

FRIGA-BOHN

PEG | NEOSYS

Chilled water production | Chiller



HFC



Chilled water production range for **installation in machine rooms.**



PEG 300 ... 760

||||| 290 - 780 kW

Glycol water -4 °C/-8 °C - Condensing temperature: +45°C

||||| 280 - 690 kW

Glycol water -5 °C/-9 °C - Condensing temperature: +45°C

Description

- # Hot dip galvanized UPN monoblock.
- # 1, 2 or 3 separate refrigerating circuits.
- # Power regulation up to three stages: 100%/75%/50%.
- # Delivery valve per circuit.
- # Vertical liquid receiver per circuit:
liquid stations delivered on separate frame.
- # Multitube heat exchanger (copper bundle tube and steel grille).
- # Electronic expansion valves with controller, probes, sensors and solenoid valve.
- # Screw compressors (HSK or CSH).
- # Screw compressors with plate heat exchanger-economizer
- # Stainless steel condensate tank under compressor
- # Full insulation, heat exchanger and manifold on suction side
- # Electronic expansion valve with complete regulation
- # Pre-wiring box
- # Multitube or plate desuperheater per circuit

Advantages

- # The design of the rack is optimized to facilitate access to the components: compressors, plate heat exchanger, desuperheater, bypass valves, etc.
- # The bypass valves are mounted to isolate the circuit and simplify operations during maintenance work on the receiver, the heat exchanger, etc.
- # A condensate drain pan is available under each compressor as standard to keep the machine room clean.



PEG 170 ... 320

||||| 170 - 320 kW

Glycol water -4 °C/-8 °C - Condensing temperature: +45°C

||||| 180 - 330 kW

Glycol water -5 °C/-9 °C - Condensing temperature: +45°C

Description

- # Hot dip galvanized UPN monoblock.
- # 1 or 2 separate refrigerating circuits.
- # Delivery valve per circuit.
- # Vertical liquid receiver per circuit:
liquid stations delivered on separate frame or fitted.
- # Multitube heat exchanger (copper bundle tube and steel grille).
- # 2 electronic expansion valves with controller, probes, sensors and solenoid valve.
- # Semi-hermetic reciprocating: 3, 4 or 5 compressors.
- # Screw compressors with plate heat exchanger-economizer
- # Full insulation, heat exchanger and manifold on suction side (optional)
- # Electronic expansion valve with complete regulation
- # Liquid receiver fitted
- # Power + control pre-wiring (on request)
- # Complete hydraulic equipment

Advantages

- # The design of the rack is optimized to facilitate access to the components: compressors, plate heat exchanger, desuperheater, bypass valves, etc.
- # The bypass valves are mounted to isolate the circuit and simplify operations during maintenance work on the receiver, the heat exchanger, etc.
- # A condensate drain pan is available under each compressor as standard to keep the machine room clean.

Encased chiller ranges for **outdoor installation.**



PEG ENCASED OUTDOOR

Water system

Glycol water (MEG/MPG) -4 °C/-8 °C and -5 °C/-9 °C

Description

- # Casing made from pre-painted sheet metal with panels that can be removed by turn latches, 6-sided noise insulation with cooling system connected to the rack available on request
- # Galvanized UPN frame with handling rings
- # Multitube heat exchanger with 2 refrigeration circuits
- # Full insulation, heat exchanger and manifold on suction side
- # Liquid subcooler heat exchanger for screw compressor
- # Electronic expansion valve with complete regulation
- # Electrical cabinet fitted
- # Complete hydraulic circuit and equipment (optional)

Advantages

- # Designed for outdoor installation on the ground or on a roof
- # Easy installation, the lifting rings attached to the base of the frame make handling easier
- # These encased units and their noise insulation casing are easy to integrate into an urban environment (on request)
- # Alternative to cramped machine rooms.



NEOSYS

||||| 200 - 1000 kW

Nominal conditions: Water: +2 °C/-2 °C - 20% MEG - Air: +35°C

Chilled water will be produced by a compact air-cooled monoblock liquid chiller for discrete outdoor installation. This range is equipped with scroll compressors using R410A refrigerant and variable speed fans to achieve optimized energy and acoustic performance.

Description and advantages

- # Electrical cabinet with Butterfly™ door: protection of components and service engineers against climatic conditions.
- # Multiple Compliant™ scroll compressors, zero maintenance. Both axial and radial compliance to increase the compressor tolerance to liquid refrigerant and the ingestion of debris for longer life.
- # Technical compartment. Compressors, water heat exchangers, pumps, thermal and noise insulation materials, protected from external climatic conditions and water spray when cleaning the coils.
- # OWLET™ motor fan with ceramic fins for significantly longer fan life.
- # Aluminium microchannel coils with high corrosion resistance. Refrigerant charge reduction (-40%).
- # V-mounted coils with protection grilles. Protection against hail and external impacts.

