

Date:

For:  File  Resubmit

PO No.:

Approval  Other

Architect: GC:

Engr: Mech:

Rep:

(Company)

(Project Manager)



**ARUB456BTE4** (a) ARUB145BTE4<sup>1</sup>  
 Multi V™ IV Heat Recovery (b) ARUB145BTE4<sup>1</sup>  
 38.0 Ton Outdoor Unit (c) ARUB169BTE4



**Performance:**

Cooling Mode:

|                               |         |
|-------------------------------|---------|
| Nominal Capacity (Btu/h)      | 456,000 |
| Power Input <sup>2</sup> (kW) | 31.54   |

Heating Mode:

|                               |         |
|-------------------------------|---------|
| Nominal Capacity (Btu/h)      | 513,000 |
| Power Input <sup>2</sup> (kW) | 31.05   |

Nominal Capacity is outside the scope of AHRI Standard 1230 and based on the following conditions:

Indoor: 80°F DB / 67°F WB      Indoor: 70°F DB  
 Outdoor: 95°F DB                  Outdoor: 47°F DB / 43°F WB

**Electrical:** (a) ARUB145BTE4<sup>1</sup> (b) ARUB145BTE4<sup>1</sup> (c) ARUB169BTE4

|                       | (a) ARUB145BTE4 <sup>1</sup> | (b) ARUB145BTE4 <sup>1</sup> | (c) ARUB169BTE4 |
|-----------------------|------------------------------|------------------------------|-----------------|
| Power Supply (V/Hz/Ø) | 208-230/60/3                 | 208-230/60/3                 | 208-230/60/3    |
| MOP (A)               | 80                           | 80                           | 80              |
| MCA (A)               | 57.0                         | 57.0                         | 57.0            |
| Rated Amps (A)        | 50.2                         | 50.2                         | 50.2            |
| Compressor A (A)      | 27.2                         | 27.2                         | 27.2            |
| Compressor B (A)      | 17.0                         | 17.0                         | 17.0            |
| Fan (A)               | 6.0                          | 6.0                          | 6.0             |

**Piping:** (a) ARUB145BTE4<sup>1</sup> (b) ARUB145BTE4<sup>1</sup> (c) ARUB169BTE4

|                                       | (a) ARUB145BTE4 <sup>1</sup> | (b) ARUB145BTE4 <sup>1</sup> | (c) ARUB169BTE4 |
|---------------------------------------|------------------------------|------------------------------|-----------------|
| Refrigerant Charge (lbs)              | 23.6                         | 23.6                         | 23.6            |
| Liquid Line <sup>3</sup> (in, OD)     | 5/8                          | 5/8                          | 5/8             |
| Vapor Line High <sup>3</sup> (in, OD) | 7/8                          | 7/8                          | 7/8             |
| Vapor Line Low <sup>3</sup> (in, OD)  | 1-1/8                        | 1-1/8                        | 1-1/8           |

**Standard Features:**

- HiPOR (high pressure oil return)
- Smart Oil Control
- Capable of Split Frame Defrost
- Night Quiet Operation
- Fault Detection and Diagnosis

**Required Accessories:**

- ARCNB21 (frame connector Y-branch)
- ARCNB31 (frame connector Y-branch)

**Optional Accessories:**

- Air Guide (8-12 ton outdoor units) - PRAGX3S0 (6 required)
- Hail Guard Kit - ZHGDKA04A (3 required)
- Low Ambient Baffle Kit for 8-14 Ton ODU's - ZLABKA03A (3 required)\*\*

\*\*(-9.9°F achieved only when all IDU's are operating in cooling mode.  
 Does not impact synchronous operating range.)

**Operating Range:**

|                       |          |
|-----------------------|----------|
| Cooling (°F DB)**     | 14 – 122 |
| Heating (°F WB)       | -13 – 61 |
| Synchronous           |          |
| Cooling Based (°F DB) | 14 – 81  |
| Heating Based (°F WB) | 14 – 61  |

**Unit Data:**

|   |                 |
|---|-----------------|
| Refrigerant Type                            | R410A           |
| Refrigerant Control                         | EEV             |
| Max Number of Indoor Units <sup>4</sup>     | 64              |
| Sound Pressure <sup>5</sup> dB(A)           | 64.3            |
| Net Unit Weight (a) + (b) + (c) (lbs)       | 672 + 672 + 672 |
| Shipping Weight (a) + (b) + (c) (lbs)       | 705 + 705 + 705 |
| Communication Cable <sup>6</sup> (No x AWG) | 2 X 18          |
| Heat Exchanger Coating                      | GoldFin™        |

**Compressor:**

|                     |                                 |
|---------------------|---------------------------------|
| Compressor Type     | High Side Shell (HSS) DC Scroll |
| Compressor Quantity | 6                               |
| Oil/Type            | PVE/FVC68D                      |

**Fan:**

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Type                                | Propeller                             |
| Quantity (a) + (b) + (c)            | 6                                     |
| Motor/Drive                         | Brushless Digitally Controlled/Direct |
| Air Flow Rate (a) + (b) + (c) (CFM) | 30,600                                |

**Notes:**

- 1.ARU\*145\*\*\*\*/ARU\*169\*\*\*\* frames are ONLY for use in large capacity triple frame combinations. They cannot be used as standalone models or in a dual frame combination. These frames ARE NOT interchangeable with ARU\*144\*\*\*\*/ARU\*168\*\*\*\* single frame models.
- 2.For AHRI ratings, refer to the AHRI website <http://www.ahridirectory.org>.
- 3.For main pipe segment size, refer to the LATS Multi V tree diagram.
- 4.The combination ratio must be between 50-130%.
- 5.Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
- 6.All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code. Cables terminate at each frame.
- 7.Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor unit and a 0 ft level difference between outdoor and indoor units. All capacities are net with a combination ratio between 95-105%.
- 8.Power wiring cable size must comply with the applicable local and national code. Cables terminate at each frame.
- 9.The voltage tolerance is ± 10%.



Job Name/Location:

**ARUB456BTE4**  
 Multi V™ IV Heat Recovery  
 38.0 Ton Outdoor Unit

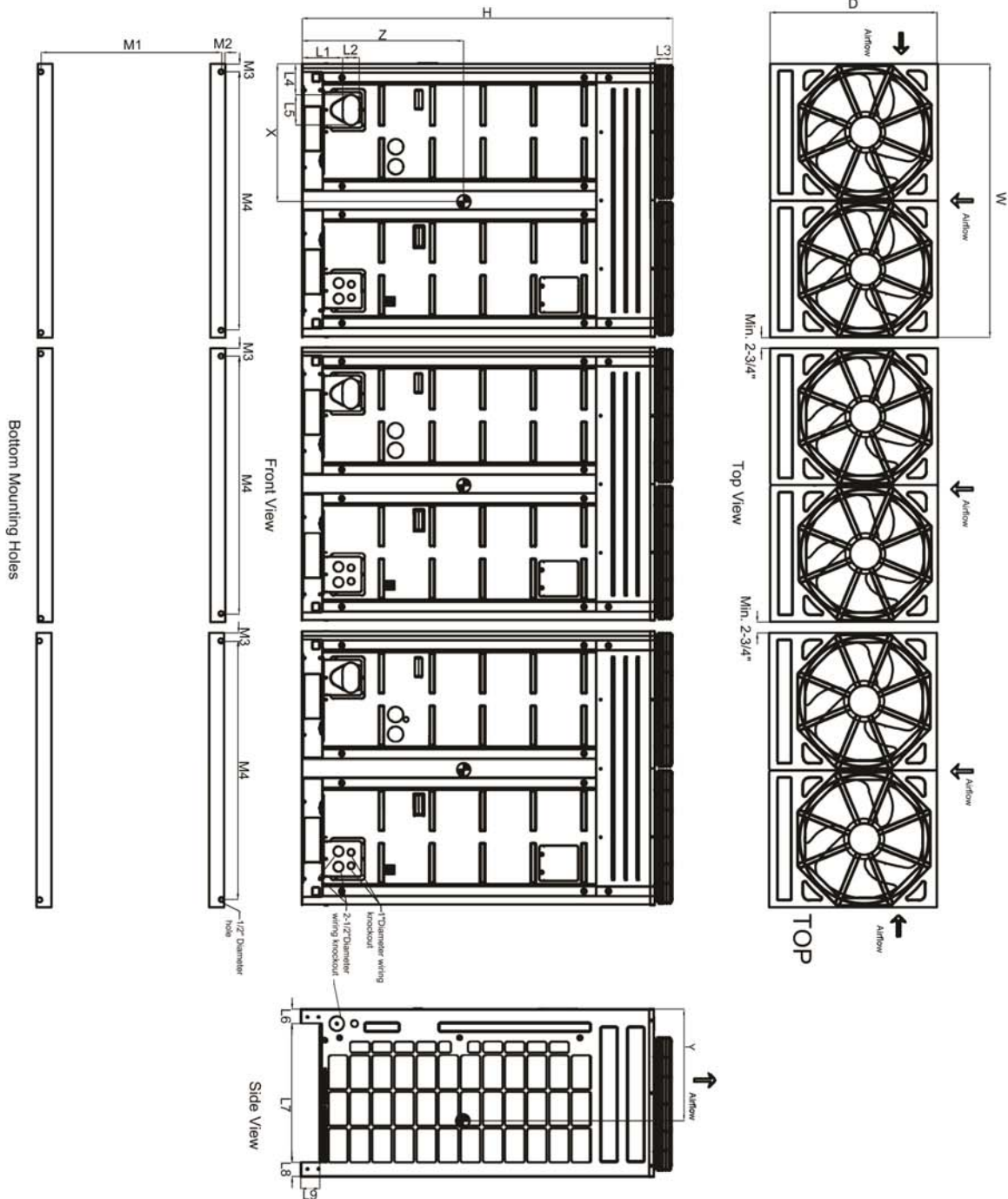
(a) ARUB145BTE4<sup>1</sup>  
 (b) ARUB145BTE4<sup>1</sup>  
 (c) ARUB169BTE4



Tag #:

Date:

PO No.:



|    |           |
|----|-----------|
| W  | 48-13/16" |
| D  | 29-15/16" |
| H  | 66-1/8"   |
| L1 | 7-1/4"    |
| L2 | 2-15/16"  |
| L3 | 3-1/8"    |
| L4 | 5-1/2"    |
| L5 | 5-3/8"    |
| L6 | 2-9/16"   |
| L7 | 24-3/16"  |
| L8 | 2-9/16"   |
| L9 | 3-5/16"   |
| M1 | 29-1/16"  |
| M2 | 7-1/6"    |
| M3 | 2-5/8"    |
| M4 | 43-3/8"   |

**Center of Gravity**

|   |          |
|---|----------|
| X | 24-3/4"  |
| Y | 21-9/16" |
| Z | 29-7/8"  |

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