



SC2500a  
SC2500w

### Applications

- Semiconductor industry:
  - Etching tools
  - Stainless steel chucks
  - PVD
  - Sputtering
  - Wet benches
- Packaging industry
- Plastic industry
- Dosing and gluing techniques
- Jacketed reaction vessels
- Kilo labs, pilot plants

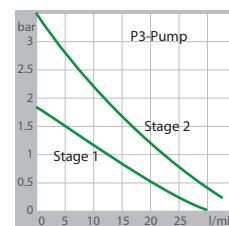
## Recirculating Coolers SemiChill Series

for demanding industrial applications, for example in the semiconductor industry

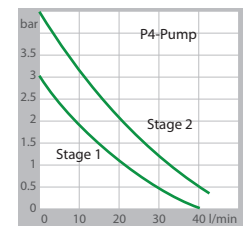
SemiChill recirculating coolers prove to be extremely reliable during continuous operation and under rough environmental conditions. All wetted parts are made of stainless steel or high grade plastic. The modular concept allows for customized configuration according to your requirements.

- 5 models for individual customization
- High cooling and pump capacities
- Optional integrated heater with a heating capacity up to 12 kW
- Gasket-free immersion pumps, maintenance free and electronically adjustable
- Pressure and filling level indicators
- Sealed filling port (70 mm dia.)
- Overload protection for pump motor and compressor

**Pump capacity P3**  
Bath fluid: water



**Pump capacity P4**  
Bath fluid: water





JULABO Order No.	JULABO Model	Working <sup>1)</sup> temperature range °C	Temp. stab. °C	Cooling capacity kW			Pump type / Pump capacity	Filling volume liters	Dimensions W x L x H cm
				20	0	-10 °C			
	<b>SC2500a</b>	-20 ... 80	±0.1	2.5	1.5	0.9		21 ... 33	49 x 62 x 105
see	<b>SC2500w</b>	-20 ... 80	±0.1	2.5	1.5	0.9	see	21 ... 33	49 x 62 x 105
order information	<b>SC5000a</b>	-20 ... 130	±0.1	5.0	2.5	1.2	order information	43 ... 60	59 x 67 x 112
on following pages	<b>SC5000w</b>	-20 ... 130	±0.1	5.0	2.5	1.2	on following pages	43 ... 60	59 x 67 x 112
	<b>SC10000w</b>	-20 ... 130	±0.1	10.0	5.0	2.5		43 ... 60	59 x 67 x 112

Models designated ,a' = ventilation air cooling; ,w' = water cooling

Pump connections: NPT 3/4" male

<sup>1)</sup> Maximum working temperature range (Working temperature range, Standard: 5 ... 35 °C)

# Configuration Options

Keypad and control electronics	Eco	Professional
<b>Optional features</b>		
MULTI-DISPLAY (LED) temperature indication	•	
VFD Comfort-Display with simultaneous indication of 3 values		•
Keypad, splash-proof	•	•
PID temperature control	•	•
3-point calibration	•	•
Pump capacity adjustable in stages	•	•
RS232 interface	•	•
'Stakei' connections for power supply (e.g. for shut-off valve)	•	•
Early warning system for low level, high and low temperature limits	•	•
High temperature cut-off adjustable via display	•	•
Low liquid level protection with cut-off function	•	•
Classification III (DIN 12876-1)	•	•
Online diagnosis via integrated Black Box	•	•
Connector for external Pt100 sensor for measuring and controlling the external system		•
Integrated programmer with real time clock for 1x10 program steps		•
Quantitative resistivity measurement and display, range 0.5...5 MΩ/cm		•
Flow measurement and status display (factory pre-set limit value)		•
<b>Options for <i>Professional</i> electronics</b>		
Scalable analog interfaces (standby input, 2 x alarm output)	--	Option
RS485 Interface	--	Option

## Further options for working temperature, pump capacity and heaters

Type	Working temperature ranges				Circulating pumps		Heaters			
	Standard 5...35 °C	Low Temp -20...35 °C	Low/High Temp I -20...80 °C	Low/High Temp II -20...130 °C	P3 33 l/min 3.5 bar	P4 43 l/min 4.3 bar	H0 no Heater	H1 1 kW	H5 5 kW	H12 12 kW
SC2500a SC2500w	✓	Option	Option	--	✓	--	✓	Option	--	--
SC5000a, SC5000w SC10000w	✓	Option	Option	Option	✓	Option <sup>1)</sup>	✓	--	Option	Option

✓ This feature is included in base model      1) Cooling capacity reduces by 0.2 kW

### Filter housings

Please specify filter option when placing an order. Filter housings cannot be retrofitted. Housings are mounted on the right side.

- D1** DI-filter housing, plastic (to 35 °C), incl. cartridge
- D2** DI-filter housing, stainless steel (to 90 °C), incl. cartridge
- M1** Micro-filter housing, plastic (to 35 °C), w/o cartridge
- M2** Micro-filter housing, stainless steel (to 130 °C), w/o cartridge

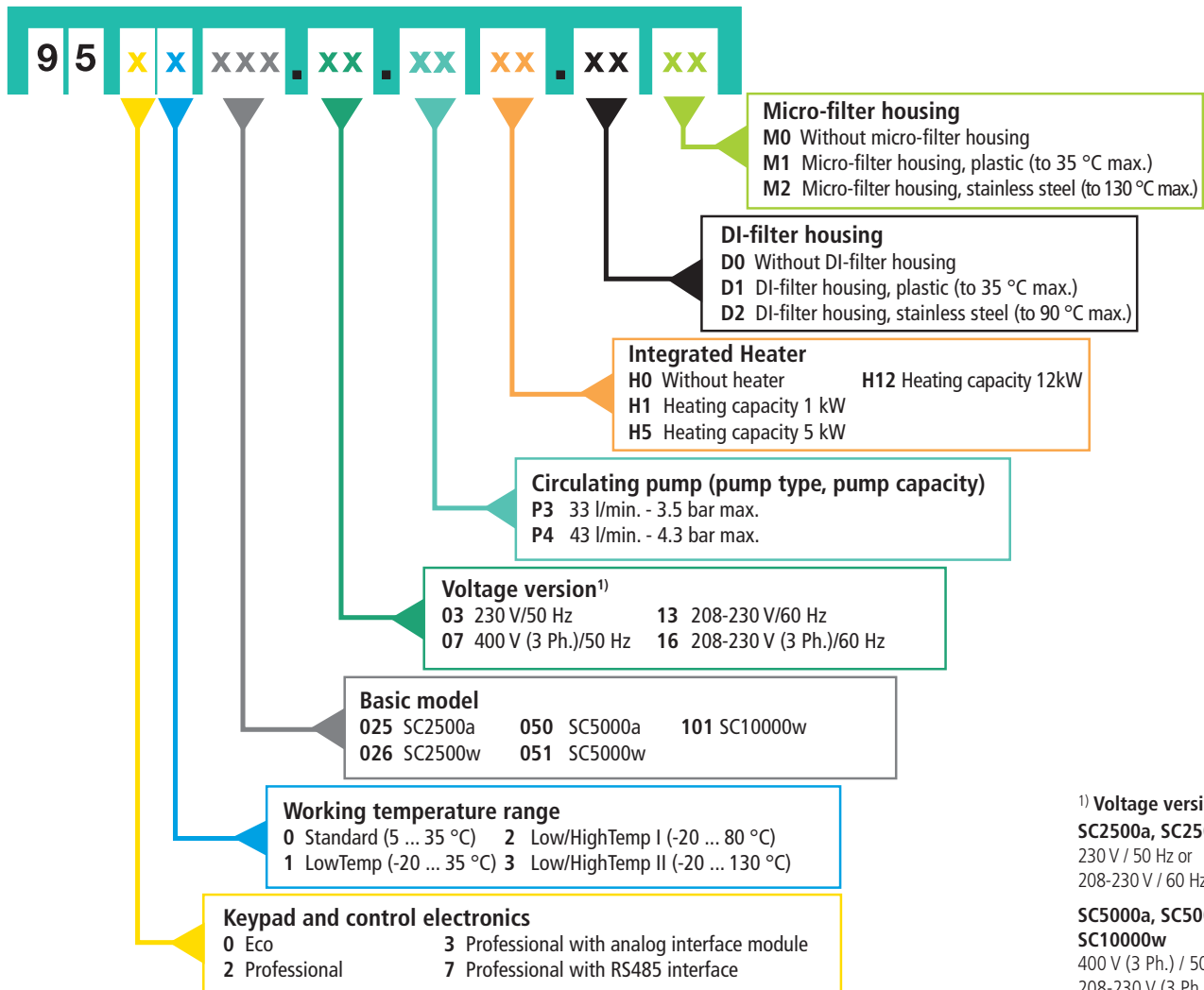
Filter housings for DI-filter and micro-filter (optional)





### Order Information

Combine one of the five base models with the options of your choice. Please use the following order information to create your order number. Example for model SC5000a: 9 5 2 1 050 07 P3 H0 D0 M1



<sup>1)</sup> Voltage version  
**SC2500a, SC2500w**  
 230 V / 50 Hz or  
 208-230 V / 60 Hz  
**SC5000a, SC5000w,**  
**SC10000w**  
 400 V (3 Ph.) / 50 Hz or  
 208-230 V (3 Ph.) / 60 Hz