STEAM/HOT WATER, HORIZONTAL DELIVERY UNIT HEATERS

• Totally-Enclosed Motor • Thermal Overload Protection • Adjustable Horizontal Blades • Top/Bottom (Model HSB) or Side (Model HC) Inlet/Outlet Piping • Fan Safety Guard • High Air Velocity Models PT/PTN

MODEL HSB

MODEL HC

MODEL PT/PTN

An industry leader since Arthur B. Modine invented and patented the first lightweight, suspended hydronic unit heater in 1923, the Modine hydronic unit heater has proven one of the most popular of all unit-heater types in commercial and industrial applications. Designed for long heat-throw and uniform heat delivery, two types are offered:

- **Horizontal Delivery Units (Model HSB/HC)** – Recommended for use in buildings where ceilings are low and with few obstructions. Units are normally placed around the perimeter of the building so that the air stream from each heater "wipes" the wall to produce a blanket of warm air along walls where heat loss is greatest.
- **Power-Throw™ High Velocity Horizontal Delivery Units (Model PT/PTN)** – Recommended where there is a requirement for heat throw greater than can be provided by standard horizontal delivery models. For hard-to-heat areas, such as frequently opened loading dock doors or large warehouses, Power-Throw™ units are an ideal choice. A single Power-Throw™ unit can often replace as many as three smaller horizontal delivery units, reducing equipment, installation, and maintenance costs.

Standard features include:

- Top/bottom (Model HSB) or side (Model HC) inlet/outlet piping.
- Units install quickly, easily, and at low cost because they are lightweight, yet are ruggedly constructed to resist rigorous handling and on-the-job abuse.
- Carefully-selected motors and fans with a scientifically designed venturi fan-shroud reduce noise levels to a satisfactory minimum.
- Totally enclosed motor with thermal-overload protection.
- Fans are statically and dynamically balanced.
- Fan and motor assemblies are exposed and can be removed without lowering the unit heater.
- The unit casing is treated for protection against corrosion prior to the application of the attractive gray-green, baked-on polyester powder coat paint finish.
- Horizontal air deflector blades are standard (vertical deflector blades available).
- Low outlet temperature models are recommended for steam pressure above 30 PSI, but can also be used in dirty environments to minimize buildup of air contaminants on the coil.
- Modine PTN models feature coils made from cupro-nickel tubes that have the extra strength to withstand higher steam pressures (250 PSI) or water temperatures (400°F).

Performance Data

Model No.	Motor Data ①		Standard Models									
			Steam (2# Steam, 60°F Ent. Air)			Hot Water (200°F in 180°F out, 60°F Ent. Air)				CFM	Max. Mounting Height (Ft.)	Throw @ Max. Mounting Height (Ft.)
	HP	Approx RPM	Btu/Hr	Condensate (Lbs/Hr)	Final Air Temp. (°F)	Btu/Hr	Water Flow (GPM)	Final Air Temp. (°F)	Press. Drop (Ft of Water)			
HSB/HC 18	1/60	1550	18,000	18	107	12,600	1.3	94	0.5	340	8	17
HSB/HC 24	1/25	1550	24,000	25	119	16,300	1.7	100	0.8	370	9	18
HSB/HC 33	1/25	1550	33,000	35	108	21,700	2.3	91	0.2	630	10	21
HSB/HC 47	1/12	1550	47,000	49	119	30,900	3.2	98	0.4	730	12	28
HSB/HC 63	1/12	1550	63,000	66	111	45,600	4.7	97	0.6	1120	14	29
HSB/HC 86	1/8	1625	86,000	89	118	60,200	6.3	101	1.0	1340	15	31
HSB/HC 108	1/8	1625	108,000	111	109	83,700	8.7	98	2.8	2010	17	31
HSB/HC 121	1/5	1075	121,000	126	122	93,000	9.7	108	3.3	1775	16	25
HSB/HC 165	1/3	1075	165,000	170	106	130,900	13.6	97	8.6	3240	19	40
HSB/HC 193	1/3	1075	193,000	200	121	143,000	14.9	105	1.4	2900	18	38
HSB/HC 258	1/2	1075	258,000	267	111	202,000	21.0	100	5.7	4560	19	44
HSB/HC 290	1/2	1075	290,000	300	117	228,600	23.8	105	7.1	4590	20	46
HSB/HC 340	1/2	1075	340,000	352	120	271,100	28.2	108	11.3	5130	20	46
PT/PTN 279	1/2	1075	279,000	288	111	192,400	20.0	94	0.2	5460	16	100
PT/PTN 333	3/4	1140	333,000	345	116	238,500	24.8	99	0.4	5980	17	110
PT/PTN 385	1	1140	385,000	398	110	276,100	28.8	95	0.6	7680	17	115
PT/PTN 500	1-1/2	1140	500,000	518	108	358,000	37.3	93	0.5	10,390	18	130
PT/PTN 610	1-1/2	1140	610,000	631	112	450,400	46.9	97	1.0	11,750	20	140
PT 952	2	1140	952,000	986	139	721,600	75.2	120	1.1	12,170	21	145

① Applies to most popular motor.

Request Catalog 1-150 For Complete Technical Information and Specifications.