Worthington Pump and Machinery Corporation

Air Conditioning and Refrigeration Division

General Offices: HARRISON, NEW JERSEY

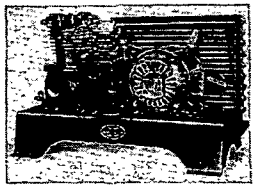
Albany	Buffalo	Detroit	Los Angeles	Providence	Springfield, Mass.
Atlanta	Chicago	El Paso	New Orleans	St. Louis	Syracuse
Baltimore	Cincinnati	Fort Worth	New York	St. Paul	Tulsa
Birmingham	Cleveland	Galveston	Philadelphia	Salt Lake City	Washington, D.C.
Boston	Dallas	Houston	Pittsburgh	San Francisco	Wilmington, Del.
	Denver	Kansas City	Portland, Ore.	Seattle	

Representatives in all Principal Cities CA3-1

REFRIGERATION SYSTEMS FOR AIR CONDITIONING

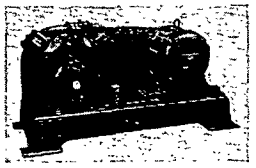
Complete refrigerating systems for use with Freon-11, Freon-12, Methyl Chloride, Ammonia, or Carbon Dioxide, either direct-expansion or water cooling applications. A complete line of refrigeration compressors, permitting impartial recommendations. A nation-wide organization of Distributors in major cities to provide sales and engineering service and plan complete air conditioning systems of the central or unit type. Architects, Engineers, and Contractors are invited to consult with us. Write to Harrison, N. J., or any branch office, for bulletins on these products.

Small Self-contained Units



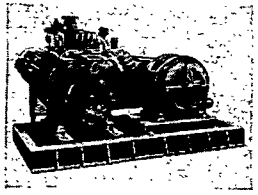
Freon-12 or methyl chloride condensing units; motors ¼ to 2 hp. with air or water-cooled condensers. Used in small air conditioning systems, and in commercial refrigeration. Capacities up to 2 tons.

Medium Self-contained Units



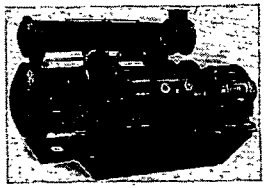
Freon-12 or methyl chloride compressor units for use with "shower" condensers or water-cooled condensers. Features: FEATHER (Pat'd.) Valves; automatic capacity control. Capacities 3 to 30 tons.

Large Self-contained Units



Freon-12 or methyl chloride compressor units for use with "shower" condensers or water-cooled condensers. Features: Worthington FEATHER (Pat'd.) Valves; automatic capacity control. Capacities up to 100 tons.

Centrifugal Refrigeration Water Cooling Systems

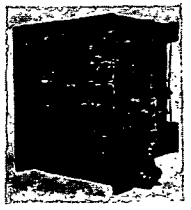


Freon-11 centrifugal compressor, water cooler and water-cooled condenser in compact unit assembly. Electric motor or steam turbine drive. 56 unit sizes . . . 150 to 1200 tons.

Evaporative Type Jacket-Water Cooler

(With By-Pass Section For Automatic Temperature Control.)

Cooling jacket water for diesel and gas engines, air compressors, etc. Ideal for the cooling of quenching oil for tempering steel products. Also for cooling transformer oil to reduce core loss.

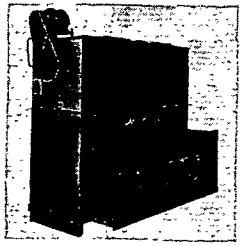


Miscellaneous

High and low side equipment for every purpose.

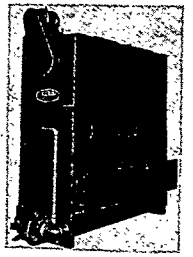
Air Conditioning Units

For Direct Expansion Freon-12 or Chilled Water Circulation



Vertical and horizontal; 500 to 12,000 cfm; large air passages; slow speed, quiet rugged fans; separable sections; readily accessible. The design permits flexibility in installation arrangements.

Shower Condensers



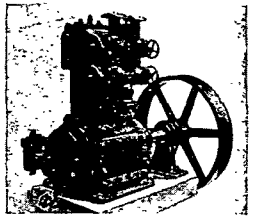
A combined condenser, receiver, and modified cooling tower, in one assembly, for Freon-12 or methyl chloride systems; 2 to 130 tons refrigeration; built in separable sections; all parts easily accessible. Saves 90 to 95 per cent in cost of water.

Horizontal Condensers



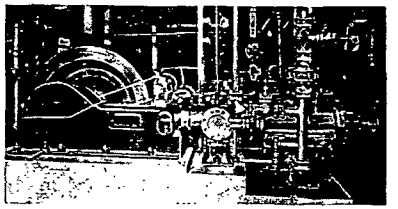
Atmospheric drip type, for warm corrosive waters. Double-pipe for closed systems, can be retubed without shutting down. Multi-pass, as illustrated above, for closed systems and space saving.

Vertical Ammonia Compressors



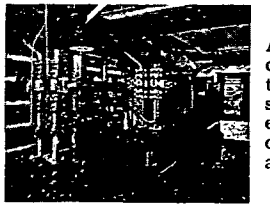
Pressure-lubricated; roller main bearings; safety heads; patented Feather Valves; belt drive, or direct-connected to electric motor, diesel or gas engine; ratings from 2 to 160 tons in one unit.

Horizontal Ammonia Compressors



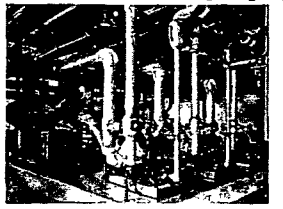
Single and duplex; single-stage and two-stage; belt drive, or direct-connected to electric motor, diesel, gas or steam engine; patented Feather Valves; ratings from 60 to 750 tons. Automatic capacity control features are easily applied. Space requirements vary depending upon type and drive.

Carbon Dioxide Compressors



A series of convenient types and sizes for every requirement is available.

Liquid Cooling Equipment



Various designs of horizontal single and multi-pass types, for a wide range of services; also vertical types. Chillers for oil dewaxing. Single and double-pipe for milk, wort, chemicals, etc. Cold liquid circulating systems.