

Hermetic Centrifugal Liquid Chillers

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RANGE OF APPLICATION

The 19DH refrigeration machine is designed for standard water chilling applications using Refrigerant 11.

ASME STAMPING

All 19DH heat exchangers are constructed in accordance with the ANSI B91 Safety Code for Mechanical Refrigeration. This code, in turn, requires conformance with the ASME Code for Unfired Pressure Vessels wherever applicable.

The 19DH heat exchangers have water-side volumes of less than 120 gal., and refrigerant-side design pressures of not more than 15 psig. The unit is therefore exempt from the ASME code requirements and is not stamped.

DESIGN PRESSURES

Design and test pressures for 19DH unishell heat exchangers are listed in Table 1.

Table 1 — Design and Test Pressures (psi)

PRESSURES	SHELL SIDE (Refrigerant)	TUBE SIDE (Water)
DESIGN	15	150
HYDROSTATIC TEST	30	325
AIR TEST	—	—

Table 2 — Unishell Material Specifications

ITEM	MATERIAL	SPECIFICATION
SHELL	HR Steel	ASME SA285 Grade C
WATER BOX SHELL	HR Steel	ASME SA285 Grade C
WATER BOX FLANGE	HR Steel	ASME SA285 Grade C
WATER BOX COVER	HR Steel	ASME SA285 Grade C
TUBE SHEET	HR Steel	ASME SA285 Grade C
TUBE SUPPORT SHEET	HR Steel	ASME SA285 Grade C
TUBES	Formed Copper	ASME SB359



STANDARD FACTORY INSULATION
EXTRA AVAILABLE FACTORY INSULATION

UNISHELL SIZE 19DH	EXTRA INSULATION* (sq. ft.)
42 - 57	130
61 - 65	213
71 - 78	216

*Water box insulation not included. If added, allow for service access to the covers.

Fig. 1 — 19DH Insulation Requirements

INSULATION

Standard Insulation — Compressor motor and motor cooling lines, motor vent-gas line and purge condensing chamber are factory insulated. The insulation applied at the factory is 3/4-in. thick and has a thermal conductivity K value of 0.28 Btu/h/in./F/ft². Insulation conforms with UL Standard 94, Classification 94HBF.

Additional Factory Insulation (When Ordered) — The suction elbow and the evaporator portion of the unishell will be factory insulated if specified.

Insulation at Jobsite — As indicated in Table 3, the factory insulation provides excellent protection against condensation under most operating conditions. If temperatures in the equipment area exceed the maximum design conditions, extra insulation is recommended and is available at customer request as shown in Fig. 1.

If insulation of the cooler and the suction elbow is made by the field, the approximate square footage required may be obtained from Fig. 1.

Insulation of water box covers is made only by the field and this area is not included in Fig. 1. When insulating the covers, allow for service access and removal of covers.

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