

Large Hydronic Heater HL/HLE Series


Model Code:

H	12	11	-FS	-AS	-BW
A	B	C	D	E	F

A: Series HL=standard motor
HLE=ECM Motor
B: Voltage 12 = 120 Volt
C: 11 = 11100 Btu heat output @ 160°F / High Speed
D: Fan Switch (Standard)
E: Aqua Stat (Optional)
F: -BW = Bright White Grill Color



HYDRONIC



- Tangential blowers
- Fast coil heating
- Quiet operation
- 1/2" trade size copper tubes
- Flow-through design
- 4 or 8 aluminum fins per inch
- Easy motor removal for maintenance
- Permanently lubricated motor
- Powder-coated bright white
- Hi / Off / Lo fan switch
- Aqua Stat (Optional)
- Use HW series thermostats
- 2-year limited warranty

HL / HLE Series Large Hydronic Heater - 6,700 to 27,250 BTU

King's HL HLE Series large hydronic heater uses the energy from a building's existing hot water source to offer efficient, whisper quiet operation and the ability to reduce utility bills with individual room control. By installing hydronic heaters in every room, you can easily heat only the areas in use and conserve energy. Designed to fit neatly between standard wall studs, this in-wall heater provides out of the way positioning ideal for use in public areas, corridors, entry ways and large rooms or hallways. For use in both residential and commercial applications. Provides 6,700 to 27,250 BTU heat output. Recommended 17 BTU per square foot for new construction.

MODEL	Feet of Water Pressure Drop @ 2 GPM	Btu@2GPM	Model Number				Volts	Can Size	Grill Size	
			120°F 48°C	140°F* 60°C	160°F* 71°C	180°F 82°C	200°F MAX	Motor Hi/Lo CFM	Decibels at 3-ft distance	Hi/Lo: Amps Hi/Lo: Watts
			HL & HLE 1211 & 1220 – all versions				120	24¾"h x 14 ¼"w x 4¾"d	26¼"h x 15½"w x ¾"d	
HL1211-FS-BW	.90	HIGH SPEED	6000 BTU	8550 BTU	11100 BTU	14800 BTU	3 Watt output	Hi 57/55 dba	.30 / .29 Amps	
		LOW SPEED	4700 BTU	6200 BTU	8000 BTU	11000 BTU	250 /150 CFM	Lo 54/52 dba	36 / 34.8 Watts	
HL1213-FS-BW	.90	HIGH SPEED	7500 BTU	10000 BTU	13500 BTU	16600 BTU	3 Watt output	Hi 57/55 dba	.30 / .29 Amps	
		LOW SPEED	5500 BTU	8000 BTU	9750 BTU	12000 BTU	250 /150 CFM	Lo 54/52 dba	36 / 34.8 Watts	
HL1215-FS-BW	.90	HIGH SPEED	8812 BTU	11700 BTU	15500 BTU	18700 BTU	5 Watt output	Hi 64/62 dba	.42 / .38 Amps	
		LOW SPEED	6600 BTU	8800 BTU	11600 BTU	14000 BTU	375 /220 CFM	Hi 60/58 dba	50.4 / 45.6 Watts	
HL1220-FS-BW	1.2	HIGH SPEED	10600 BTU	15500 BTU	20000 BTU	26000 BTU	5 Watt output	Hi 64/62 dba	.42 / .38 Amps	
		LOW SPEED	7400 BTU	11600 BTU	15000 BTU	19500 BTU	375 /220 CFM	Hi 60/58 dba	50.4 / 45.6 Watts	
HL1225-FS-BW	1.2	HIGH SPEED	17000 BTU	20000 BTU	24050 BTU	27500 BTU	9 Watt output	Hi 64/62 dba	.42 / .38 Amps	
		LOW SPEED	13000 BTU	16800 BTU	19100 BTU	22500 BTU	375 /220 CFM	Hi 60/58 dba	50.4 / 45.6 Watts	
Energy Saver ECM Motor	Feet of Water Pressure Drop @ 2 GPM	Btu@2GPM	120°F 48°C	140°F* 60°C	160°F* 71°C	180°F 82°C	200°F MAX	Motor Hi/Lo CFM	Decibels at 3-ft distance	Hi/Lo: Amps Hi/Lo: Watts
HLE1215-FS-BW	.90	HIGH SPEED	8812 BTU	11700 BTU	15500 BTU	18700 BTU	150 to 375 High	Hi 57/55 dba	.06 / .04 Amps	
		LOW SPEED	6600 BTU	8800 BTU	11600 BTU	14000 BTU	150 to 250 Low	Lo 54/52 dba	7.2 / 4.8 Watts	
HLE1220-FS-BW	1.2	HIGH SPEED	10600 BTU	15500 BTU	20000 BTU	26000 BTU	150 to 375 High	Hi 63/61 dba	.09 / .06 Amps	
		LOW SPEED	8812 BTU	11700 BTU	15500 BTU	18700 BTU	150 to 250 Low	Lo 54/52 dba	10.8 / 7.2 Watts	

*most common water temperature range. Coils are made of copper alloy 122 manufactured to ATSM B-75 specifications. Brazing alloy is AWS-BCUP2 for use with potable water systems. Electrical circuit size: 15 amp maximum. BTU ratings based on 68° entering air. To calculate 1 GPM, multiply by 0.95. To calculate 4 GPM, multiply by 1.05.



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Factory Installed Options

ADD SUFFIX	DESCRIPTION
-AS	Aqua Stat

Replacement Accessories

ADD SUFFIX:	UPC	DESCRIPTION	WT. (lbs.)
HLG-BW	22209	HL Grill 100-0330	4.9

Engineering Specifications

Contractor shall supply and install HL/HLE Series hydronic fan heaters manufactured by King Electrical Mfg. Co., Seattle, Washington.

Motor: 2 speed shaded pole impedance protected. Permanently lubricated. Bronze bearings.

Blower: Tangential blower to provide 50 or 120 CFM of air. Quiet operation of less than 53 dB A weighted scale at high speed. Easily removed for service. Bronze, not plastic, bearings.

Coils: 1/2" ID Copper tubes with Aluminum fins of no more than 8 fins per inch for free flow of air and maximum circulation of air and water. Tested at 300 PSI for leaks. Copper tube used in coil is Alloy 122 made to ASTM B-75 specifications. For potable water use.

Grill: 20 gauge mild Steel, louvered with Nickel-plated grill screws. Powder-coated in bright white.

Wall Can: 20 gauge mild Steel, electro-galvanized to resist corrosion. 1/2" knockout in bottom of can and QuickSet™ bend out mounting tabs for fast installation.

Fan Switch: 3 position fan switch High / Off / Low. Rated at 10 Amps with wire leads and insulated 1/4" quick connects.

Aqua Stat (Optional): ensures the water temperature is over 115°F before the fan turns ON

Terminal Board: All electrical connections will terminate at a phenolic terminal board with 1/4" male brass blades for easy wiring.

Water Connections: 1/2" ID bare Copper tubes de-burred. Tested at 300 PSI for leaks. Clean out tubes for water connection.

Approvals: ETL (3131491PRT-001). All King heaters are tested to UL 1995 Standards. Approved for USA and Canada. CSA/C22.2.