

# SECTION A: SPECIFICATIONS

Model:	HC-190
Type:	Hot Water Heating, Floor Standing Type
Heat Rating Range:	4,050 to 20,000 BTU/h (1.2 to 5.8 kW) *See the chart below for details.
Max. Allowable Pressure:	142 PSI (0.98 MPa)
Heat Exchanger Capacity:	0.16 gal. (0.6 L)
Flow Rate Range:	0.5 gal./min. to 1.5 gal./min. (1.89 to 5.68 L/min.)
Hot Water Temperature:	110°F – 190°F (43°C – 87.8°C)
Noise Level	High: 40 dBA      Med: 35 dBA      Low: 23 dBA NOTE: Noise levels tested at 2.5 m.
Air Volume	High: 226 CFM      Med: 141 CFM      Low: 64 CFM
Operation Mode:	Auto Fan Mode – 4 fan speeds (High/Med/Low/Off) Manual Fan Mode – 3 fan speeds (High/Med/Low)
Dimensions (W × H × D):	28-3/8" × 15-1/4" × 7-3/16" (720 × 387 × 182 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 60 Hz High - 37W (0.4A) Med - 16W Low - 9W
Electrical Current 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)	190°F (88°C)
0.5 GPM (1.89 L/min)	Low	4026 BTU	4991 BTU	5939 BTU	6905 BTU	7870 BTU	8818 BTU	9784 BTU	10732 BTU	11697 BTU
	Medium	4987 BTU	6183 BTU	7357 BTU	8553 BTU	9748 BTU	10923 BTU	12118 BTU	13293 BTU	14488 BTU
	High	5479 BTU	6775 BTU	8048 BTU	9345 BTU	10641 BTU	11914 BTU	13211 BTU	14484 BTU	15780 BTU
1 GPM (3.79 L/min)	Low	4372 BTU	5421 BTU	6451 BTU	7500 BTU	8548 BTU	9578 BTU	10627 BTU	11657 BTU	12706 BTU
	Medium	5793 BTU	7182 BTU	8547 BTU	9936 BTU	11325 BTU	12690 BTU	14079 BTU	15443 BTU	16832 BTU
	High	6427 BTU	7952 BTU	9449 BTU	10974 BTU	12498 BTU	13995 BTU	15520 BTU	17017 BTU	18541 BTU
1.5 GPM (5.68 L/min)	Low	4459 BTU	5529 BTU	6579 BTU	7649 BTU	8718 BTU	9769 BTU	10839 BTU	11889 BTU	12959 BTU
	Medium	5993 BTU	7430 BTU	8841 BTU	10278 BTU	11716 BTU	13127 BTU	14564 BTU	15976 BTU	17413 BTU
	High	6933 BTU	8578 BTU	10195 BTU	11841 BTU	13487 BTU	15103 BTU	16749 BTU	18365 BTU	20011 BTU

Room Temperature: 68°F (20°C)  
(kW)

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)	190°F (88°C)
0.5 GPM (1.89 L/min)	Low	1.19 kW	1.47 kW	1.75 kW	2.03 kW	2.31 kW	2.59 kW	2.88 kW	3.15 kW	3.44 kW
	Medium	1.48 kW	1.83 kW	2.17 kW	2.52 kW	2.87 kW	3.21 kW	3.57 kW	3.91 kW	4.26 kW
	High	1.62 kW	2.00 kW	2.37 kW	2.75 kW	3.13 kW	3.51 kW	3.89 kW	4.26 kW	4.64 kW
1 GPM (3.79 L/min)	Low	1.29 kW	1.60 kW	1.90 kW	2.21 kW	2.51 kW	2.82 kW	3.12 kW	3.42 kW	3.73 kW
	Medium	1.71 kW	2.12 kW	2.52 kW	2.93 kW	3.33 kW	3.73 kW	4.14 kW	4.54 kW	4.95 kW
	High	1.90 kW	2.34 kW	2.78 kW	3.23 kW	3.68 kW	4.11 kW	4.56 kW	5.00 kW	5.45 kW
1.5 GPM (5.68 L/min)	Low	1.32 kW	1.63 kW	1.94 kW	2.25 kW	2.56 kW	2.87 kW	3.18 kW	3.49 kW	3.81 kW
	Medium	1.77 kW	2.19 kW	2.61 kW	3.03 kW	3.45 kW	3.86 kW	4.28 kW	4.70 kW	5.12 kW
	High	2.05 kW	2.53 kW	3.00 kW	3.48 kW	3.97 kW	4.44 kW	4.92 kW	5.40 kW	5.88 kW

Room Temperature: 68°F (20°C)

**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