

Thermal Units Manufacturing Co.

228 N. LaSalle Street, Chicago, Ill.

30 CHURCH STREET, NEW YORK, N. Y.

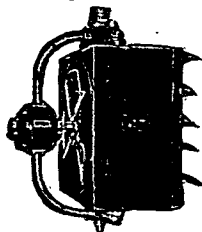


The Thermal Unit System of Space Heating

The line includes unit heaters, blast coils and concealed radiators for a wide range of uses.

Integral Heating Section

The outstanding feature of the Thermal Unit is the one-piece aluminum-alloy casting which includes the steam channel and extended heating surfaces from inlet to outlet as an integral unit. There are no



joints, welds, flanges or soldered connections to open up as the metal expands or contracts. This construction withstands water-hammer and other destructive forces. Even freezing in service cannot damage it. All Thermal Unit castings are tested to 450 lb. hydrostatic pressure before shipment.

Stream-line Core

Airplane-wing design of the steam core cuts down resistance to the passage of air through the channels between the fins, while the smooth surfaces, rounded edges and parallel spacing add yards to the dis-

tance that the heated air is projected. The large size of the core and the high velocity of the air induce rapid steam condensation and rapid release of heat units. Conductivity of heat is rapid with minimum penetration or conduction losses.

The louvers are designed on the airplane principle, assuring unusual efficiency in directing the air currents. They are hinged separately to secure various angles of deflection.

Motor is standard type, enclosed and generously rated, quiet and durable. Fan is four-blade aluminum construction, riveted to axle hub and built for long service.

The assembly is enclosed in a trim, sheet metal cabinet as illustrated. It may be suspended from steam line or installed on wall or ceiling. Brief operating data and dimensions are given below.

Thermal Unit Coolers

for use on Direct Ammonia Expansion, Brine, SO₂ and Menthyl Chloride.

Capacities 1/4th to 10 tons.

"Automatically Defrosted"

The prime cooling surface of Unit Coolers is limited, therefore quick defrosting is necessary.

The Thermal Unit Defrosting equipment controls the suction line—when ice forms on the cooling surface the restriction of the air-flow opens a switch operating the suction line cut-off valve. The fan is constant. The back pressure created defrosts the unit immediately.

"Equipped with Rust-Proof Moisture Eliminators, Cabinets and Fittings"

Thermal Unit "Air-Wringers"

Extract the moisture from the air. For process work—evaporating and dehumidifying. Designed to supply air of any relative humidity desired.

Capacities					
Description	Model 12	Model 16	Model 20	Model 24	Model 30
Air velocity.....ft. min.	1000	2000	3000	4500	6500
Air velocity.....c.f.m.	1000	1165	1200	1200	1200
Motor.....hp.	1/10	1/6	1/6	1/4	1/2
Net weight.....lb.	95	146	189	255	346
Shipping weight.....lb.	116	170	225	310	457

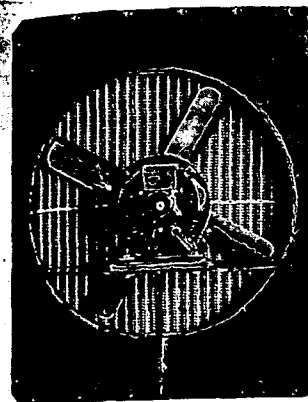
A very comprehensive engineering data book will be sent upon request.

THERMIDAIRE

2441-45 CHARLOTTE STREET

KANSAS CITY, MO.

An E. K. Campbell Product



Lo-Vel

The following ratings are at 60 degrees entering temperature and 5 pounds steam pressure:

LO-VEL TYPE

Unit No.	R.P.M.	C.F.M.	B.T.U.	E.D.R.
4	1750	400	33,100	138
5	1150	500	43,500	174
8	850	800	72,000	288
10	1150	1000	84,000	336
14	1150	1450	117,800	491
15	850	1500	124,800	540
20	1150	2000	168,000	672
24	1150	2450	181,800	756
25	850	2500	210,000	840
30	1150	3000	224,000	896
50	1150	5000	372,000	1550

HI-VEL TYPE

112	1750	3000	240,000	1000
113	1750	4500	360,000	1500
114	1750	6000	480,000	2000
122	1150	8000	600,000	2500
123	1150	12000	804,000	3350

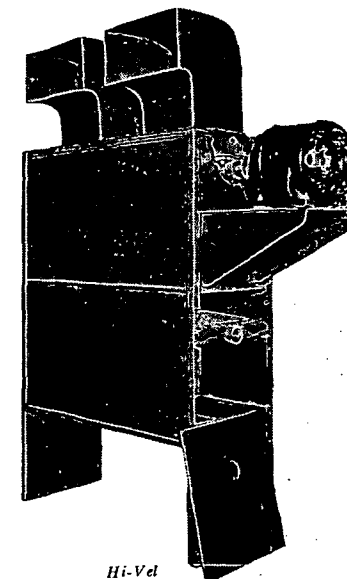
Complete data furnished on request.

Thermidaire Units are made with capacities ranging in size from 138 sq. ft. equivalent direct radiation to 3350 sq. ft., rated at 60 degrees entering temperature and 5 pounds steam pressure.

All units use the Thermidaire high-pressure heating elements, which have been tested to more than 600 pounds hydrostatic pressure, and are guaranteed for 150 pounds steam working pressure.

These elements are built entirely of cold-rolled copper, fused by a special process which makes the element an integral piece. This construction solves all expansion problems and is leak-proof.

These units are backed by a service that makes friends.



Hi-Vel