

HYDRONIC HEATER



120 Volt • 2,000 - 20,000 BTU

Quiet Fan Heating



FEATURES:

- Squirrel Cage Blower
- 2 Speed Motor
- 5/8" OD Copper tubes
- 4 Aluminum fins per inch
- Flow-through design
- Fast coil heating
- Permanently lubricated motor
- Easy motor removal for maintenance
- Quiet operation
- Powder-coated white grill
- 160 CFM / 95 CFM
- Hi / Off / Lo fan switch
- Bleed valve



H812 6/8 shown
6000 / 8000 BTU
140° 160° water

SYSTEM MATCHED THERMOSTATS:



We manufacture our controls to offer optimum efficiency and comfort. Specifically designed for our hydronic fan heater, the HW series thermostat has a .9°F accuracy to keep you comfortable using only the minimum amount of energy to do the job.

The large backlit LCD display is easy to read from across a room. Thermostats are also available in Energy Star programmable and pump timer models.

*To ensure proper heater function use only King **SYSTEM MATCHED** thermostat models HW, HWP, HWPT or HB, HBP with King hydronic heaters.*

Creating better high quality products is not new to King. Our commitment to the heating industry spans over a well-established 50 years.

The H series hydronic heater was developed in the Pacific Northwest for use in townhomes and other city dwellings where space is at a premium. It can also be used as a supplemental heater in a floor heating system commonly used in laundry rooms, mud rooms or hallways. The small size and quiet operation make it perfect for bedrooms too.

Designed to fit between 16 on center studs and with the water feed on top, the H series heater can be placed in any location in a house.

Manufactured in the U.S.A., our product quality, on time delivery and customer service is second to no one.

All components are ETL tested to UL1995.

ENGINEERING SPECIFICATIONS:

Contractor shall supply and install H 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 95 or 160 CFM of air. Quiet operation of less than 53 dBA weighted scale at high speed. Easily removed for service. Bronze, not plastic, bearings.

Coils: 5/8" OD Copper tubes with Aluminum fins of no more than 4 fins per inch for free flow of air and maximum circulation of air and water. Tested at 300 PSI for leaks. Bleed valve to purge air.

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

Wall Can: 20 gauge mild Steel, electrogalvanized 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.

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

Water Connections: 5/8" bare Copper tubes de-burred. Tested at 300 PSI for leaks. Clean out tubes for water connection.

Construction Details:

A special selectable two speed shaded pole motor at just the right RPM, coupled with a silent squirrel cage blower that moves air very quietly. The coils are 4 fins per inch allowing free air movement and encouraging dirt and lint to pass through.

Large water circuits allow more heat to the coil surface, lowering restrictions and providing higher water temperatures to a second heater. Offset treaded pipe connections make it easy to install.

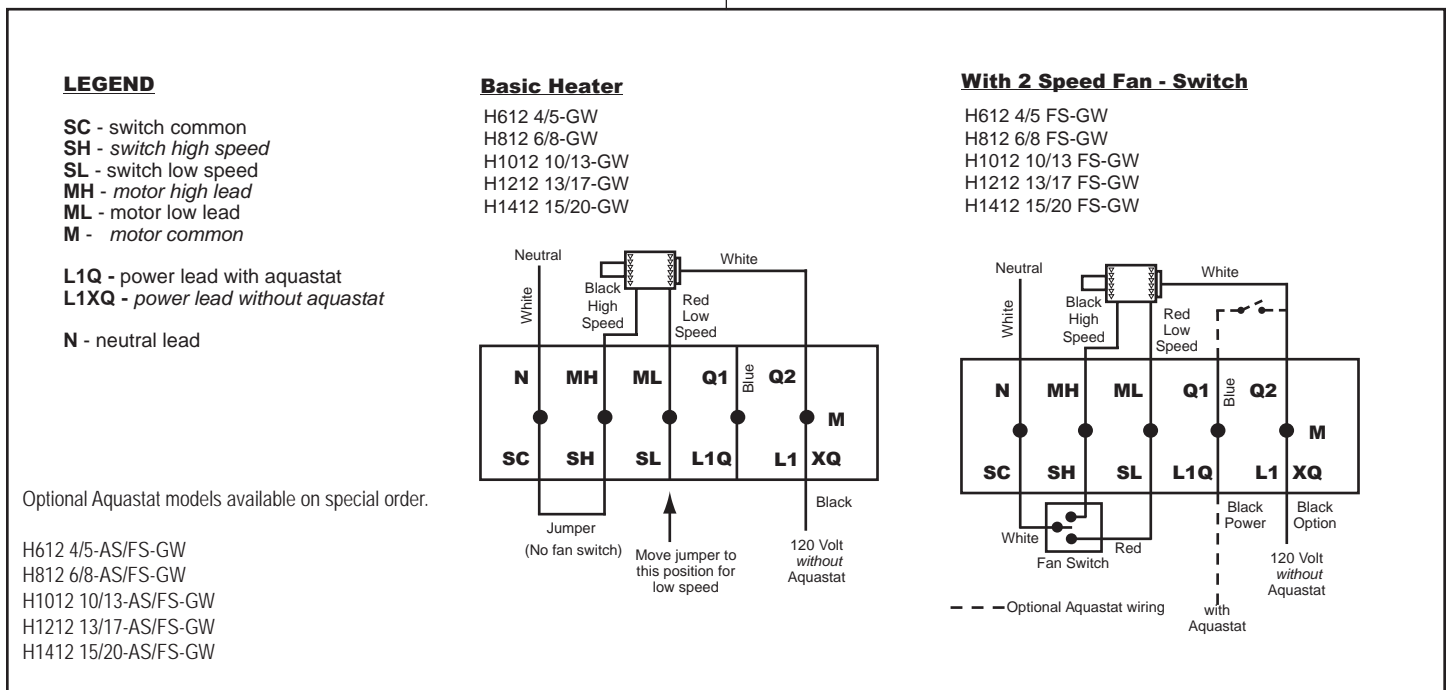
Faster Installation:

Many features built into the design of this heater allows for a faster installation time compared to any other hydronic heater.

Unique KING features:

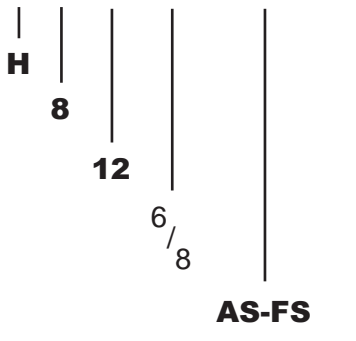
- Can fits in standard 2 x 4 stud wall
- 3 position white switch HI / Off / LOW
- Bare Copper tube ends for water connection
- Large make up wiring area
- Thin profile grill
- Terminal board for wiring connections
- Quick Set™ mounting wings
- High airflow coil with 4 fins per inch
- Upflow fan increases motor life
- Convenient upflow water connections
- **SYSTEM MATCHED** thermostat
- Nickelplated Philips/square drive screws for grill
- Silent operating 2 speed blower
- High water flow 5/8" OD copper tubes
- 14 3/8" stud bay heater space placement
- Optional Aqua Stat 115°F on temp.
- Paint mask installed
- Small, compact, easy to carry size

WIRING:



Specifications:

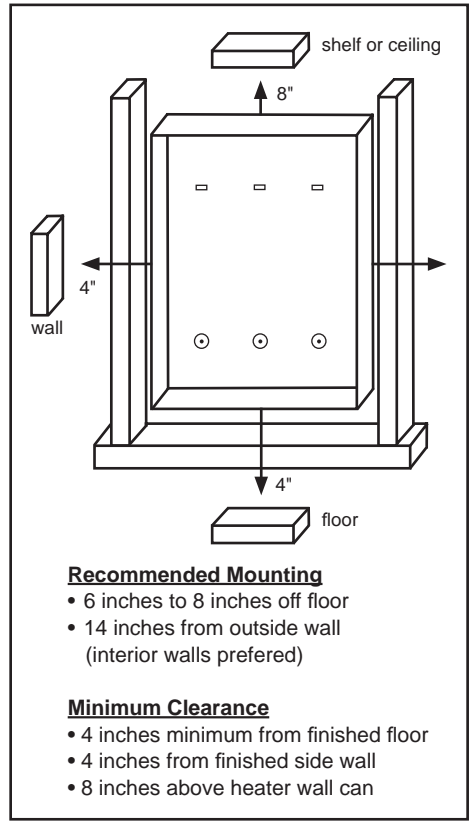
H Model Number Legend
H 8 12 6/8 AS-FS GW



Electrical Circuit Sizing
 Maximum 15 Amps
 circuit breaker or fusing

H Series Hot Water
 Number of copper tubes in coil
 Voltage **120**
6000 BTU heat output @ 140 Degree water input
8000 BTU heat output @ 160 Degree water input
Aqua Stat / **Fan Switch**
GW **G**rill **W**hite or **B**lack color

Inlet water temperature range: 100 to 200 Degree F
 Air Delivery: 95 to 150 CFM
 CFM High Speed: 150 Motor Amps .48 @ 120 Volt
 CFM Low Speed: 95 Motor Amps .40 @ 120 Volt
 Decade Motor: 150 Motor Amps .09 @ 120 Volt
 Power Supply: 110 to 125 Volt AC



				COLUMN A	COLUMN B
UPC #093319	MODEL NUMBER*	BTU 140 / 160°	VOLTS	CAN SIZE H x W x D	GRILL SIZE H x W x D
21079	H412 2/3-FS-GW	2,000 / 3,000	120	9 1/2" x 14 3/8" x 4 3/4"	10 1/2" x 15 3/4" x 7/8"
21081	H612 4/5-FS-GW	4,000 / 5,000	120	11" x 14 3/8" x 4 3/4"	12 1/2" x 15 3/4" x 7/8"
21083	H812 6/8-FS-GW	6,000 / 8,000	120	12 1/2" x 14 3/8" x 4 3/4"	14" x 15 3/4" x 7/8"
21085	H1012 10/13-FS-GW	10,000 / 13,000	120	14 1/4" x 14 3/8" x 4 3/4"	15 3/4" x 15 3/4" x 7/8"
21087	H1212 13/17-FS-GW	13,000 / 17,000	120	15 3/4" x 14 3/8" x 4 3/4"	17 1/4" x 15 3/4" x 7/8"
21089	H1412 15/20-FS-GW	15,000 / 20,000	120	17 1/4" x 14 3/8" x 4 3/4"	19" x 15 3/4" x 7/8"

* Aqua Stat not required when using a King hydronic thermostat. In-built Aqua Stat is available by special order only, consult factory for price and availability. For Aqua Stat add -AS to part number (ex: H612 4/5-**AS**/FS-GW).

MODEL *	AMPS	RPM	CFM	BTUH@2GPM	120°	140°	160°	180°	200°
H412 2/3	.48	2550	150	High Speed	2,000	2,800	3,800	5,000	7,000
H412 2/3	.40	1850	95	Low Speed	1,600	2,250	3,000	4,000	5,100
H612 4/5	.48	2550	150	High Speed	2,500	4,010	5,500	7,500	10,000
H612 4/5	.40	1850	95	Low Speed	1,800	2,800	3,400	6,000	7,400
H812 6/8	.48	2550	150	High Speed	3,500	6,500	8,000	10,000	13,000
H812 6/8	.40	1850	95	Low Speed	2,800	5,200	6,400	8,000	10,400
H1012 10/13	.48	2550	150	High Speed	5,700	10,500	13,500	17,000	20,000
H1012 10/13	.40	1850	95	Low Speed	4,500	8,400	10,800	13,600	16,000
H1212 13/17	.48	2550	150	High Speed	9,000	13,000	17,100	20,700	25,000
H1212 13/17	.40	1850	95	Low Speed	7,200	10,500	13,700	17,000	20,000
H1412 15/20	.48	2550	150	High Speed	10,800	15,300	20,300	25,200	30,000
H1412 15/20	.40	1850	95	Low Speed	8,700	12,300	16,300	21,000	24,000

Pressure Drop in Coils

- 1 GPM .05
- 2 GPM .12
- 3 GPM .25
- 4 GPM .42

Electrical Circuit Sizing

Maximum 15 Amps
circuit breaker or fusing

THERMOSTATS:



Model	Volts	Programmable	E-Z Dial Program	Pump Timer (15 min. in 24 hr.)	Battery Operation	2 Step	Back-light	Off Switch	Energy Star	12.5 Amps	16 Amps	LCD display	Program Backup	LED "ON" indication	Fan Delay (1 min.)
HW120	120					✓	✓	✓		✓		✓	✓	✓	✓
HWP120	120	✓				✓	✓	✓	✓	✓		✓	✓	✓	✓
HWPT120	120	✓		✓		✓	✓	✓	✓	✓		✓	✓	✓	✓
HB	24-240				✓	✓					✓	✓	✓		✓
HBP	24-240	✓	✓		✓	✓			✓		✓	✓	✓		✓

King **SYSTEM MATCHED** thermostat's are the perfect solution for your hydronic heating being especially designed to work with King hydronic heaters. Five models to choose from!

*To ensure proper heater function use only King **SYSTEM MATCHED** thermostat models HW, HWP, HWPT or HB, HBP with King hydronic heaters.* Typical installation is one HWPT120 to control the pump and all others HW120 or HWP120.

