



Residential Vertical Air Handler Units

2023 LG Canada Central System Heat Pumps



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). With the multi-position configurable unit contractors have the flexibility to install the unit in a way that's best suited for the application.



HIGH-PERFORMANCE HEATING

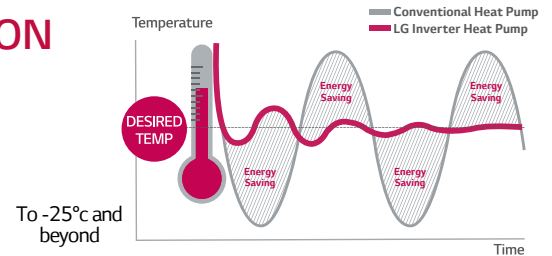
EVEN AT -15°C Up to 2.0 COP at maximum capacity

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

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.

ENERGY STAR name and symbol are trademarks registered in Canada by the United States Environmental Protection Agency and are administered and promoted by Natural Resources Canada.



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

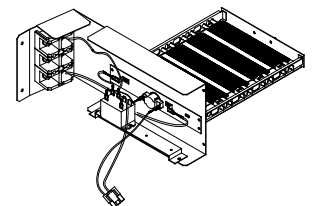
Base Pan Heater for VAHU

Required only for 18,000-48,000 models
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 incredible 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

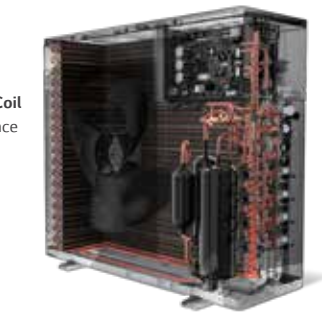
Products featuring LGRED° heat technology boast incredible heating performance: 100% of rated heating capacity performance at -15° C and continuous heating down to -30° C*. This increased performance not only delivers heat without the reliance on fossil fuel energy sources but also operates with incredible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



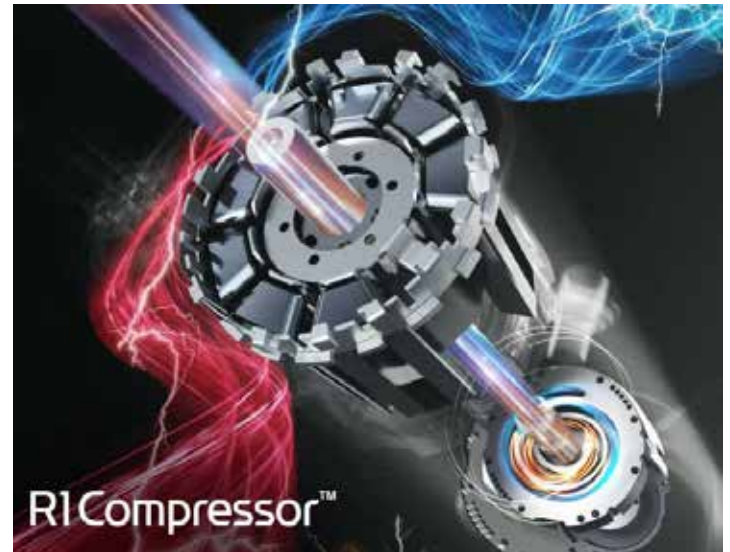
High-Speed Twin Rotary DUAL Inverter Compressor™
100Hz operation for 100% of rated performance even -15°C



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



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°C degrees continuous heating operations applies to DUALCOOL® 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® PRESTIGE
Six Capacities
7,000 - 24,000 BTU



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



High Static
9,000 - 48,000 BTU



Multi-Position 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

Specification	Unit	LV181HV4	LV241HV4	LV361HV4	LV420HV	LV480HV
Indoor Unit		LVN181HV4	LVN241HV4	LVN361HV4	LVN420HV	LVN480HV
Outdoor Unit		LUU189HV	LUU249HV	LUU369HV	LUU428HV	LUU488HV
Rated Cooling Capacity	Btu/h	18,000	24,000	36,000	42,000	48,000
Cooling Capacity Range	Btu/h	7,200 - 24,000	9,600 - 30,000	14,400 - 39,000	17,000 - 48,000	18,000 - 53,000
Rated Heating Capacity	Btu/h	20,000	27,000	40,000	47,000	56,000
Heating Capacity Range	Btu/h	8,000 - 24,000	10,800 - 30,000	16,000 - 43,000	18,000 - 55,000	19,000 - 60,000
Max Heating Capacity at -8.3°C / COP	Btu/h	21,000 / 2.31	26,000 / 2.54	37,350 / 2.19	39,000 / 2.29	40,000 / 2.17
Max Heating Capacity at -15°C / COP ³	Btu/h	16,200 / 2.02	21,400 / 2.15	33,800 / 1.81	36,200 / 2.16	36,800 / 2.18
Max Heating Capacity at -20°C / COP	Btu/h	19,910 / 1.99	20,760 / 1.96	32,220 / 1.80	32,890 / 2.13	33,020 / 2.13
SEER / EER		19.2 / 13.3	19.5 / 12	18 / 11	17 / 11.05	16.5 / 10
HSPF		10.4	11	10	10	9.5
SEER2 / EER2		17.25 / 12.3	17.6 / 11.45	16.25 / 11	17.2 / 10.75	16.8 / 9.8
HSPF2 (IV / V)		9.25 / 7.75	9.7 / 7.9	8.95 / 7.05	9.35 / 7.65	9.2 / 7.4
Power	Voltage (ODU)	V, Ø, Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Dimensions	IDU Dimensions (WxHxD)	in	18 x 48-11/16 x 21-1/4	18 x 48-11/16 x 21-1/4	18 x 48-11/16 x 21-1/4	25 x 55-3/16 x 21-1/4
	ODU Dimensions (WxHxD)	in	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 54-11/32 x 13	37-13/32 x 54-11/32 x 13
Weight	IDU Weight (Net/Shipping)	lbs	116.8 / 128.4	116.8 / 128.5	122.4 / 134	158.7 / 176.4
	ODU Weight (Net/Shipping)	lbs	129 / 141	130 / 143.3	198.9 / 223.1	203 / 232
Sound Pressure ⁴	Indoor (H/M/L/SL)	dB(A)	35 / 33 / 30	36 / 34 / 30	44 / 41 / 39	48 / 45 / 44
	Outdoor Max (Cool / Heat)	dB(A)	48 / 52	48 / 52	52 / 54	52 / 54
Standard Warranty		5 Years Parts, 7 Years Compressor (Parts only, labour not included)				
Limited Registered Warranty ⁵		10 Years Parts, 10 Years Compressor (Parts only, labour not included)				

Single Zone LGRED[®] VAHU General Data

Specification	Unit	LV181HHV4	LV241HHV4	LV361HHV4	LV420HHV	LV480HHV
Indoor Unit		LVN181HV4	LVN241HV4	LVN361HV4	LVN420HV	LVN480HV
Outdoor Unit		LUU180HHV	LUU240HHV	LUU360HHV	LUU420HHV	LUU480HHV
Rated Cooling Capacity	Btu/h	18,000	24,000	33,000	42,000	46,000
Cooling Capacity Range	Btu/h	7,200 - 24,800	9,600 - 30,000	14,400 - 44,000	16,800 - 50,000	18,400 - 55,000
Rated Heating Capacity	Btu/h	20,000	27,000	37,500	48,000	50,000
Heating Capacity Range	Btu/h	8,000 - 27,000	10,800 - 36,000	16,000 - 43,000	18,000 - 60,000	19,000 - 63,000
Max Heating Capacity at -8.3°C / COP	Btu/h	23,400 / 1.91	29,500 / 1.91	39,000 / 1.88	51,400 / 2.28	53,700 / 2.31
Max Heating Capacity at -15°C / COP ³	Btu/h	16,500 / 2.09	24,200 / 1.8	33,800 / 1.81	40,500 / 2.27	40,500 / 2.25
Max Heating Capacity at -20°C / COP	Btu/h	20,840 / 1.59	24,250 / 1.51	33,810 / 1.64	38,200 / 1.80	39,960 / 1.83
Max Heating Capacity at -25°C / COP	Btu/h	19,760 / 1.44	21,590 / 1.32	28,140 / 1.53	28,810 / 1.48	34,990 / 1.8
SEER		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
SEER2		17.05 / 13.35	16.45 / 11.9	16.4 / 11.95	17.3 / 12	17.75 / 11.95
HSPF2 (IV / V)		8.9 / 7.2	9.25 / 7.6	9.3 / 7.5	9.45 / 7.75	9.4 / 7.6
Power	Voltage (ODU)	V, Ø, Hz	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Dimensions	IDU Dimensions (WxHxD)	in	18 x 48-11/16 x 21-1/4	18 x 48-11/16 x 21-1/4	18 x 48-11/16 x 21-1/4	25 x 55-3/16 x 21-1/4
	ODU Dimensions (WxHxD)	in	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 54-11/32 x 13	37-13/32 x 54-11/32 x 13
Weight	IDU Weight (Net/Shipping)	lbs	116.8 / 128.4	116.8 / 128.5	122.4 / 134	158.7 / 176.4
	ODU Weight (Net/Shipping)	lbs	133.4 / 144.4	133.4 / 144.4	198.9 / 223.1	210.9 / 234.1
Sound Pressure ⁴	Indoor (H/M/L/SL)	dB(A)	35 / 33 / 30	36 / 34 / 30	44 / 41 / 39	48 / 45 / 44
	Outdoor Max (Cool / Heat)	dB(A)	51 / 52	51 / 52	52 / 54	54 / 56
Standard Warranty		5 Years Parts, 7 Years Compressor (Parts only, labour not included)				
Limited Registered Warranty ⁵		10 Years Parts, 10 Years Compressor (Parts only, labour not included)				

Note:
 1. Rated capacity at 0 ft. above sea level with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor unit.
 2. Rated cooling capacity obtained with air entering the indoor unit at 26.7°C dry bulb (DB) and 19.4°C wet bulb (WB) and outdoor ambient conditions of 35°C dry bulb (DB) and 23.8°C wet bulb (WB).
 3. Rated heating capacity obtained with air entering the indoor unit at 21.1°C dry bulb (DB) and 15.6°C wet bulb (WB) and outdoor ambient conditions of 8.3°C dry bulb (DB) and 6.1°C wet bulb (WB).
 For capacity information, see engineering manual capacity tables.
 4. The Capacities at -15°C does not refer to H42 testing conditions.
 5. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 and are the same in both cooling and heating mode. These values can increase due to ambient conditions during operation.
 6. For details please visit www.lg.ca (* Quebec customers are not required to register their products)
 Due to our commitment to continued innovation, some specifications may be changed without notification.

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