3	25.2	18.6	26.4	18.6	27.4	18.6	28.6	18.2
	115	17.5	14.9	19.2	15.6	21.1	16.3	23.7	17.7	24.8	17.7	26	17.7	27.4	17.4
	118	17.1	14.5	18.2	14.8	20	15.3	22.7	16.8	23.7	16.8	24.9	16.8	26.3	16.7
	122	16.6	14.0	17.3	14.0	18.9	14.4	21.5	16.0	22.4	16.0	23.5	16.0	25.3	16.0

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU363M2A4

Table 82: ARNU363M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU363M2A4/ 36.2	-9.9	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	-5	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	0	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	5	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	10	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	14	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	20	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	23	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	25	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	30	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	35	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	40	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	45	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	50	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	55	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.8	28.4
	60	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	46.3	28.3
	65	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	45.6	27.8
	70	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	44.9	27.4
	75	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	43.1	28.4	43.7	26.8
	80	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.6	28.7	41.9	28.3	42.7	26.6
	85	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	40.1	28.4	40.6	27.1	41.3	25.6
	90	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	39.5	28.0	39.8	26.6	40.6	25.3
	95	23.8	20.5	29	23.6	32.6	25.1	**36.2**	**26.8**	38.8	27.8	39.5	26.5	40.1	25.0
	100	23.8	20.5	29	23.6	32.6	25.1	36.2	26.8	38	27.4	38.8	26.2	39.5	24.8
	105	23.8	20.5	27.5	22.4	31.1	24.1	34.7	25.6	36.1	25.6	37.3	25.3	38.3	24.2
	110	23.2	19.9	26.1	21.2	29	22.4	32.6	24.1	34.1	24.1	35.4	24.1	37	23.5
	115	22.7	19.3	24.8	20.1	27.2	21.1	30.6	22.9	32	22.9	33.7	22.9	35.5	22.5
	118	22.1	18.7	23.5	19.1	25.8	19.8	29.4	21.7	30.6	21.7	32.1	21.7	34.1	21.6
	122	21.5	18.1	22.4	18.2	24.4	18.6	27.8	20.6	29	20.6	30.4	20.6	32.7	20.6

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU423M2A4

Table 83: ARNU423M2A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU423M2A4/ 42.0	-9.9	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	-5	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	0	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	5	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	10	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	14	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	20	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	23	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	25	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	30	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	35	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	40	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	45	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	50	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	55	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	54.3	33.0
	60	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	53.7	32.8
	65	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	52.9	32.3
	70	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	52.2	31.8
	75	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	50.1	33.0	50.8	31.1
	80	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	47.1	33.3	48.7	32.8	49.5	30.9
	85	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	46.6	33.0	47.1	31.4	48.0	29.7
	90	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	45.9	32.5	46.2	30.9	47.1	29.3
	95	27.7	23.7	33.6	27.4	37.8	29.2	**42.0**	**31.1**	45.0	32.3	45.9	30.7	46.6	29.0
	100	27.7	23.7	33.6	27.4	37.8	29.2	42.0	31.1	44.1	31.8	45.0	30.4	45.9	28.8
	105	27.7	23.7	31.9	26.0	36.1	27.9	40.3	29.7	41.9	29.7	43.2	29.3	44.5	28.1
	110	27.0	23.0	30.3	24.6	33.6	26.0	37.8	27.9	39.6	27.9	41.1	27.9	42.9	27.2
	115	26.3	22.4	28.8	23.4	31.6	24.5	35.5	26.5	37.2	26.5	39.1	26.5	41.2	26.1
	118	25.6	21.7	27.3	22.2	30.0	23.0	34.1	25.2	35.5	25.2	37.3	25.2	39.5	25.1
	122	24.9	21.0	26.0	21.1	28.4	21.6	32.3	23.9	33.6	23.9	35.3	23.9	37.9	23.9

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU483M3A4

Table 84: ARNU483M3A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU483M3A4/ 48.1	-9.9	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	-5	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	0	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	5	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	10	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	14	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	20	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	23	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	25	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	30	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	35	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	40	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	45	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	50	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	55	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	62.1	38.4
	60	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	61.5	38.2
	65	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	60.5	37.5
	70	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	59.7	36.9
	75	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	57.3	38.4	58.1	36.1
	80	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.9	38.8	55.7	38.2	56.7	35.9
	85	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	53.3	38.4	53.9	36.5	54.9	34.5
	90	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	52.5	37.7	52.9	35.9	53.9	34.1
	95	31.7	27.6	38.5	31.9	43.3	33.9	**48.1**	**36.1**	51.5	37.5	52.5	35.7	53.3	33.7
	100	31.7	27.6	38.5	31.9	43.3	33.9	48.1	36.1	50.5	36.9	51.5	35.3	52.5	33.5
	105	31.7	27.6	36.5	30.2	41.3	32.5	46.1	34.5	48.0	34.5	49.5	34.1	50.9	32.7
	110	30.9	26.8	34.7	28.6	38.5	30.2	43.3	32.5	45.3	32.5	47.1	32.5	49.1	31.7
	115	30.1	26.0	32.9	27.2	36.2	28.4	40.7	30.8	42.6	30.8	44.7	30.8	47.1	30.4
	118	29.3	25.2	31.3	25.8	34.3	26.7	39.1	29.3	40.6	29.3	42.7	29.3	45.3	29.2
	122	28.6	24.4	29.7	24.5	32.5	25.1	36.9	27.8	38.5	27.8	40.4	27.8	43.4	27.8

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Cooling Capacity Tables

ARNU543M3A4

Table 85: ARNU543M3A4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU543M3A4/ 54.0	-9.9	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	-5	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	0	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	5	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	10	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	14	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	20	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	23	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	25	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	30	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	35	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	40	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	45	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	50	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	55	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.8	44.7
	60	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	69.1	44.5
	65	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	68.0	43.8
	70	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	67.1	43.1
	75	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	64.4	44.7	65.3	42.1
	80	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	60.5	45.2	62.6	44.5	63.7	41.9
	85	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	59.9	44.7	60.5	42.6	61.7	40.2
	90	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	59.0	44.0	59.4	41.9	60.5	39.8
	95	35.6	32.2	43.2	37.2	48.6	39.5	**54.0**	**42.1**	57.8	43.8	59.0	41.6	59.9	39.3
	100	35.6	32.2	43.2	37.2	48.6	39.5	54.0	42.1	56.7	43.1	57.8	41.2	59.0	39.0
	105	35.6	32.2	41.0	35.3	46.4	37.9	51.8	40.2	53.8	40.2	55.6	39.8	57.2	38.1
	110	34.7	31.2	38.9	33.4	43.2	35.3	48.6	37.9	50.9	37.9	52.9	37.9	55.1	36.9
	115	33.8	30.3	37.0	31.7	40.6	33.1	45.7	36.0	47.8	36.0	50.2	36.0	52.9	35.4
	118	32.9	29.4	35.1	30.1	38.6	31.2	43.8	34.2	45.6	34.2	48.0	34.2	50.8	34.0
	122	32.1	28.5	33.4	28.6	36.5	29.3	41.5	32.4	43.2	32.4	45.4	32.4	48.8	32.4

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC
Heating Capacity Tables
ARNU073M1A4

Table 86: ARNU073M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU073M1A4/ 7.5	-21.6	-22.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	-17.1	-17.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	-12.6	-13	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3
	-7	-7.6	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4
	-4	-4.4	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6
	0	-0.4	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8
	5	4.5	6.6	6.6	6.5	6.5	6.5	6.5	6.5	6.5
	10	9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8
	15	14	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.1
	20	19	7.7	7.7	7.7	7.7	7.6	7.6	7.4	7.4
	25	23	8.1	8.1	8.1	8.1	8.1	7.9	7.8	7.4
	30	28	8.3	8.3	8.3	8.3	8.3	8.1	7.8	7.4
	35	32	8.5	8.5	8.5	8.5	8.4	8.3	7.8	7.4
	40	36	8.8	8.8	8.8	8.8	8.5	8.3	7.8	7.4
	45	41	9.2	9.2	9.2	8.9	8.5	8.3	7.8	7.4
	47	43	9.5	9.4	9.4	8.9	**8.5**	8.3	7.8	7.4
	50	46	10.2	9.8	9.4	8.9	8.5	8.3	7.8	7.4
	55	51	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4
	60	56	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Heating Capacity Tables

ARNU093M1A4

Table 87: ARNU093M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU093M1A4/ 9.5	-21.6	-22.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	-17.1	-17.5	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1
	-12.6	-13	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-7	-7.6	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0
	-4	-4.4	7.3	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	0	-0.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4
	5	4.5	8.5	8.4	8.3	8.3	8.3	8.3	8.3	8.3
	10	9	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.7
	15	14	9.4	9.4	9.4	9.4	9.4	9.4	9.3	9.2
	20	19	9.9	9.9	9.9	9.9	9.7	9.7	9.5	9.4
	25	23	10.4	10.4	10.4	10.4	10.4	10.1	10.0	9.5
	30	28	10.6	10.6	10.6	10.6	10.6	10.4	10.0	9.5
	35	32	10.9	10.9	10.9	10.9	10.8	10.6	10.0	9.5
	40	36	11.3	11.3	11.3	11.3	10.9	10.6	10.0	9.5
	45	41	11.8	11.8	11.8	11.5	10.9	10.6	10.0	9.5
	47	43	12.2	12.1	12.0	11.5	**10.9**	10.6	10.0	9.5
	50	46	13.1	12.5	12.0	11.5	10.9	10.6	10.0	9.5
	55	51	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5
	60	56	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 88: ARNU123M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU123M1A4/ 12.3	-21.6	-22.0	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-17.1	-17.5	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.6
	-12.6	-13	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5
	-7	-7.6	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.7
	-4	-4.4	9.1	9.1	9.1	9.1	9.0	9.0	9.0	9.0
	0	-0.4	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.3
	5	4.5	10.6	10.5	10.3	10.3	10.3	10.3	10.3	10.3
	10	9	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9
	15	14	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.4
	20	19	12.4	12.4	12.4	12.4	12.1	12.1	11.9	11.8
	25	23	12.9	12.9	12.9	12.9	12.9	12.7	12.5	11.9
	30	28	13.2	13.2	13.2	13.2	13.2	12.9	12.5	11.9
	35	32	13.6	13.6	13.6	13.6	13.5	13.2	12.5	11.9
	40	36	14.1	14.1	14.1	14.1	13.6	13.2	12.5	11.9
	45	41	14.7	14.7	14.7	14.3	13.6	13.2	12.5	11.9
	47	43	15.2	15.1	15.0	14.3	**13.6**	13.2	12.5	11.9
	50	46	16.3	15.6	15.0	14.3	13.6	13.2	12.5	11.9
	55	51	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9
	60	56	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Heating Capacity Tables

ARNU153M1A4

Table 89: ARNU153M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU153M1A4/ 15.4	-21.6	-22.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6
	-17.1	-17.5	9.7	9.7	9.7	9.7	9.6	9.6	9.6	9.6
	-12.6	-13	10.8	10.8	10.8	10.8	10.6	10.6	10.6	10.6
	-7	-7.6	11.1	11.1	11.1	11.1	10.9	10.9	10.9	10.9
	-4	-4.4	11.5	11.5	11.5	11.5	11.3	11.3	11.3	11.3
	0	-0.4	11.8	11.8	11.8	11.8	11.8	11.6	11.6	11.6
	5	4.5	13.3	13.2	13.0	13.0	13.0	13.0	13.0	13.0
	10	9	13.9	13.9	13.9	13.7	13.7	13.7	13.7	13.7
	15	14	14.7	14.7	14.7	14.7	14.7	14.7	14.5	14.4
	20	19	15.6	15.6	15.6	15.6	15.2	15.2	15.0	14.8
	25	23	16.3	16.3	16.3	16.3	16.3	15.9	15.7	15.0
	30	28	16.6	16.6	16.6	16.6	16.6	16.3	15.7	15.0
	35	32	17.1	17.1	17.1	17.1	16.9	16.6	15.7	15.0
	40	36	17.8	17.8	17.8	17.8	17.1	16.6	15.7	15.0
	45	41	18.5	18.5	18.5	18.0	17.1	16.6	15.7	15.0
	47	43	19.2	19.0	18.8	18.0	**17.1**	16.6	15.7	15.0
	50	46	20.5	19.7	18.8	18.0	17.1	16.6	15.7	15.0
	55	51	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0
	60	56	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 90: ARNU183M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU183M1A4/ 19.1	-21.6	-22.0	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8
	-17.1	-17.5	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.1
	-12.6	-13	13.6	13.6	13.6	13.6	13.4	13.4	13.4	13.4
	-7	-7.6	14.0	14.0	14.0	14.0	13.8	13.8	13.8	13.8
	-4	-4.4	14.4	14.4	14.4	14.4	14.2	14.2	14.2	14.2
	0	-0.4	14.8	14.8	14.8	14.8	14.8	14.6	14.6	14.6
	5	4.5	16.8	16.6	16.3	16.3	16.3	16.3	16.3	16.3
	10	9	17.4	17.4	17.4	17.2	17.2	17.2	17.2	17.2
	15	14	18.5	18.5	18.5	18.5	18.5	18.5	18.3	18.1
	20	19	19.6	19.6	19.6	19.6	19.1	19.1	18.8	18.6
	25	23	20.4	20.4	20.4	20.4	20.4	20.0	19.8	18.8
	30	28	20.9	20.9	20.9	20.9	20.9	20.4	19.8	18.8
	35	32	21.5	21.5	21.5	21.5	21.3	20.9	19.8	18.8
	40	36	22.4	22.4	22.4	22.4	21.5	20.9	19.8	18.8
	45	41	23.2	23.2	23.2	22.6	21.5	20.9	19.8	18.8
	47	43	24.1	23.9	23.7	22.6	**21.5**	20.9	19.8	18.8
	50	46	25.8	24.7	23.7	22.6	21.5	20.9	19.8	18.8
	55	51	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8
	60	56	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Heating Capacity Tables

ARNU243M1A4

Table 91: ARNU243M1A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU243M1A4/ 24.3	-21.6	-22.0	13.9	13.9	13.9	13.9	13.7	13.7	13.7	13.7
	-17.1	-17.5	15.5	15.5	15.5	15.5	15.3	15.3	15.3	15.3
	-12.6	-13	17.2	17.2	17.2	17.2	17.0	17.0	17.0	17.0
	-7	-7.6	17.8	17.8	17.8	17.8	17.5	17.5	17.5	17.5
	-4	-4.4	18.3	18.3	18.3	18.3	18.0	18.0	18.0	18.0
	0	-0.4	18.8	18.8	18.8	18.8	18.8	18.6	18.6	18.6
	5	4.5	21.3	21.0	20.8	20.8	20.8	20.8	20.8	20.8
	10	9	22.1	22.1	22.1	21.8	21.8	21.8	21.8	21.8
	15	14	23.5	23.5	23.5	23.5	23.5	23.5	23.2	22.9
	20	19	24.8	24.8	24.8	24.8	24.3	24.3	23.9	23.6
	25	23	25.9	25.9	25.9	25.9	25.9	25.4	25.1	23.9
	30	28	26.5	26.5	26.5	26.5	26.5	25.9	25.1	23.9
	35	32	27.3	27.3	27.3	27.3	27.0	26.5	25.1	23.9
	40	36	28.4	28.4	28.4	28.4	27.3	26.5	25.1	23.9
	45	41	29.5	29.5	29.5	28.7	27.3	26.5	25.1	23.9
	47	43	30.6	30.3	30.0	28.7	**27.3**	26.5	25.1	23.9
	50	46	32.8	31.4	30.0	28.7	27.3	26.5	25.1	23.9
	55	51	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9
	60	56	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC
Heating Capacity Tables
ARNU283M2A4

Table 92: ARNU283M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU283M2A4/ 28.0	-21.6	-22.0	16.0	16.0	16.0	16.0	15.8	15.8	15.8	15.8
	-17.1	-17.5	17.9	17.9	17.9	17.9	17.7	17.7	17.7	17.7
	-12.6	-13	19.9	19.9	19.9	19.9	19.6	19.6	19.6	19.6
	-7	-7.6	20.5	20.5	20.5	20.5	20.2	20.2	20.2	20.2
	-4	-4.4	21.1	21.1	21.1	21.1	20.8	20.8	20.8	20.8
	0	-0.4	21.7	21.7	21.7	21.7	21.7	21.4	21.4	21.4
	5	4.5	24.6	24.3	23.9	23.9	23.9	23.9	23.9	23.9
	10	9	25.5	25.5	25.5	25.2	25.2	25.2	25.2	25.2
	15	14	27.1	27.1	27.1	27.1	27.1	27.1	26.8	26.5
	20	19	28.7	28.7	28.7	28.7	28.0	28.0	27.6	27.3
	25	23	29.9	29.9	29.9	29.9	29.9	29.3	29.0	27.6
	30	28	30.6	30.6	30.6	30.6	30.6	29.9	29.0	27.6
	35	32	31.5	31.5	31.5	31.5	31.2	30.6	29.0	27.6
	40	36	32.8	32.8	32.8	32.8	31.5	30.6	29.0	27.6
	45	41	34.0	34.0	34.0	33.1	31.5	30.6	29.0	27.6
	47	43	35.3	35.0	34.7	33.1	**31.5**	30.6	29.0	27.6
	50	46	37.8	36.2	34.7	33.1	31.5	30.6	29.0	27.6
	55	51	38.6	36.5	34.7	33.1	31.5	30.6	29.0	27.6
	60	56	38.6	36.5	34.7	33.1	31.5	30.6	29.0	27.6

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Heating Capacity Tables

ARNU363M2A4

Table 93: ARNU363M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU363M2A4/ 36.2	-21.6	-22.0	20.6	20.6	20.6	20.6	20.3	20.3	20.3	20.3
	-17.1	-17.5	23.1	23.1	23.1	23.1	22.8	22.8	22.8	22.8
	-12.6	-13	25.6	25.6	25.6	25.6	25.2	25.2	25.2	25.2
	-7	-7.6	26.4	26.4	26.4	26.4	26.0	26.0	26.0	26.0
	-4	-4.4	27.2	27.2	27.2	27.2	26.8	26.8	26.8	26.8
	0	-0.4	28.0	28.0	28.0	28.0	28.0	27.6	27.6	27.6
	5	4.5	31.7	31.3	30.9	30.9	30.9	30.9	30.9	30.9
	10	9	32.9	32.9	32.9	32.5	32.5	32.5	32.5	32.5
	15	14	34.9	34.9	34.9	34.9	34.9	34.9	34.5	34.1
	20	19	37.0	37.0	37.0	37.0	36.1	36.1	35.5	35.1
	25	23	38.6	38.6	38.6	38.6	38.6	37.8	37.4	35.5
	30	28	39.4	39.4	39.4	39.4	39.4	38.6	37.4	35.5
	35	32	40.6	40.6	40.6	40.6	40.2	39.4	37.4	35.5
	40	36	42.2	42.2	42.2	42.2	40.6	39.4	37.4	35.5
	45	41	43.9	43.9	43.9	42.6	40.6	39.4	37.4	35.5
	47	43	45.5	45.1	44.7	42.6	**40.6**	39.4	37.4	35.5
	50	46	48.7	46.7	44.7	42.6	40.6	39.4	37.4	35.5
	55	51	49.7	47.1	44.7	42.6	40.6	39.4	37.4	35.5
	60	56	49.7	47.1	44.7	42.6	40.6	39.4	37.4	35.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 94: ARNU423M2A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU423M2A4/ 42.0	-21.6	-22.0	23.8	23.8	23.8	23.8	23.5	23.5	23.5	23.5
	-17.1	-17.5	26.7	26.7	26.7	26.7	26.3	26.3	26.3	26.3
	-12.6	-13	29.6	29.6	29.6	29.6	29.2	29.2	29.2	29.2
	-7	-7.6	30.6	30.6	30.6	30.6	30.1	30.1	30.1	30.1
	-4	-4.4	31.5	31.5	31.5	31.5	31.0	31.0	31.0	31.0
	0	-0.4	32.4	32.4	32.4	32.4	32.4	32.0	32.0	32.0
	5	4.5	36.7	36.2	35.7	35.7	35.7	35.7	35.7	35.7
	10	9	38.1	38.1	38.1	37.6	37.6	37.6	37.6	37.6
	15	14	40.4	40.4	40.4	40.4	40.4	40.4	40.0	39.5
	20	19	42.8	42.8	42.8	42.8	41.8	41.8	41.1	40.7
	25	23	44.7	44.7	44.7	44.7	44.7	43.7	43.2	41.1
	30	28	45.6	45.6	45.6	45.6	45.6	44.7	43.2	41.1
	35	32	47.0	47.0	47.0	47.0	46.5	45.6	43.2	41.1
	40	36	48.9	48.9	48.9	48.9	47.0	45.6	43.2	41.1
	45	41	50.8	50.8	50.8	49.4	47.0	45.6	43.2	41.1
	47	43	52.6	52.2	51.7	49.4	**47.0**	45.6	43.2	41.1
	50	46	56.4	54.1	51.7	49.4	47.0	45.6	43.2	41.1
	55	51	57.6	54.5	51.7	49.4	47.0	45.6	43.2	41.1
	60	56	57.6	54.5	51.7	49.4	47.0	45.6	43.2	41.1

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED MID STATIC

Heating Capacity Tables

ARNU483M3A4

Table 95: ARNU483M3A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU483M3A4/ 48.1	-21.6	-22.0	27.5	27.5	27.5	27.5	27.1	27.1	27.1	27.1
	-17.1	-17.5	30.8	30.8	30.8	30.8	30.4	30.4	30.4	30.4
	-12.6	-13	34.1	34.1	34.1	34.1	33.7	33.7	33.7	33.7
	-7	-7.6	35.2	35.2	35.2	35.2	34.7	34.7	34.7	34.7
	-4	-4.4	36.3	36.3	36.3	36.3	35.8	35.8	35.8	35.8
	0	-0.4	37.4	37.4	37.4	37.4	37.4	36.9	36.9	36.9
	5	4.5	42.3	41.7	41.2	41.2	41.2	41.2	41.2	41.2
	10	9	43.9	43.9	43.9	43.4	43.4	43.4	43.4	43.4
	15	14	46.6	46.6	46.6	46.6	46.6	46.6	46.1	45.5
	20	19	49.3	49.3	49.3	49.3	48.2	48.2	47.4	46.9
	25	23	51.5	51.5	51.5	51.5	51.5	50.4	49.9	47.4
	30	28	52.6	52.6	52.6	52.6	52.6	51.5	49.9	47.4
	35	32	54.2	54.2	54.2	54.2	53.7	52.6	49.9	47.4
	40	36	56.4	56.4	56.4	56.4	54.2	52.6	49.9	47.4
	45	41	58.5	58.5	58.5	56.9	54.2	52.6	49.9	47.4
	47	43	60.7	60.2	59.6	56.9	**54.2**	52.6	49.9	47.4
	50	46	65.0	62.3	59.6	56.9	54.2	52.6	49.9	47.4
	55	51	66.4	62.9	59.6	56.9	54.2	52.6	49.9	47.4
	60	56	66.4	62.9	59.6	56.9	54.2	52.6	49.9	47.4

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 96: ARNU543M3A4 Heating Capacity Table.

Model No./ Capacity Index	Outdoor air temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
ARNU543M3A4/ 54.0	-21.6	-22.0	31.1	31.1	31.1	31.1	30.7	30.7	30.7	30.7
	-17.1	-17.5	34.9	34.9	34.9	34.9	34.4	34.4	34.4	34.4
	-12.6	-13	38.7	38.7	38.7	38.7	38.1	38.1	38.1	38.1
	-7	-7.6	39.9	39.9	39.9	39.9	39.3	39.3	39.3	39.3
	-4	-4.4	41.1	41.1	41.1	41.1	40.5	40.5	40.5	40.5
	0	-0.4	42.4	42.4	42.4	42.4	42.4	41.8	41.8	41.8
	5	4.5	47.9	47.3	46.7	46.7	46.7	46.7	46.7	46.7
	10	9	49.7	49.7	49.7	49.1	49.1	49.1	49.1	49.1
	15	14	52.8	52.8	52.8	52.8	52.8	52.8	52.2	51.6
	20	19	55.9	55.9	55.9	55.9	54.7	54.7	53.7	53.1
	25	23	58.3	58.3	58.3	58.3	58.3	57.1	56.5	53.7
	30	28	59.6	59.6	59.6	59.6	59.6	58.3	56.5	53.7
	35	32	61.4	61.4	61.4	61.4	60.8	59.6	56.5	53.7
	40	36	63.9	63.9	63.9	63.9	61.4	59.6	56.5	53.7
	45	41	66.3	66.3	66.3	64.5	61.4	59.6	56.5	53.7
	47	43	68.8	68.2	67.5	64.5	**61.4**	59.6	56.5	53.7
	50	46	73.7	70.6	67.5	64.5	61.4	59.6	56.5	53.7
	55	51	75.2	71.2	67.5	64.5	61.4	59.6	56.5	53.7
	60	56	75.2	71.2	67.5	64.5	61.4	59.6	56.5	53.7

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Optional Accessories

Table 97: Optional Accessories for Ducted Mid Static Indoor Units.

Accessory	Model Number
High Efficiency Filter Box	ZFBXM101A (For 7~24MBh M1 Ducted Mid Static Indoor Units) ZFBXM201A (For 24~42MBh M2 Ducted Mid Static Indoor Units) ZFBXM301A (For 48~54MBh M3 Ducted Mid Static Indoor Units)

All accessories are sold separately.

CEILING-CONCEALED DUCTED LOW STATIC

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External Dimensions on page 143
Electrical Wiring Diagrams on page 144
Refrigerant Flow Diagrams on page 148
External Static Pressure and Air Flow on page 149
External Static Pressure Ranges on page 151
Acoustic Data on page 152
Capacity Tables on page 155

DUCTED LOW STATIC
Mechanical Specifications

Casing
The case is a low profile design with a maximum height of eight inches designed to mount concealed above the finished ceiling. Fan supply air is front horizontal with a rear horizontal field convertible to a bottom return. The unit is manufactured with coated metal. Cold surfaces are covered with a polystyrene insulating material. The case is provided with hanger brackets designed to support the unit weight on four corners. Hanger brackets have pre-punched holes designed to accept field supplied all-thread rod hangers.

Fan Assembly and Control
The unit has Sirocco fans made of high strength ABS HT-700 polymeric resin. Fans are directly driven and mounted on a common shaft. The fan motor is a Brushless Digitally-Controlled (BLDC) design with permanently lubricated and sealed ball bearings. The fan motor includes thermal, overcurrent and low RPM protection. The fan/motor assembly is mounted on vibration attenuating rubber grommets. The fan impeller is statically and dynamically balanced. The fan speed is controlled using a microprocessor based direct digital control algorithm that provides a high fan speed in cooling thermal ON and low fan speed in cooling thermal OFF, high fan speed in heating thermal ON and fan off in heating thermal OFF. The fan speeds can be field adjusted between low, medium, and high speeds and DIP switch settings will allow the fan to run constantly during defrost or oil return modes. Each setting can be field adjusted from the factory setting (RPM / ESP) to compensate for resistance to airflow caused by field connected ductwork or other airflow restricting devices.

Air Filter
Return air is filtered with a removable, washable filter with anti-fungal treatment.

Microprocessor Controls
The unit is provided with an integrated microprocessor-based controller. The controller is capable of performing functions necessary to operate the system without the use of a wall-mounted controller. A temperature thermistor is factory-mounted in the return air stream. All unit operation parameters, excluding the unit operating schedule, are stored in non-volatile memory resident on the unit microprocessor. Operating schedules are stored in select models of the optional, wall-mounted, local, or central controller. The field-supplied communication cable between the indoor unit(s) and outdoor unit is to be a minimum of 18 AWG, 2 conductor, stranded and shielded cable (RS-485), terminated via screw terminals on the control boards. The microprocessor control provides the following functions: auto addressing, self-diagnostics, auto restart following power restoration, test run, and will operate the indoor unit using one of five operating modes:

1. Auto Changeover (Heat Recovery only)
2. Heating
3. Cooling
4. Dry
5. Fan Only

For Heat Recovery systems the Auto Changeover setting automatically switches control of the indoor unit between cooling and heating modes based on space temperature conditions.

For Heat Pump systems, heated or cooled air delivery is dependent upon outdoor unit operating mode.

In Heating mode, the microprocessor control will activate the indoor unit when indoor room temperature falls below set-point temperature and signals the outdoor unit to begin heating cycle. The indoor unit fan operation is delayed until coil pipe temperature reaches 76ºF. Significant airflow is generated when pipe temperature reaches 80°F. In lieu of factory return air thermistor, screw terminals on the microprocessor circuit board accommodate various models of wall-mounted local controllers and/or a wall-mounted remote temperature sensor. The unit microprocessor is capable of accepting space temperature readings concurrently or individually from either:

1. Wall-mounted wired controller(s)
2. Factory mounted return air thermistor or the optional wall-mounted wired remote temperature sensor.

A single indoor unit has the capability of being controlled by up to two local wired controllers. The microprocessor controls space temperature using the value provided by the temperature sensor sensing a space temperature that is farthest away from the temperature set-point. The microprocessor control provides a cooling or heating mode test cycle that operates the unit for 18 minutes without regard to the space temperature. If the system is provided with an optional wall-mounted or central controller, displayed diagnostic codes are specific, alpha numeric, and provide the service technician with a reason for the code displayed.

Condensate Lift / Pump
The indoor unit is provided with a factory installed and wired condensate lift / pump capable of providing a maximum 27.5 inch lift from the bottom exterior surface of the unit casing. The lift pump comes with a safety switch that will shut off indoor unit if condensate rises too high in the drain pan.

Condensate Drain Pan
The condensate drain pan is constructed of high impact polystyrene resin (HIPS).

Coil
The indoor unit coil is constructed with grooved design copper tubes with slit coil fins, 2 to 3 rows, 18 to 21 fins per inch.

Controls Features
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- External on / off control
- Dual thermistor control
- Dual set-point control
- Filter life display
- Multiple auxiliary heater applications
- Group control
- Wi-Fi compatible
- Auto fan
- Leak detection
- External static pressure control
- Hot start
- Self diagnostics
- Timer (on / off)
- Weekly schedule
- Fan speed control
- Ventilation (outside air)

**To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.*

DUCTED LOW STATIC

General Data

L1, L2, L3 Units

Table 98: Ducted Low Static (L1, L2, L3 Frames) Indoor Unit General Data.

Model No.	ARNU073L1G4	ARNU093L1G4	ARNU123L2G4	ARNU153L2G4	ARNU183L2G4	ARNU243L3G4
Cooling Mode Performance						
Capacity (Btu/h)	7,500	9,600	12,300	15,400	19,100	24,000
Max Power Input[1] (W)	40	40	85	85	85	115
L/M/H Power Input at Factory Default (W)	24 / 28 / 31	24 / 29 / 39	29 / 34 / 41	34 / 41 / 56	41 / 56 / 71	48 / 63 / 103
Heating Mode Performance						
Capacity (Btu/h)	8,500	10,900	13,600	17,100	21,500	27,300
Max Power Input[1] (W)	40	40	85	85	85	115
L/M/H Power Input at Factory Default (W)	24 / 28 / 31	24 / 29 / 39	29 / 34 / 41	34 / 41 / 56	41 / 56 / 71	48 / 63 / 103
Entering Mixed Air						
Cooling Max. (°F WB)[2]	76	76	76	76	76	76
Heating Min. (°F DB)[2]	59	59	59	59	59	59
Unit Data						
Refrigerant Type[3]	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV	EEV	EEV	EEV
Sound Pressure[4] dB(A) (H/M/L)	27 / 26 / 23	30 / 26 / 23	31 / 29 / 26	34 / 31 / 29	36 / 34 / 31	39 / 35 / 32
Net Unit Weight (lbs.)	38.6	38.6	50.7	50.7	50.7	59.5
Shipping Weight (lbs.)	47.4	47.4	60.6	60.6	60.6	68.3
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Fan						
Type	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco
Motor	1	1	2	2	2	2
Housing	2	2	3	3	3	4
Motor/Drive	Brushless Digitally Controlled / Direct					
Airflow Rate H/M/L (CFM) Standard Mode	270 / 230 / 200	320 / 250 / 200	360 / 310 / 250	450 / 360 / 310	530 / 450 / 360	710 / 570 / 430
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	270 / 230 / 200	320 / 250 / 200	360 / 310 / 250	450 / 360 / 310	530 / 450 / 360	710 / 570 / 430
External Static Pressure (in. wg) Standard Mode	0	0	0	0	0	0
External Static Pressure (in. wg) High Mode (Factory Set)	0.1	0.1	0.1	0.1	0.1	0.1
Piping						
Liquid Line (in., O.D.)	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare	1/4 Flare	3/8 Flare
Vapor Line (in., O.D.)	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare	1/2 Flare	5/8 Flare
Condensate Line (in., I.D.)	1	1	1	1	1	1

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

All capacities are net with a combination ratio between 95-105%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max. power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

DUCTED LOW STATIC
Electrical Data

Table 99: Ducted Low Static (L1, L2, L3 Frames) Indoor Unit Electrical Data.

Model	Voltage Range	MCA	MOP	Rated Amps (A)	Power Supply			Power Input[1] (W)		
					Hz	Volts	Phase	Max. Cooling	Max. Heating	L / M / H at Factory Default
L1 Units										
ARNU073L1G4	208-230	0.5	15	0.4	60	208-230	1	40	40	24 / 28 / 31
ARNU093L1G4		0.5		0.4				40	40	24 / 29 / 39
L2 Units										
ARNU123L2G4	208-230	1.0	15	0.76	60	208-230	1	85	85	29 / 34 / 41
ARNU153L2G4		1.0		0.76				85	85	34 / 41 / 56
ARNU183L2G4		1.0		0.76				85	85	41 / 56 / 71
L3 Units										
ARNU243L3G4	208-230	1.2	15	0.97	60	208-230	1	115	115	48 / 63 / 103

MCA : Minimum Circuit Ampacity.

MOP : Maximum Overcurrent Protection.

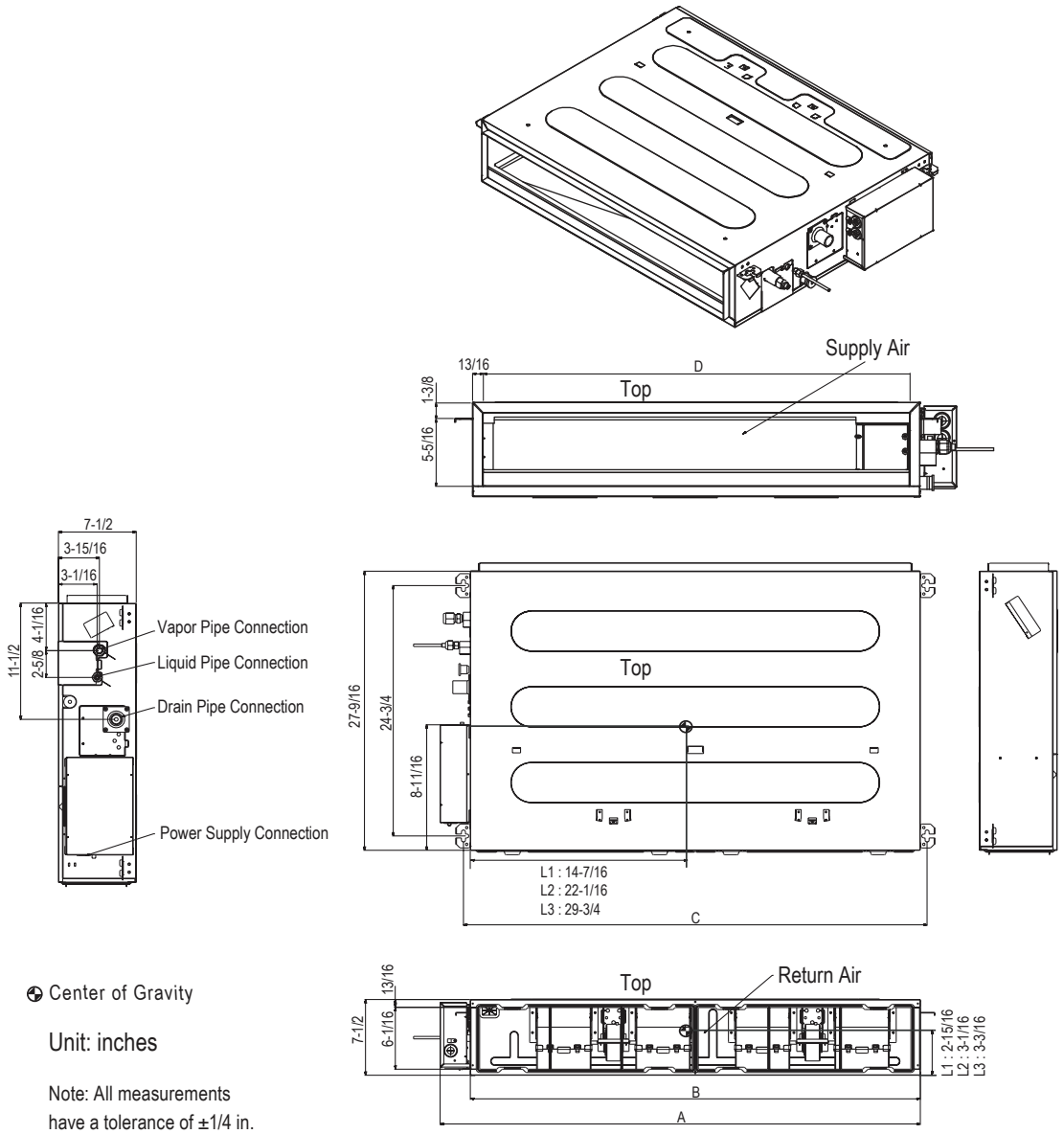
Units are suitable for use on an electrical system where voltage supplied to unit terminals is within the listed range limits.

Select wire size based on the larger MCA value.

Instead of fuse, use the circuit breaker.

[1]Max. power input is rated at maximum setting value.

Figure 32: ARNU073-093L1G4, ARNU123~183L2G4, ARNU243L3G4 Dimensions.



	A	B	C	D	Supply Duct Connection					Return Duct Connection				
					Type	Height	Width	Flange Width	Flange Depth	Opening Location	Height	Width	Flange Width	Flange Depth
ARNU073L1G4 ARNU093L1G4	30-1/2	27-9/16	28-7/8	26	Flange	5-7/8	26	13/16	5/8	Rear	6-1/8	26	3/4	No Flange
										Bottom	6-1/16	26	3/4	No Flange
ARNU123L2G4 ARNU153L2G4 ARNU183L2G4	38-3/8	35-7/16	36-3/4	33-7/8	Flange	5-7/8	33-13/16	13/16	5/8	Rear	6-1/8	33-11/16	3/4	No Flange
										Bottom	6-1/16	33-11/16	3/4	No Flange
ARNU243L3G4	46-1/4	43-5/16	44-5/8	41-3/4	Flange	5-7/8	41-3/4	13/16	5/8	Rear	6-1/8	41-11/16	3/4	No Flange
										Bottom	6-1/16	41-11/16	3/4	No Flange

DUCTED LOW STATIC
Electrical Wiring Diagram
L1 Units

Figure 33: ARNU073L1G4, ARNU093L1G4 Wiring Diagram.

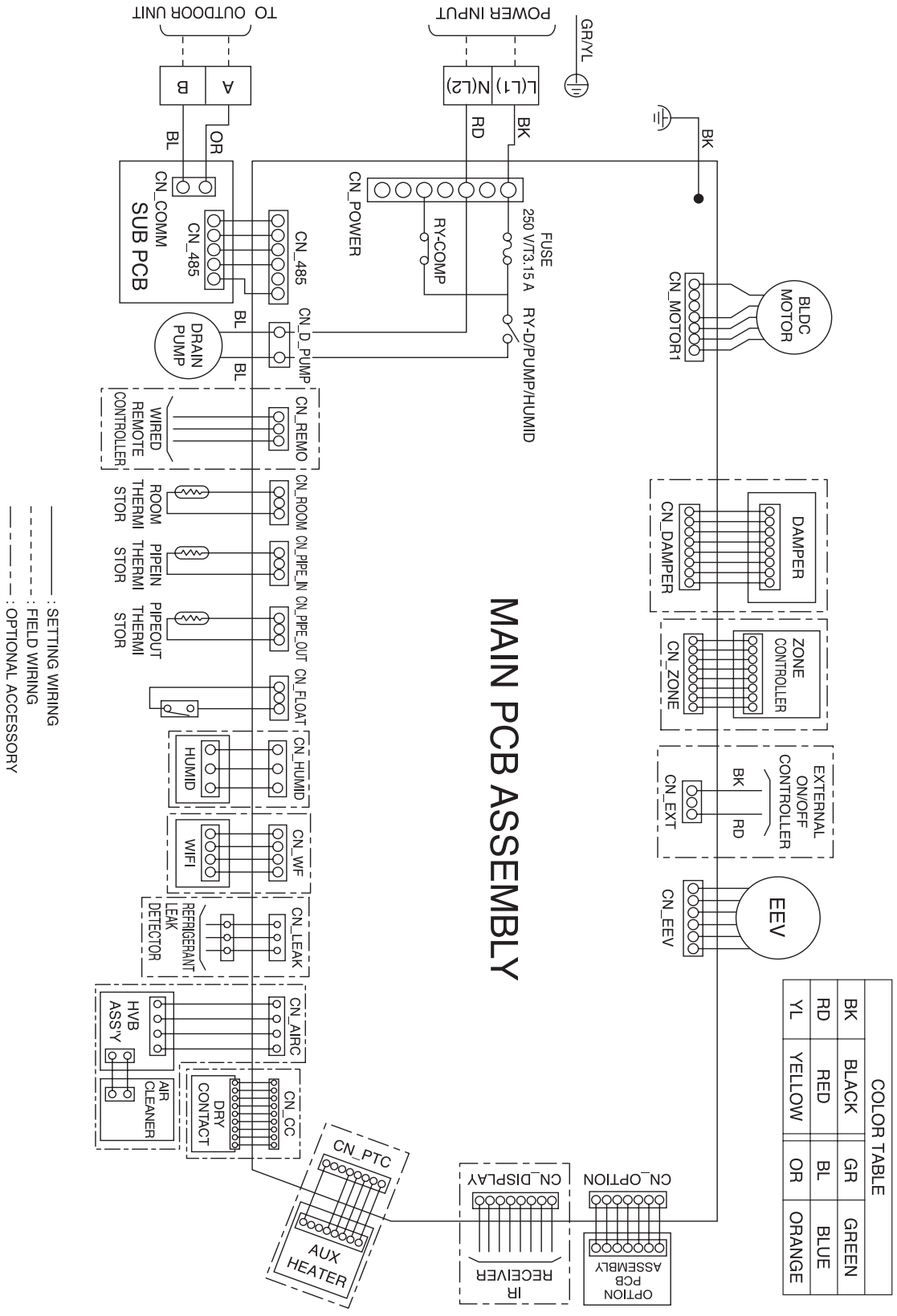


Table 100: L1 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-AIRC	N / A	N / A
CN-LEAK	Leak detector	Leak detector connection
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

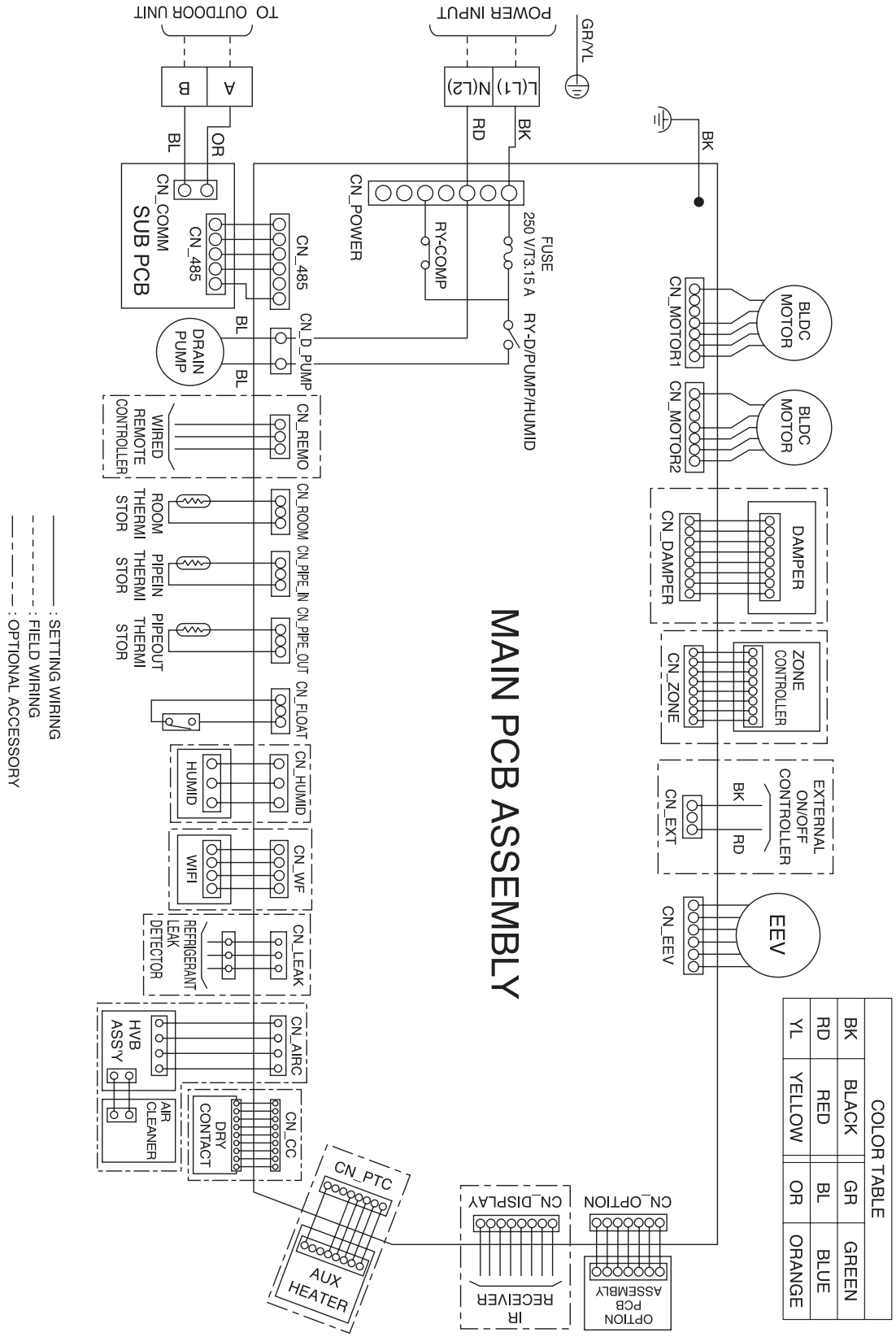
Table 101: L1 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV Engineering Manual for additional information.**

Figure 34: ARNU123L2G4, ARNU153L2G4, ARNU183L2G4, ARNU243L3G4 Wiring Diagram.



LG

Table 102: L2, L3 Unit Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-MOTOR2	Fan motor output	Motor output of BLDC
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External on / off controller	External on / off Controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Connection for Auxiliary Heater
CN-CC	Dry contact	Dry Contact connection
CN-AIRC	N / A	N / A
CN-LEAK	Leak detector	Leak detector connection
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE/OUT	Discharge pipe sensor	Pipe out thermistor
CN-PIPE/IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D/PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 103: L2, L3 Unit DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off

***For Gen 4 Multi V ducted indoor units, DIP switches 1, 2, 6 through 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV Engineering Manual for additional information.**

DUCTED LOW STATIC

Refrigerant Flow Diagram
L1, L2, L3 Units

Figure 35: L1, L2, L3 Unit Refrigerant Flow Diagram.

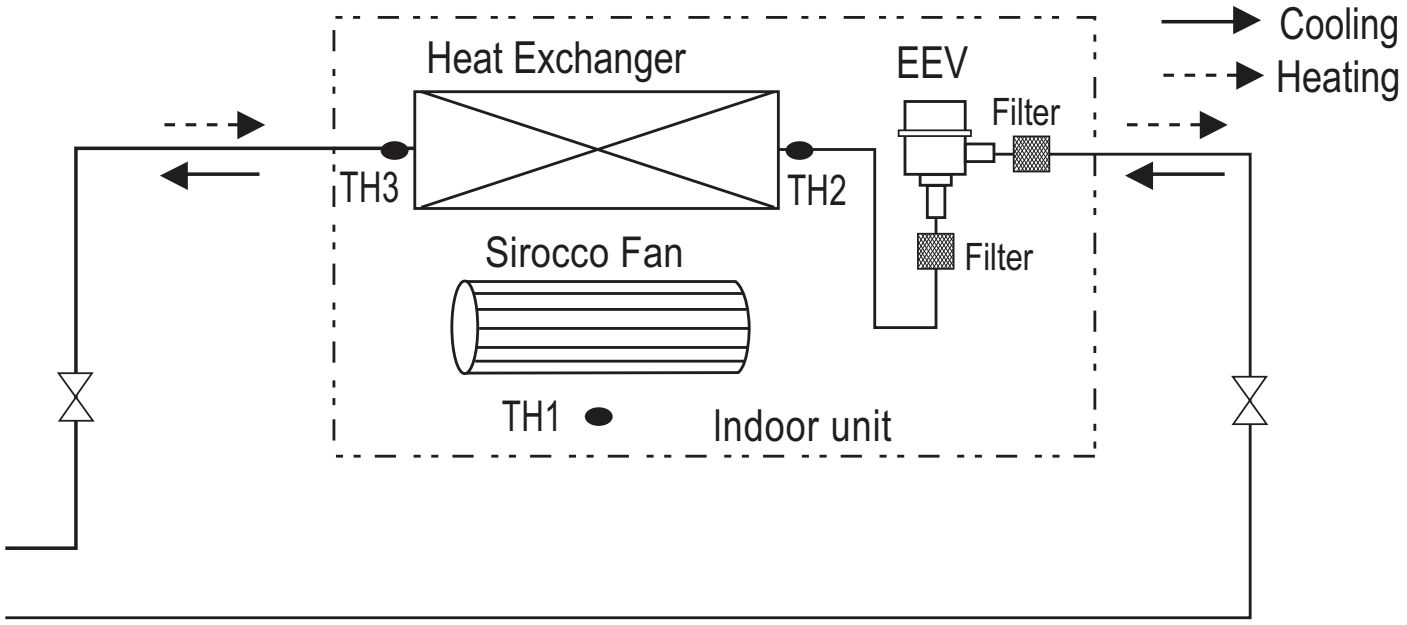


Table 104: L1, L2, L3 Unit Refrigerant Pipe Connection Port Diameters.

Model	Liquid (inch)	Vapor (inch)
L1 Units		
ARNU073L1G4	1/4 Flare	1/2 Flare
ARNU093L1G4		
L2 Units		
ARNU123L2G4	1/4 Flare	1/2 Flare
ARNU153L2G4		
ARNU183L2G4		
L3 Units		
ARNU243L3G4	3/8 Flare	5/8 Flare

Table 105: L1, L2, L3 Unit Thermistors.

Thermistor	Description
TH1	Return air thermistor
TH2	Pipe in thermistor
TH3	Pipe out thermistor

DUCTED LOW STATIC

External Static Pressure and Air Flow Tables

L1, L2, L3 Units

Table 106: L1 Unit External Static Pressure and Air Flow Table.

Set Value	Static Pressure (in. wg)					
	0	0.04	0.08	0.11	0.15	0.19
65	178	-	-	-	-	-
70	198	171	-	-	-	-
75	219	192	161	-	-	-
80	240	214	183	-	-	-
85	262	236	205	170	-	-
90	284	258	227	192	-	-
95	308	281	251	215	176	-
100	331	305	274	239	199	-
105	356	329	299	263	224	180
110	-	354	324	288	249	205
115	-	-	349	314	274	230
120	-	-	-	340	300	256
125	-	-	-	367	327	283
130	-	-	-	-	354	310

Table 107: L2 Unit External Static Pressure and Air Flow Table.

Set Value	Static Pressure (in. wg)					
	0	0.04	0.08	0.11	0.15	0.19
75	230	-	-	-	-	-
80	259	237	-	-	-	-
85	290	267	236	-	-	-
90	320	298	267	229	-	-
95	352	329	299	260	-	-
100	384	361	331	292	246	-
105	417	394	363	325	279	224
110	450	427	396	358	312	258
115	484	461	430	392	346	292
120	518	495	465	427	380	326
125	553	530	500	461	415	361
130	589	566	536	497	451	397
135	-	-	572	534	487	433

Table 108: L3 Unit External Static Pressure and Air Flow Table.

Set Value	Static Pressure (in. wg)					
	0	0.04	0.08	0.11	0.15	0.19
85	360	-	-	-	-	-
90	430	392	378	-	-	-
95	488	436	431	-	-	-
100	536	484	473	378	-	-
105	576	524	507	419	-	-
110	612	560	538	454	388	-
115	646	594	568	488	422	-
120	681	629	598	523	456	371
125	719	667	632	561	494	409
130	763	711	672	606	539	453
135	-	765	719	659	592	507
139	-	-	745	673	613	540

1. All static pressure air flow rates are listed in CFM.

2. The tables above show the correlation between air flow rates and external static pressure.

3. The tables above show the available external static pressure range.

Note:

If the external static pressure of the installed indoor unit is less than the lowest value (as mentioned in the table), the indoor unit components can fail.

DUCTED LOW STATIC

External Static Pressure and Air Flow Charts

L1, L2, L3 Units

Figure 36: L1 Unit External Static Pressure and Air Flow Chart.

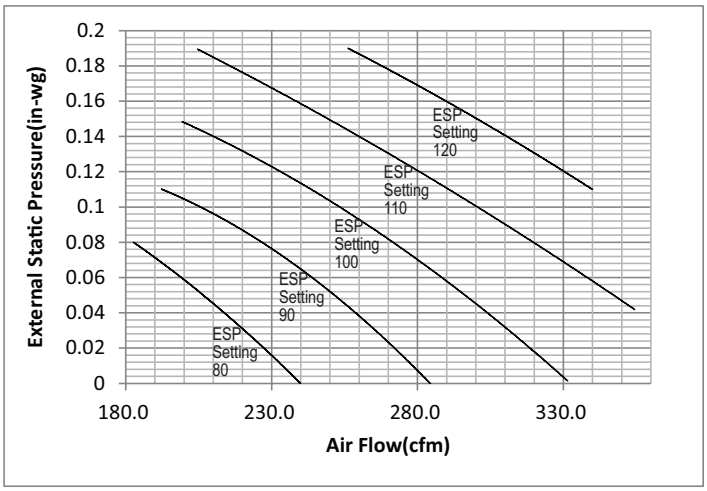


Figure 37: L2 Unit External Static Pressure and Air Flow Chart.

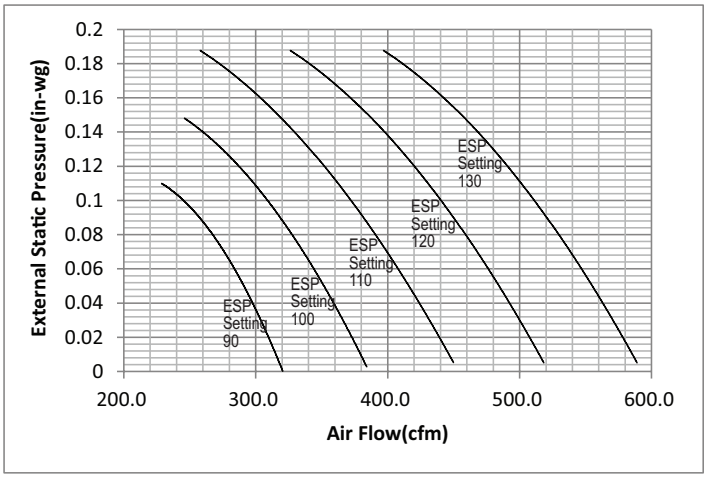
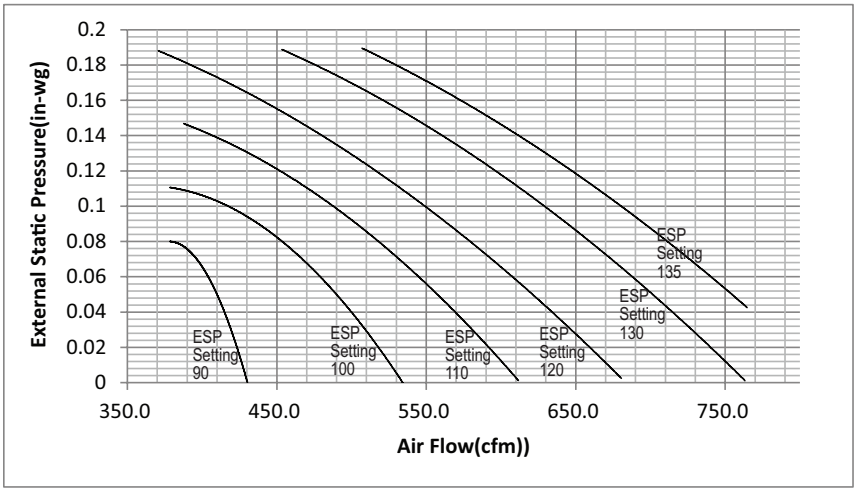


Figure 38: L3 Unit External Static Pressure and Air Flow Chart.



DUCTED LOW STATIC
External Static Pressure Ranges
L1, L2, L3 Units

Table 109: L1 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in. wg)	CFM	Min. ESP (in. wg)	Max. ESP (in. wg)
ARNU073L1G4	7.5	High (Factory Set)	High	100	0	265	-	0.2
			Mid	93		230		
			Low	86		194		
		Standard	High	86	0.1	265	-	0.2
			Mid	78		230		
			Low	69		194		
ARNU093L1G4	9.6	High (Factory Set)	High	113	0	318	-	0.2
			Mid	97		247		
			Low	86		194		
		Standard	High	97	0.1	318		0.2
			Mid	81		247		
			Low	69		194		

Table 111: L2 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in. wg)	CFM	Min. ESP (in. wg)	Max. ESP (in. wg)
ARNU123L2G4	12.3	High (Factory Set)	High	105	0	353	-	0.2
			Mid	96		300		
			Low	89		247		
		Standard	High	96	0.1	353	-	0.2
			Mid	87		300		
			Low	78		247		
ARNU153L2G4	15.4	High (Factory Set)	High	119	0	442	-	0.2
			Mid	105		353		
			Low	96		300		
		Standard	High	109	0.1	442	-	0.2
			Mid	96		353		
			Low	87		300		
ARNU183L2G4	19.1	High (Factory Set)	High	131	0	530	-	0.2
			Mid	119		442		
			Low	105		353		
		Standard	High	120	0.1	530	-	0.2
			Mid	109		442		
			Low	96		353		

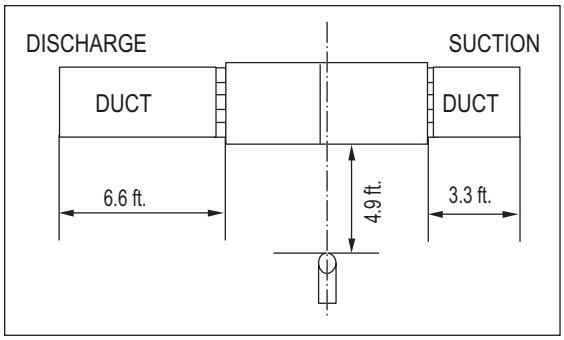
Table 110: L3 Unit External Static Pressure Ranges.

Model	Capacity (MBh)	Mode		Setting Value	Standard ESP (in. wg)	CFM	Min. ESP (in. wg)	Max. ESP (in. wg)
ARNU243L3G4	24.0	High (Factory Set)	High	139	0	707	-	0.2
			Mid	118		565		
			Low	105		424		
		Standard	High	125	0.1	707	-	0.2
			Mid	102		565		
			Low	89		424		

The tables above show the available E.S.P. range.

DUCTED LOW STATIC
Acoustic Data
Sound Pressure Levels

Figure 39: Sound Pressure Measurement Location.



- Measurements are taken 4.9 ft away from the front of the unit.
- Sound pressure levels are measured in dB(A) with a tolerance of ±3.
- Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

Operating Conditions:

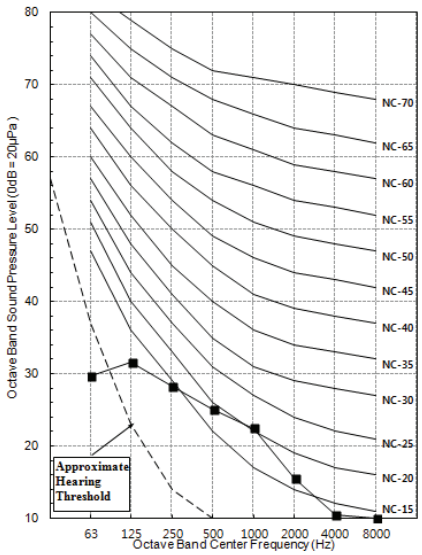
- Power source: 220V/60 Hz
- Sound level will vary depending on a range of factors including the construction (acoustic absorption coefficient) of a particular room in which the unit was installed.

Table 112: Ducted Low Static Sound Pressure Levels.

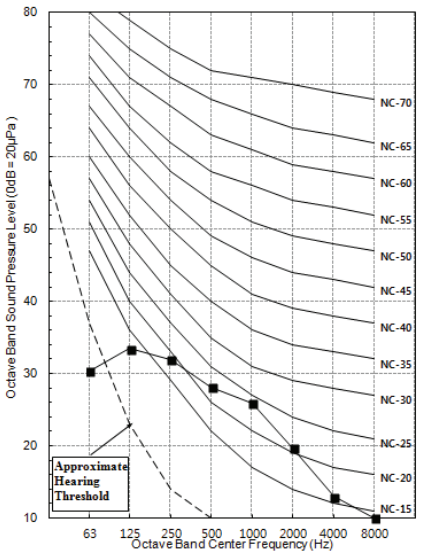
Model	Sound Pressure Levels dB(A)		
	High Fan Speed	Medium Fan Speed	Low Fan Speed
L1 Units			
ARNU073L1G4	27	26	23
ARNU093L1G4	30	26	23
L2 Units			
ARNU123L2G4	31	29	26
ARNU153L2G4	34	31	29
ARNU183L2G4	36	34	31
L3 Units			
ARNU243L3G4	39	35	32

Figure 40: ARNU073L1G4, ARNU093L1G4, and ARNU123L2G4 Sound Pressure Level Diagrams.

ARNU073L1G4



ARNU093L1G4



ARNU123L2G4

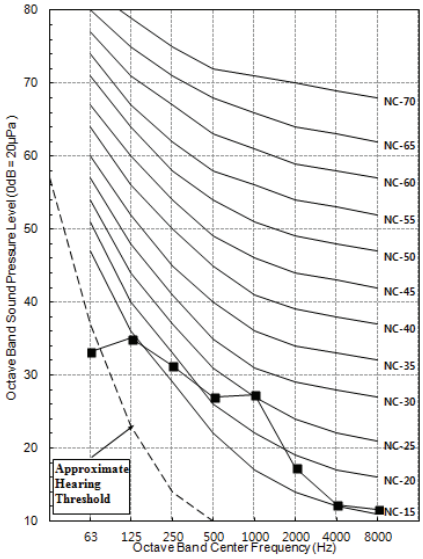
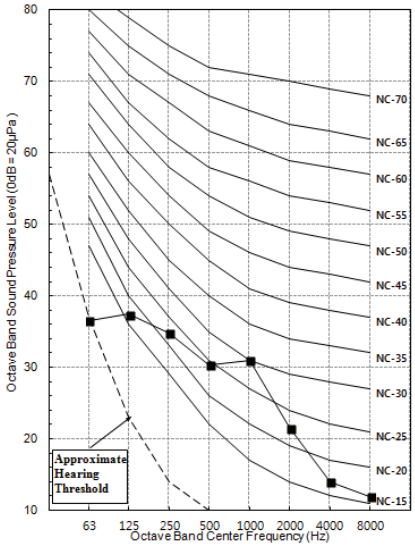
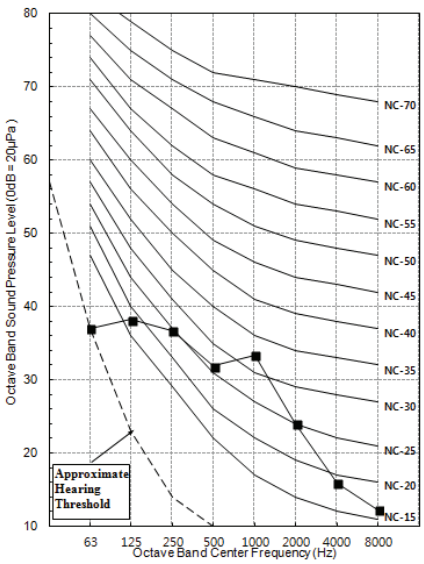


Figure 41: ARNU153L2G4, ARNU183L2G4, and ARNU243L3G4 Sound Pressure Level Diagrams.

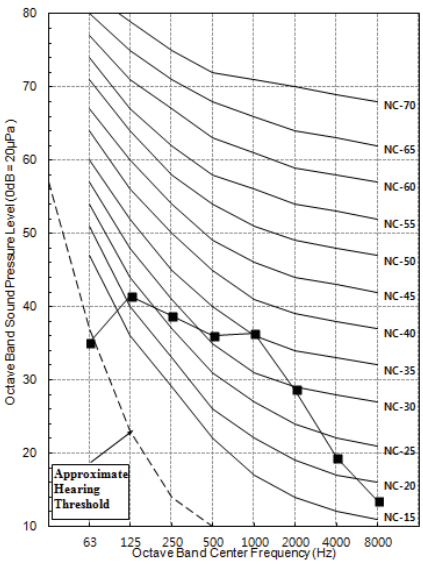
ARNU153L2G4



ARNU183L2G4



ARNU243L3G4



Sound Power Levels

Table 113: Ducted Low Static Sound Power Levels.

Model	Sound Power Levels dB(A)
L1 Units	
ARNU073L1G4	48
ARNU093L1G4	49
L2 Units	
ARNU123L2G4	52
ARNU153L2G4	53
ARNU183L2G4	54
L3 Units	
ARNU243L3G4	58

- Data is valid under diffuse field conditions.
- Data is valid under nominal operating conditions.
- Sound power level is measured using rated conditions, and tested in a reverberation room per ISO 3741 standards.
- Sound level will vary depending on a range of factors such as construction (acoustic absorption coefficient) of particular area in which the equipment is installed.
- Reference acoustic intensity: 0dB = 10E-6μW/m^2

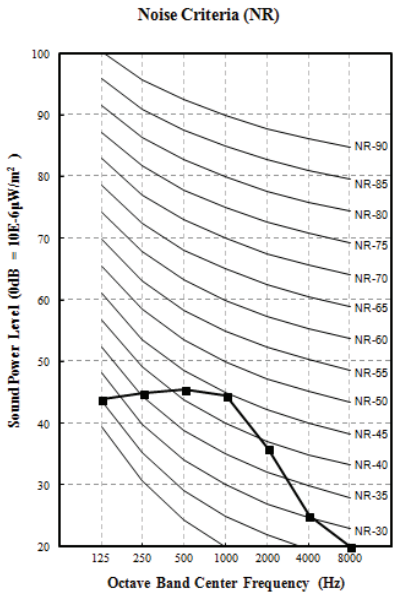
DUCTED LOW STATIC

Acoustic Data

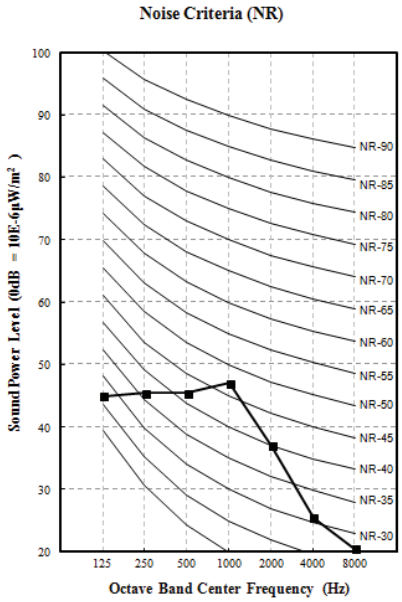
Sound Power Levels

Figure 42: ARNU073L1G4, ARNU093L1G4, and ARNU123L2G4 Sound Power Level Diagrams.

ARNU073L1G4



ARNU093L1G4



ARNU123L2G4

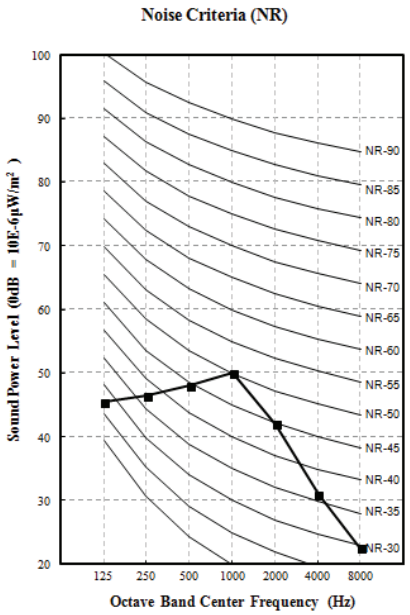
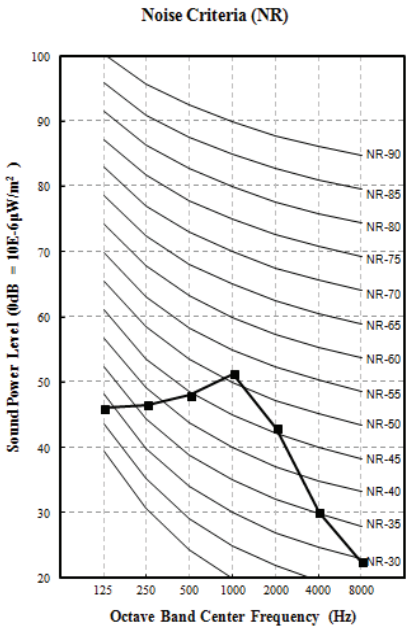
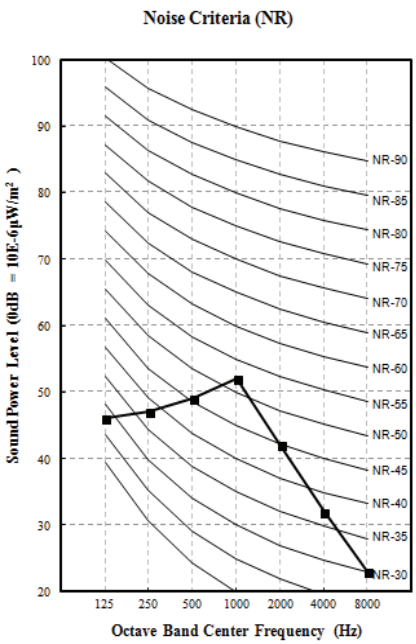


Figure 43: ARNU153L2G4, ARNU183L2G4, and ARNU243L3G4 Sound Power Level Diagrams.

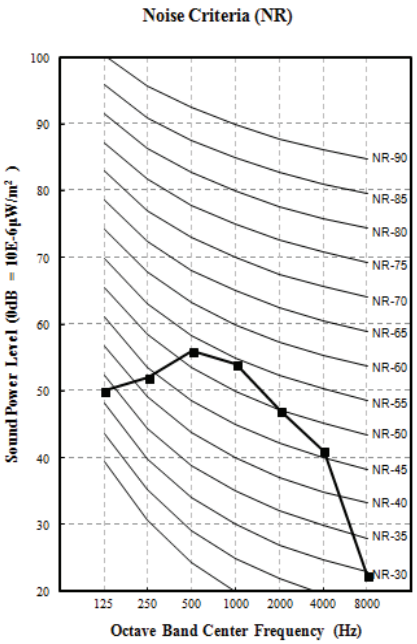
ARNU153L2G4



ARNU183L2G4



ARNU243L3G4



DUCTED LOW STATIC
Cooling Capacity Tables
ARNU073L1G4

Table 114: ARNU073L1G4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU073L1G4 / 7.5	-9.9	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	-5	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	0	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	5	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	10	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	14	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	20	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	23	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	25	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	30	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	35	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	40	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	45	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	50	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	55	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.7	6.2
	60	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.6	6.1
	65	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.4	6.0
	70	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.3	5.9
	75	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.9	6.2	9.1	5.8
	80	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.4	6.2	8.7	6.1	8.8	5.8
	85	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.3	6.2	8.4	5.9	8.6	5.5
	90	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	8.2	6.1	8.3	5.8	8.4	5.5
	95	4.9	4.4	6.0	5.1	6.8	5.4	**7.5**	**5.8**	8.0	6.0	8.2	5.7	8.3	5.4
	100	4.9	4.4	6.0	5.1	6.8	5.4	7.5	5.8	7.9	5.9	8.0	5.7	8.2	5.4
	105	4.9	4.4	5.7	4.9	6.4	5.2	7.2	5.5	7.5	5.5	7.7	5.5	7.9	5.2
	110	4.8	4.3	5.4	4.6	6.0	4.9	6.8	5.2	7.1	5.2	7.3	5.2	7.7	5.1
	115	4.7	4.2	5.1	4.4	5.6	4.6	6.3	5.0	6.6	5.0	7.0	5.0	7.4	4.9
	118	4.6	4.0	4.9	4.1	5.4	4.3	6.1	4.7	6.3	4.7	6.7	4.7	7.1	4.7
	122	4.5	3.9	4.6	3.9	5.1	4.0	5.8	4.5	6.0	4.5	6.3	4.5	6.8	4.5

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Cooling Capacity Tables

ARNU093L1G4

Table 115: ARNU093L1G4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU093L1G4/ 9.6	-9.9	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	-5	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	0	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	5	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	10	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	14	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	20	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	23	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	25	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	30	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	35	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	40	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	45	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	50	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	55	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.4	7.6
	60	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.3	7.6
	65	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	12.1	7.5
	70	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	11.9	7.4
	75	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.4	7.6	11.6	7.2
	80	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.8	7.7	11.1	7.6	11.3	7.2
	85	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.6	7.6	10.8	7.3	11.0	6.9
	90	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.5	7.5	10.6	7.2	10.8	6.8
	95	6.3	5.5	7.7	6.4	8.6	6.8	**9.6**	**7.2**	10.3	7.5	10.5	7.1	10.6	6.7
	100	6.3	5.5	7.7	6.4	8.6	6.8	9.6	7.2	10.1	7.4	10.3	7.0	10.5	6.7
	105	6.3	5.5	7.3	6.0	8.2	6.5	9.2	6.9	9.6	6.9	9.9	6.8	10.2	6.5
	110	6.2	5.3	6.9	5.7	7.7	6.0	8.6	6.5	9.0	6.5	9.4	6.5	9.8	6.3
	115	6.0	5.2	6.6	5.4	7.2	5.7	8.1	6.1	8.5	6.1	8.9	6.1	9.4	6.1
	118	5.9	5.0	6.2	5.1	6.9	5.3	7.8	5.8	8.1	5.8	8.5	5.8	9.0	5.8
	122	5.7	4.9	5.9	4.9	6.5	5.0	7.4	5.5	7.7	5.5	8.1	5.5	8.7	5.5

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC
Cooling Capacity Tables
ARNU123L2G4

Table 116: ARNU123L2G4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU123L2G4/ 12.3	-9.9	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	-5	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	0	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	5	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	10	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	14	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	20	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	23	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	25	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	30	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	35	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	40	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	45	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	50	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	55	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.9	9.5
	60	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.7	9.4
	65	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.5	9.3
	70	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	15.3	9.1
	75	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.7	9.5	14.9	8.9
	80	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.8	9.6	14.2	9.4	14.5	8.9
	85	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.6	9.5	13.8	9.0	14.0	8.5
	90	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	13.4	9.3	13.5	8.9	13.8	8.4
	95	8.1	6.8	9.8	7.9	11.1	8.4	**12.3**	**8.9**	13.2	9.3	13.4	8.8	13.6	8.3
	100	8.1	6.8	9.8	7.9	11.1	8.4	12.3	8.9	12.9	9.1	13.2	8.7	13.4	8.3
	105	8.1	6.8	9.3	7.5	10.6	8.0	11.8	8.5	12.3	8.5	12.7	8.4	13.0	8.1
	110	7.9	6.6	8.9	7.1	9.8	7.5	11.1	8.0	11.6	8.0	12.0	8.0	12.6	7.8
	115	7.7	6.4	8.4	6.7	9.2	7.0	10.4	7.6	10.9	7.6	11.4	7.6	12.1	7.5
	118	7.5	6.2	8.0	6.4	8.8	6.6	10.0	7.2	10.4	7.2	10.9	7.2	11.6	7.2
	122	7.3	6.0	7.6	6.0	8.3	6.2	9.4	6.9	9.8	6.9	10.3	6.9	11.1	6.9

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Cooling Capacity Tables

ARNU153L2G4

Table 117: ARNU153L2G4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU153L2G4/ 15.4	-9.9	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	-5	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	0	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	5	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	10	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	14	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	20	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	23	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	25	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	30	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	35	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	40	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	45	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	50	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	55	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.9	12.0
	60	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.7	11.9
	65	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.4	11.7
	70	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	19.1	11.6
	75	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	18.4	12.0	18.6	11.3
	80	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.3	12.1	17.8	11.9	18.2	11.2
	85	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	17.1	12.0	17.3	11.4	17.6	10.8
	90	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	16.8	11.8	16.9	11.2	17.3	10.7
	95	10.1	8.6	12.3	10.0	13.9	10.6	**15.4**	**11.3**	16.5	11.7	16.8	11.2	17.1	10.5
	100	10.1	8.6	12.3	10.0	13.9	10.6	15.4	11.3	16.2	11.6	16.5	11.0	16.8	10.5
	105	10.1	8.6	11.7	9.5	13.2	10.2	14.8	10.8	15.4	10.8	15.8	10.7	16.3	10.2
	110	9.9	8.4	11.1	9.0	12.3	9.5	13.9	10.2	14.5	10.2	15.1	10.2	15.7	9.9
	115	9.6	8.1	10.5	8.5	11.6	8.9	13.0	9.7	13.6	9.7	14.3	9.7	15.1	9.5
	118	9.4	7.9	10.0	8.1	11.0	8.4	12.5	9.2	13.0	9.2	13.7	9.2	14.5	9.1
	122	9.1	7.6	9.5	7.7	10.4	7.9	11.8	8.7	12.3	8.7	12.9	8.7	13.9	8.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Cooling Capacity Tables

ARNU183L2G4

Table 118: ARNU183L2G4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU183L2G4/ 19.1	-9.9	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	-5	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	0	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	5	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	10	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	14	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	20	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	23	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	25	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	30	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	35	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	40	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	45	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	50	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	55	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.7	14.9
	60	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.4	14.8
	65	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	24.0	14.6
	70	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	23.7	14.3
	75	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.8	14.9	23.1	14.0
	80	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.4	15.0	22.1	14.8	22.5	13.9
	85	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	21.2	14.9	21.4	14.2	21.8	13.4
	90	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	20.9	14.6	21.0	13.9	21.4	13.2
	95	12.6	10.7	15.3	12.3	17.2	13.1	**19.1**	**14.0**	20.5	14.6	20.9	13.8	21.2	13.1
	100	12.6	10.7	15.3	12.3	17.2	13.1	19.1	14.0	20.1	14.3	20.5	13.7	20.9	13.0
	105	12.6	10.7	14.5	11.7	16.4	12.6	18.3	13.4	19.0	13.4	19.7	13.2	20.2	12.7
	110	12.3	10.4	13.8	11.1	15.3	11.7	17.2	12.6	18.0	12.6	18.7	12.6	19.5	12.3
	115	12.0	10.1	13.1	10.5	14.4	11.0	16.2	12.0	16.9	12.0	17.8	12.0	18.7	11.8
	118	11.7	9.8	12.4	10.0	13.6	10.4	15.5	11.4	16.1	11.4	17.0	11.4	18.0	11.3
	122	11.3	9.5	11.8	9.5	12.9	9.7	14.7	10.8	15.3	10.8	16.0	10.8	17.2	10.8

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Cooling Capacity Tables

ARNU243L3G4

Table 119: ARNU243L3G4 Cooling Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU243L3G4/ 24.2	-9.9	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	-5	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	0	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	5	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	10	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	14	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	20	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	23	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	25	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	30	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	35	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	40	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	45	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	50	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	55	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	31.0	19.4
	60	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	30.7	19.3
	65	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	30.2	19.0
	70	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	29.8	18.7
	75	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	28.6	19.4	29.0	18.3
	80	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.9	19.6	27.8	19.3	28.3	18.2
	85	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.6	19.4	26.9	18.5	27.4	17.5
	90	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	26.2	19.1	26.4	18.2	26.9	17.3
	95	15.8	14.0	19.2	16.2	21.6	17.2	**24.0**	**18.3**	25.7	19.0	26.2	18.1	26.6	17.1
	100	15.8	14.0	19.2	16.2	21.6	17.2	24.0	18.3	25.2	18.7	25.7	17.9	26.2	17.0
	105	15.8	14.0	18.2	15.3	20.6	16.5	23.0	17.5	23.9	17.5	24.7	17.3	25.4	16.6
	110	15.4	13.6	17.3	14.5	19.2	15.3	21.6	16.5	22.6	16.5	23.5	16.5	24.5	16.0
	115	15.0	13.2	16.4	13.8	18.0	14.4	20.3	15.6	21.2	15.6	22.3	15.6	23.5	15.4
	118	14.6	12.8	15.6	13.1	17.1	13.6	19.5	14.9	20.3	14.9	21.3	14.9	22.6	14.8
	122	14.3	12.4	14.8	12.4	16.2	12.7	18.4	14.1	19.2	14.1	20.2	14.1	21.7	14.1

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Heating Capacity Tables

ARNU073L1G4

Table 120: ARNU073L1G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU073L1G4 / 7.5	-21.6	-22.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	-17.1	-17.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	-12.6	-13	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.3
	-7	-7.6	5.5	5.5	5.5	5.5	5.4	5.4	5.4	5.4
	-4	-4.4	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6
	0	-0.4	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8
	5	4.5	6.6	6.6	6.5	6.5	6.5	6.5	6.5	6.5
	10	9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8
	15	14	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.1
	20	19	7.7	7.7	7.7	7.7	7.6	7.6	7.4	7.4
	25	23	8.1	8.1	8.1	8.1	8.1	7.9	7.8	7.4
	30	28	8.3	8.3	8.3	8.3	8.3	8.1	7.8	7.4
	35	32	8.5	8.5	8.5	8.5	8.4	8.3	7.8	7.4
	40	36	8.8	8.8	8.8	8.8	8.5	8.3	7.8	7.4
	45	41	9.2	9.2	9.2	8.9	8.5	8.3	7.8	7.4
	47	43	9.5	9.4	9.4	8.9	**8.5**	8.3	7.8	7.4
	50	46	10.2	9.8	9.4	8.9	8.5	8.3	7.8	7.4
	55	51	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4
	60	56	10.4	9.9	9.4	8.9	8.5	8.3	7.8	7.4

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Heating Capacity Tables

ARNU093L1G4

Table 121: ARNU093L1G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU093L1G4/ 9.6	-21.6	-22.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	-17.1	-17.5	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1
	-12.6	-13	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-7	-7.6	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0
	-4	-4.4	7.3	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	0	-0.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4
	5	4.5	8.5	8.4	8.3	8.3	8.3	8.3	8.3	8.3
	10	9	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.7
	15	14	9.4	9.4	9.4	9.4	9.4	9.4	9.3	9.2
	20	19	9.9	9.9	9.9	9.9	9.7	9.7	9.5	9.4
	25	23	10.4	10.4	10.4	10.4	10.4	10.1	10.0	9.5
	30	28	10.6	10.6	10.6	10.6	10.6	10.4	10.0	9.5
	35	32	10.9	10.9	10.9	10.9	10.8	10.6	10.0	9.5
	40	36	11.3	11.3	11.3	11.3	10.9	10.6	10.0	9.5
	45	41	11.8	11.8	11.8	11.5	10.9	10.6	10.0	9.5
	47	43	12.2	12.1	12.0	11.5	**10.9**	10.6	10.0	9.5
	50	46	13.1	12.5	12.0	11.5	10.9	10.6	10.0	9.5
	55	51	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5
	60	56	13.4	12.6	12.0	11.5	10.9	10.6	10.0	9.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 122: ARNU123L2G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU123L2G4/ 12.3	-21.6	-22.0	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-17.1	-17.5	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.6
	-12.6	-13	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5
	-7	-7.6	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.7
	-4	-4.4	9.1	9.1	9.1	9.1	9.0	9.0	9.0	9.0
	0	-0.4	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.3
	5	4.5	10.6	10.5	10.3	10.3	10.3	10.3	10.3	10.3
	10	9	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9
	15	14	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.4
	20	19	12.4	12.4	12.4	12.4	12.1	12.1	11.9	11.8
	25	23	12.9	12.9	12.9	12.9	12.9	12.7	12.5	11.9
	30	28	13.2	13.2	13.2	13.2	13.2	12.9	12.5	11.9
	35	32	13.6	13.6	13.6	13.6	13.5	13.2	12.5	11.9
	40	36	14.1	14.1	14.1	14.1	13.6	13.2	12.5	11.9
	45	41	14.7	14.7	14.7	14.3	13.6	13.2	12.5	11.9
	47	43	15.2	15.1	15.0	14.3	**13.6**	13.2	12.5	11.9
	50	46	16.3	15.6	15.0	14.3	13.6	13.2	12.5	11.9
	55	51	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9
	60	56	16.7	15.8	15.0	14.3	13.6	13.2	12.5	11.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Heating Capacity Tables

ARNU153L2G4

Table 123: ARNU153L2G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU153L2G4/ 15.4	-21.6	-22.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6
	-17.1	-17.5	9.7	9.7	9.7	9.7	9.6	9.6	9.6	9.6
	-12.6	-13	10.8	10.8	10.8	10.8	10.6	10.6	10.6	10.6
	-7	-7.6	11.1	11.1	11.1	11.1	10.9	10.9	10.9	10.9
	-4	-4.4	11.5	11.5	11.5	11.5	11.3	11.3	11.3	11.3
	0	-0.4	11.8	11.8	11.8	11.8	11.8	11.6	11.6	11.6
	5	4.5	13.3	13.2	13.0	13.0	13.0	13.0	13.0	13.0
	10	9	13.9	13.9	13.9	13.7	13.7	13.7	13.7	13.7
	15	14	14.7	14.7	14.7	14.7	14.7	14.7	14.5	14.4
	20	19	15.6	15.6	15.6	15.6	15.2	15.2	15.0	14.8
	25	23	16.3	16.3	16.3	16.3	16.3	15.9	15.7	15.0
	30	28	16.6	16.6	16.6	16.6	16.6	16.3	15.7	15.0
	35	32	17.1	17.1	17.1	17.1	16.9	16.6	15.7	15.0
	40	36	17.8	17.8	17.8	17.8	17.1	16.6	15.7	15.0
	45	41	18.5	18.5	18.5	18.0	17.1	16.6	15.7	15.0
	47	43	19.2	19.0	18.8	18.0	**17.1**	16.6	15.7	15.0
	50	46	20.5	19.7	18.8	18.0	17.1	16.6	15.7	15.0
	55	51	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0
	60	56	21.0	19.8	18.8	18.0	17.1	16.6	15.7	15.0

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

Table 124: ARNU183L2G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor air temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU183L2G4/ 19.1	-21.6	-22.0	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8
	-17.1	-17.5	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.1
	-12.6	-13	13.6	13.6	13.6	13.6	13.4	13.4	13.4	13.4
	-7	-7.6	14.0	14.0	14.0	14.0	13.8	13.8	13.8	13.8
	-4	-4.4	14.4	14.4	14.4	14.4	14.2	14.2	14.2	14.2
	0	-0.4	14.8	14.8	14.8	14.8	14.8	14.6	14.6	14.6
	5	4.5	16.8	16.6	16.3	16.3	16.3	16.3	16.3	16.3
	10	9	17.4	17.4	17.4	17.2	17.2	17.2	17.2	17.2
	15	14	18.5	18.5	18.5	18.5	18.5	18.5	18.3	18.1
	20	19	19.6	19.6	19.6	19.6	19.1	19.1	18.8	18.6
	25	23	20.4	20.4	20.4	20.4	20.4	20.0	19.8	18.8
	30	28	20.9	20.9	20.9	20.9	20.9	20.4	19.8	18.8
	35	32	21.5	21.5	21.5	21.5	21.3	20.9	19.8	18.8
	40	36	22.4	22.4	22.4	22.4	21.5	20.9	19.8	18.8
	45	41	23.2	23.2	23.2	22.6	21.5	20.9	19.8	18.8
	47	43	24.1	23.9	23.7	22.6	**21.5**	20.9	19.8	18.8
	50	46	25.8	24.7	23.7	22.6	21.5	20.9	19.8	18.8
	55	51	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8
	60	56	26.3	24.9	23.7	22.6	21.5	20.9	19.8	18.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

DUCTED LOW STATIC

Heating Capacity Tables

ARNU243L3G4

Table 125: ARNU243L3G4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU243L3G4/ 24.2	-21.6	-22.0	13.9	13.9	13.9	13.9	13.7	13.7	13.7	13.7
	-17.1	-17.5	15.5	15.5	15.5	15.5	15.3	15.3	15.3	15.3
	-12.6	-13	17.2	17.2	17.2	17.2	17.0	17.0	17.0	17.0
	-7	-7.6	17.8	17.8	17.8	17.8	17.5	17.5	17.5	17.5
	-4	-4.4	18.3	18.3	18.3	18.3	18.0	18.0	18.0	18.0
	0	-0.4	18.8	18.8	18.8	18.8	18.8	18.6	18.6	18.6
	5	4.5	21.3	21.0	20.8	20.8	20.8	20.8	20.8	20.8
	10	9	22.1	22.1	22.1	21.8	21.8	21.8	21.8	21.8
	15	14	23.5	23.5	23.5	23.5	23.5	23.5	23.2	22.9
	20	19	24.8	24.8	24.8	24.8	24.3	24.3	23.9	23.6
	25	23	25.9	25.9	25.9	25.9	25.9	25.4	25.1	23.9
	30	28	26.5	26.5	26.5	26.5	26.5	25.9	25.1	23.9
	35	32	27.3	27.3	27.3	27.3	27.0	26.5	25.1	23.9
	40	36	28.4	28.4	28.4	28.4	27.3	26.5	25.1	23.9
	45	41	29.5	29.5	29.5	28.7	27.3	26.5	25.1	23.9
	47	43	30.6	30.3	30.0	28.7	**27.3**	26.5	25.1	23.9
	50	46	32.8	31.4	30.0	28.7	27.3	26.5	25.1	23.9
	55	51	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9
	60	56	33.4	31.7	30.0	28.7	27.3	26.5	25.1	23.9

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

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VERTICAL / HORIZONTAL AIR HANDLER

Mechanical Specifications

Casing

The unit is designed to operate in the vertical up flow configuration or horizontal left end supply air. Return air opening is on the bottom in the vertical position or right end in the horizontal position. Return air plenum sub-base is to be field-provided. The supply air connection is male flange. The unit case is made of 22-gauge coated metal and the external surfaces are finished with a high gloss baked enamel finish. Finish color is “morning fog” (medium beige). Cold surfaces are galvanized steel. The cold surfaces of the case are internally insulated with ½ inch foil faced, polystyrene fiber insulation. The inside surface of the fan assembly door access panel is treated with ½ inch polystyrene fiber insulation, encapsulated on both sides, and sealed along the edges with a reinforced foil-faced covering to prevent deterioration caused by panel removal. All access panels are provided with gasket seals to minimize air leakage. The unit case is designed to accept an internal, optional, LG electric strip heater. The unit bears the ETL label. Unit breaker, fuses, and / or disconnect are provided by others.

Fan Assembly and Control

The indoor unit has an integral fan assembly consisting of a galvanized steel housing and a forward-curved fan wheel. The direct drive fan/motor assembly is mounted on rubber grommets isolating the rotating assembly from the fan housing. The fan motor is a Brushless Digitally-Controlled design (BLDC), having permanently lubricated and sealed ball bearings. The fan motor includes thermal, overcurrent and low RPM protection. The fan/motor assembly is mounted on vibration attenuating rubber grommets. The fan impeller is statically and dynamically balanced. Fan speed is controlled using a microprocessor-based direct digital control algorithm that provides a minimum of a high fan speed in cooling thermal ON and low fan speed in cooling thermal OFF, high fan speed in heating thermal ON and fan off in heating thermal OFF. The fan speeds can be field adjusted between low, medium, and high speeds and DIP switch settings will allow the fan to run constantly during defrost or oil return modes. Each setting can be field adjusted from the factory setting (RPM/ESP). The setting provides delivery of the high speed air volume against an external static pressure of up to 1.0 in-wg.

Air Filter

The unit comes with a filter rack capable of accepting a field-provided 16” x 20” x 1” (NJ chassis) or 24” x 20” x 1” (NK chassis) filter cartridge. The filter rack is equipped with guides that keep the filter centered in the rack. Filter service access is from the front of the unit without removing the coil or fan area access panels. Filter access door is provided with thumb screws that can be removed.

Optional Auxiliary Electric Heat Module(s)

LG optional electric heat modules are designed for field installation in the reheat position. The electric heat module is provided with heating elements, contractors, relays, high temperature safety switch, and interconnecting control wiring harness with a quick connect plug for easy connection to the air handler control board. Auxiliary heat modules are available in nominal capacities of 3, 5, 8, 10, 15, and 20kW at 230/60/1. Heating elements are powered from a field provided separate power source. 5 and 10 kW modules are powered from a single power wire. The 15 and 20 kW modules are powered from two power wires. Heating module breakers, fuses, and / or disconnects are to be field provided.

Electric Heat Module Controls

The electric heat module is capable of operating at full capacity during system defrost and oil return operations. When the air handler is operating in the Cooling, Dry, or Fan Only modes, the electric heater operation is locked out and unavailable. When the air handler is operating in the Heating mode, the heater is field selectable to operate when the room temperature is 2°F lower than set-point or manually if provided with a start/stop signal from a third-party outside source.

Microprocessor Controls

The unit is equipped with an integrated microprocessor-based controller capable of performing functions necessary to operate the system without the use of a wall-mounted controller. A temperature thermistor is mounted in the return air stream. All unit operating parameters, excluding the operation schedule, are stored in non-volatile memory resident on the unit microprocessor. Operating schedules are stored in select models of the optional wall-mounted local or central controller. The field-supplied communication cable between the indoor unit(s) and outdoor unit is to be a minimum of 18 AWG, 2 conductor, stranded, and shielded (RS-485). The microprocessor control provides the following functions: auto addressing, self-diagnostics, auto restart following power restoration, and will operate the indoor unit using one of the following five operation modes:

1. Auto Changeover (Heat Recovery only)
2. Heating
3. Cooling
4. Dry
5. Fan Only

For Heat Recovery systems the Auto Changeover setting automatically switches control of the indoor unit between cooling and heating modes based on space temperature conditions.

For Heat Pump systems, heated or cooled air delivery is dependent upon outdoor unit operating mode.

In Heating mode, the microprocessor control does not begin fan operation until coil pipe temperature reaches 76ºF. Significant airflow is generated when pipe temperature reaches 80°F. A field-selectable option maintains fan operation for 30 minutes following cooling cycle operations.

1. Wall-mounted wire controller
2. Factory-mounted return air thermistor or the optional wall mounted wired remote temperature sensor.

The microprocessor controls space temperature using the value provided by the temperature sensor sensing a space temperature that is farthest away from the temperature set-point. A single indoor unit has the capability of being controlled by up to two local wired controllers. The microprocessor control provides a cooling or heating mode test cycle that operates the unit for 18 minutes without regard to the space temperature. If the system is provided with an optional local or central controller, displayed diagnostic codes are specific and provide the service technician with the reason for the code displayed.

Handling Condensate

The drain pan is designed to work with a gravity building drain system. If condensate lifts/pumps are needed, they are to be field-provided. A secondary drain port plug is provided allowing the pan to be drained for service. Condensate float safety switch connections are available on the main control board for connection of a field supplied float safety switch.

Condensate Drain Pan

The condensate drain pan is constructed of HIPS (high impact polystyrene resin).

Coil

The indoor unit coil is constructed with grooved design copper tubes with slit coil fins, 2 to 3 rows, 18 fins per inch.

Controls Features

- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- External on / off control
- Dual thermistor control
- External static pressure control
- Group control
- Hot start
- Self diagnostics
- Timer (on / off)
- Weekly schedule
- Fan speed control
- Dual set-point control
- Filter life display
- Multiple auxiliary heater applications
- Wi-Fi compatible
- Auto fan
- Leak detection

**To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV, Multi V S Engineering Manual for additional information.*

VERTICAL / HORIZONTAL AIR HANDLER

General Data

NJ Frames

Table 126: Vertical / Horizontal (NJ Frame) Air Handler Unit General Data.

Model No.	ARNU123NJA4	ARNU183NJA4	ARNU243NJA4	ARNU303NJA4	ARNU363NJA4
Cooling Mode Performance					
Capacity (Btu/h)	12,000	18,000	24,000	30,000	36,000
Max Power Input[1] (W)	228	228	228	228	228
L/M/H Power Input at Factory Default (W)	47 / 64 / 80	64 / 80 / 90	64 / 96 / 120	94 / 133 / 180	133 / 180 / 230
Heating Mode Performance					
Capacity (Btu/h)	13,500	20,000	27,000	34,000	40,000
Max Power Input[1] (W)	228	228	228	228	228
L/M/H Power Input at Factory Default (W)	47 / 64 / 80	64 / 80 / 90	64 / 96 / 120	94 / 133 / 180	133 / 180 / 230
Entering Mixed Air					
Cooling Max. (°F WB)	76	76	76	76	76
Heating Min. (°F DB)[2]	59	59	59	59	59
Unit Data					
Refrigerant Type[3]	R410A	R410A	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV	EEV	EEV
Sound Pressure[4] dB(A) (H/M/L)	42 / 41 / 39	42 / 42 / 41	43 / 42 / 41	44 / 43 / 42	45 / 44 / 43
Net Unit Weight (lbs.)	117	117	117	117	121
Shipping Weight (lbs.)	140	140	140	140	144
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Fan					
Type	Sirocco	Sirocco	Sirocco	Sirocco	Sirocco
Motor	1	1	1	1	1
Housing	1	1	1	1	1
Motor/Drive	Brushless Digitally Controlled / Direct				
Airflow Rate H/M/L (CFM) Standard Mode	530 / 480 / 380	580 / 530 / 480	710 / 640 / 480	880 / 800 / 630	990 / 880 / 800
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	530 / 480 / 380	580 / 530 / 480	710 / 640 / 480	880 / 800 / 630	990 / 880 / 800
External Static Pressure (in. wg) Standard Mode	0.3	0.3	0.3	0.3	0.3
External Static Pressure (in. wg) High Mode (Factory Set)	0.5	0.5	0.5	0.5	0.5
Piping					
Liquid Line (in., O.D.)	1/4 Flare	1/4 Flare	3/8 Flare	3/8 Flare	3/8 Flare
Vapor Line (in., O.D.)	1/2 Flare	1/2 Flare	5/8 Flare	5/8 Flare	5/8 Flare
Condensate Line (in., I.D.)	1 (3/4" FPT)	1 (3/4" FPT)	1 (3/4" FPT)	1 (3/4" FPT)	1 (3/4" FPT)

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

VERTICAL / HORIZONTAL AIR HANDLER

General Data

NK Frames

Table 127: Vertical / Horizontal (NK Frame) Air Handler Unit General Data.

Model No.	ARNU423NKA4	ARNU483NKA4	ARNU543NKA4
Cooling Mode Performance			
Capacity (Btu/h)	42,000	48,000	54,000
Max Power Input[1] (W)	366	366	366
L/M/H Power Input at Factory Default (W)	186 / 215 / 260	186 / 264 / 330	264 / 312 / 370
Heating Mode Performance			
Capacity (Btu/h)	46,000	54,000	60,000
Max Power Input[1] (W)	366	366	366
L/M/H Power Input at Factory Default (W)	186 / 215 / 260	186 / 264 / 330	264 / 312 / 370
Entering Mixed Air			
Cooling Max. (°F WB)	76	76	76
Heating Min. (°F DB)[2]	59	59	59
Unit Data			
Refrigerant Type[3]	R410A	R410A	R410A
Refrigerant Control	EEV	EEV	EEV
Sound Pressure[4] dB(A) (H/M/L)	46 / 44 / 41	49 / 47 / 41	50 / 49 / 47
Net Unit Weight (lbs.)	165	165	165
Shipping Weight (lbs.)	181	181	181
Communication Cable[5] (No. x AWG)	2 x 18	2 x 18	2 x 18
Fan			
Type	Sirocco	Sirocco	Sirocco
Motor	1	1	1
Housing	1	1	1
Motor/Drive	Brushless Digitally Controlled / Direct		
Airflow Rate H/M/L (CFM) Standard Mode	1,250 / 1,100 / 1,000	1,400 / 1,260 / 1,000	1,475 / 1,400 / 1,260
Airflow Rate H/M/L (CFM) High Mode (Factory Set)	1,250 / 1,100 / 1,000	1,400 / 1,260 / 1,000	1,475 / 1,400 / 1,260
External Static Pressure (in. wg) Standard Mode	0.3	0.3	0.3
External Static Pressure (in. wg) High Mode (Factory Set)	0.5	0.5	0.5
Piping			
Liquid Line (in., O.D.)	3/8 Flare	3/8 Flare	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare	5/8 Flare	5/8 Flare
Condensate Line (in., I.D.)	1 (3/4" FPT)	1 (3/4" FPT)	1 (3/4" FPT)

EEV: Electronic Expansion Valve

Power wiring is field supplied and must comply with the applicable local and national codes.

This unit comes with a dry nitrogen charge.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

[1]Max power input is rated at maximum setting value.

[2]Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

[3]Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.

[4]Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.

[5]All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communication cable at any other point.

VERTICAL / HORIZONTAL AIR HANDLER

Electrical Data

Table 128: Vertical / Horizontal (NJ, NK Frames) Air Handler Unit Electrical Data.

Model	Voltage Range	MCA	MOP	Rated Amps (A)	Power Supply			Power Input[1] (W)		
					Hz	Volts	Phase	Max. Cooling	Max. Heating	L / M / H at Factory Default
NJ Frames										
ARNU123NJA4	208-230	1.4	15	1.12	60	208-230	1	228	228	47 / 64 / 80
ARNU183NJA4		1.4		1.12				228	228	64 / 80 / 90
ARNU243NJA4		1.4		1.12				228	228	64 / 96 / 120
ARNU303NJA4		1.4		1.12				228	228	94 / 133 / 180
ARNU363NJA4		1.4		1.12				228	228	133 / 180 / 230
NK Frames										
ARNU423NKA4	208-230	2.25	15	1.8	60	208-230	1	366	366	186 / 215 / 260
ARNU483NKA4		2.25		1.8				366	366	186 / 264 / 330
ARNU543NKA4		2.25		1.8				366	366	264 / 312 / 370

MCA : Minimum Circuit Ampacity.

MOP : Maximum Overcurrent Protection.

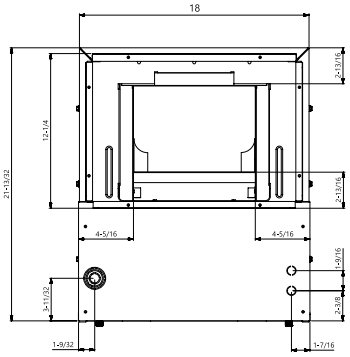
Units are suitable for use on an electrical system where voltage supplied to unit terminals is within the listed range limits.

Select wire size based on the larger MCA value.

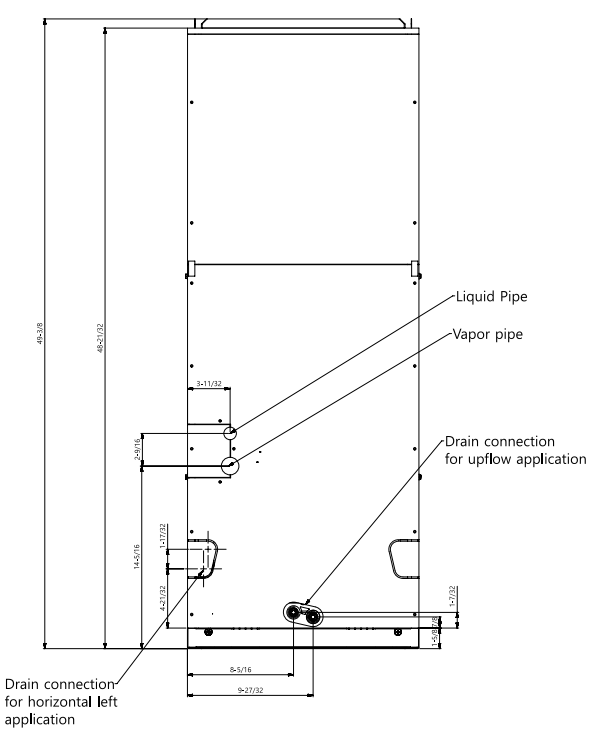
Instead of fuse, use the circuit breaker.

[1]Max. power input is rated at maximum setting value.

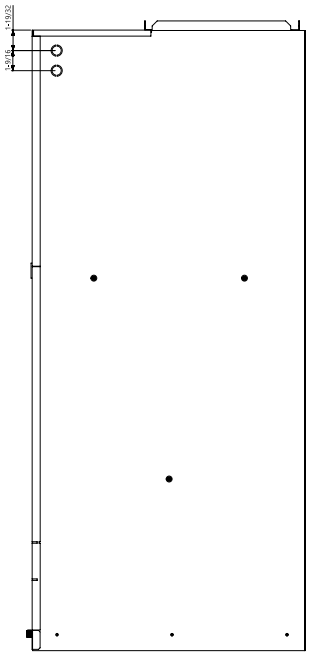
Figure 44: ARNU123~363NJA4 Dimensions.



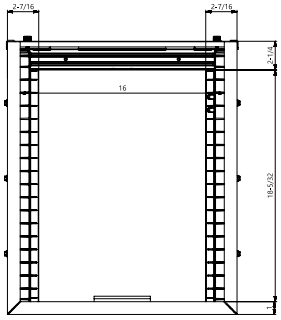
Top View



Front View



Side View



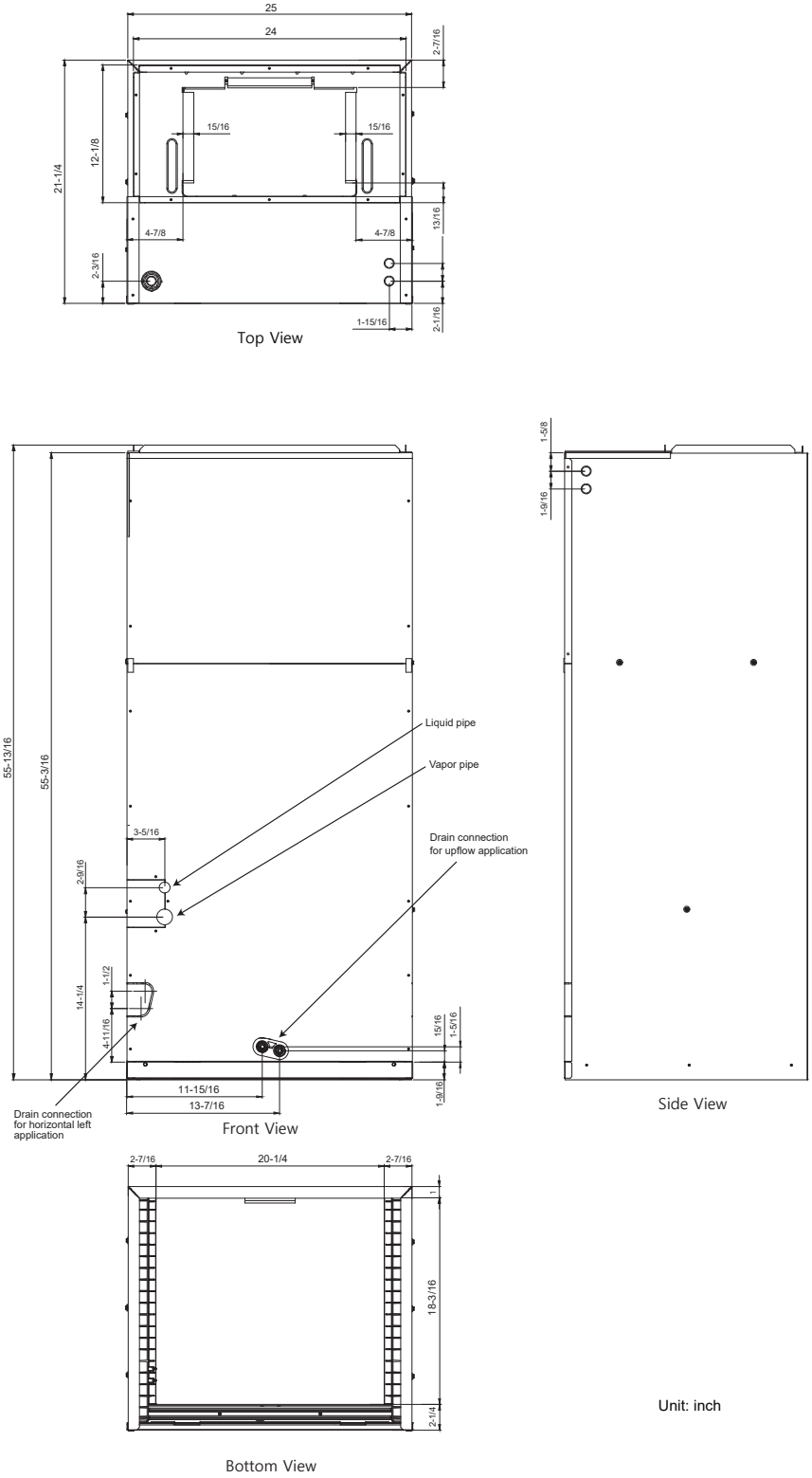
Bottom View

VERTICAL / HORIZONTAL AIR HANDLER

External Dimensions

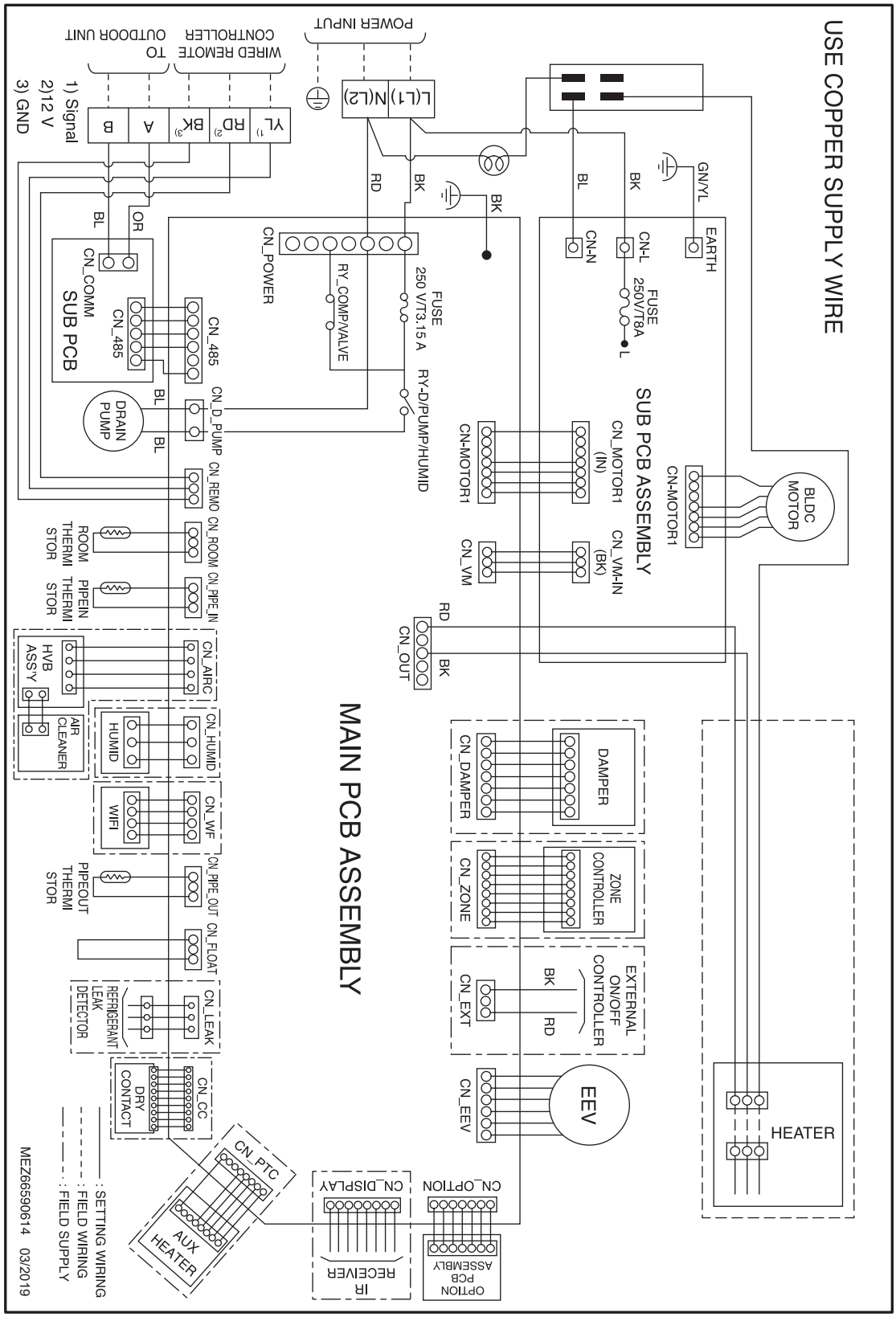
NK Frame

Figure 45: ARNU423~543NKA4 Dimensions.



Unit: inch

Figure 46: ARNU123~363NJA4 Wiring Diagram.



VERTICAL / HORIZONTAL AIR HANDLER

Electrical Wiring Diagram

NJ Frame

Table 129: NJ Frame Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-VM	Sub PC power supply	Power supply connection
CN_OUT	Heater	Connection for heater
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External ON / OFF controller	External ON / OFF controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Auxiliary heater connection
CN-CC	Dry contact	Dry Contact connection
CN-LEAK	Refrigerant leak detector	Refrigerant leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE-OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-AIRC	N / A	N / A
CN-PIPE-IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D-PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

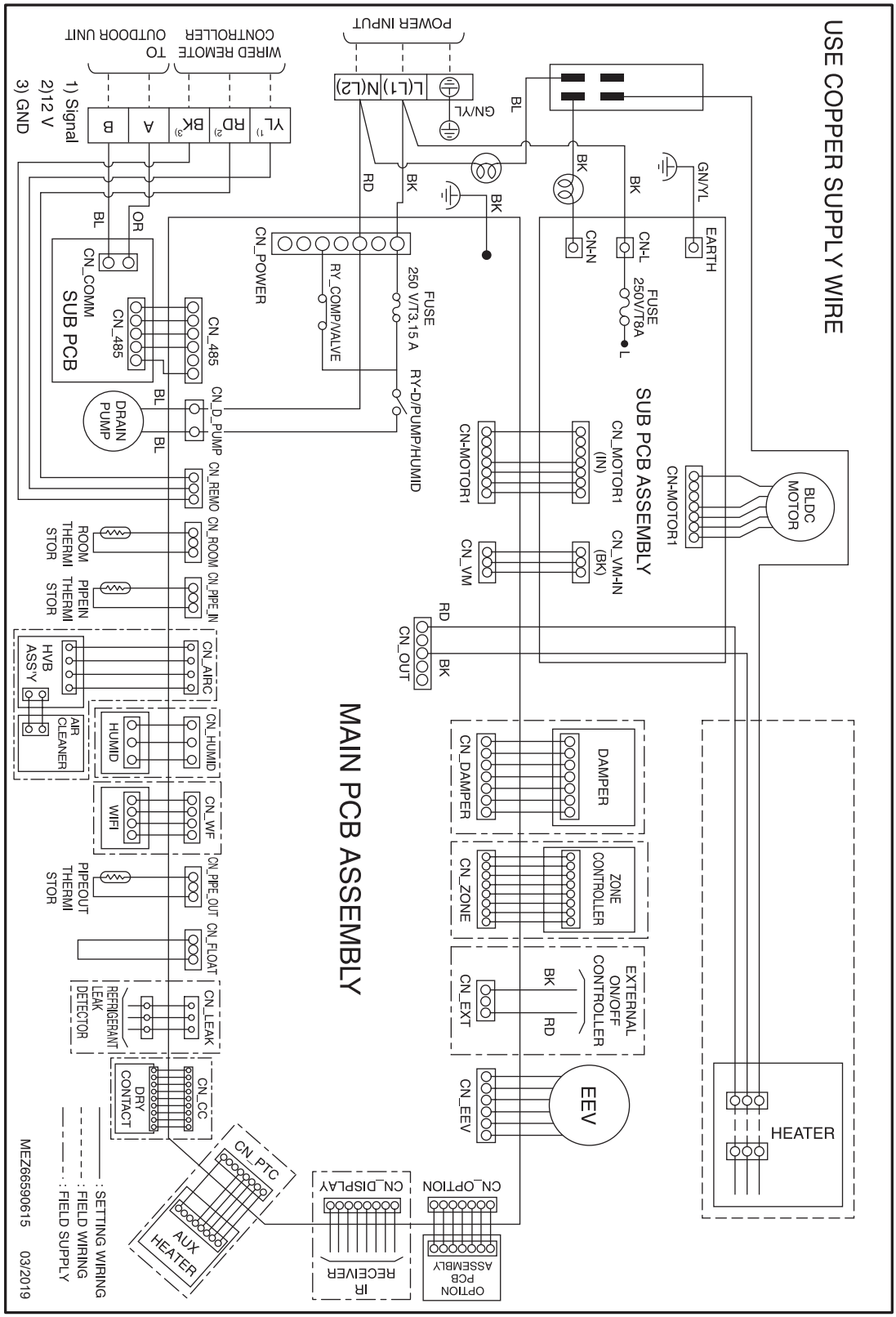
Table 130: NJ Frame DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off
SW6	HEATER INTERLOCK	Off	On	Selects heater interlock function for vertical air handler units 1. On: Automatic (heater will automatically operate during heating mode) 2. Off: Manual (heater needs to be manually turned on during heating mode)

***For Gen 4 Multi V vertical air handler indoor units, DIP switches 1, 2, 7 and 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV Engineering Manual for additional information.**

Figure 47: ARNU423~543NKA4 Wiring Diagram.



VERTICAL / HORIZONTAL AIR HANDLER

Electrical Wiring Diagram

NK Frame

Table 131: NK Frame Wiring Diagram Legend.

Terminal	Purpose	Function
CN-POWER	AC Power supply	AC Power line
CN-MOTOR1	Fan motor output	Motor output of BLDC
CN-VM	Sub PC power supply	Power supply connection
CN_OUT	Heater	Connection for heater
CN-DAMPER	N / A	N / A
CN-ZONE	Zone controller	Zone controller connection
CN-EXT	External ON / OFF controller	External ON / OFF controller connection
CN-EEV	EEV Output	EEV control output
CN-OPTION	Optional PCB EPROM	Option PCB connection
CN-DISPLAY	Display	Display of indoor status
CN-PTC	Auxiliary heater	Auxiliary heater connection
CN-CC	Dry contact	Dry Contact connection
CN-LEAK	Refrigerant leak detector	Refrigerant leak detector connection
CN-FLOAT	Float switch input	Float switch sensing
CN-PIPE-OUT	Discharge pipe sensor	Pipe out thermistor
CN-WF	Wi-Fi	Wi-Fi module connection
CN-HUMID	N / A	N / A
CN-AIRC	N / A	N / A
CN-PIPE-IN	Suction pipe sensor	Pipe in thermistor
CN-ROOM	Room sensor	Room air thermistor
CN-REMO	Wired remote controller	Wired remote control connection
CN-D-PUMP	Drain pump output	AC output for drain pump
CN-485	Communication	Connection between indoor and outdoor units

Table 132: NK Frame DIP Switch Settings.

DIP Switch Setting		Off	On	Remarks
SW3	GROUP CONTROL	Main	Sub	Group control setting using 7-Day Programmable Controller; selects Main / Sub on each indoor unit
SW4	DRY CONTACT MODE	Variable	Auto	Sets operation mode for optional Dry Contact accessory 1. Variable: Auto or Manual Mode can be set through 7-Day Programmable Controller or Wireless Remote Controller (factory default setting is Auto if there is no setting) 2. Auto: For Dry Contact, it is always Auto mode
SW5	CONTINUOUS FAN	Off	On	Selects continuous fan for ducted indoor units. 1. On: Indoor unit fan will always operate at a set fan speed, except when the system is off, or the outdoor unit is in defrost mode (when the outdoor unit is in defrost mode, the fan will operate at super low fan speed) 2. Off: Indoor unit fan speed can be changed by on / off
SW6	HEATER INTERLOCK	Off	On	Selects heater interlock function for vertical air handler units 1. On: Automatic (heater will automatically operate during heating mode) 2. Off: Manual (heater needs to be manually turned on during heating mode)

***For Gen 4 Multi V vertical air handler indoor units, DIP switches 1, 2, 7 and 8 must be set to OFF. These DIP switches are used for other models.**

****To enable Generation 4 features, outdoor unit DIP Switch No. 3 must be set to ON. Please refer to the Multi V IV, Multi V Water IV Engineering Manual for additional information.**

Figure 48: NJ, NK Frame Refrigerant Flow Diagram.

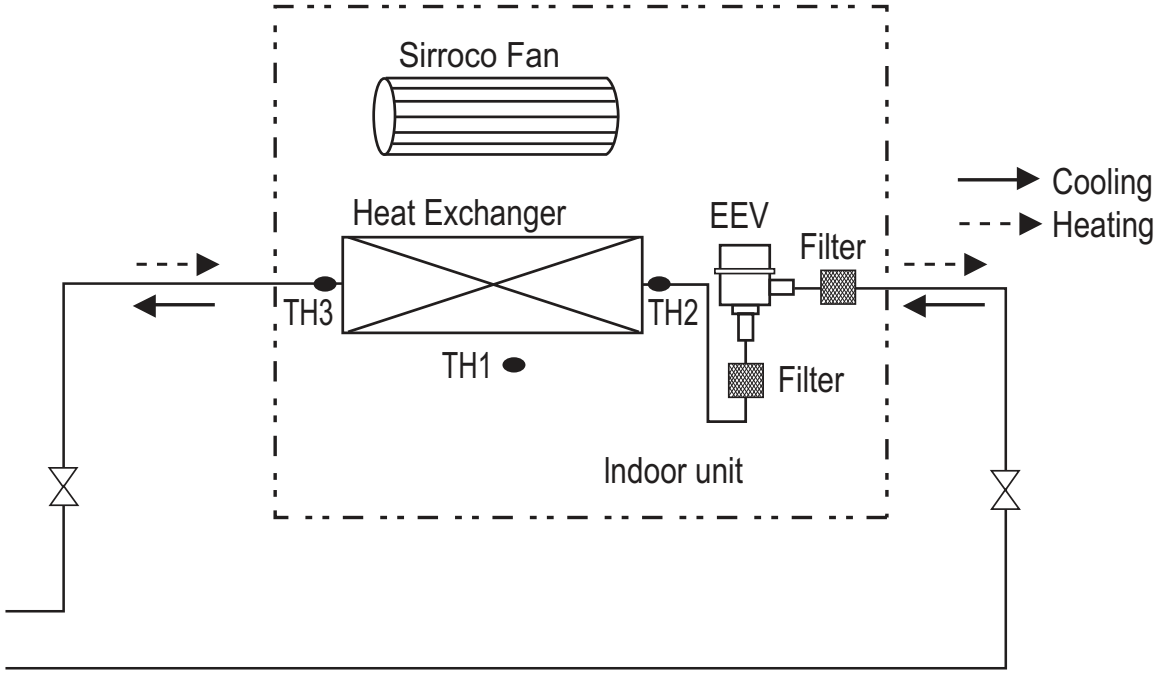


Table 133: NJ, NK Frame Refrigerant Pipe Connection Port Diameters.

Model	Liquid (inch)	Vapor (inch)
NJ Frames		
ARNU123NJA4	1/4 Brazed	1/2 Brazed
ARNU183NJA4		
ARNU243NJA4	3/8 Brazed	5/8 Brazed
ARNU303NJA4		
ARNU363NJA4		
NK Frames		
ARNU423NKA4	3/8 Brazed	5/8 Brazed
ARNU483NKA4		
ARNU543NKA4		

Table 134: NJ, NK Frame Thermistors.

Thermistor	Description
TH1	Return air thermistor
TH2	Pipe in thermistor
TH3	Pipe out thermistor

VERTICAL / HORIZONTAL AIR HANDLER

External Static Pressure and Air Flow
NJ, NK Frames

Figure 49: NJ Frame External Static Pressure and Air Flow Chart.

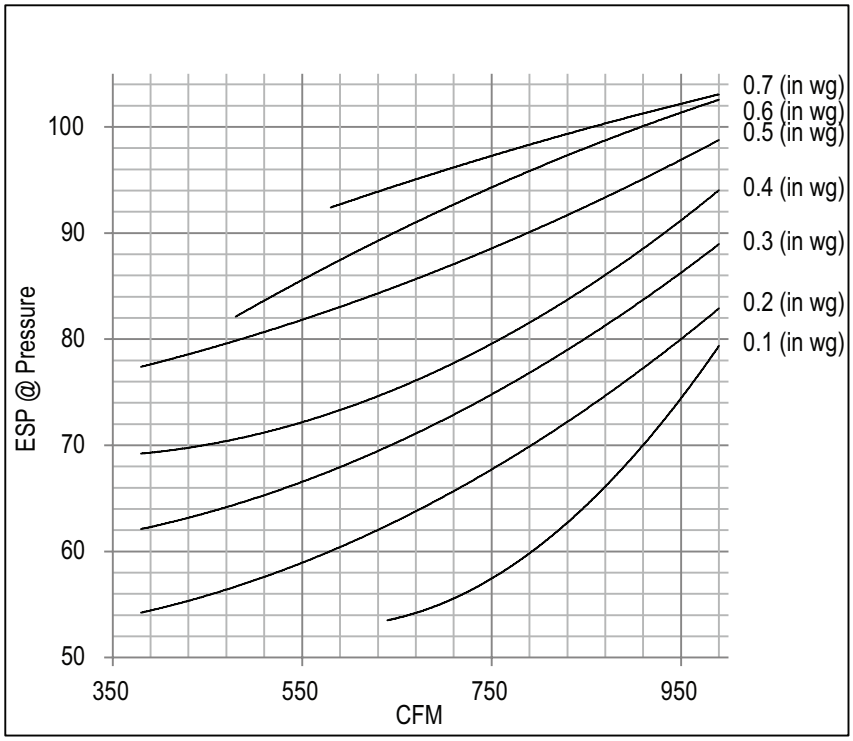
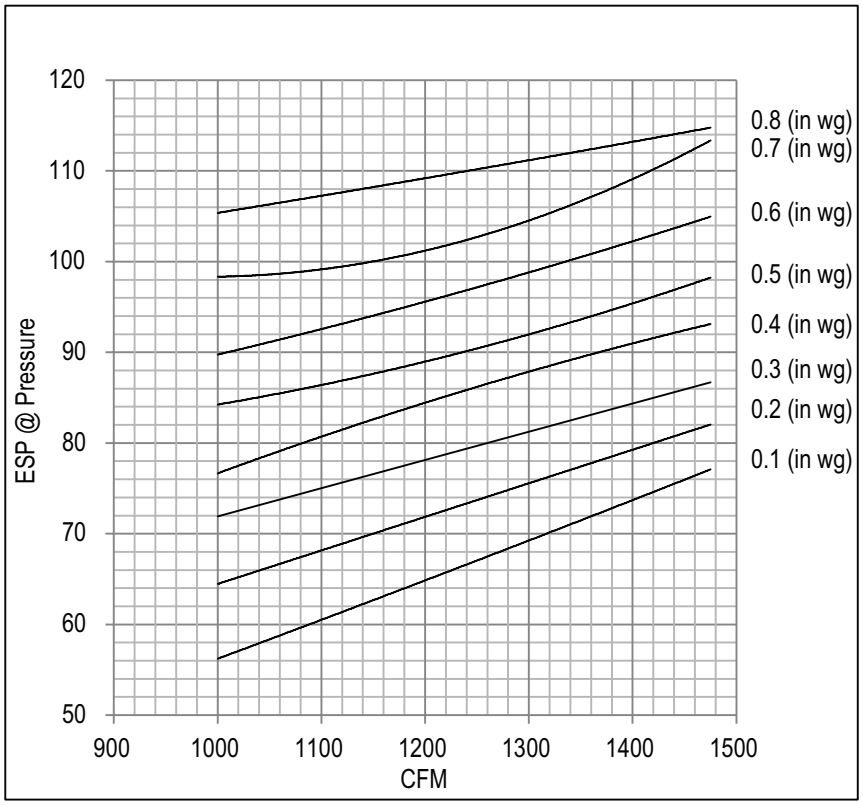


Figure 50: NK Frame External Static Pressure and Air Flow Chart.



External Static Pressure Ranges for NJ Frames

Table 135: NJ Frame External Static Pressure and Air Flow Table.

Model No. / Capacity (MBh)	Flow Rate		Static Pressure (in. WG)									
	Mode	CFM	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
ARNU123NJA / 12	High	530	**53	58	66	72	82	84	92	*92	*92	*92
	Mid	480	**53	56	64	70	79	83	92	*92	*92	*92
	Low	380	**53	54	62	69	77	83	92	*92	*92	*92
ARNU183NJA4 / 18	High	580	**53	60	68	74	84	85	95	*95	*95	*95
	Mid	530	**53	58	66	72	82	84	92	*92	*92	*92
	Low	480	**53	55	64	70	79	83	92	*92	*92	*92
ARNU243NJA4 / 24	High	710	56	67	74	78	87	94	98	*98	*98	*98
	Mid	640	53	65	70	75	85	91	96	*96	*96	*96
	Low	480	**53	55	64	70	79	84	92	*92	*92	*92
ARNU303NJA4 / 30	High	880	65	72	80	85	92	98	103	*103	*103	*103
	Mid	800	62	69	77	82	90	96	101	*101	*101	*101
	Low	640	53	65	70	75	85	91	96	*96	*96	*96
ARNU363NJA4 / 36	High	990	80	85	90	95	100	103	*103	*103	*103	*103
	Mid	880	65	72	80	85	92	98	103	*103	*103	*103
	Low	800	62	69	77	82	90	96	101	*101	*101	*101

External Static Pressure Ranges for NK Frames

Table 136: NK Frame External Static Pressure and Air Flow Table.

Model No. / Capacity (MBh)	Flow Rate		Static Pressure (in. WG)									
	Mode	CFM	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
ARNU423NKA4 / 42	High	1,260	67	75	80	87	90	98	102	110	*115	*115
	Mid	1,100	61	67	75	80	87	92	100	108	110	115
	Low	1,000	56	65	72	77	84	90	98	105	108	115
ARNU483NKA4 / 48	High	1,400	74	79	84	91	96	102	110	115	*115	*115
	Mid	1,260	67	75	80	87	90	98	102	110	115	*115
	Low	1,000	56	65	72	77	84	90	98	105	108	115
ARNU543NKA4 / 54	High	1,475	77	82	87	93	98	105	113	115	*115	*115
	Mid	1,400	74	79	84	91	96	102	110	113	*115	*115
	Low	1,260	67	75	80	87	90	98	102	110	115	*115

* Flow rate (CFM) decreases by 3% per 0.1 in. WG.

** Fan external static pressure is at minimum value.

Minimum airflow rates are listed in CFM.
If the flow rate (CFM) is increased by 400 CFM/ton from 1.5 tons to 2.5 tons of capacity, then ESP value must be increased by 4.
If the flow rate (CFM) is increased by 400 CFM/ton from 3.0 tons to 4.5 tons of capacity, then The ESP value must be increased by 5.

Factory Default is high static pressure.
High static pressure is 0.5 in wg.
Low static pressure is 0.3 in wg.

Note:
If the ESP is set incorrectly, the air conditioning may malfunction.

VERTICAL / HORIZONTAL AIR HANDLER

Heater Capacity Airflow / Static Pressure Drop Factors

Table 137: Minimum Airflow by Heater Capacity.

Capacity (MBh [tons])	Heater Capacity (kW)					
	3	5	8	10	15	20
12 (1.0)	380	380	380	Not available	Not available	Not available
18 (1.5)	480	480	480	480	Not available	Not available
24 (2.0)	480	480	480	480	Not available	Not available
30 (2.5)	630	630	630	630	Not available	Not available
36 (3.0)	800	800	800	800	800	800
42 (3.5)	1,000	1,000	1,000	1,000	1,000	1,000
48 (4.0)	1,000	1,000	1,000	1,000	1,000	1,000
54 (4.5)	1,260	1,260	1,260	1,260	1,260	1,260

Airflow rates in the table above are listed in CFM.

Flow rate (CFM) is decreased by 3% per 0.1 in wg from 0.8 in wg to 1.0 in wg.

⚠WARNING

Do not operate with less than the minimum airflow. If an airflow is used below the minimum, there is a risk of fire, which may lead to physical injury or death.

Note:

Do not operate with less than the minimum airflow. If an airflow is used below the minimum, there is a risk of damage to the product.

Table 138: Electric Heater Static Pressure Drop Factors.

Heater Capacity (kW)	Static Pressure Drop (in. wg)
0	0
3	-0.01
5	-0.01
8	-0.02
10	-0.02
15	-0.04
20	-0.06

in wg = inch water gauge

If the electric heater has been installed, then the ESP value has to be set.

For every increase in static pressure by 0.01 in wg, the ESP value must be increased by 1.

If the ESP setting value is inappropriate, the provided safety device will turn the heater off according to the airflow.

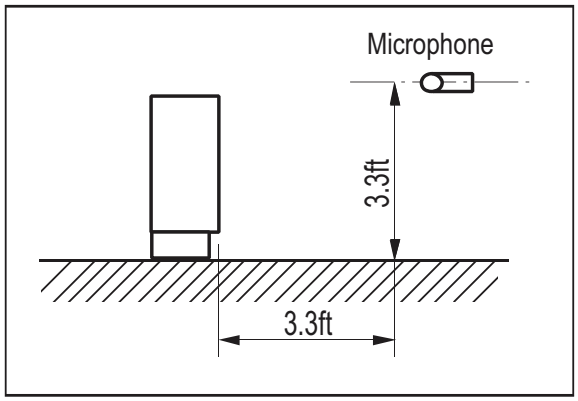
Note:

If a Third-Party Dry Contact and an LG internal heater or an LG Auxiliary Heat Kit is installed, supplemental heat capability cannot be controlled by the Third-PartyThermostat.

Acoustic Data

Sound Pressure Levels

Figure 51: Sound Pressure Measurement Location.



- Measurements are taken 3.3 ft away from the front of the unit.
- Sound pressure levels are measured in dB(A) with a tolerance of ±3.
- Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

Operating Conditions:

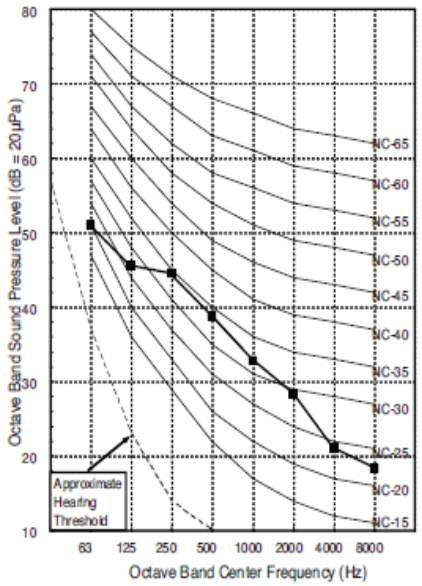
- Power source: 220V/60 Hz
- Sound level will vary depending on a range of factors including the construction (acoustic absorption coefficient) of a particular room in which the unit was installed.

Table 139: Vertical / Horizontal Air Handler Unit Sound Pressure Levels.

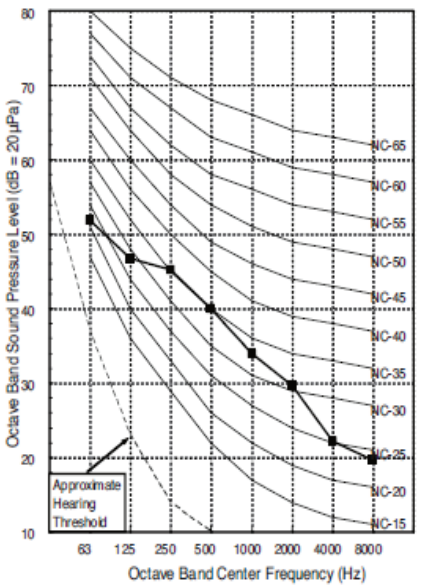
Model	Sound Pressure Levels dB(A)		
	High Fan Speed	Medium Fan Speed	Low Fan Speed
NJ Frames			
ARNU123NJA4	42	41	39
ARNU183NJA4	42	42	41
ARNU243NJA4	43	42	41
ARNU303NJA4	44	43	42
ARNU363NJA4	45	44	43
NK Frames			
ARNU423NKA4	46	44	41
ARNU483NKA4	49	47	41
ARNU543NKA4	50	49	47

Figure 52: ARNU123NJA4, ARNU183NJA4, and ARNU243NJA4 Sound Pressure Level Diagrams.

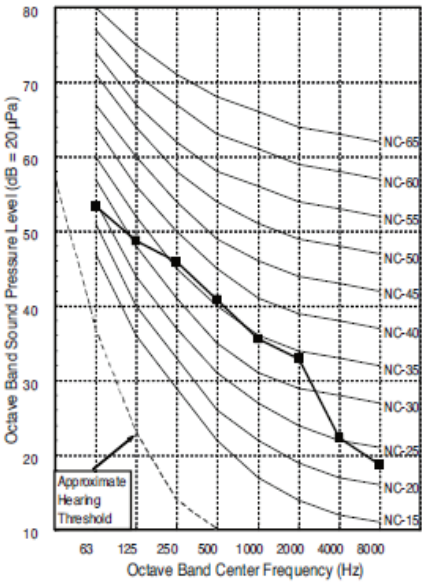
ARNU123NJA4



ARNU183NJA4



ARNU243NJA4



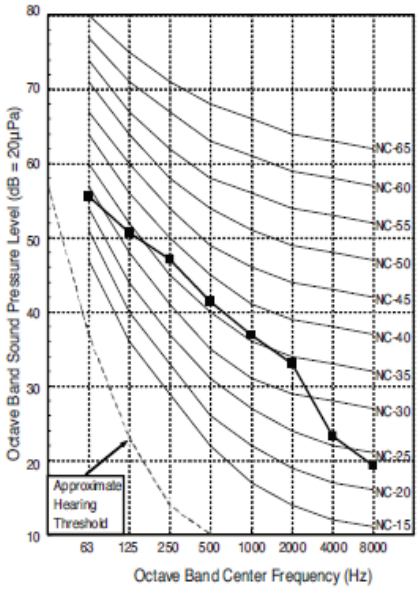
VERTICAL / HORIZONTAL AIR HANDLER

Acoustic Data

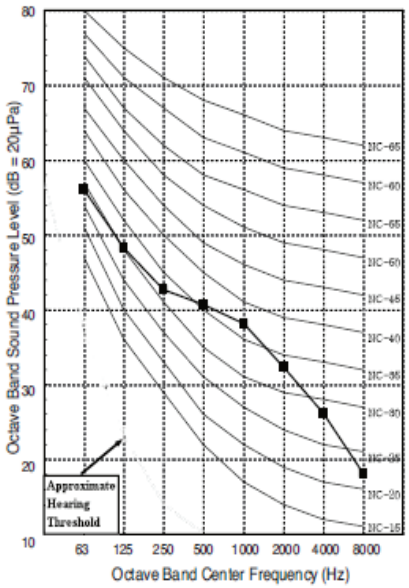
Sound Pressure Levels

Figure 53: ARNU303NJA4, ARNU363NJA4, and ARNU423NKA4 Sound Pressure Level Diagrams.

ARNU303NJA4



ARNU363NJA4



ARNU423NKA4

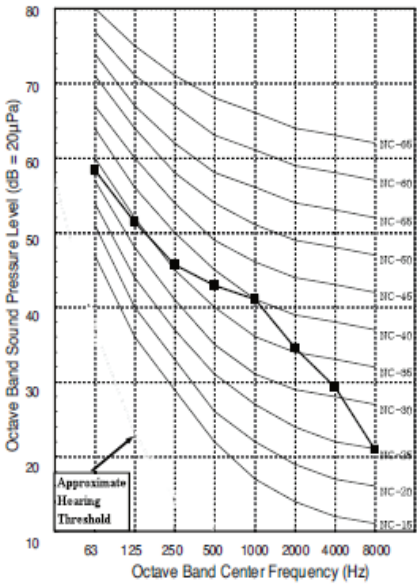
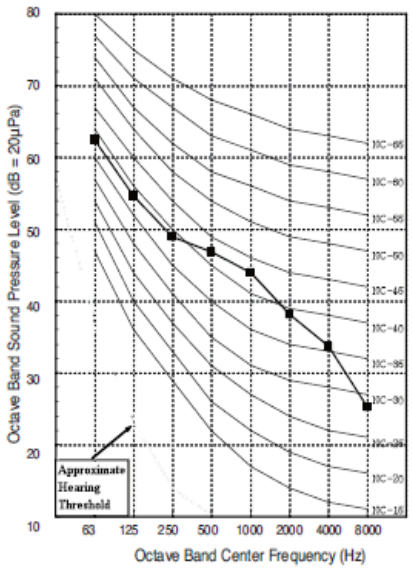
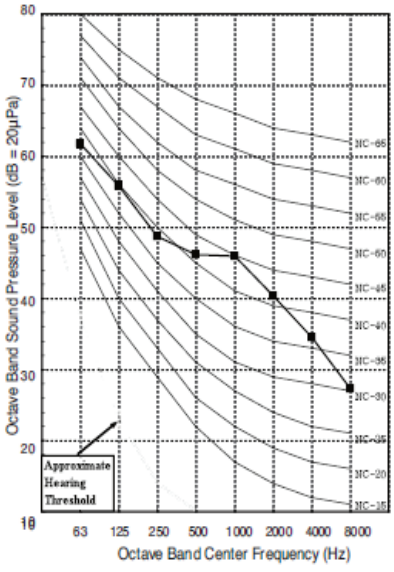


Figure 54: ARNU483NKA4 and ARNU543NKA4 Sound Pressure Level Diagrams.

ARNU483NKA4



ARNU543NKA4



Sound Power Levels

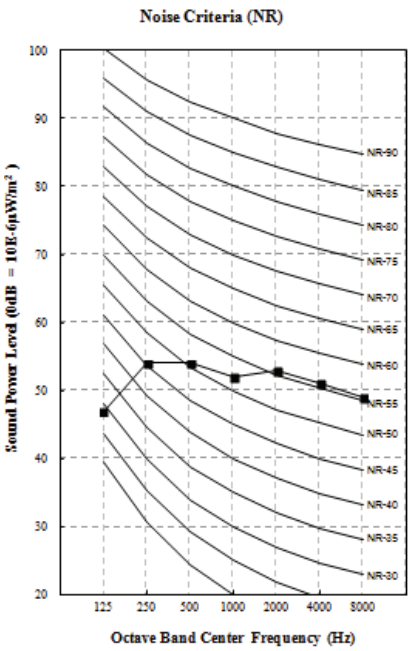
Table 140: Vertical / Horizontal Air Handler Unit Sound Power Levels.

Model	Sound Power Levels dB(A)
	High Fan Speed
NJ Frames	
ARNU123NJA4	59
ARNU183NJA4	59
ARNU243NJA4	60
ARNU303NJA4	60
ARNU363NJA4	61
NK Frames	
ARNU423NKA4	61
ARNU483NKA4	62
ARNU543NKA4	63

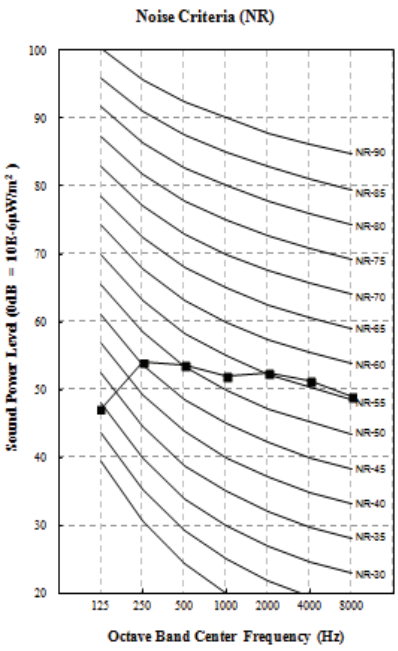
- Data is valid under diffuse field conditions.
- Data is valid under nominal operating conditions.
- Sound power level is measured using rated conditions, and tested in a reverberation room per ISO 3741 standards.
- Sound level will vary depending on a range of factors such as construction (acoustic absorption coefficient) of particular area in which the equipment is installed.
- Reference acoustic intensity: 0dB = 10E-6μW/m^2

Figure 55: ARNU123NJA4, ARNU183NJA4, and ARNU243NJA4 Sound Power Level Diagrams.

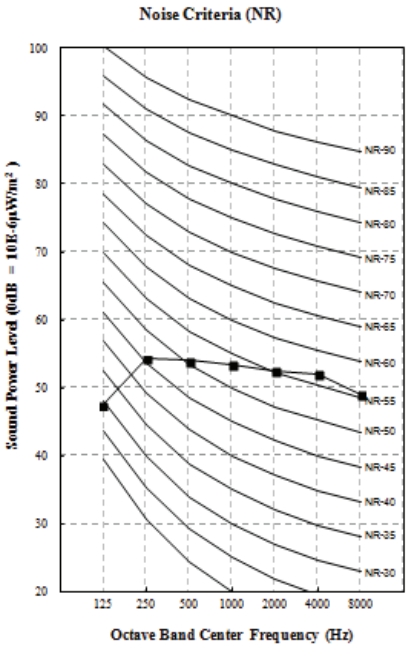
ARNU123NJA4



ARNU183NJA4



ARNU243NJA4



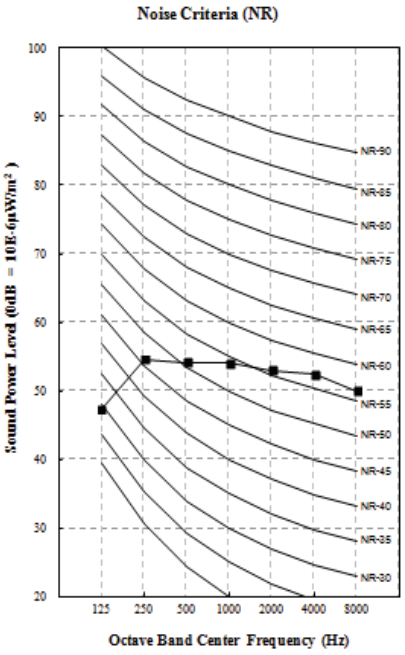
VERTICAL / HORIZONTAL AIR HANDLER

Acoustic Data

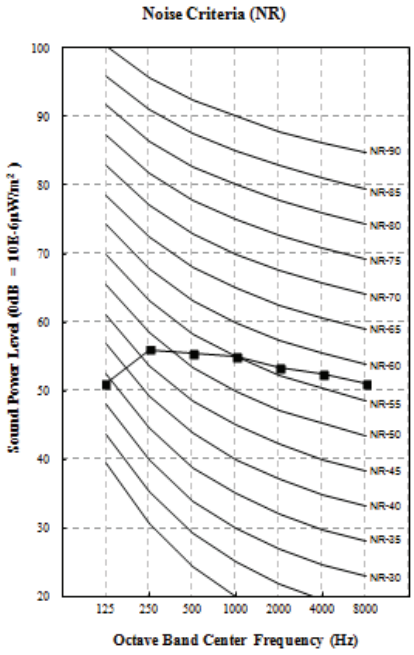
Sound Power Levels

Figure 56: ARNU303NJA4, ARNU363NJA4, and ARNU423NKA4 Sound Power Level Diagrams.

ARNU303NJA4



ARNU363NJA4



ARNU423NKA4

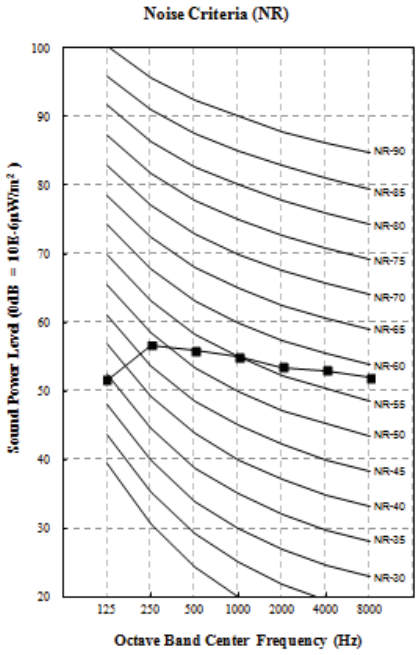
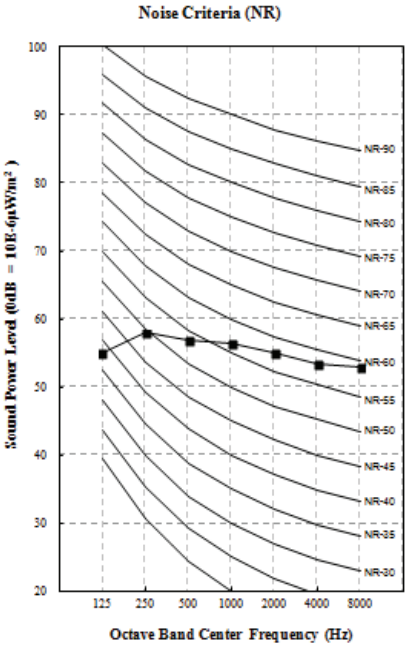
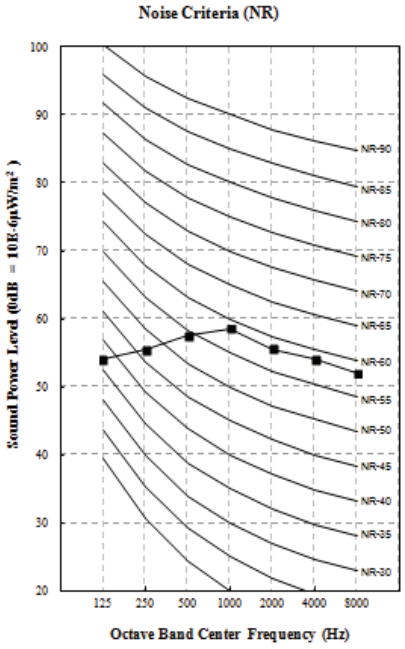


Figure 57: ARNU483NKA4 and ARNU543NKA4 Sound Power Level Diagrams.

ARNU483NKA4



ARNU543NKA4



VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU123NJA4

Table 141: ARNU123NJA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU123NJA4/ 12.0	-9.9	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	-5	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	0	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	5	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	10	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	14	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	20	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	23	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	25	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	30	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	35	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	40	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	45	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	50	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	55	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.5	10.8
	60	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.4	10.8
	65	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	15.1	10.6
	70	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	14.9	10.4
	75	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	14.3	10.8	14.5	10.2
	80	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.5	10.9	13.9	10.8	14.2	10.1
	85	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.3	10.8	13.5	10.3	13.7	9.7
	90	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	13.1	10.7	13.2	10.1	13.5	9.6
	95	7.9	7.8	9.6	9.0	10.8	9.6	**12.0**	**10.2**	12.9	10.6	13.1	10.1	13.3	9.5
	100	7.9	7.8	9.6	9.0	10.8	9.6	12.0	10.2	12.6	10.4	12.9	10.0	13.1	9.5
	105	7.9	7.8	9.1	8.5	10.3	9.2	11.5	9.7	12.0	9.7	12.4	9.6	12.7	9.2
	110	7.7	7.6	8.7	8.1	9.6	8.5	10.8	9.2	11.3	9.2	11.8	9.2	12.3	8.9
	115	7.5	7.3	8.2	7.7	9.0	8.0	10.2	8.7	10.6	8.7	11.2	8.7	11.8	8.6
	118	7.3	7.1	7.8	7.3	8.6	7.5	9.7	8.3	10.1	8.3	10.7	8.3	11.3	8.2
	122	7.1	6.9	7.4	6.9	8.1	7.1	9.2	7.9	9.6	7.9	10.1	7.9	10.8	7.9

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU183NJA4

Table 142: ARNU183NJA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU183NJA4/ 18.0	-9.9	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	-5	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	0	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	5	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	10	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	14	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	20	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	23	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	25	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	30	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	35	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	40	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	45	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	50	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	55	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.3	13.6
	60	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	23.0	13.5
	65	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	22.7	13.3
	70	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	22.4	13.1
	75	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	21.5	13.6	21.8	12.8
	80	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.2	13.7	20.9	13.5	21.2	12.7
	85	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	20.0	13.6	20.2	12.9	20.6	12.2
	90	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	19.7	13.4	19.8	12.7	20.2	12.1
	95	11.9	9.8	14.4	11.3	16.2	12.0	**18.0**	**12.8**	19.3	13.3	19.7	12.7	20.0	11.9
	100	11.9	9.8	14.4	11.3	16.2	12.0	18.0	12.8	18.9	13.1	19.3	12.5	19.7	11.9
	105	11.9	9.8	13.7	10.7	15.5	11.5	17.3	12.2	17.9	12.2	18.5	12.1	19.1	11.6
	110	11.6	9.5	13.0	10.1	14.4	10.7	16.2	11.5	17.0	11.5	17.6	11.5	18.4	11.2
	115	11.3	9.2	12.3	9.6	13.5	10.1	15.2	10.9	15.9	10.9	16.7	10.9	17.6	10.8
	118	11.0	8.9	11.7	9.1	12.9	9.5	14.6	10.4	15.2	10.4	16.0	10.4	16.9	10.3
	122	10.7	8.7	11.1	8.7	12.2	8.9	13.8	9.9	14.4	9.9	15.1	9.9	16.3	9.9

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU243NJA4

Table 143: ARNU243NJA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU243NJA4/ 24.0	-9.9	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	-5	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	0	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	5	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	10	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	14	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	20	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	23	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	25	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	30	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	35	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	40	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	45	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	50	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	55	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	31.0	18.9
	60	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	30.7	18.8
	65	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	30.2	18.5
	70	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	29.8	18.2
	75	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	28.6	18.9	29.0	17.8
	80	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.9	19.1	27.8	18.8	28.3	17.7
	85	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.6	18.9	26.9	18.0	27.4	17.0
	90	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	26.2	18.6	26.4	17.7	26.9	16.8
	95	15.8	13.6	19.2	15.7	21.6	16.7	**24.0**	**17.8**	25.7	18.5	26.2	17.6	26.6	16.6
	100	15.8	13.6	19.2	15.7	21.6	16.7	24.0	17.8	25.2	18.2	25.7	17.4	26.2	16.5
	105	15.8	13.6	18.2	14.9	20.6	16.0	23.0	17.0	23.9	17.0	24.7	16.8	25.4	16.1
	110	15.4	13.2	17.3	14.1	19.2	14.9	21.6	16.0	22.6	16.0	23.5	16.0	24.5	15.6
	115	15.0	12.8	16.4	13.4	18.0	14.0	20.3	15.2	21.2	15.2	22.3	15.2	23.5	15.0
	118	14.6	12.4	15.6	12.7	17.1	13.2	19.5	14.4	20.3	14.4	21.3	14.4	22.6	14.4
	122	14.3	12.0	14.8	12.1	16.2	12.4	18.4	13.7	19.2	13.7	20.2	13.7	21.7	13.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU303NJA4

Table 144: ARNU303NJA4 Cooling Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU303NJA4/ 30.0	-9.9	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	-5	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	0	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	5	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	10	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	14	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	20	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	23	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	25	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	30	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	35	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	40	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	45	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	50	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	55	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.8	22.9
	60	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	38.4	22.8
	65	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	37.8	22.4
	70	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	37.3	22.1
	75	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	35.8	22.9	36.3	21.6
	80	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.6	23.2	34.8	22.8	35.4	21.5
	85	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	33.3	22.9	33.6	21.8	34.3	20.6
	90	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	32.8	22.6	33.0	21.5	33.6	20.4
	95	19.8	16.5	24.0	19.1	27.0	20.3	**30.0**	**21.6**	32.1	22.4	32.8	21.4	33.3	20.1
	100	19.8	16.5	24.0	19.1	27.0	20.3	30.0	21.6	31.5	22.1	32.1	21.1	32.8	20.0
	105	19.8	16.5	22.8	18.1	25.8	19.4	28.8	20.6	29.9	20.6	30.9	20.4	31.8	19.5
	110	19.3	16.0	21.6	17.1	24.0	18.1	27.0	19.4	28.3	19.4	29.4	19.4	30.6	18.9
	115	18.8	15.6	20.6	16.2	22.6	17.0	25.4	18.4	26.6	18.4	27.9	18.4	29.4	18.2
	118	18.3	15.1	19.5	15.4	21.4	16.0	24.4	17.5	25.4	17.5	26.6	17.5	28.2	17.4
	122	17.8	14.6	18.5	14.6	20.3	15.0	23.0	16.6	24.0	16.6	25.2	16.6	27.1	16.6

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU363NJA4

Table 145: ARNU363NJA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU363NJA4/ 36.0	-9.9	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	-5	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	0	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	5	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	10	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	14	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	20	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	23	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	25	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	30	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	35	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	40	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	45	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	50	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	55	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.5	27.5
	60	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	46.1	27.3
	65	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	45.3	26.9
	70	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	44.7	26.5
	75	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	42.9	27.5	43.5	25.9
	80	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	40.4	27.8	41.7	27.3	42.5	25.7
	85	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	39.9	27.5	40.4	26.2	41.1	24.7
	90	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	39.3	27.0	39.6	25.7	40.4	24.4
	95	23.7	19.8	28.8	22.8	32.4	24.3	**36.0**	**25.9**	38.6	26.9	39.3	25.6	39.9	24.1
	100	23.7	19.8	28.8	22.8	32.4	24.3	36.0	25.9	37.8	26.5	38.6	25.3	39.3	24.0
	105	23.7	19.8	27.3	21.7	30.9	23.3	34.5	24.7	35.9	24.7	37.1	24.4	38.1	23.4
	110	23.1	19.2	26.0	20.5	28.8	21.7	32.4	23.3	33.9	23.3	35.3	23.3	36.8	22.7
	115	22.5	18.6	24.7	19.5	27.1	20.4	30.5	22.1	31.9	22.1	33.5	22.1	35.3	21.8
	118	22.0	18.1	23.4	18.5	25.7	19.2	29.2	21.0	30.4	21.0	32.0	21.0	33.9	20.9
	122	21.4	17.5	22.2	17.5	24.3	18.0	27.6	19.9	28.8	19.9	30.2	19.9	32.5	19.9

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU423NKA4

Table 146: ARNU423NKA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU423NKA4/ 42.0	-9.9	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	-5	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	0	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	5	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	10	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	14	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	20	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	23	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	25	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	30	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	35	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	40	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	45	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	50	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	55	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	54.3	32.1
	60	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	53.7	31.9
	65	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	52.9	31.4
	70	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	52.2	30.9
	75	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	50.1	32.1	50.8	30.2
	80	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	47.1	32.4	48.7	31.9	49.5	30.0
	85	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	46.6	32.1	47.1	30.5	48.0	28.8
	90	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	45.9	31.6	46.2	30.0	47.1	28.5
	95	27.7	23.1	33.6	26.6	37.8	28.3	**42.0**	**30.2**	45.0	31.4	45.9	29.9	46.6	28.2
	100	27.7	23.1	33.6	26.6	37.8	28.3	42.0	30.2	44.1	30.9	45.0	29.5	45.9	28.0
	105	27.7	23.1	31.9	25.3	36.1	27.1	40.3	28.8	41.9	28.8	43.2	28.5	44.5	27.3
	110	27.0	22.4	30.3	23.9	33.6	25.3	37.8	27.1	39.6	27.1	41.1	27.1	42.9	26.5
	115	26.3	21.7	28.8	22.7	31.6	23.8	35.5	25.8	37.2	25.8	39.1	25.8	41.2	25.4
	118	25.6	21.1	27.3	21.6	30.0	22.3	34.1	24.5	35.5	24.5	37.3	24.5	39.5	24.4
	122	24.9	20.4	26.0	20.5	28.4	21.0	32.3	23.3	33.6	23.3	35.3	23.3	37.9	23.3

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU483NKA4

Table 147: ARNU483NKA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU483NKA4/ 48.0	-9.9	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	-5	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	0	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	5	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	10	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	14	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	20	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	23	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	25	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	30	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	35	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	40	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	45	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	50	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	55	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	62.0	35.2
	60	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	61.4	35.0
	65	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	60.4	34.4
	70	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	59.6	33.9
	75	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	57.2	35.2	58.0	33.1
	80	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.8	35.5	55.6	35.0	56.6	32.9
	85	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	53.2	35.2	53.8	33.5	54.8	31.6
	90	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	52.4	34.6	52.8	32.9	53.8	31.3
	95	31.6	25.3	38.4	29.2	43.2	31.1	**48.0**	**33.1**	51.4	34.4	52.4	32.7	53.2	30.9
	100	31.6	25.3	38.4	29.2	43.2	31.1	48.0	33.1	50.4	33.9	51.4	32.4	52.4	30.7
	105	31.6	25.3	36.4	27.7	41.2	29.8	46.0	31.6	47.9	31.6	49.4	31.3	50.8	30.0
	110	30.8	24.6	34.6	26.2	38.4	27.7	43.2	29.8	45.2	29.8	47.0	29.8	49.0	29.0
	115	30.0	23.8	32.9	24.9	36.1	26.1	40.6	28.3	42.5	28.3	44.6	28.3	47.0	27.9
	118	29.3	23.1	31.2	23.6	34.3	24.5	39.0	26.9	40.6	26.9	42.6	26.9	45.2	26.7
	122	28.5	22.4	29.7	22.5	32.4	23.1	36.9	25.5	38.4	25.5	40.3	25.5	43.3	25.5

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Cooling Capacity Tables

ARNU543NKA4

Table 148: ARNU543NKA4 Cooling Capacity Table.

Model No./ Capacity Index	Outdoor Air Temp. (°F DB)	Indoor Air Temperature (°F DB / WB)													
		68 / 57		73 / 61		79 / 64		80 / 67		85 / 70		88 / 73		91 / 76	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
ARNU543NKA4/ 54.0	-9.9	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	-5	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	0	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	5	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	10	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	14	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	20	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	23	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	25	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	30	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	35	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	40	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	45	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	50	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	55	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.8	39.6
	60	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	69.1	39.4
	65	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	68.0	38.8
	70	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	67.1	38.2
	75	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	64.4	39.6	65.3	37.3
	80	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	60.5	40.0	62.6	39.4	63.7	37.1
	85	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	59.9	39.6	60.5	37.7	61.7	35.6
	90	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	59.0	39.0	59.4	37.1	60.5	35.2
	95	35.6	28.5	43.2	32.9	48.6	35.0	**54.0**	**37.3**	57.8	38.8	59.0	36.9	59.9	34.8
	100	35.6	28.5	43.2	32.9	48.6	35.0	54.0	37.3	56.7	38.2	57.8	36.5	59.0	34.6
	105	35.6	28.5	41.0	31.2	46.4	33.5	51.8	35.6	53.8	35.6	55.6	35.2	57.2	33.8
	110	34.7	27.7	38.9	29.6	43.2	31.2	48.6	33.5	50.9	33.5	52.9	33.5	55.1	32.7
	115	33.8	26.9	37.0	28.1	40.6	29.4	45.7	31.9	47.8	31.9	50.2	31.9	52.9	31.4
	118	32.9	26.0	35.1	26.6	38.6	27.6	43.8	30.3	45.6	30.3	48.0	30.3	50.8	30.1
	122	32.1	25.2	33.4	25.3	36.5	26.0	41.5	28.7	43.2	28.7	45.4	28.7	48.8	28.7

TC: Total Capacity (MBh); SHC: Sensible Heat Capacity (MBh).

Cooling range with the Low Ambient Baffle Kit (sold separately) installed on the outdoor unit(s) is -9.9°F to +122°F, and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.
Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU123NJA4

Table 149: ARNU123NJA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU123NJA4 / 12.0	-21.6	-22.0	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.8
	-17.1	-17.5	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.6
	-12.6	-13	8.5	8.5	8.5	8.5	8.4	8.4	8.4	8.4
	-7	-7.6	8.8	8.8	8.8	8.8	8.6	8.6	8.6	8.6
	-4	-4.4	9.1	9.1	9.1	9.1	8.9	8.9	8.9	8.9
	0	-0.4	9.3	9.3	9.3	9.3	9.3	9.2	9.2	9.2
	5	4.5	10.5	10.4	10.3	10.3	10.3	10.3	10.3	10.3
	10	9	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.8
	15	14	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.3
	20	19	12.3	12.3	12.3	12.3	12.0	12.0	11.8	11.7
	25	23	12.8	12.8	12.8	12.8	12.8	12.6	12.4	11.8
	30	28	13.1	13.1	13.1	13.1	13.1	12.8	12.4	11.8
	35	32	13.5	13.5	13.5	13.5	13.4	13.1	12.4	11.8
	40	36	14.0	14.0	14.0	14.0	13.5	13.1	12.4	11.8
	45	41	14.6	14.6	14.6	14.2	13.5	13.1	12.4	11.8
	47	43	15.1	15.0	14.9	14.2	**13.5**	13.1	12.4	11.8
	50	46	16.2	15.5	14.9	14.2	13.5	13.1	12.4	11.8
	55	51	16.5	15.7	14.9	14.2	13.5	13.1	12.4	11.8
	60	56	16.5	15.7	14.9	14.2	13.5	13.1	12.4	11.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU183NJA4

Table 150: ARNU183NJA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor air temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU183NJA4 / 18.0	-21.6	-22.0	10.1	10.1	10.1	10.1	10.0	10.0	10.0	10.0
	-17.1	-17.5	11.4	11.4	11.4	11.4	11.2	11.2	11.2	11.2
	-12.6	-13	12.6	12.6	12.6	12.6	12.4	12.4	12.4	12.4
	-7	-7.6	13.0	13.0	13.0	13.0	12.8	12.8	12.8	12.8
	-4	-4.4	13.4	13.4	13.4	13.4	13.2	13.2	13.2	13.2
	0	-0.4	13.8	13.8	13.8	13.8	13.8	13.6	13.6	13.6
	5	4.5	15.6	15.4	15.2	15.2	15.2	15.2	15.2	15.2
	10	9	16.2	16.2	16.2	16.0	16.0	16.0	16.0	16.0
	15	14	17.2	17.2	17.2	17.2	17.2	17.2	17.0	16.8
	20	19	18.2	18.2	18.2	18.2	17.8	17.8	17.5	17.3
	25	23	19.0	19.0	19.0	19.0	19.0	18.6	18.4	17.5
	30	28	19.4	19.4	19.4	19.4	19.4	19.0	18.4	17.5
	35	32	20.0	20.0	20.0	20.0	19.8	19.4	18.4	17.5
	40	36	20.8	20.8	20.8	20.8	20.0	19.4	18.4	17.5
	45	41	21.6	21.6	21.6	21.0	20.0	19.4	18.4	17.5
	47	43	22.4	22.2	22.0	21.0	**20.0**	19.4	18.4	17.5
	50	46	24.0	23.0	22.0	21.0	20.0	19.4	18.4	17.5
	55	51	24.5	23.2	22.0	21.0	20.0	19.4	18.4	17.5
	60	56	24.5	23.2	22.0	21.0	20.0	19.4	18.4	17.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU243NJA4

Table 151: ARNU243NJA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU243NJA4 / 24.0	-21.6	-22.0	13.7	13.7	13.7	13.7	13.5	13.5	13.5	13.5
	-17.1	-17.5	15.4	15.4	15.4	15.4	15.1	15.1	15.1	15.1
	-12.6	-13	17.0	17.0	17.0	17.0	16.8	16.8	16.8	16.8
	-7	-7.6	17.6	17.6	17.6	17.6	17.3	17.3	17.3	17.3
	-4	-4.4	18.1	18.1	18.1	18.1	17.8	17.8	17.8	17.8
	0	-0.4	18.6	18.6	18.6	18.6	18.6	18.4	18.4	18.4
	5	4.5	21.1	20.8	20.5	20.5	20.5	20.5	20.5	20.5
	10	9	21.9	21.9	21.9	21.6	21.6	21.6	21.6	21.6
	15	14	23.2	23.2	23.2	23.2	23.2	23.2	23.0	22.7
	20	19	24.6	24.6	24.6	24.6	24.0	24.0	23.6	23.4
	25	23	25.7	25.7	25.7	25.7	25.7	25.1	24.8	23.6
	30	28	26.2	26.2	26.2	26.2	26.2	25.7	24.8	23.6
	35	32	27.0	27.0	27.0	27.0	26.7	26.2	24.8	23.6
	40	36	28.1	28.1	28.1	28.1	27.0	26.2	24.8	23.6
	45	41	29.2	29.2	29.2	28.4	27.0	26.2	24.8	23.6
	47	43	30.2	30.0	29.7	28.4	**27.0**	26.2	24.8	23.6
	50	46	32.4	31.1	29.7	28.4	27.0	26.2	24.8	23.6
	55	51	33.1	31.3	29.7	28.4	27.0	26.2	24.8	23.6
	60	56	33.1	31.3	29.7	28.4	27.0	26.2	24.8	23.6

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU303NJA4

Table 152: ARNU303NJA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU303NJA4 / 30.0	-21.6	-22.0	17.3	17.3	17.3	17.3	17.0	17.0	17.0	17.0
	-17.1	-17.5	19.3	19.3	19.3	19.3	19.1	19.1	19.1	19.1
	-12.6	-13	21.4	21.4	21.4	21.4	21.1	21.1	21.1	21.1
	-7	-7.6	22.1	22.1	22.1	22.1	21.8	21.8	21.8	21.8
	-4	-4.4	22.8	22.8	22.8	22.8	22.4	22.4	22.4	22.4
	0	-0.4	23.5	23.5	23.5	23.5	23.5	23.1	23.1	23.1
	5	4.5	26.5	26.2	25.8	25.8	25.8	25.8	25.8	25.8
	10	9	27.5	27.5	27.5	27.2	27.2	27.2	27.2	27.2
	15	14	29.2	29.2	29.2	29.2	29.2	29.2	28.9	28.6
	20	19	30.9	30.9	30.9	30.9	30.3	30.3	29.8	29.4
	25	23	32.3	32.3	32.3	32.3	32.3	31.6	31.3	29.8
	30	28	33.0	33.0	33.0	33.0	33.0	32.3	31.3	29.8
	35	32	34.0	34.0	34.0	34.0	33.7	33.0	31.3	29.8
	40	36	35.4	35.4	35.4	35.4	34.0	33.0	31.3	29.8
	45	41	36.7	36.7	36.7	35.7	34.0	33.0	31.3	29.8
	47	43	38.1	37.7	37.4	35.7	**34.0**	33.0	31.3	29.8
	50	46	40.8	39.1	37.4	35.7	34.0	33.0	31.3	29.8
	55	51	41.7	39.4	37.4	35.7	34.0	33.0	31.3	29.8
	60	56	41.7	39.4	37.4	35.7	34.0	33.0	31.3	29.8

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU363NJA4

Table 153: ARNU363NJA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU363NJA4 / 36.0	-21.6	-22.0	20.3	20.3	20.3	20.3	20.0	20.0	20.0	20.0
	-17.1	-17.5	22.7	22.7	22.7	22.7	22.4	22.4	22.4	22.4
	-12.6	-13	25.2	25.2	25.2	25.2	24.8	24.8	24.8	24.8
	-7	-7.6	26.0	26.0	26.0	26.0	25.6	25.6	25.6	25.6
	-4	-4.4	26.8	26.8	26.8	26.8	26.4	26.4	26.4	26.4
	0	-0.4	27.6	27.6	27.6	27.6	27.6	27.2	27.2	27.2
	5	4.5	31.2	30.8	30.4	30.4	30.4	30.4	30.4	30.4
	10	9	32.4	32.4	32.4	32.0	32.0	32.0	32.0	32.0
	15	14	34.4	34.4	34.4	34.4	34.4	34.4	34.0	33.6
	20	19	36.4	36.4	36.4	36.4	35.6	35.6	35.0	34.6
	25	23	38.0	38.0	38.0	38.0	38.0	37.2	36.8	35.0
	30	28	38.8	38.8	38.8	38.8	38.8	38.0	36.8	35.0
	35	32	40.0	40.0	40.0	40.0	39.6	38.8	36.8	35.0
	40	36	41.6	41.6	41.6	41.6	40.0	38.8	36.8	35.0
	45	41	43.2	43.2	43.2	42.0	40.0	38.8	36.8	35.0
	47	43	44.8	44.4	44.0	42.0	**40.0**	38.8	36.8	35.0
	50	46	48.0	46.0	44.0	42.0	40.0	38.8	36.8	35.0
	55	51	49.0	46.4	44.0	42.0	40.0	38.8	36.8	35.0
	60	56	49.0	46.4	44.0	42.0	40.0	38.8	36.8	35.0

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU423NKA4

Table 154: ARNU423NKA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU423NKA4 / 42.0	-21.6	-22.0	23.3	23.3	23.3	23.3	23.0	23.0	23.0	23.0
	-17.1	-17.5	26.2	26.2	26.2	26.2	25.8	25.8	25.8	25.8
	-12.6	-13	29.0	29.0	29.0	29.0	28.6	28.6	28.6	28.6
	-7	-7.6	29.9	29.9	29.9	29.9	29.4	29.4	29.4	29.4
	-4	-4.4	30.8	30.8	30.8	30.8	30.4	30.4	30.4	30.4
	0	-0.4	31.7	31.7	31.7	31.7	31.7	31.3	31.3	31.3
	5	4.5	35.9	35.4	35.0	35.0	35.0	35.0	35.0	35.0
	10	9	37.3	37.3	37.3	36.8	36.8	36.8	36.8	36.8
	15	14	39.6	39.6	39.6	39.6	39.6	39.6	39.1	38.6
	20	19	41.9	41.9	41.9	41.9	40.9	40.9	40.3	39.8
	25	23	43.7	43.7	43.7	43.7	43.7	42.8	42.3	40.3
	30	28	44.6	44.6	44.6	44.6	44.6	43.7	42.3	40.3
	35	32	46.0	46.0	46.0	46.0	45.5	44.6	42.3	40.3
	40	36	47.8	47.8	47.8	47.8	46.0	44.6	42.3	40.3
	45	41	49.7	49.7	49.7	48.3	46.0	44.6	42.3	40.3
	47	43	51.5	51.1	50.6	48.3	**46.0**	44.6	42.3	40.3
	50	46	55.2	52.9	50.6	48.3	46.0	44.6	42.3	40.3
	55	51	56.4	53.4	50.6	48.3	46.0	44.6	42.3	40.3
	60	56	56.4	53.4	50.6	48.3	46.0	44.6	42.3	40.3

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU483NKA4

Table 155: ARNU483NKA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU483NKA4 / 48.0	-21.6	-22.0	27.4	27.4	27.4	27.4	27.0	27.0	27.0	27.0
	-17.1	-17.5	30.7	30.7	30.7	30.7	30.3	30.3	30.3	30.3
	-12.6	-13	34.0	34.0	34.0	34.0	33.5	33.5	33.5	33.5
	-7	-7.6	35.1	35.1	35.1	35.1	34.6	34.6	34.6	34.6
	-4	-4.4	36.2	36.2	36.2	36.2	35.6	35.6	35.6	35.6
	0	-0.4	37.3	37.3	37.3	37.3	37.3	36.7	36.7	36.7
	5	4.5	42.1	41.6	41.0	41.0	41.0	41.0	41.0	41.0
	10	9	43.7	43.7	43.7	43.2	43.2	43.2	43.2	43.2
	15	14	46.4	46.4	46.4	46.4	46.4	46.4	45.9	45.4
	20	19	49.1	49.1	49.1	49.1	48.1	48.1	47.3	46.7
	25	23	51.3	51.3	51.3	51.3	51.3	50.2	49.7	47.3
	30	28	52.4	52.4	52.4	52.4	52.4	51.3	49.7	47.3
	35	32	54.0	54.0	54.0	54.0	53.5	52.4	49.7	47.3
	40	36	56.2	56.2	56.2	56.2	54.0	52.4	49.7	47.3
	45	41	58.3	58.3	58.3	56.7	54.0	52.4	49.7	47.3
	47	43	60.5	59.9	59.4	56.7	**54.0**	52.4	49.7	47.3
	50	46	64.8	62.1	59.4	56.7	54.0	52.4	49.7	47.3
	55	51	66.2	62.6	59.4	56.7	54.0	52.4	49.7	47.3
	60	56	66.2	62.6	59.4	56.7	54.0	52.4	49.7	47.3

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

VERTICAL / HORIZONTAL AIR HANDLER

Heating Capacity Tables

ARNU543NKA4

Table 156: ARNU543NKA4 Heating Capacity Table.

Model No. / Capacity Index	Outdoor Air Temp.		Indoor Air Temperature (°F DB)							
			59	61	64	67	70	73	76	80
	°F DB	°F WB	TC	TC	TC	TC	TC	TC	TC	TC
			MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
ARNU543NKA4 / 54.0	-21.6	-22.0	30.4	30.4	30.4	30.4	30.0	30.0	30.0	30.0
	-17.1	-17.5	34.1	34.1	34.1	34.1	33.6	33.6	33.6	33.6
	-12.6	-13	37.8	37.8	37.8	37.8	37.3	37.3	37.3	37.3
	-7	-7.6	39.0	39.0	39.0	39.0	38.4	38.4	38.4	38.4
	-4	-4.4	40.2	40.2	40.2	40.2	39.6	39.6	39.6	39.6
	0	-0.4	41.4	41.4	41.4	41.4	41.4	40.8	40.8	40.8
	5	4.5	46.8	46.2	45.6	45.6	45.6	45.6	45.6	45.6
	10	9	48.6	48.6	48.6	48.0	48.0	48.0	48.0	48.0
	15	14	51.6	51.6	51.6	51.6	51.6	51.6	51.0	50.4
	20	19	54.6	54.6	54.6	54.6	53.4	53.4	52.5	51.9
	25	23	57.0	57.0	57.0	57.0	57.0	55.8	55.2	52.5
	30	28	58.2	58.2	58.2	58.2	58.2	57.0	55.2	52.5
	35	32	60.0	60.0	60.0	60.0	59.4	58.2	55.2	52.5
	40	36	62.4	62.4	62.4	62.4	60.0	58.2	55.2	52.5
	45	41	64.8	64.8	64.8	63.0	60.0	58.2	55.2	52.5
	47	43	67.2	66.6	66.0	63.0	**60.0**	58.2	55.2	52.5
	50	46	72.0	69.0	66.0	63.0	60.0	58.2	55.2	52.5
	55	51	73.5	69.6	66.0	63.0	60.0	58.2	55.2	52.5
	60	56	73.5	69.6	66.0	63.0	60.0	58.2	55.2	52.5

TC: Total Capacity (MBh).

The System Combination Ratio must be between 50–130%.

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice.

Current certified ratings are available at www.ahridirectory.org.

For outdoor unit performance data, see the respective outdoor unit performance data manuals on https://lghvac.com/commercial.

Note:

Low ambient performance with LGRED° heat technology is included in Multi V 5 Air Source Units produced after February 2019.

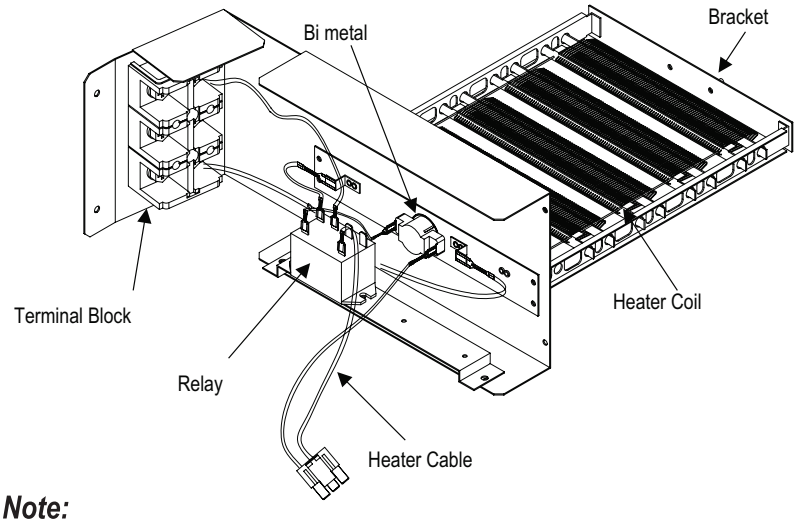
Table 157: Optional Accessories for Vertical / Horizontal Air Handler Units.

Accessory	Model Number
3kW Electric Heater	ANEH033B1
5kW Electric Heater	ANEH053B1
8kW Electric Heater	ANEH083B2
10kW Electric Heater	ANEH103B2
15kW Electric Heater	ANEH153B2
20kW Electric Heater	ANEH203B2

All accessories are sold separately.

Figure 58: Electric Heater.

Example: 5kW Capacity Heater



Note:

If a Third-Party Dry Contact and an LG internal heater or an LG Auxiliary Heat Kit is installed, supplemental heat capability cannot be controlled by the Third-PartyThermostat.

Table 158: Electric Heater Capacities.

Indoor Unit Model No. / Capacity (MBh)	Model Number / Heater Capacity					
	ANEH033B1 (3kW)	ANEH053B1 (5kW)	ANEH083B2 (8kW)	ANEH103B2 (10kW)	ANEH153B2 (15kW)	ANEH203B2 (20kW)
ARNU123NJA4 (12)	X	X	X	Not available	Not available	Not available
ARNU183NJA4 (18)	X	X	X	X	Not available	Not available
ARNU243NJA4 (24)	X	X	X	X	Not available	Not available
ARNU303NJA4 (30)	X	X	X	X	Not available	Not available
ARNU363NJA4 (36)	X	X	X	X	X	X
ARNU423NKA4 (42)	X	X	X	X	X	X
ARNU483NKA4 (48)	X	X	X	X	X	X
ARNU543NKA4 (54)	X	X	X	X	X	X

Note:

- *Image shown above may vary depending on model capacity.*
- *For additional information, refer to the Electric Heater Manual.*

APPLICATION GUIDELINES

Selecting the Best Location on page 205

General Mounting - High, Mid, and Low Static Ducted Units on page 207

General Mounting - Vertical / Horizontal Air Handler Units on page 209

General Drain Piping Information on page 211

Wiring Guidelines on page 213

Wired Controller Placement on page 215

Acronyms on page 216

Selecting the Best Location

Do's

- Place the unit where air circulation will not be blocked.
- Place the unit where drainage can be obtained easily and to minimize the length of the condensate drain piping.
- Place the unit where noise prevention is taken into consideration.
- Place the unit in a location that can support a load four times the indoor unit weight, and where the indoor unit can be level.
- Ensure there is sufficient maintenance space.
- Locate the indoor unit in a location where it can be easily connected to the outdoor unit / heat recovery unit.

Don'ts

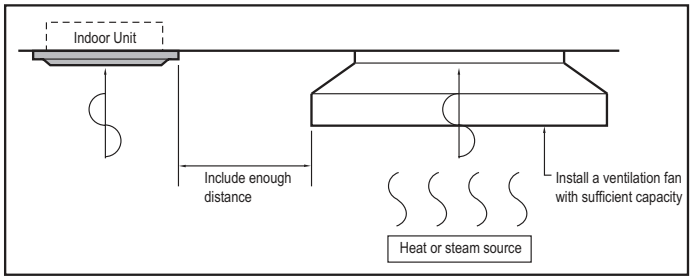
- *Avoid installing the unit near high-frequency generators.*
- *Do not install the unit near a doorway.*
- *Do not install the unit near a heat or steam source, or where considerable amounts of oil, iron powder, or flour are used. (These materials may generate condensate, cause a reduction in heat exchanger efficiency, or the drain pump to malfunction. If this is a potential problem, install a ventilation fan large enough to vent out these materials.)*

The unit may be damaged, may malfunction, and / or will not operate as designed if installed in any of the conditions listed.

WARNING

The unit must not be installed where sulfuric acid and flammable or corrosive gases are generated, vented into, or stored. There is risk of fire, explosion, and physical injury or death.

Figure 59: Installing Near a Heat or Steam Source.



Note:

- *Indoor units (IDUs) must not be placed in an environment where the IDUs may be exposed to harmful volatile organic compounds (VOCs) or in environments where there is improper air make up or supply or inadequate ventilation. If there are concerns about VOCs in the environment where the IDUs are installed, proper air make up or supply and/ or adequate ventilation must be provided. Additionally, in buildings where IDUs will be exposed to VOCs consider a factory-applied epoxy coating to the fan coils for each IDU.*
- *If the unit is installed near a body of water, the installation parts are at risk of corroding. Appropriate anti-corrosion methods must be taken for the unit and all installation parts.*

Figure 60: Clearance Requirements for B8 High Static Ducted Units.

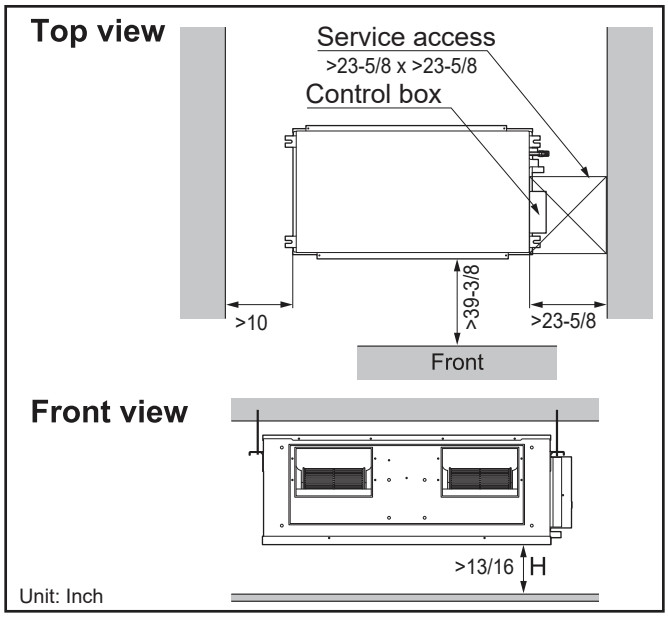
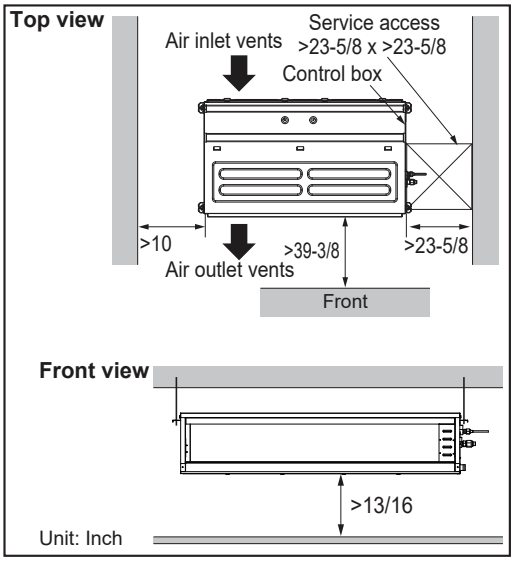


Figure 61: Clearance Requirements for M1, M2, and M3 Mid and High Static Ducted Units.



APPLICATION GUIDELINES

Selecting the Best Location

Figure 62: Clearance Requirements for L1, L2, and L3 Low Static Ducted Units.

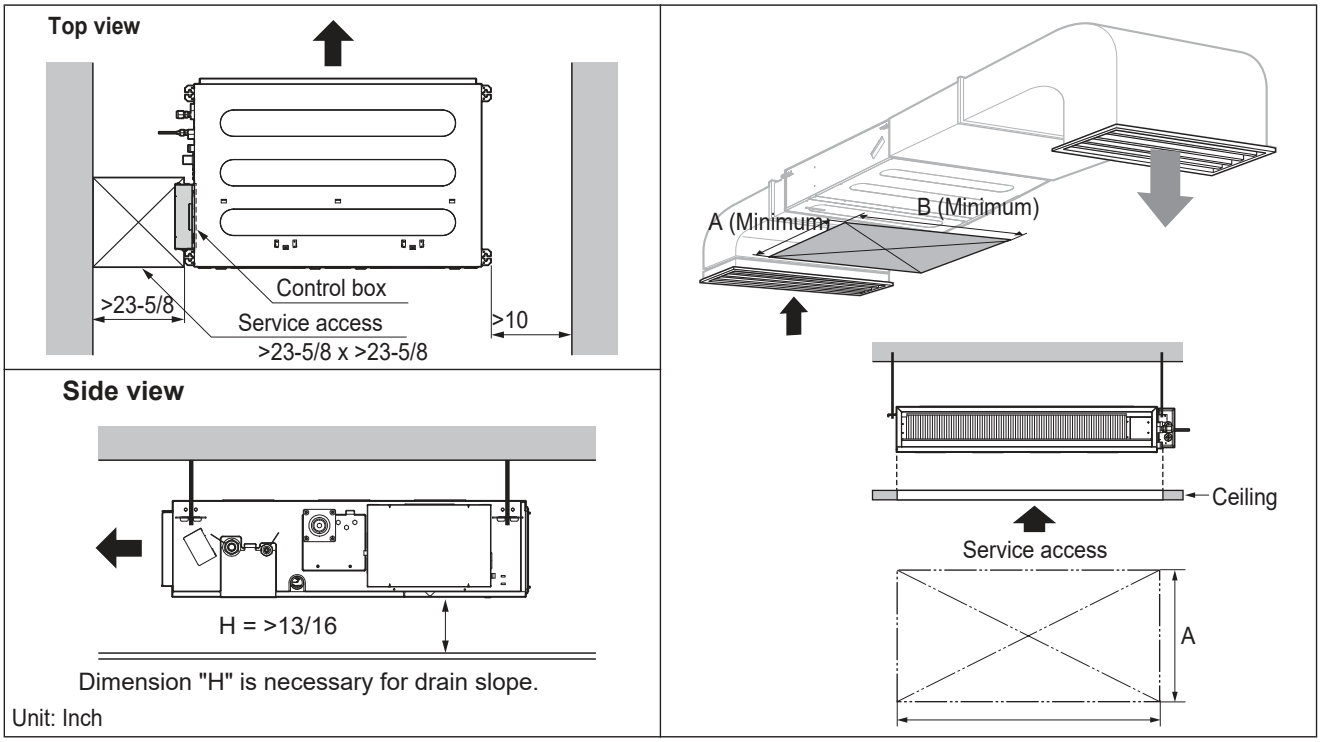
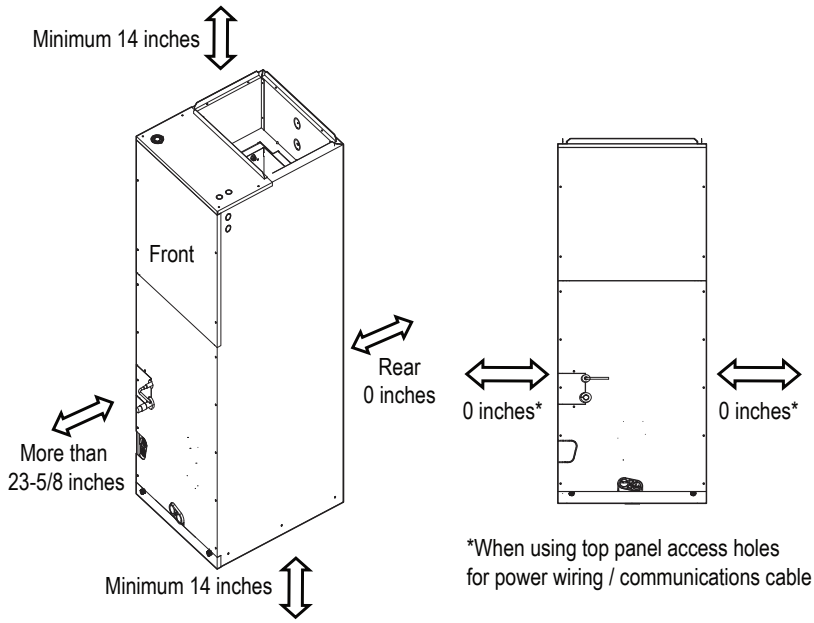


Table 159: Service Dimensions For L1, L2, and L3 Low Static Ducted Units.

Frame	Dimensions (inches)	
	A	B
L1	31-1/2	31-1/2
L2	31-1/2	39-3/8
L3	31-1/2	47-1/4

Figure 63: Clearances Requirements for Vertical / Horizontal Air Handler Units.



Installing in an Area Exposed to Unconditioned Air

In some installation applications, areas (floors, walls) in some rooms may be exposed to unconditioned air (room may be above or next to an unheated garage or store-room). To countermeasure:

- Verify that carpet is or will be installed (carpet may increase the temperature by three [3] degrees).
- Add insulation between the floor joists.
- Install radiant heat or another type of heating system to the floor.

General Mounting - High, Mid, and Low Static Ducted Units

- The ceiling must be strong and solid enough to protect the indoor unit from vibration.
- Refer to dimensions table below for each indoor unit type.
- Apply a joint-canvas between the unit and duct to absorb unnecessary vibration.
- Apply a filter accessory at the air return opening.
- Install the unit with a slope towards the drainage point to ensure condensate drains easily.

Figure 64: High Static Ducted B8 Frame Bolt Locations.

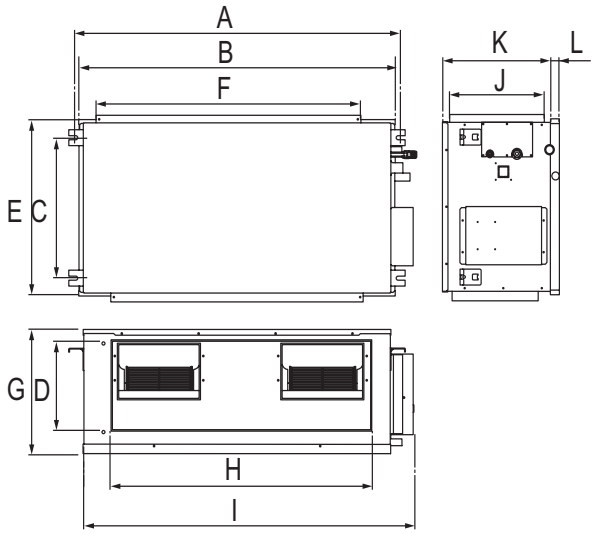


Table 160: High Static Ducted B8 Frame Suspension Bolt Positions.

Frame	Dimensions (inches)											
	A	B	C	D	E	F	G	H	I	J	K	L
B8	63-7/8	61-5/8	22-13/16	11-1/2	27-3/8	55-1/8	18-1/8	44-3/16	66-1/8	15-3/8	17-1/2	9/16

Figure 65: Mid and High Static Ducted M1, M2, M3 Frame Bolt Locations.

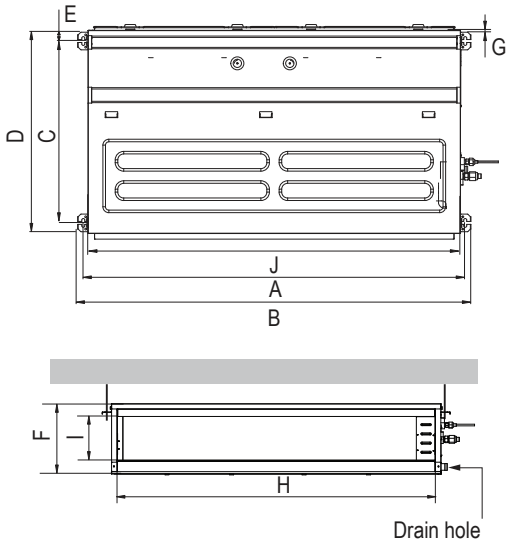


Table 161: Mid and High Static Ducted M1, M2, M3 Frame Suspension Bolt Positions.

Frame	Dimensions (inches)									
	A	B	C	D	E	F	G	H	I	J
M1	36-3/4	38-1/4	24-3/8	28-11/32	1-3/4	10-19/32	19/32	33-23/32	6-21/32	35-1/2
M2	50-17/32	52-1/32	24-3/8	27-9/16	1-3/16	10-5/8	19/32	47-9/16	7-15/16	49-7/32
M3	50-17/32	52-1/32	24-3/8	27-9/16	1-3/16	14-3/16	19/32	47-9/16	11-15/32	49-7/32

APPLICATION GUIDELINES

General Mounting - High, Mid, and Low Static Ducted Units

Table 162: Low Static Ducted L1, L2, L3 Suspension Bolt Positions.

Frame	Dimension (inches)									
	A	B	C	D	E	F	G	H	I	J
L1	28-7/8	30-3/8	24-3/4	27-9/16	1-7/16	7-1/2	13/16	26	6-1/8	27-9/16
L2	36-3/4	38-1/4	24-3/4	27-9/16	1-7/16	7-1/2	13/16	33-7/8	6-1/8	35-7/16
L3	44-5/8	46-1/8	24-3/4	27-9/16	1-7/16	7-1/2	13/16	41-3/4	6-1/8	43-5/16

General Mounting Procedure

1. Select and mark the areas where the hanging bolts must be placed.
2. Drill the holes.
3. Install the unit horizontally using a level gauge.

⚠WARNING

Do not damage power wiring during installation. There is risk of electric shock, which may result in physical injury or death.

Note:

Do not damage power wiring during installation. There is a risk of equipment malfunction, which may result in property damage.

Figure 66: Low Static Ducted L1, L2, L3 Bolt Locations..

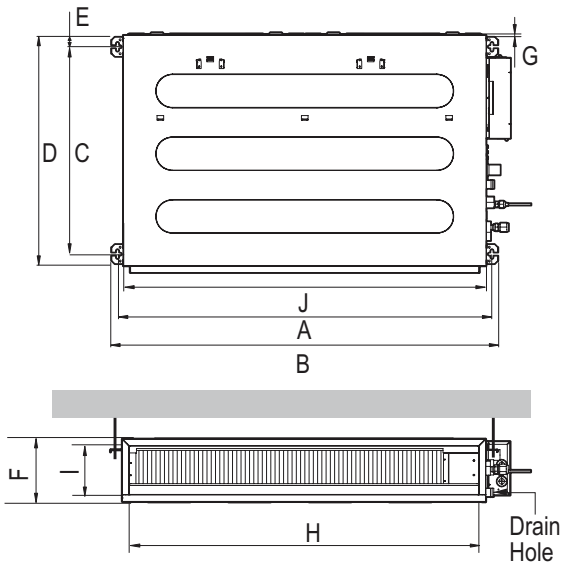


Figure 67: Drilling Holes for the Hanging Bolt

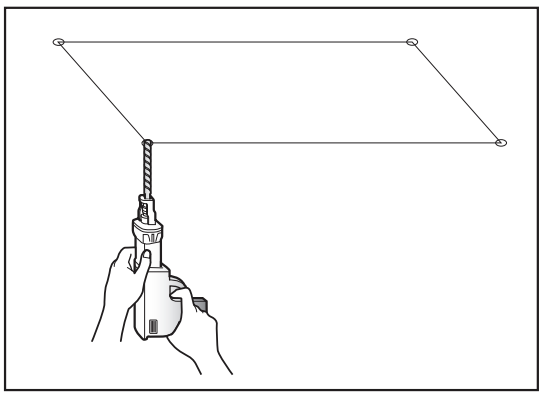
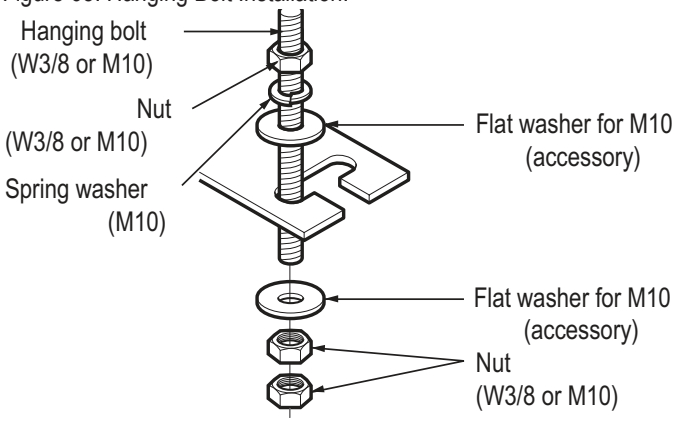


Figure 68: Hanging Bolt Installation.



The following parts are field supplied:

- Hanging bolt - W-3/8" or 1/2"
- Nut - W-3/8" or M10
- Spring washer - M10

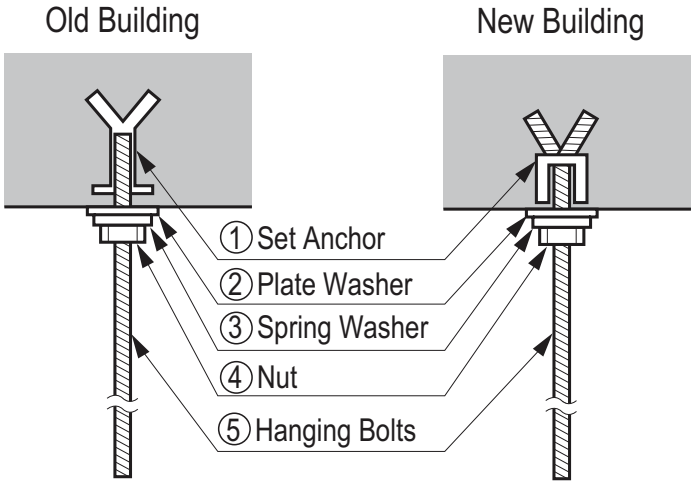
Included with the indoor unit:

- Flat washer - M10

⚠WARNING

The threaded rod hangers (bolts) and hardware must be securely tightened to prevent the unit from falling from its installation location. There is a risk of personal injury from falling equipment.

Figure 69: Old Versus New Building Hanging Bolt Installation.



General Mounting - Vertical / Horizontal Air Handler Units

Vertical / horizontal air handler units can be installed either in an upflow or a horizontal-left position.

General Guidelines

- Support platforms must be sturdy enough to support the air handler unit plus any accessories including filter boxes. The size of the support must be bigger than the air handler unit; the unit itself must be placed at the center of the support.
- Vibration isolators (field-supplied) must be installed between the air handler unit and the support(s).
- Upflow installation has to be applied if a return plenum and a supply duct are present.
- Secure the plenum to support adapters and duct work.
- To prevent air leaks, seal all ducts following local codes.
- Follow all relevant building codes in installations in which an external condensate pan may be necessary. Supports for air handler units must be located in or above the external condensate pan.

Specific Guidelines for Horizontal-Left Installation

- Units must not be installed where the access panels face up or down, nor where filter access is obstructed.
- If the air handler unit is suspended, use angled steel brackets with threaded rods as support.
- To ensure proper condensate drainage, the air handler unit must be installed so it is within 1/8" level of its length and width.

Figure 70: Upflow Installation.

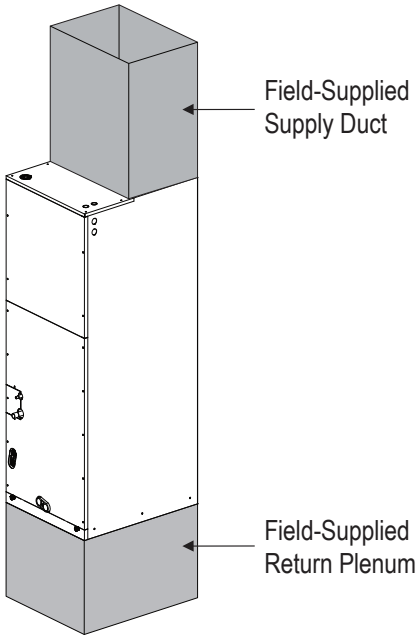


Figure 71: Horizontal-Left Installation.

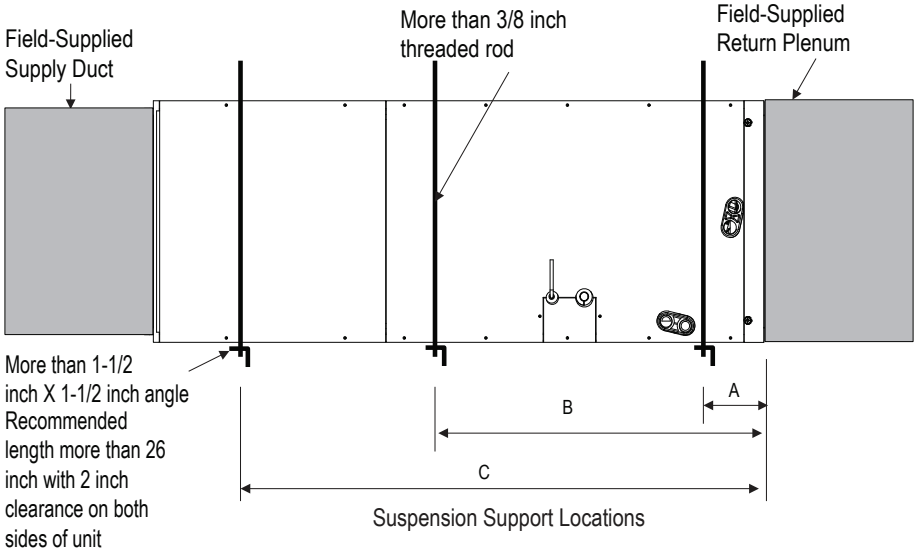


Table 163: Horizontal-Left Installation Dimensions.

Model No.	Capacity (Btu/h)	Dimensions (inches)		
		A	B	C
NJ Frames				
ARNU123NJA4	12,000	4	23	41-3/8
ARNU183NJA4	18,000			
ARNU243NJA4	24,000			
ARNU303NJA4	30,000			
ARNU363NJA4	36,000			
NK Frames				
ARNU423NKA4	42,000	4	29	48
ARNU483NKA4	48,000			
ARNU543NKA4	54,000			

APPLICATION GUIDELINES

General Mounting - Vertical / Horizontal Air Handler Units

Duct Work For Vertical / Horizontal Air Handler Units

- Use at least ten (10) M4-25L screws when attaching the supply duct to the vertical-horizontal air handler unit.
- To prevent vibration transmission, install flexible connectors between the supply duct and the vertical-horizontal air handler unit. If an electrical heater is included, the flexible connector must be constructed from a heat-resistant material.
- When routed through unconditioned spaces, ducts must be insulated and covered with vapor barriers.
- Internal acoustical insulation lining may be necessary for a metal duct system if it does not have a 90° elbow and ten (10) feet of main duct to the first branch takeoff.
- Fibrous ducts could be used as a substitute if built and installed in accordance with the most recent edition of the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) Construction Standard.
- Fibrous ducts and acoustical linings must follow National Fire Protection Association (NFPA) Standards 90A or 90B as tested by UL Standard 181 for Class 1 ducts.
- Seal around the ducts to prevent air leaks.

Figure 72: Attaching Ducts to the Vertical / Horizontal Air Handler Unit.

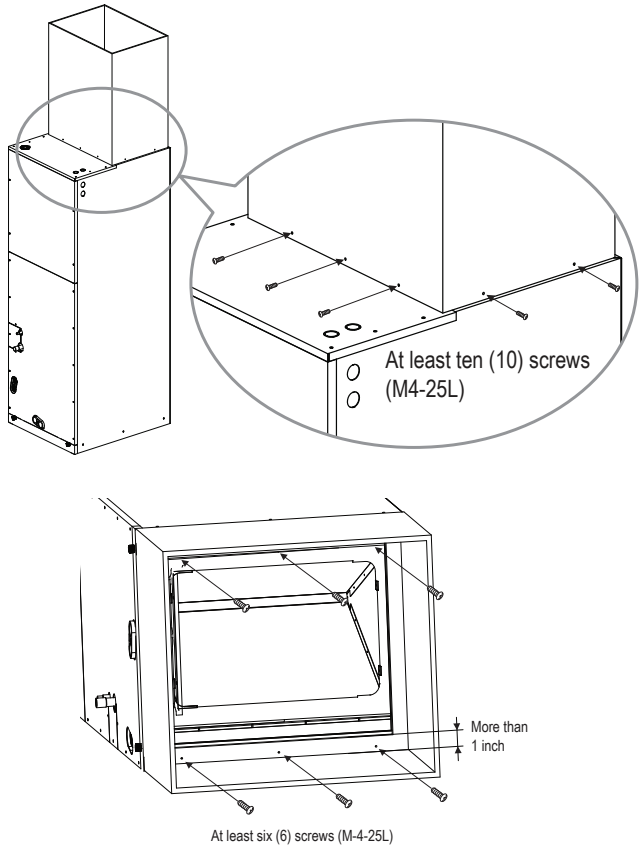


Figure 73: Vertical / Horizontal Air Handler Unit Duct Connection Dimensions Diagram.

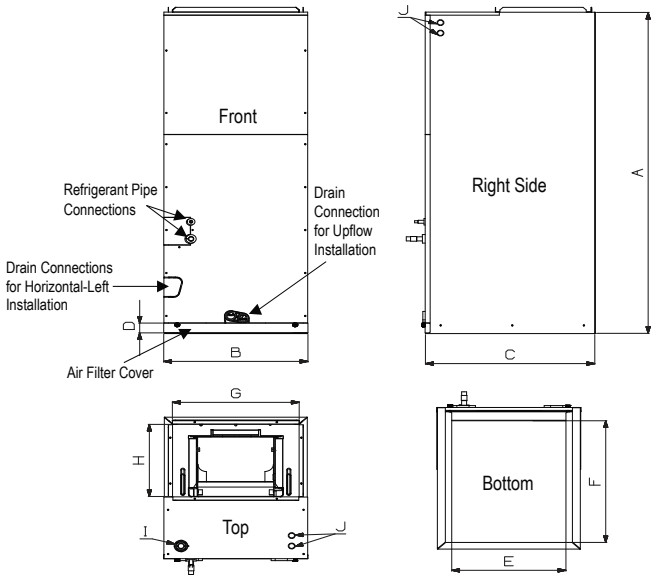


Table 164: Vertical / Horizontal Air Handler Unit Duct Connection Dimensions Table.

Model No.	Dimensions (inches)							
	A	B	C	D	E	F	G	H
	Height	Width	Depth					
NJ Frames								
ARNU123NJA4	48-5/8	18	21-1/4	1-9/16	17-1/2	20	17	12-1/8
ARNU183NJA4								
ARNU243NJA4	48-5/8	18	21-1/4	1-9/16	17-1/2	20	17	12-1/8
ARNU303NJA4								
ARNU363NJA4								
NK Frames								
ARNU423NKA4	48-5/8	25	21-1/4	1-9/16	24-1/2	20	24	12-1/8
ARNU483NKA4								
ARNU543NKA4								

General Drain Piping Information

All ducted indoor units generate water during cooling operation, therefore, how to properly handle this condensation must be considered. Depending on the location of the indoor unit, condensation can be drained directly to the outside of the building, or a common indoor unit drainage piping system can be installed.

Ducted Unit Drain Information

High, Mid, and Low Static Ducted indoor units include factory-installed drain pumps. When the bottom surface of the indoor unit is at an elevation below the receiving building drain line connection, install an inverted trap at the top of the condensate pump discharge riser before connection to the building drain pipe.

When the receiving drain line is mounted horizontal, connect the inverted trap to the top half of the pipe. The connection point of the inverted trap to the building drain pipe must always be to the top half of the pipe and must never be over 45° either side of the upper most point of the horizontal building drain line.

If connecting to a vertical drain line or plumbing system vent line, connect the IDU condensate pump discharge line using a Y-45 fitting with the double end of the Y-45 fitting facing up. When connecting to a vertical drain line include an inverted trap at the top of the IDU condensate pump discharge riser before connection to the Y-45 fitting.

Vertical / Horizontal Air Handler Unit Drain Information

Vertical / Horizontal Air Handler units have a gravity drain.

- Avoid blocking filter access panel when connecting the condensate drain lines.
- An additional external condensate line must run from the unit into the pan.
- The entire condensate line must be drained from the external condensate pan.
- Point the drain hose downward for easy drain flow.
- Do not use pipe joint connection or PVC/CPVC for the unit drain line connection. Use Teflon® tape.

Note:

A field-supplied external condensate pan must be installed underneath the entire vertical / horizontal air handler unit. If not, damage may result due to condensate overflow.

Table 165: Indoor Unit Drainage Specifications.

Indoor Unit	Drain Type	Drain Pipe Dia. (ID, in.)
B8, M1, M2, M3 Frame Ducted Unit	27-1/2 in. Lift Drain Pump, Factory Installed	Ø1
L1, L2, L3 Frame Ducted		
NJ, NK Frame Vertical / Horizontal Air Handler Unit	Gravity	Ø1 (3/4" FPT)

Figure 74: High, Mid, and Low Static Ducted Indoor Unit Drain Pump to Drain Piping System.

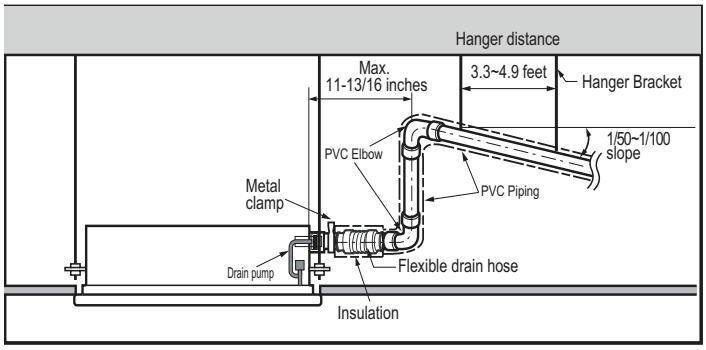


Figure 75: Vertical / Horizontal Air Handler Unit Drain Piping System.

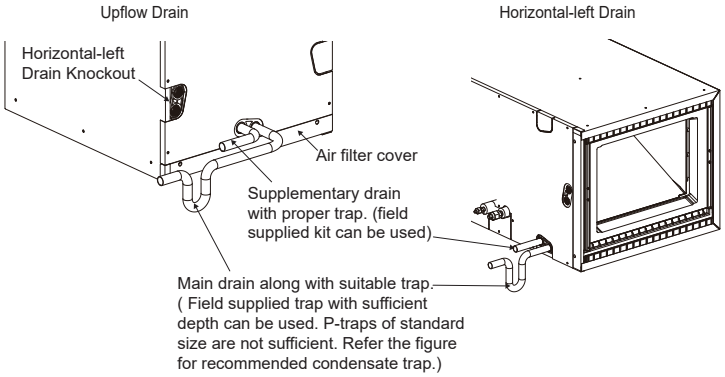


Figure 76: Vertical / Horizontal Air Handler Unit U-Trap Specifications.

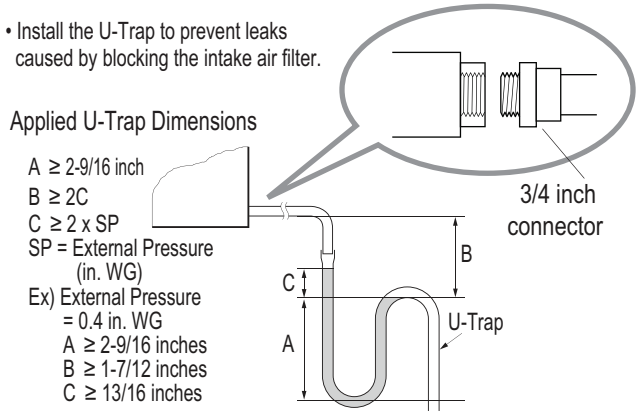


Figure 77: Flexible Drain Hose Connection.

Flexible Drain Hose

Ducted indoor units and vertical / horizontal air handler units include a factory-provided flexible drain hose (with one or two clamps) to connect the indoor unit to the drain piping / drain piping system.

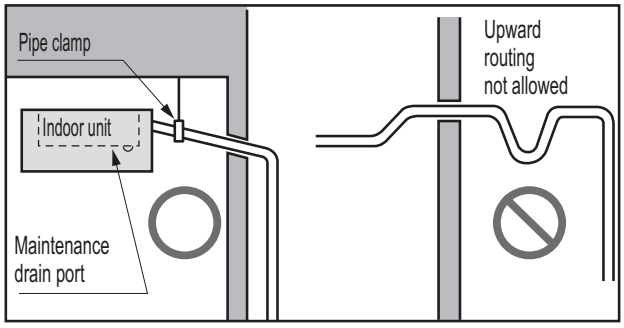
APPLICATION GUIDELINES

General Drain Piping Information

Drain Piping

- Drain piping must have down slope (1/50 to 1/100).
- Any holes through the ceilings, walls, etc., must be large enough to accommodate the drain piping and insulation.
- To prevent reversal flow, do not provide up and down slope.
- For High, Mid, and Low Static Ducted Units, the outside diameter of the drain connection is 1-1/4 to 1-1/8 inches (depending on model).
- For Vertical / Horizontal Air Handling Units, use PVC with a 3/4 inch male pipe thread fitting for the condensate pan.
- For High, Mid, and Low Static Ducted Units, the drain piping material is polyvinyl chloride pipe (1 inch).

Figure 78: Drain Piping Slope.



Drain Leak Test

A leak test must be performed 24 hours after the drainage system has been installed.

Drain Pipe Insulation

Install field supplied polyethylene foam insulation 5/16 inch thick or greater on the flexible drain pipe and position snugly again indoor unit.

Note:

Ensure the indoor unit, refrigerant piping, drain piping, and power wiring / communication cables are properly supported with anchor bolts and clamp hangers positioned at 3.3 to 4.9 foot intervals.

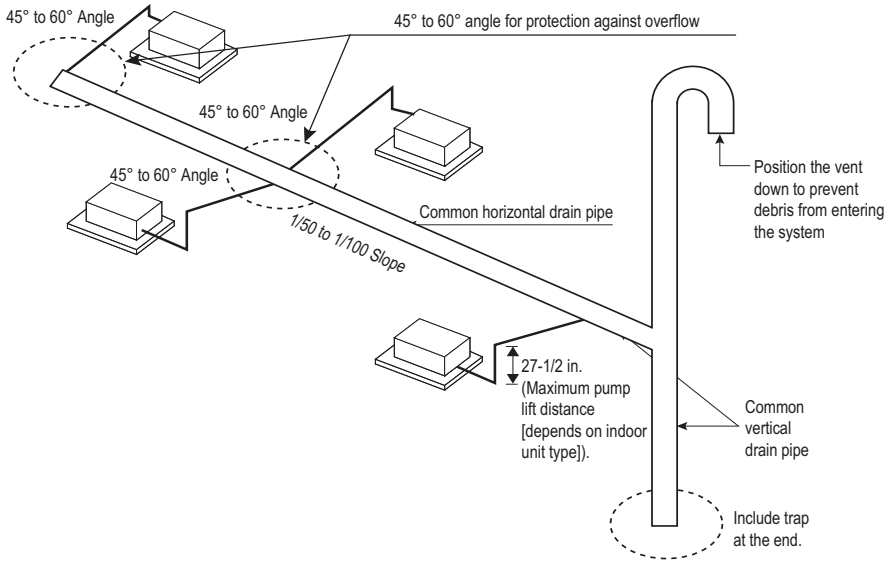
Common Indoor Unit Drainage System

It is usual work practice to connect individual indoor unit drain pipes to one common indoor unit drainage system.

The diameter of the common vertical drain pipe must be as large as necessary. The diameter of the horizontal pipe must be the same or larger than the vertical drain pipe. To avoid property damage in the event of the primary drain becoming clogged, and to optimize drain system performance, it may be prudent to install a secondary drain line.

Design the drain system to plan for winter operation (condensate line may freeze up if condensate does not properly drain away). Drain all generated condensate from the external condensate pan to an appropriate area. Install a trap in the condensate lines as near to the indoor unit coil as possible. To prevent overflow, the outlet of each trap must be positioned below its connection to the condensate pan. All traps must be primed, insulated, and leak tested.

Figure 79: Example of a Common Indoor Unit Drainage System.



Note:

- *It is recommended that a dedicated drain pipe be installed for the air conditioning system. If the indoor unit drainage system is shared with a rainwater drain, waste water, or any other type of building drain system, back flow, leaks, ice may form, or noxious odors may infiltrate the air conditioning system.*
- *Install a trap if the drain access to the outside faces an undesirable location (i.e., sewer), otherwise, noxious odors may infiltrate the air conditioning system.*

General Power Wiring / Communications Cable Guidelines

- Follow manufacturer's circuit diagrams displayed on the inside of the control box cover.
- Have a separate power supply for the indoor units.
- Provide a circuit breaker switch between the power source and the indoor unit.
- Confirm power source specifications.
- Confirm that the electrical capacity is sufficient.
- Starting current must be maintained ±10 percent of the rated current marked on the name plate.
- Confirm wiring / cable thickness specifications:
  - Power wiring is field supplied. Wire size is selected based on the larger MCA value, and must comply with the applicable local and national codes.
  - Communication cable must be a minimum of 18 AWG, two-conductor, twisted, stranded, shielded, and must comply with the applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. ⃠ Do not ground the ODU-IDU communications cable at any other point.
- It is recommended that a circuit breaker is installed, especially if conditions could become wet or moist.
- Include a disconnect in the power wiring system. Add an air gap contact separation of at least 1/8 inch in each active (phase) conductor.
- Any openings where the field wiring enters the cabinet must be completely sealed.

⚠ WARNING

- *Terminal screws may loosen during transport. Properly tighten the terminal connections during installation or risk electric shock, physical injury or death.*
- *Loose wiring may cause the wires to burnout or the terminal to overheat and catch fire. There is a risk of electric shock, physical injury or death.*

Note:

- *Terminal screws may loosen during transport. Properly tighten the terminal connections during installation or risk equipment malfunction or property damage.*
- *Loose wiring may cause unit malfunction, the wires to burnout or the terminal to overheat and catch fire. There is a risk of equipment malfunction or property damage.*

A voltage drop may cause the following problems:

- *Magnetic switch vibration, fuse breaks, or disturbance to the normal function of an overload protection device.*
- *Compressor will not receive the proper starting current.*

Power Wiring and Communications Cable Connections

1. Insert the power wiring / communications cable from the outdoor unit or heat recovery unit (Heat Recovery systems only) using the designated path in the indoor unit.
2. Connect each wire to its appropriate terminal on the indoor unit control board. Verify that the color and terminal numbers from the outdoor unit or heat recovery unit (Heat Recovery systems only) wiring match the color and terminal numbers on the indoor unit.
3. Secure the power wiring / communications cable.

Figure 80: Location of Power Wiring / Communications Cable Terminals in the B8, M1, L1, L2, L3 High, Mid, and Low Static Ducted Indoor Units (Appearances Vary Depending on Model).

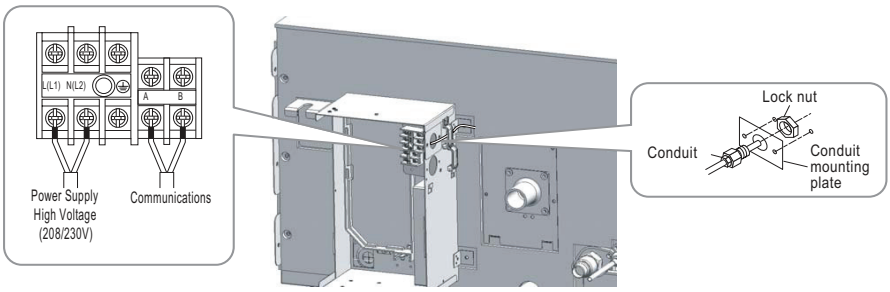


Figure 81: Location of Power Wiring / Communications Cable Terminals in the M2, M3 Mid and High Static Ducted Indoor Units.

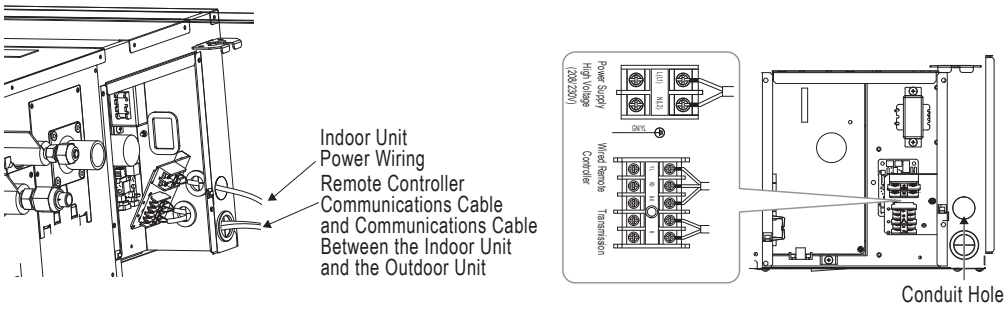


Figure 82: Location of Power Wiring / Communications Cable Terminals in the Vertical / Horizontal Air Handler Unit.

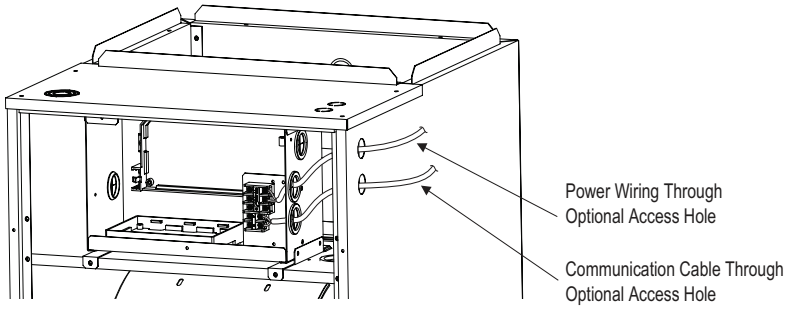


Figure 83: Terminal Block in the B8 High Static Ducted Indoor Units.

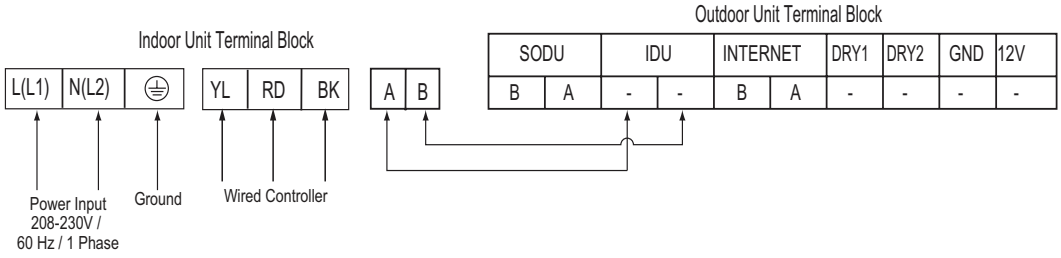


Figure 84: Terminal Block in the M1, M2, M3 Mid and High Static Ducted Indoor Units.

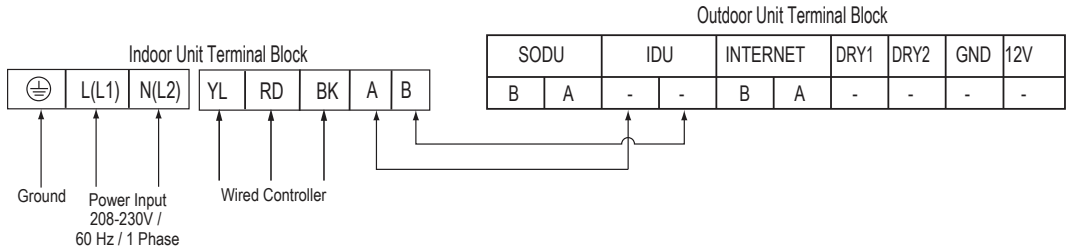


Figure 85: Terminal Block in the L1, L2, L3 Low Static Ducted Indoor Units.

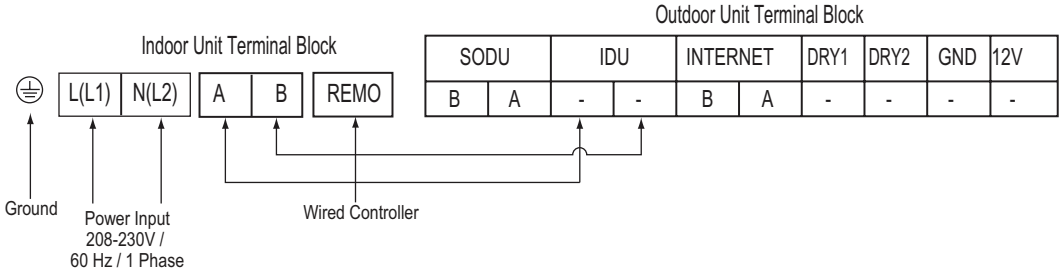
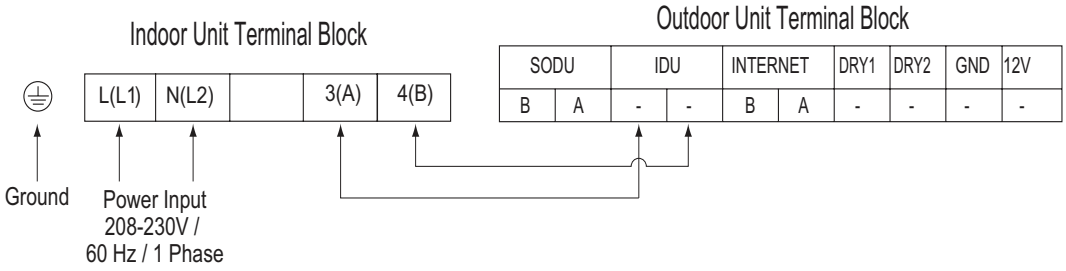


Figure 86: Terminal Block in the Vertical / Horizontal Air Handler Units.



Wired Controller Placement

Wired controllers include a sensor to detect room temperature. To maintain comfort levels in the conditioned space, the wired controller must be installed in a location away from direct sunlight, high humidity, and where it could be directly exposed to cold air. Controller must be installed four (4) to five (5) feet above the floor where its LED display can be read easily, in an area with good air circulation, and where it can detect an average room temperature.

Do not install the wired controller near or in:

- *Drafts or dead spots behind doors and in corners*
- *Hot or cold air from ducts*
- *Radiant heat from the sun or appliances*
- *Concealed pipes and chimneys*
- *An area where temperatures are uncontrolled, such as an outside wall*

Figure 87: Proper Location for the Wired Controller.

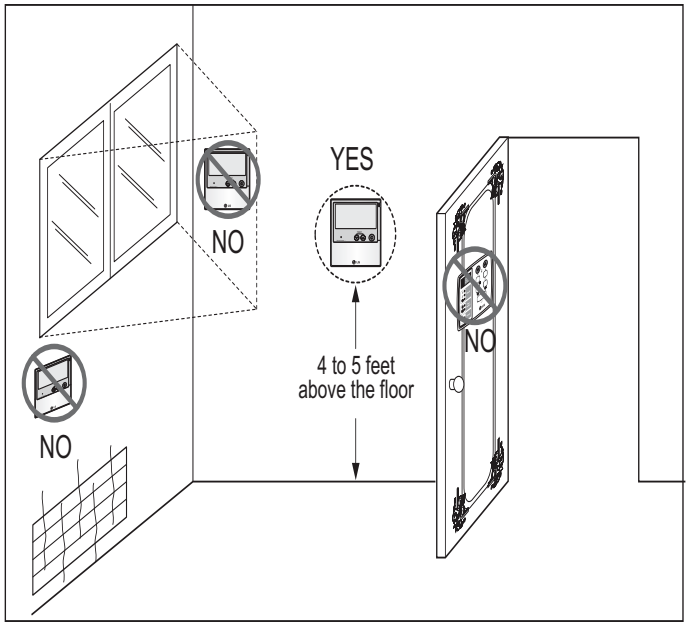


Table 166: AcronymTable.

ABS	Acrylonitrile Butadiene Styrene	IDU	Indoor Unit
AC	Air Conditioner/Alternate Current	kW	Kilowatts
ACP	Advanced Control Platform	in Aq	inches water
AHU	Air Handler Unit	ISO	International Standards Organization
ASHRAE	American Society of Heating, Refrigeration, and Air Conditioning	LATS	LG Air Conditioning Technical Solution software
ASTM	American Society for Testing and Materials	LED	Light Emitting Diode
AWG	American Wire Gauge	LEED	Leadership in Energy and Environmental Design
AWHP	Air-to-Air Water Heat Pump	MBh	Thousands BTUs per hour
BLDC	Brushless Digitally-Controlled	MCA	Minimum Circuit Ampacity
BTL	BACnet® Testing Laboratories	mm	Millimeter
Btu/h	British Thermal Unit per Hour	MOP	Maximum Overcurrent Protection
CAA	Clean Air Act	OD	Outside Diameter
CFM	Cubic Feet per Minute	ODU	Outdoor Unit
CFR	Code of Federal Regulations	PI	Power Input
DB	Dry Bulb	PTAC	Packaged Terminal Air Conditioner
dB(A)	Decibels with “A” frequency weighting	SHC	Sensible Heat Capacity
DPST	Double-Pole Single Throw	SMACNA	Sheet Metal & Air Conditioning Contractors’ National Association
DX	Direct expansion	RPM	Revolutions per Minute
EEV	Electric Expansion valve	TC	Total Capacity
EPDM	Ethylene Propylene Diene M-Class Rubber	USD	United States Dollar
EMF	Electromagnetic Field	UL	Underwriters Laboratories
ESP	External Static Pressure	V	Voltage
ETL	Electric Testing Laboratories	VAV	Variable Air Volume
GND	Ground	VRF	Variable Refrigerant Flow
H/M/L	High/Medium/Low	W	Watts
HVAC	Heating, Ventilating and Air Conditioning	WB	Wet Bulb
Hz	Hertz	wg	Water Gauge
ID	Inside Diameter		

LG

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EM_MultiV_Ducted_IndoorUnits_05_21
Supersedes: EM_MultiV_Ducted_IndoorUnits_10_20
EM_MultiV_Ducted_IndoorUnits_05_20
EM_MultiV_Ducted_IndoorUnits_03_20
EM_MultiV_Ducted_IndoorUnits_10_19
EM_MultiV_Ducted_IndoorUnits_05_19
EM_MultiV_Ducted_IndoorUnits_03_19
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