Ingersoll-Rand Company

11 Broadway, New York City

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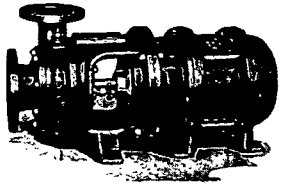
CAMERON PUMPS

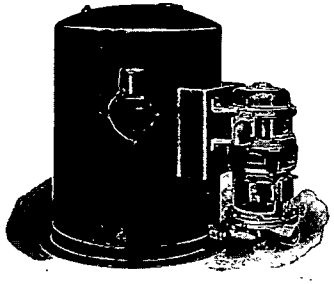


Cameron Motorpump

There is an efficient, reliable Cameron pump for every purpose. Single-stage centrifugal units range from 40 to 100,000 g.p.m., and multi-stage units (2 to 8 stages) range from 125 to 3000 g.p.m. for pressures up to and over 1700 lbs.

The Cameron "Motorpump" is ideal for general service everywhere, ranging in sizes from ¼ to 40 hp. Pumps and motors are built as one compact and efficient unit on a single shaft. They can be mounted in any position on the floor, wall or ceiling. Capacities range from 5 to 1000 g.p.m. for heads as high as 240 ft. single-stage; and from 20 to 275 g.p.m. for heads up to 500 ft. two-stage. Motors for any common current conditions; open, splash-proof, totally-enclosed, or explosion-proof types.

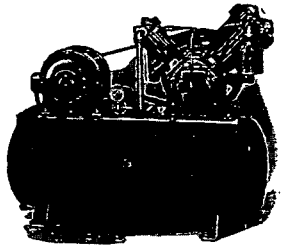
CONDENSATE RETURN UNITS



"Motorpump" Condensate Return Units are designed to return condensation from radiation systems. heaters, steam coils, etc.

The units consist of standard "Motorpumps" mounted on 15-, 30-, or 60-gal. tanks and controlled by a float switch. They are suitable for use in schools, apartment houses, greenhouses, industrial plants, chemical plants, etc. They are often used to replace inefficient steam traps.

AIR COMPRESSORS



Type "30" Two-Stage Compressor

A "Type 30" Air Compressor is an excellent source of compressed air for use with regulating devices or control equipment, and for many other applications requiring small capacities. It is a self-contained plant, consisting of a compressor, driving motor, air receiver and automatic pressure control switch. The compressor is either single- or two-stage, using I-R plate valves. Cylinders and intercooler are air cooled. Capacities range from 1.2 to 82 cu. ft. per min. Pressures range from 5 to 1000 lb. per sq. in.

Ingersoll-Rand manufactures more than 1000 sizes and types of compressors including a complete line of ammonia compressors.

OTHER I-R PRODUCTS

Surface condensers; counter-current and ejector-jet barometric condensers; steam-jet ejectors; vacuum pumps; centrifugal blowers; air aftercoolers and receivers; Diesel and gas engines; air and electric hoists; rock drills; and pneumatic tools of many kinds.

Ingersoll-Rand

WATER-VAPOR REFRIGERATION

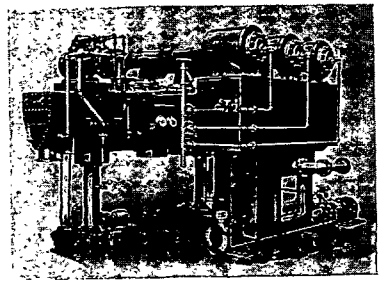
I-R Water-Vapor Refrigeration uses water as the only refrigerating medium. There is no refrigerant to purchase or replace. The system operates entirely under vacuum, and may be opened up for inspection whenever desired.

Water-Vapor Refrigeration gives low operating costs by saving refrigerant replacement and by economical operation at light as well as full loads. Of special value is its unusual ability to handle overloads. Full capacity is retained for the life of the machine.

Two types of units—Steam-Jet Cooler and Centrifugal—permit the selection of the most economical type of equipment to meet widely varying conditions of steam or electric power, cooling water supply and refrigerating requirements.

I-R Units are ordinarily sold through reliable contractors for field installation as a part of air conditioning systems.

STEAM-JET COOLER TYPE

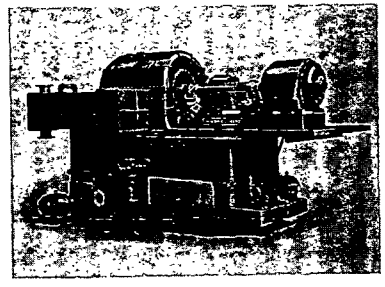


Cooling is effected by direct evaporation of water at high vacuum. Steam-jet boosters maintain the vacuum and discharge the evaporated water vapor into a surface condenser. (When desired, barometric type condenser units can be furnished). The heat carried away by the evaporation of the water vapor chills the main body of water as it is circulated through the unit.

The I-R patented design has been specially developed to insure reliability and simplicity of operation. Steam-Jet Coolers are free from noise and vibration, and are easy to install and maintain.

Standard sizes are available for capacities of approximately 10 tons upward for chilled water temperatures of 35° F. and higher. Units are built for steam pressures of 2 lb. gauge and upward.

CENTRIFUGAL TYPE



The centrifugal water-vapor refrigerating unit likewise cools water by direct evaporation of water at high vacuum. A centrifugal type compressor maintains the vacuum by compressing the water vapor and discharging it into the condenser.

Units can be furnished with electric-motor or highly efficient steam-turbine drivers. Turbines may be either of the low-pressure or high-pressure type, and may be designed for back pressure or for condensing operation.

An important feature is self-regulation; units simply float on the load, giving inherently reduced power consumption with decreasing demand. The capacity is sustained for life due to the elimination of wearing parts.

Standard sizes are available for capacities of approximately 100 tons upward.