COOLTECH FINLAND OY
INDUSTRIAL REFRIGERATION MACHINERY

AMMONIA PHE CHILLER PACKAGES

Compact solutions with built-in advantages

A COOLTECH PHE (Plate Heat Exhanger) chiller packages is a compact, all-complete chiller solution, consisting of PHE evaporator and condenser of semi-welded type, screw compressor, oil and liquid separators, electric motor, microprocessor-based control and monitoring, starter panel, etc. All components are integrated on a compact base frame, and the package is supplied fully piped and wired with the following built-in advantages:

- Operates with ozone-friendly refrigerant ammonia which protects your investment from future environmental restrictions;
- High efficiency with small refrigerant volumes;
- Highly efficient screw compressors;
- Minimum temperature differences, pressure losses and high degree of oil separation with general operational effeciency;
- Liquid separation system for efficient separation of even small liquid particles;
- Specially developed oil return system which separartes the oil from the refrigerant and returns it automatically to the compressor;
- Highly resistant plate heat exchanger material (AISI 316 or titanium) makes direct cooling possible;
- No risk of bursting due to freezing.

COOLTECH control for optimum safety and cost-efficiency

All the chiller packages are supplied with COOLTECH microprocessor control and monitoring system, developed especially for COOLTECH compressors. It is equipped with a logic, easy-to-read display which informs you of all essential pressures and temperatures, motor current as well as low and high alarm limits. It features built-in capacity regulation of the compressors and by means of an interface it can be connected to a central computer or PC for remote operation. All operating conditions can be logged centrally and the same applies to quick changing of parametres.

«Tailor-made» for your specific needs

Based on our comprehensive working program and extensive know-how, we are able to «tailor-make» the optimal PHE chiller package for your specific needs. Here are some of the options, we can provide:
●Capacity range from 100 to 15000 kW; ●Brine temperatures from -35°C to +20°C; ●Wide selection of screw compressor types with one or two compressors (DUO PACK series) on the unit; ●Single-stage, two-stage or operation with an economizer; ●Stainless steel or titanium PHEs; ●Water or refrigerant cooled oil coolers; ●Different liquid level regulation systems; ●Armaflex or polyurethane insulation; ●Liquid separators of vertical or horizontal design; ●Approvals from authorities and international classification societies.

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