

2212013 TECHNICAL MACHINE SHEET

Product: Liquid Chiller GEA Grasso FX 2800 / S – 2 x 2800 kW
Product number: 2212013
Manufacturer: GEA Grasso GmbH
Manufacturer's type: Grasso FX VP 2008 / S
Manufacturing year: 2002
Cooling capacity: 2800 kW / unit
Status: Installed
Condition: Very good

Pictures:



JADE Machine Description:

Two GEA Grasso FX PV 2800 S – screw type liquid chiller compressors were installed in 2003 (made in 2002) and they still installed and in very good working condition. The compressors have flooded evaporation, plate type evaporator and evaporative condenser cooler. type They have been operated only 15 000 hours, their cooling capacity is 2800 kW/unit. Refrigerant is R717 (NH₃)

The delivery includes complete system with compressor package, evaporators, pumps, intermediate NH₃ tanks, evaporative condenser and control cabinets.

The screw compressor sucks NH₃ gas out of the liquid separator and compresses it up to condensation pressure. The refrigerant turns to liquid as it is cooled in the condenser. The liquid NH₃ is injected back to the liquid separator via a high pressure float valve as expansion device. Inside the liquid separator liquid form and gas for are separated. The liquid NH₃ passes in a gravity driven circuit to the evaporator. During the evaporation into gaseous form (with heat energy delivered by the secondary refrigerant) it evaporates and a mixture of gas and liquid is coming back to the liquid separator. Oil is injected into the working chamber of the screw compressor during operation and it is then separated again from the refrigerant in the discharge side oil separator. The oil which has heated up in the compressor is cooled in an oil cooler to reach the entry temperature and passes a fine filter.

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This liquid chiller is equipped with a freely programmable standard logic controller PLC SIMATIC C7-633. All operating and fault signals as well as the process variables can be read from a LCD display with background lighting. The display is operated via a robust foil keyboard having 6 functions and 24 system keys.

Technical data:

Manufacturer:	GEA Grasso GmbH
Manufacturing year:	2002
Number of units:	2 complete units
Type:	Grasso FX VP 2008 / S
Cooling capacity:	2800 kW / unit
Electric motor:	Schorch 560 kW / 2988 rpm / 50 Hz
Refrigerant:	R 717 (Ammonia)
Evaporator:	Alfa-Laval M20-MWFRC
Evaporative condenser:	BAC XX
Compressor package EW:	13250 kg

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