

Modine Manufacturing Company

Heating and Air Conditioning Division

General Offices: 17th and Holburn Sts., Racine, Wis.

Factories at Racine, Wis. and La Porte, Ind.

Branches in all Principal Cities

MODINE UNIT HEATERS



Front View



Back View

HORIZONTAL DELIVERY MODELS

Available with either steel or copper condensers. WPB Order restricts the use of copper condensers to shipboard application.

Steel Condenser—Heavy cylindrical steel tubes and headers are brazed into integral, pressure-resisting units. Steel fins permanently bonded to tubes with metal. Entire condenser assembly is given protective lead-alloy coating to reduce corrosion hazard. Expansion provided for by floating lower header, heavy tubes and parallel heavy brazing.

Direct - Pipe - Suspension—Modine patented feature permits suspending unit directly from supply line without additional time and labor wasting supports; also permits complete rotation of unit for redirection of air stream.

Bonderized Casing—Casing protected from rust by Parker Bonderizing.

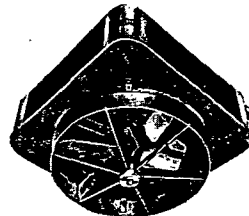
Safety Fan Guard—Staunch, steel safeguard built into unit protects against danger of unshielded fan.

CAPACITIES AND DIMENSIONS (For Steel-Condenser Units)

Model No.	Btu/hr*	Cfm	Rpm	Over-all Height	Width	Depth Less Motor
H-140 S/S	33,600	550	1635	17 1/2"	14 1/2"	9"
H-170 S/S	40,800	600	1530	20 1/2"	14 1/2"	9"
H-250 S/S	60,000	1060	1145	22 1/2"	19"	11"
H-350 S/S	84,000	1510	1120	24 1/2"	19"	11"
H-490 S/S	117,600	2300	1110	27 1/2"	23"	11 1/2"
H-580 S/S	139,200	2440	1125	27 1/2"	23"	11 1/2"
H-660 S/S	158,400	2650	1120	29 1/2"	24 1/2"	11 1/2"
H-715 S/S	171,600	2970	1115	29 1/2"	24 1/2"	11 1/2"
H-820 S/S	196,800	3640	1130	33 1/2"	26 1/2"	13"
H-1000 S/S	240,000	4350	1115	33 1/2"	26 1/2"	13"

*Btu at 2 lb steam, 60 deg Ent. Air.

★ VERTICAL DELIVERY MODELS



Bottom View

Available with steel or copper condensers; the latter being restricted to shipboard application.

Heavy steel tubes and headers brazed into rugged unit of steam carrying passages. Steel fins metallicly bonded to tubes. Entire condenser coated with lead alloy for protection against corrosion. Square shape of condenser provides uniform distribution of expansion stresses and absence of strain at points where injury might result. Parallel alignment of fins reduces possibility of dirt lodging between fins and clogging condenser.

Cone-Jet Deflectors—Verticals are regularly equipped with radial or spoke-like deflector assemblies illustrated above. Individually adjustable deflector blades make possible delivery of high, narrow jet-like cone of heated air from high elevation . . . or low, broad, softened-velocity cone from low elevation.

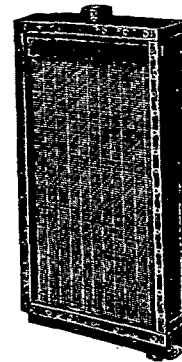
TrunCone Deflectors—Verticals can be furnished with special deflectors for use on units mounted at heights lower than recommended for Cone-Jet Deflectors.

CAPACITIES AND DIMENSIONS (For Steel-Condenser Units)

Model No.	Btu/hr*	Cfm	Rpm	Overall Dimension (Square)
V-620 S/S	149,000	2660	1725	33"
V-640 S/S	153,700	2840	1140	33"
V-780 S/S	187,100	4075	1725	33"
V-840 S/S	202,000	3800	1140	33"
V-1050 S/S	252,000	5900	1725	33"
V-1410 S/S	338,000	5830	1140	42 1/2"
V-1990 S/S	478,000	9310	1140	42 1/2"
V-2500 S/S	600,000	11130	1140	42 1/2"

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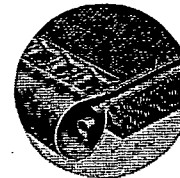
BLAST HEATERS



For heating, ventilating, air conditioning and industrial processing systems and food dehydration tunnels. All steel construction. Extra heavy tubes brazed to headers. Fins metallicly bonded to tubes. Entire steel condenser coated with corrosion-resistant lead alloy. Casing Parker-Bonderized for rust protection. Modine design stresses structural strength, light weight and highly effective heat transfer capacity with the ability to handle large volumes of air at lower-than-average static pressure losses. Wide range of sizes and types available makes it possible to meet practically any temperature, air movement and size requirement.

STEAM DISTRIBUTION TYPE BLAST HEATERS

Cross section of steel supply header and tube showing double-tube construction

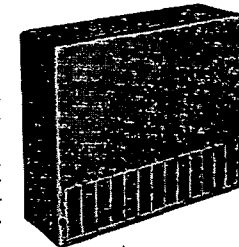


This line of steel coils is characterized by the uniform distribution of steam throughout the entire heating surface . . . even when steam is partially throttled to meet system temperature demands. Inserted in each condenser tube is a steam-distributing tube having small, accurately sized and spaced orifices along its entire length. Steam entering the distributing tube is uniformly rationed through the orifices into the external or condenser tube . . . then flows as condensate into the return header.

Uniform steam distribution provides a safeguard against freezing of condensate and tube damage, eliminating the need for preheaters or tempering coils. In addition to thus simplifying system design and control, uniform steam distribution solves the problem of stratification in the heated air stream.

CABINET UNIT HEATERS

Designed for heating offices, lobbies, corridors, etc. . . . wherever quick, positive distribution of heat combined with quiet operation and gentle air movement are desirable. Has considerably greater heat output than convector of equivalent size. Employs steel heating coil for use on steam or hot water system. Mounted on wall or ceiling. Capacities: 290 Edr. and 420 Edr.

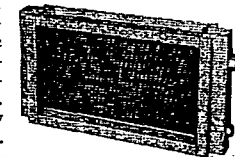


MARINE HEATING PRODUCTS

Unit Heaters—Horizontal and Vertical Delivery types as described on preceding page, but with all-copper and copper-alloy condensers.

Ventilation Heaters—

Standardized Navy and Commercial Marine types in pre-heater and re-heater design. Extensively used on U. S. Navy and Maritime Commission ships. All copper condensers. Shock-proof construction. Protected against salt air corrosion. Variety of sizes and fin spacings available. Navy type in accordance with latest Bureau of Ships General Type Plan.



Convectors—Standardized Navy and Commercial Marine types. In wide use aboard Navy and Maritime Commission ships. All copper heating unit. Enclosures are light weight, but structurally strong and built for rugged sea-going service. Navy type (illustrated) in accordance with latest Bureau of Ships General Type Plan and available for immediate delivery.

Technical Bulletins on complete line of Marine heating equipment supplied on request.

