

# INTRODUCING THE **TOYOTOMI HC-20** **HEAT CONVECTOR**



## *Maximize the Benefits of Hydronic Heating!*

- Complements the highest efficiency, aquastatic controlled boilers that use low water temperatures.
- Internal thermostat control circuitry allows unit to communicate to zone valve or boiler controller - **an exclusive feature that no other convector has!**
- Easy to use LED display panel with built in thermostat that instructs boiler when zone should come on or off based on homeowner's desired comfort requirement.
- Variable fan speed maximizes operating efficiency and fuel savings.
- Benefit of both radiant heat and convective heat.
- Whisper quiet fan efficiently distributes heat evenly throughout the home.
- Heats an area of 300 to 1,000 square feet (heat output of 3,000 BTU per hour on low setting to 20,200 BTU per hour on high).
- Saves valuable wall space, replacing up to 37 feet of baseboard\*.
- Can be installed in less than half the time of baseboard.
- 10-year heat exchanger limited warranty.

\*Baseboard length calculated based on 550 BTU/ft.

**TOYOTOMI**

# TOYOTOMI HEAT CONVECTOR HC-20 SPECIFICATIONS



Model:	HC-20 HEAT CONVECTOR
Type:	Hot water heating, floor standing, or wall hanging (with available accessory)
Heating Range:	3,000-20,200 BTU/H
Heat Exchanger:	0.16 gal. (0.6L)
Flow Rate:	1.0 gal./min. (3.785L/min.)
Hot Water Temperature Range:	110°F - 190°F (43°C - 87.8°C)
Operation Mode:	Auto Fan Mode - 4 fan speeds (Hi/Med/Lo/Off) Manual Fan Mode - 3 fan speeds (Hi/Med/Lo)
Dimensions (W x H x D):	28-3/8" x 15-1/4" x 7-3/8" (720 x 387 x 187 mm)
Weight:	27.5 lbs. (12.5 kg)
Set Temperature Range:	50°F - 90°F (12°C - 30°C)
Electrical Rating:	120 Volts AC, Single phase 60Hz, High - 37W (0.4A), Med - 16W, Low - 9W
CFM:	High - 226 F3/min, Med - 141 F3/min, Low - 64 F3/min
Sound Pressures at 8.2 ft. (2.5m) (dBA):	High - 38, Med - 28, Low - 19
Fuse:	5A



## Heating Performance (BTU):

Circulation Water Volume GPM (L/min)	Fan Speed	Temperature of Circulation Water							
		110°F(43°C)	120°F(49°C)	130°F(54°C)	140°F(60°C)	150°F (66°C)	160°F(71°C)	170°F(77°C)	180°F(82°C)
0.5 GPM (1.89 L/min)	Low	2939 BTU	3646 BTU	4353 BTU	5059 BTU	5766 BTU	6473 BTU	7179 BTU	7886 BTU
	Medium	5081 BTU	6099 BTU	7116 BTU	8133 BTU	9151 BTU	10168 BTU	11185 BTU	12203 BTU
	High	6002 BTU	7368 BTU	8733 BTU	10099 BTU	11464 BTU	12830 BTU	14195 BTU	15561 BTU
1.0 GPM (3.79 L/min)	Low	3429 BTU	4105 BTU	4780 BTU	5456 BTU	6132 BTU	6808 BTU	7484 BTU	8160 BTU
	Medium	5932 BTU	7096 BTU	8260 BTU	9424 BTU	10588 BTU	11752 BTU	12916 BTU	14080 BTU
	High	7561 BTU	9155 BTU	10749 BTU	12344 BTU	13938 BTU	15532 BTU	17126 BTU	18720 BTU
1.5 GPM (5.68 L/min)	Low	3866 BTU	4532 BTU	5198 BTU	5863 BTU	6529 BTU	7195 BTU	7860 BTU	8526 BTU
	Medium	6485 BTU	7956 BTU	9427 BTU	10899 BTU	12370 BTU	13841 BTU	15313 BTU	16784 BTU
	High	8305 BTU	9998 BTU	11691 BTU	13385 BTU	15078 BTU	16771 BTU	18464 BTU	20158 BTU

BTU/H Output based on 68° F room temperature.

## Hydraulic Resistance:

Circulation Water Volume	Resistance
1.5 G (5.68 L/min)	7.0 PSI/48 kPa
1.0 G (3.79 L/min)	3.2 PSI/22 kPa
0.5 G (1.89 L/min)	0.9 PSI/6 kPa



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