



## ■ THERMO CHILLER S20 +5/+40°C HRSH090

### STEROGLOSS STRUMENTI

5996



The HRSH090 thermochiller is designed to meet the thermostating needs of medium-sized instrumentation, its optimal use is in conjunction with rotary evaporators and reactor or distillation coolers.

The HRSH090 thermo-chiller is therefore the optimal choice in combination with a Strike 20 or a Pilot Reactor Steroglass.

The use of a Thermo-chiller will guarantee you not only reliability and precision, but also safety.

- Thanks to the presence of the three inverters which respectively control the number of rotations of the compressor, fan and pump motor, electrical consumption is reduced by up to 53%.

- The HRSH series accurately monitors and controls the cooling system, so you can take care of something else.

- Use a smart solution that will give you proactive control. Predict any changes via remote control and manage anomalies and problems in the cooling system.

- Improve the performance and reliability of your machine with superior temperature stability.

Through the simultaneous control of the compressor and the fan of the DC inverter, and of the electronic expansion valve, a temperature stability of  $\pm 0.1$  ° C is maintained even when the thermal load fluctuates significantly.

#### PRACTICAL FUNCTIONS

- Timer function
- Unit conversion function
- Automatic restart function for power failure
- Anti-freeze function
- Key lock function
- Signal emission to complete the preparation
- Independent operation of the pump
- Self-diagnosis function
- Serial communication ports (RS232C / RS485) and contact I / O (2 inputs and 3 outputs) supplied as standard

#### EXAMPLES OF APPLICATION

- Solvent condensation in Strike 20 rotary evaporators
- Vapor condensation in Pilot Reactor
- Steam condensation in distillation equipment
- Laser processing machines
- Laser welding machines
- Laser cutting machines
- Cleaning machines
- Printing machines
- Injection molding
- Arc welding machines
- Resistance welding machine (spot welding)
- High frequency induction heating equipment
- Cooling water available anytime, anywhere

#### TECHNICAL FEATURES

Cooling method: Air cooling

Refrigerant: R410A (HFC)

Refrigerant charge: 1.32 Kg

Control system: PID control

Ambient temperature / humidity / altitude: Temperature: 5 to 45 ° C

Circulating fluid system:

Circulating fluid: Tap water, 15% ethylene glycol aqueous solution, deionized water

Operating temperature range: 5 to 40 ° C

Cooling capacity (50/60 Hz): KW 9,5

Heating capacity (50/60 Hz): KW 2,5

Temperature stability:  $\pm 0.1$  ° C

Pump:

Nominal flow rate (50/60 Hz): 45 l / min (0.5 MPa)

Maximum flow rate (50/60 Hz): 60 l / min

Maximum lifting height (50/60 Hz): 50 m

Adjustable pressure range: 0.1 - 0.5 MPa

Maximum operating flow: 20 l / min

Tank capacity: L 18

Circulating fluid inlet and outlet port: G 1

Tank drain connection: G 1/4

Material in contact with the fluid:

Metal Stainless steel, copper (heat exchanger brazing), brass (pump, Y-filter), carbon, SiC

Resin PE, PVC, POM, PTFE, NBR, EPDM, FKM  
Electric system:  
Power supply: Three-phase 380 to 415 V AC (50/60 Hz)  
Permissible voltage range:  $\pm 10\%$  (Without DC voltage fluctuation)  
Leakage switch applicable ground:  
Rated current: [A] 20  
Sensitivity of leakage current: [mA] 30  
Rated operating current: [A] 8  
Electric absorption: [kW (kVA)] 5.0 (5.6)  
Noise level (front 1 m / height 1 m): [dB (A)] 66  
Dimensions (LxWxH): mm 377x970x1080  
Weight: kg 130

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Codice	Codice	Description
Steroglass Fornitore		
SQFW087364		THERMO CHILLER S20 +5/+40°C HRSH090-AF-40