



## *Hydronic Unit Heater*

Designed to maximize efficiency with minimum size.

### **Lodronic™ Low-Temperature Hot Water Unit Heater**

The Lodronic™ has been developed by Modine as the first low-temperature hot water heater in the USA engineered and designed specifically for use with high-efficiency boilers\*, geothermal or air-to-water heat pump systems to maximize efficiency.

With Lodronic, the typical oversized hydronic unit heater can be downsized and replaced to stop overworking your boiler.

\*Includes electric and condensing boilers



### **Experience Significant Performance Improvements with Lodronic\***

- Up to 77% less electric used
- Up to 71% smaller footprint
- Up to 8 dbA quieter
- Up to 66% lighter
- Cooling Capability (with optional drain pan)
- 30°, 60°, and 90° hoods available for increased air throw
- Up to 50% higher discharge temperature

\* Compared to traditional steam/HW hydronic unit providing similar capacity

Lodronic is UL 60335-2-40 certified

#### **Ideal Commercial Applications:**

- Warehouses
- Industrial buildings
- Mechanical rooms
- Manufacturing plants
- Entryways

#### **Ideal Residential Applications:**

- Garages
- Work rooms



## Standard Features

- High-temperature output vs older traditional systems
- High-efficiency 4-row coil with low water pressure drop
- Smaller fan and motor for a lower system amp draw
- Designed for lower entering hot water temperatures

## Select from Six Sizes to Perfectly Match Your Application

- 22k to 195k BTU/hr (at 140°F EWT with 60°F EAT)
- 370 to 3200 CFM
- 115, 208, 240, 480, 575V/ 1 phase
- 208, 240, 480, 575V/ 3 phase

	TARGET CAPACITY (BTU/hr)					
With 60F EAT, 140F EWT, 20F WTD	22,000	39,000	67,000	104,000	170,000	195,000
PREVIOUS HORIZONTAL UNIT OPTIONS	HC 63	HC 108	HC 165	HC 290	PT 500	PT 610
Casting Size (H"xW"xD")	20.4 x 21.5 x 8.75	24.4 x 25.5 x 9.5	30.5 x 30.5 x 9.3	38.5 x 38.5 x 12.5	Ø43.3 x 29	Ø51.5 x 29.6
Weight (lbs)	48	74	92	168	376	472
Sound (dba @ 10' from front)	58.4	58.1	62.3	64	–	74.5
Sound Reduction Compared to Above Unit	180%	260%	260%	221%	–	–
Motor HP	1/12	1/8	1/3	1/2	1-1/2	1-1/2
Amp Draw @ 115V	1.7	2.2	4.2	7	18	18
GPM	2.4	4.3	7	11.9	17.8	22.7
WPD	0.2	0.8	2.6	2	0.1	0.3
Final Air Temp (°F)	78	79	79	83	75	77
LODRONIC OPTIONS	HCH 22	HCH 39	HCH 67	HCH 104	HCH 170	HCH 195
Casing Size (H"xW"xD")	14.5 x 20.2 x 8.4	18.5 x 24.5 x 8.4	22.5 x 29 x 9.7	26.5 x 33 x 9.7	34.5 x 39.5 x 11.2	34.5 x 45.5 x 11.2
% Smaller	36%	36%	27%	54%	64%	71%
Weight (lbs)	32	46	80	93	145	160
% Lighter	33%	38%	13%	45%	61%	66%
Sound (dba @ 10' from front)	53.3	49.8	53.9	57.1	64.6	66.2
Motor HP	1/15	1/15	1/6	1/6	1/3	1/3
Amp Draw @ 115V	0.6	0.6	2.5	2.5	4.2	4.2
Watt Savings / Year	126.5	184	195.5	517.5	1,587	1,587
% Less Energy	65%	73%	40%	64%	77%	77%
Motor Electrical Savings/Year*	\$32.89	\$47.84	\$50.83	\$134.55	\$412.62	\$412.62
GPM	2.2	3.9	6.7	10.4	17	19.5
GPM reduction	0.2	0.4	0.3	1.5	0.8	3.2
WPD (ft. H <sub>2</sub> O)	4.9	1.5	2.6	4.8	7.4	10.4
WPD Difference	4.7	0.7	0	2.8	7.3	10.1
Final Air Temp (°F)	113	113	113	112	115	115
Increase in Final Air Temp (°F)	35	34	34	29	40	38

\*Based on national average \$0.13 \$/kW/h and 2000 hours of heating runtime.

HCH COOLING PERFORMANCE DATA (45°F ENTERING WATER AND 80°F ENTERING AIR)										
MODEL NO.	ENTERING DB AIR TEMP (°F)	ENTERING WB AIR TEMP (°F)	CFM	ENTERING WATER TEMP (°F)	FLOW GPM (WATER)	WATER TEMP RISE (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY	LEAVING DB AIR TEMP (°F)	LEAVING WB AIR TEMP (°F)
HCH 22	80	67	370	45	2.5	10	12.7	9.0	57.8	55.8
HCH 39	80	67	660	45	4.8	10	23.8	16.6	57.1	55.1
HCH 67	80	67	1150	45	8.3	10	41.4	28.6	57.3	55.2
HCH 104	80	67	1830	45	13.1	10	65.7	45.0	57.5	55.2
HCH 170	80	67	2780	45	21.1	10	105.6	71.3	56.6	54.4
HCH 195	80	67	3200	45	25.0	10	125.4	83.9	56.0	54.0



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