



# Residential Vertical Air Handler Units

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**2022 LG Canada Central System Heat Pumps**

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# VERTICAL AHU KEY FEATURES

## Ducted air handler units

Customers desiring traditional, ducted infrastructure can still benefit from inverter technology with the LG Vertical Air Handler Unit (VAHU). As 4-way configurable unit contractors have the flexibility to install the unit in a way that's best suited for the application.



## HIGH-PERFORMANCE HEATING

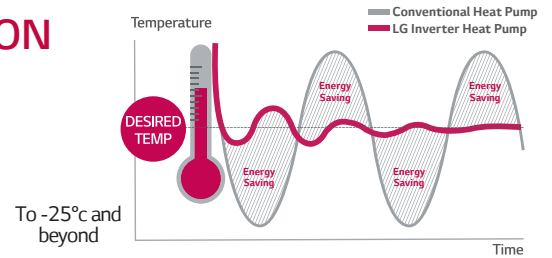
EVEN AT -15°C Up to 2.0 COP at maximum capacity

18, 24, 36, 42, 48K has LGRED° options available



## HIGH-SPEED INVERTER COMPRESSOR OPERATION

LG's inverter technology intelligently senses the air conditioning demand and proportionally ramps the inverter compressor up or down, unlike traditional systems that have limited ability to calculate proportional energy use relative to the demand.



## ENERGY STAR PERFORMANCE

Recognized as a 2020 ENERGY STAR® Partner of the Year – Sustained Excellence, LG is committed to developing the most innovative and energy-efficient products that provide consumers with superior performance while achieving significant energy savings and lessening the impact on the world around us.



LUU 18, 24 & 36k models along with all HHV (LGRED°) are Energy Star compliant



## LG ThinQ

Whenever, wherever and no matter how many air conditioners you have, LG ThinQ® lets you easily access and control your air conditioner from your compatible smart device.\*

\*LG ThinQ® is only available for select models. See product details for full compatibility.



## ACCESSORIES

### Base Pan Heater

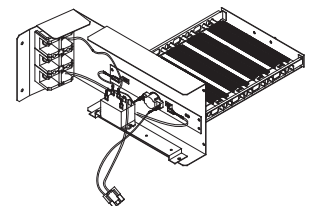
- PQSH1200 - Multi F 36K - 60K
- PQSH1201 - Single Zone Wall Mounted
- PQSH1202 - Single Zone Universal
- PQSH1203 - Multi F 18K & 24K

LGRED units have factory installed base pan heaters



### Electric Heat Kit for VAHU

- ANEH033B1 - 3 kW Electric Heat Kit
- ANEH053B1 - 5 kW Electric Heat Kit
- ANEH083B2 - 8 kW Electric Heat Kit
- ANEH103B2 - 10 kW Electric Heat Kit
- ANEH153B2 - 15 kW Electric Heat Kit
- ANEH203B2 - 20 kW Electric Heat Kit



# Stay comfortable all year long with industry-leading LGRED° heat technology.

**LGRED°**  
Powerful Heat Technology  
RELIABLE TO EXTREME DEGREES

## WHAT IS LGRED° HEAT TECHNOLOGY?

Products featuring LGRED° heat (Reliable to Extreme Degrees) boast superior performance under challenging conditions. Be toasty warm even in the coldest winter months, when traditional units are unable to keep up with demand. Expect 100% heating capacity down to -15° C and continuous heating operation, even when it's -25° C outside.

## WHAT ARE ADVANTAGES OF LG SYSTEMS WITH LGRED° HEAT?

LG Systems with LGRED° offer all of the traditional benefits of LG duct-free and inverter technology while delivering industry-leading heating performance.

## Multi Heating LGRED° Version

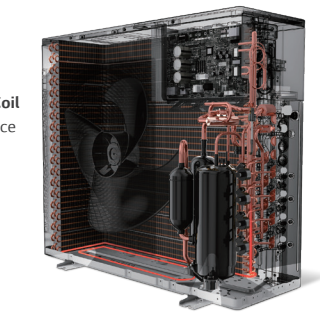
Products featuring LGRED° heat technology boast superior heating performance: 100% of rated heating capacity performance at -15° C and continuous heating down to -30° C\*! This increased performance not only delivers heat without the reliance on fossil fuel energy sources but also operates with incredible efficiency even in the coldest climates.



**Triple-Pass Gold Fin™ Coil**  
For maximum performance and longevity



**Factory-Installed Base Pan Heater**  
Ensures reliable winter heating operation



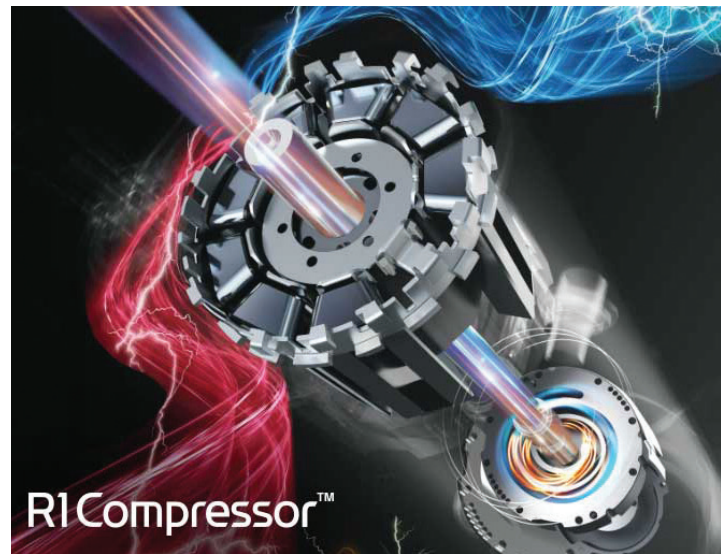
**High-Speed Twin Rotary DUAL Inverter Compressor™**  
100Hz operation for 100% of rated performance even -15°C



**Advanced Canada-designed control logic**  
Ensures maximum performance with full reliability in all conditions



**Dual-Coil Heating System**  
Prevents ice accumulation and ensures reliability even at -25°C



**R1 Compressor™**

**Reliable R1 Compressor™**

R1 Compressor is a new concept of scroll compressor that combines high-efficiency, low sound levels of the scroll and the simple structure of the rotary compressor.

\*-30 degrees continuous heating operations applies to Prestige only

## Choose the internal unit that is more suitable for your needs

Depending on the characteristics of your home, you can choose from our wide range of indoor units, from wall mount models to cassette, to customize your system according to your needs and your tastes.

## LGRED° Indoor Units



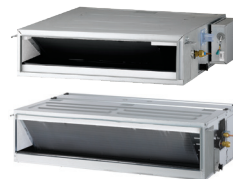
**DUALCOOL**  
Six Capacities  
7,000 - 24,000 BTU



**ARTCOOL**  
Three Capacities  
9,000 - 18,000



**Ceiling Cassette**  
Three Capacities  
9,000 - 18,000 BTU



**Horizontal Air Handler**  
Five Capacities  
9,000 - 36,000 BTU



**4-Position Central System Air Handler**  
Three Capacities  
18,000 - 36,000 BTU  
(42,000 & 48,000 BTU)

# SINGLE ZONE UNITS

## HOME. COMFORT. LG brings these two parts of your life together.

Quiet, balanced heating and cooling for your family's year-round comfort. With five capacities from 18,000 - 48,000 BTU, the comfort options are many. Fully variable speed inverter compressors deliver the capacity required for your comfort. Even at -25°C, these high-performance inverter heat pumps have efficiency as high as twice that of electric heat. Match models up to 48,000 BTU with LG's Multi HHV Hyper Heating Version or Multi F multi-zone outdoor units.



### Single Zone VAHU General Data.

Model	Specification	Unit	LV181HV4	LV241HV4	LV361HV4	LV420HV	LV480HV
	Indoor Unit		LVN181HV4	LVN241HV4	LVN361HV4	LVN420HV	LVN480HV
	Outdoor Unit		LUU189HV	LUU249HV	LUU369HV	LUU428HV	LUU488HV
Capacity	Cooling	Btu/h	18,000	24,000	36,000	42,000	48,000
	Heating	Btu/h	20,000	27,000	40,000	47,000	56,000
Max Heating Capacity	Max Heating Capacity -8.3°C	°C	21,000	26,000	37,350	37,000	40,000
	Max Heating Capacity -15°C	°C	20,500	23,600	35,000	32,000	34,000
	Max Heating Capacity -20°C	°C	19,910	20,760	32,220	24,000	26,000
	SEER / EER		19.2 / 13.30	19.5 / 12.0	18.0 / 11.0	17.0 / 11.05	16.5 / 10.00
	HSPF		10.4	11	10	10	9.5
	COP		3.4	3.52	3.28	3.44	3.22
Sound Pressure Level	Indoor +- (H/M/L) <sup>†</sup>	dB(A)	35/33/30	36/34/30	44/41/39	48/45/44	49/48/44
	Outdoor +- (Cool/Heat) <sup>†</sup>	dB(A)	48/52	48/52	52/54	52/54	52/54

### Single Zone LGRED<sup>®</sup> VAHU General Data.

Model	Specification	Unit	LV181HHV4	LV241HHV4	LV361HHV4	LV420HHV	LV480HHV
	Indoor Unit		LVN181HV4	LVN241HV4	LVN361HV4	LVN420HV	LVN480HV
	Outdoor Unit		LUU180HHV	LUU240HHV	LUU360HHV	LUU420HHV	LUU480HHV
Capacity	Cooling	Btu/h	18,000	24,000	33,000	42,000	46,000
	Heating	Btu/h	20,000	27,000	37,500	48,000	50,000
Max Heating Capacity	Max Heating Capacity -8.3°C	°C	23,740	30,120	39,400	52,200	54,600
	Max Heating Capacity -15°C	°C	22,000	27,400	37,500	48,000	50,000
	Max Heating Capacity -20°C	°C	20,840	24,250	33,810	38,200	39,960
	Max Heating Capacity -25°C	°C	19,760	21,590	28,410	28,810	34,990
	SEER / EER		19.2 / 13.6	19.5 / 12.7	17.8 / 12.5	19.6 / 12.5	19 / 12.5
	HSPF		10.4	11	10.7	11	10.5
	COP		3.4	3.51	3.28	3.81	3.81
Sound Pressure Level	Indoor +- (H/M/L) <sup>†</sup>	dB(A)	35/33/30	36/34/30	44/41/39	48/45/44	49/48/44
	Outdoor +- (Cool/Heat) <sup>†</sup>	dB(A)	51/52	51/52	52/54	54/56	54/56

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