

SC2500w 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.



Made
in Germany

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.	9500026XXP3H0
Model series	SemiChill
Category	Recirculating Coolers
Working temperature range (°C)	+5 ... +35 Standard -20 ... +80 Option
Temperature stability (°C)	±0.1
Setting / display resolution	0.1 °C
Integrated programmer	1x10 steps
Temperature Display	LED Option
Heating capacity (kW)	Option
Cooling capacity (Medium Ethanol)	°C 20 0 -10


	kW	2.5	1.5	0.9
Pump capacity flow rate (l/min)		33		
Pump capacity flow pressure (psi)		50.8		
Pump connections		NPT 3/4"		
Barbed fittings diameter (inner dia. / mm)		3/4"		
Filling volume liters		21 ... 33		
Refrigerant		R404A		
External Pt100 sensor connection		integrated		
Digital interface		RS232 Optional: Profibus		
Ambient temperature		5...40 °C		
Dimensions W x L x H (inch)		19.3 x 24.4 x 41.3		
Weight (LBS)		271		
Classification according to DIN12876-1		Classification III (FL)		
Cooling of compressor		Water		
Power requirement V / Hz / A		230/60/10		
Available voltage versions		230 V / 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

Operation


 **Time saving**
Comfortable and simple operation for setpoint adjustment


Temperature Control

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


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


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


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

 **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

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



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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