

SC5000w SemiChill Compact Recirculating Cooler

5 models for industrial applications, up to 10 kW cooling capacity, customizable

Recirculating Cooler for industrial applications (basic model, additional options for specific requirements available). The SemiChill series offers powerful recirculating coolers. These units have been especially designed for applications in the semiconductor industry. Five models are available, with cooling capacities from 2.5 to 10 kW (air- or water-cooled). Working temperature ranges from +5 to +35 °C which can optionally be extended from -20 to +130 °C. Also available is a selection of powerful pumps. The units can be modified to provide heater capacities up to 5 kW. Selection between different electronic modules to conform to simple or high demands such as, for example flow rate and conductivity measurement, external temperature control or integration of the coolers via analogue signals, RS232, devicenet or ethernet. A large range of accessories and options including DI filters, microfilters, USB adapters, etc. is available.



Your advantages

- For the most demanding applications
- Space-saving, no lateral ventilation
- Handles and castor make relocation easy
- Industrial grade mains power switch and emergency cut-off
- Pressure gauge
- Liquid level indicator
- Front filling port
- Low noise level
- PID temperature control
- ATC3 3-point calibration
- Early warning system for low liquid level
- Warning and safety functions
- Modular design allows selection between different options
- Water cooled model

Technical Data

Order No.	9500051XXP3H0		
Model series	SemiChill		
Category	Recirculating Coolers		
Working temperature range (°C)	-5 ... +35 Standard -20 ... +130 Option		
Temperature stability (°C)	0.1		
Setting / display resolution	0.1 °C		
Integrated programmer	1x10 steps		
Temperature Display	LED Option		
Heating capacity (kW)	12 Option		
Cooling capacity (Medium Ethanol)	°C	20	0 -10
	kW	5	2.5 1.2

Pump capacity flow rate (l/min)	33
Pump capacity flow pressure (psi)	50.8 Standard 62.4 Option
Pump connections	NPT 3/4"
Barbed fittings diameter (inner dia. / mm)	3/4"
Filling volume liters	43 ... 60
Refrigerant	R404A
External Pt100 sensor connection	integrated
Digital interface	RS232, Optional Profibus
Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	23.2 x 26.4 x 44.1
Weight (LBS)	337
Classification according to DIN12876-1	Classification III (FL)according to DIN 12876-1
Cooling of compressor	Water
Power requirement V / Hz / A	3x 230/60/19
Available voltage versions	400 V / 3 Ph. / 50 Hz 208-230 V / 60 Hz

Characteristics

Display



Easy to read

Large LED temperature display for actual value and setpoint (resolution 0.1 °C)



A perfect view

Ample, easy to read VFD Comfort display for simultaneous display of 3 values, warning functions, high temperature cut-off, pump stages (resolution 0.01 °C)



Pump stage and liquid level

Backlit indicator for selected pump stages and filling volume on Presto® PLUS, Magnum 91 & Forte HT



Highest measuring accuracy

'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



Serial connection

RS232 interface for PC connection, e.g. for data communication and recording of measured values



Easy program control

Integrated programmer for the execution of time and temperature dependant profiles, 1 temperature profile with 10 steps max., with real time clock



Automatic control of operating time

Electronic countdown-timer function for timer-programmed unit shut-down, standby mode after programmed time expires

Refrigeration Technology



Consistent cooling capacity

Easily removable venting grid for quick and easy cleaning



100 % Cooling capacity

'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures

Operation



Time saving

Comfortable and simple operation for setpoint adjustment

Technical Features



Clever pump system

Reliable and consistent pump capacity, electronically adjustable pump stages



Control from the external application

External Pt100 sensor connection for precise measurement and control directly in the external application

Warning & Safety Functions



Early warning system for low liquid level

Maximum safety for applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down



Early warning system for high/low temperature limits

Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function

Temperature Control



Precise

PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2$ °C



Enhanced protective functions

Maximum safety, adjustable high temperature cut-off or dry-running protection, additional display of setpoints permits easy and precise adjustments



For flammable bath fluids

Classification III (FL) according to DIN 12876-1

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