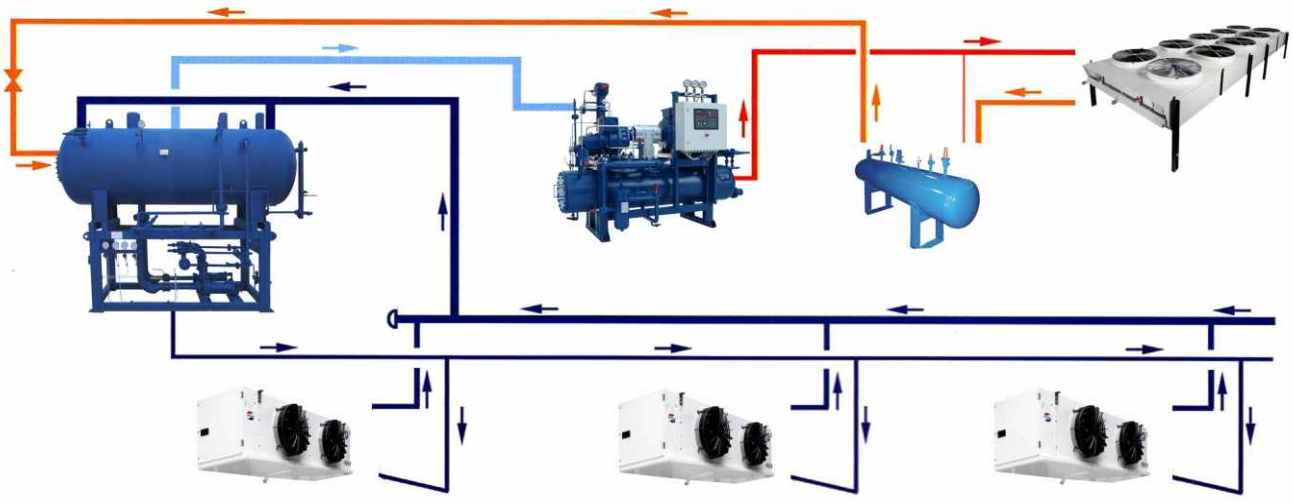
PACKAGED PUMP CIRCULATION STATIONS

COOLTECH FINLAND OY
INDUSTRIAL REFRIGERATION MACHINERY

COOLTECH FINLAND OY designs and manufactures packaged pump stations for refrigerants. These Packaged Pump Circulation Stations are based on the use of ammonia or fluorine-containing refrigerants as the primary refrigerant. Hermetic Pumpen hermetically sealed liquid pumps reduce leak potential as they are designed specifically for pumping saturated liquid with the temperatures down to - 50°C. The pumps provide up to 50 m^3/hour liquid supply and delivery head up to 150 m. Low suction head requirement enables the overall height of the package to be kept to a minimum. These units are factory assembled and tested ready for site positioning and installation.

Purpose

CTRPS Package Pump Stations are generally used for mechanically pumping liquid refrigerant. These packages usually overfeed refrigerant to the evaporator(s) at a not less then 3:1 overfeed ratio. This ensures that all evaporator(s) surfaces are fully wetted for maximum efficiency. The suction seperator ensures that the returning mixture of liquid/vapour from the evaporator(s) separates and then the vapour returns back to the compressor(s). The operating level of liquid refrigerant is maintained by electronic valve.



Applications

- Commercial cold and frozen storage, food storage and freezing;
- Plate freezers;
- Tunnel freezers;
- Process chilling in chemical industry;
- Freezing of different physical environments.

Advantages

- Skid mounted;
- Factory assembled;
- Provides liquid slop over protection for compressors;
- Increased, efficiency of evaporator(s) with fully wetted heat exchanger surface;
- No evaporator is ever starved of refrigerant.

Features

- Fully welded support skid lifting lugs;
- Hermetic-Pumpen hermetically sealed liquid pumps;
- Stainless steel drip trays;
- Horizontal suction separator manufactured; in accordance with existing standards;
- Dual pressure relief valve;
- Level column fitted with visual indication;
- Electronic solid state level controller;
- Factory assembled and fully tested;
- Skid mounted for easy installation on site;
- Pump suction ball valves;
- Pump discharge stop/check valves;
- Commercial cold and frozed storage;
- Individual glycerine filled pump pressure gauge and stop valve;
- Service valves.

Options

- Oil rectifier;
- Fully automatic oil return system;
- Auxiliary 'LL' high level float switch;
- Reserve pupm;
- Choice of reflex/magnetic level gauges;
- H.P. liquid makeup valve station;
- Galvanised frame finish;
- Insulation of the separator and all piping;
- Third party survey available;
- Bespoke pump stations available to suit your; exact application/specification.

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