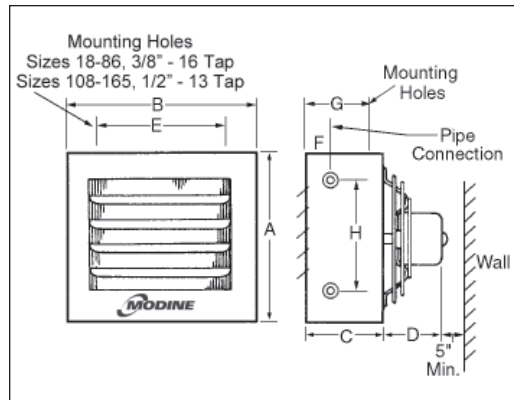


SUBMITTAL DATA horizontal steam/hot water unit heaters model HC, side connections

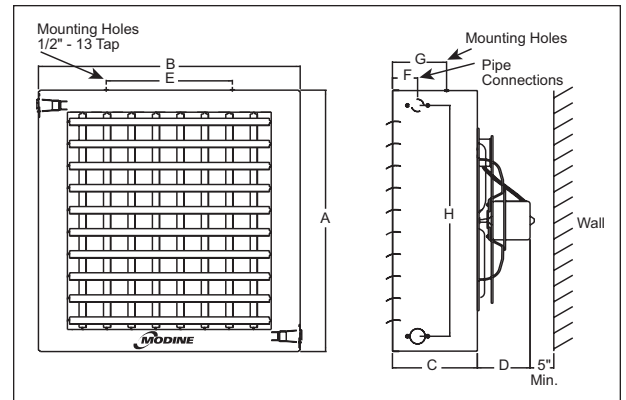


**Canadian
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heat exchangers
CRN
OH 9234.5**

**Figure 1.1
Model Dimensions HC18-165**



**Figure 1.2
Model Dimensions HC193-340 ①**



① Vertical deflector blades shown are standard on models HC 258-340 and optional on model HC 193.

Table 1.1 - Dimensions ①②

Model No.	A	B	C	D		E	F	G	H	Connections NPT	Shipping Fan Dia.	Approx. Weight (Lb.)
				115V Std. Motor	115V Exp. Motor							
HC-18	11-1/2	12-3/4	6	5	12-1/4	5-5/8	2-1/4	4-1/8	7 1/2	1/2	9	16
HC-24	11-1/2	12-3/4	6	5	12-1/4	5-5/8	2-1/4	4-1/8	7 1/2	1/2	9	20
HC-33	15	17-1/2	8-3/4	6	11-3/4	11	3-5/8	6	10	3/4	12	34
HC-47	15	17-1/2	8-3/4	6	11-3/4	11	3-5/8	6	10	3/4	12	6
HC-63	18-1/2	21-1/2	8-3/4	7 3/4	12	15	3-5/8	6	14	3/4	12	48
HC-86	18-1/2	21-1/2	8-3/4	7 3/4	12	15	3-5/8	6	14	3/4	14	52
HC-108	22-1/2	25-1/2	9-1/2	6 3/4	13-1/4	18	3-5/8	6-3/8	18	3/4	18	74
HC-121	22-1/2	25-1/2	9-1/2	6 3/4	11	18	3-5/8	6-3/8	18	3/4	18	76
HC-165	26-1/2	29-1/2	9-1/4	8	14	21-1/4	3-5/8	6-3/8	22	3/4	22	92
HC-193	30-1/2	32-1/2	9-1/4	8	14	21-1/4	3-5/8	4-3/4	26	1-1/4	22	98
HC-258	38-1/2	38-1/2	12-1/2	10	15	18-5/8	3-5/8	8	34	1-1/4	22	163
HC-290	38-1/2	38-1/2	12-1/2	10	15	18-5/8	3-5/8	8	34	1-1/4	24	168
HC-340	38-1/2	44-1/2	12-1/2	10	15	18-5/8	3-5/8	8	34	1-1/4	24	176

① All dimensions in inches.

② Dimensions shown are for Standard and Low Outlet Temperature models.

Table 1.2 - Specifications

Model No.	Core Type		Copper Tube Size (Inches)	Copper Tube Wall Thickness (Inches)
	Single Serpentine	Double Serpentine		
HC-18	X	—	5/8 OD	0.028
HC-24	X	—	5/8 OD	0.028
HC-33	X	—	1 OD	0.030
HC-47	X	—	1 OD	0.030
HC-63	X	—	1 OD	0.030
HC-86	X	—	1 OD	0.030
HC-108	X	—	1 OD	0.030
HC-121	X	—	1 OD	0.030
HC-165	X	—	1 OD	0.030
HC-193	—	X	1 OD	0.030
HC-258	—	X	1 OD	0.030
HC-290	—	X	1 OD	0.030
HC-340	—	X	1 OD	0.030

Junction Box

All units include an electrical junction box either integral to the motor or attached to the unit casing. Explosion proof units include an explosion proof junction box attached to the motor.

Table 2.1 - Motor Data ①

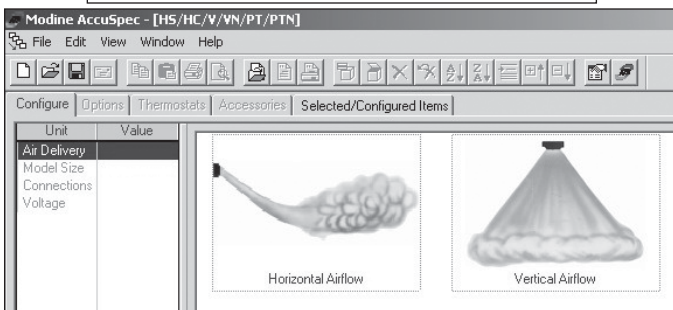
Model Number	Motor HP	Voltage, Motor Type and Power Code							
		115/60/1	230/60/1	200-208/60/3	230/460/60/3	115/60/1	230/460/60/3	575/60/3	575/60/3
		Totally Enclosed w/Thermal Overload	Totally Enclosed w/Thermal Overload	Totally Enclosed	Totally Enclosed	Explosion Proof w/Thermal Overload	Explosion Proof w/Thermal Overload	Totally Enclosed	Explosion Proof w/Thermal Overload
		01	02	04	05	06	09	10	11
		Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
HC-18	1/60	0.8	0.44	-	-	3.1	-	-	-
HC-24	1/25	1.6	0.44	-	-	3.1	-	-	-
HC-33	1/25	1.6	1	-	-	3.1	-	-	-
HC-47	1/12	2.2	1	1.2	1.4/0.7	3.1	-	-	-
HC-63	1/12	2.2	1	1.2	1.4/0.7	3.1	-	-	-
HC-86	1/8	2.3	1	1.2	1.4/0.7	3.1	-	-	-
HC-108	1/8	2.3	1	1.2	1.4/0.7	3.1	-	-	-
HC-121	1/6	2.8	1.5	1.9	2.1/1.05	4.1	1.5/0.75	0.84	-
HC-165	1/3	5.4	2.23	1.9	2.1/1.05	6.1	1.5/0.75	0.84	-
HC-193	1/3	5.4	2.23	1.9	2.1/1.05	6.1	1.5/0.75	0.84	-
HC-258	1/2	7.5	3.5	2.6	3.0/1.5	5.8	2.0/1.0	0.92	0.76
HC-290	1/2	7.5	3.5	2.6	3.0/1.5	5.8	2.0/1.0	0.92	0.76
HC-340	1/2	7.5	3.5	2.6	3.0/1.5	5.8	2.0/1.0	0.92	0.76

① Ratings shown are for Standard and Low Outlet Temperature models.

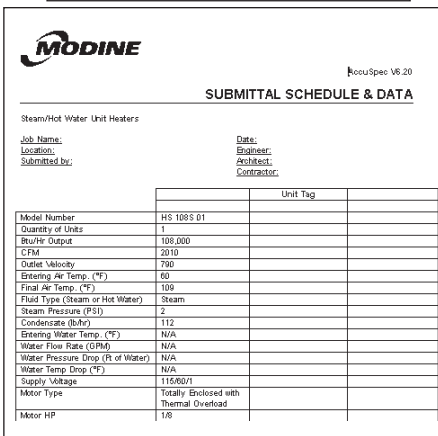


The Modine Breeze AccuSpec is the fastest way to generate performance data based on actual job conditions. The Breeze AccuSpec program is a Windows based sizing and selection program. The program provides a series on step-by-step questions that allow for the easy configuration of Modine products. After a model has been configured, the program can generate Submittal Schedules, Submittal Data including performance and dimensional drawings, and Specifications.

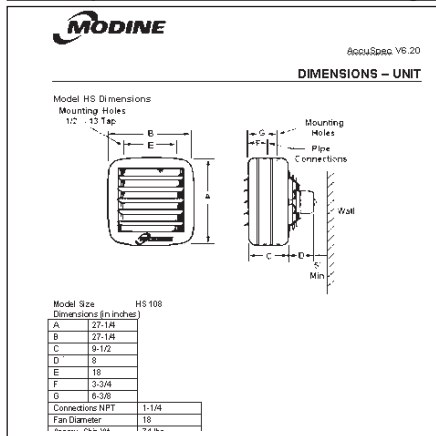
Pictures for Visual Selection



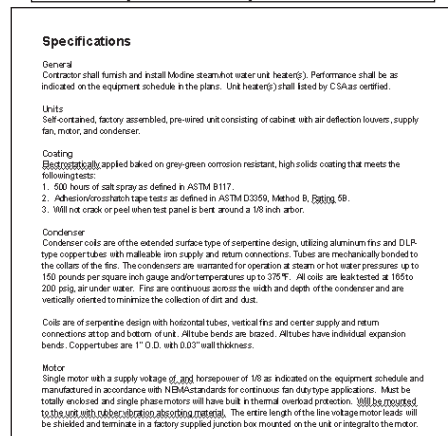
Submittal Schedules



Unit Specific Dimensional Drawings



Job Specific Specifications



For a copy of the Breeze AccuSpec program, contact your local Modine sales representative.