

RECIRCULATING COOLER AND CHILLER

FC | SemiChill



Product brochure
online at
www.julabo.us

SemiChill recirculating cooler for industrial applications

The SemiChill series offers powerful recirculating coolers for applications specifically in the semiconductor industry. Five models with cooling capacities from 2.5 to 10 kW (air- and water-cooled) are available. The working temperature range extends from +5 °C to +35 °C (optionally from -20 °C to +130 °C). Different pumps and electronic modules can be selected. Requirements ranging from simple to sophisticated can be covered, such as flow rate and conductivity measurements, external control or integration via analog signal, RS232 or EtherNet. The program is completed with accessories and options, such as DI filter, micro filter, USB adapter, etc.

- Five basic models, individually configurable
- High cooling capacity and powerful circulating pumps
- Optional with integrated heater with a heating capacity of up to 12 kW
- Gasket-free immersion pumps, maintenance-free and electronically adjustable
- Feed pressure indicator and level indicator
- Sealed filling port (Ø 70 mm)
- Overload protection for pump motor and refrigeration unit



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

Custom instrument configuration

- > Control electronics
- > Pump capacity
- > Working temperature
- > Interfaces
- > Heating capacity
- > Filter housings

Configure your perfect instrument.
It would be our pleasure to advise you.



FC recirculating cooler with integrated heating.

- Extended working temperatures up to +80 °C
- Ratio of feed/return temperature adjustable
- Level indicator

Models FC1200T, FC1600T, FCW2500T

- External Pt100 sensor connection
- Analog connections for external programming and temperature recorder



Recirculating coolers and chillers – technical data

Model	Order No.	Working temperature range °C	Temp. stability °C	Cooling capacity (kW) at bath temperature in °C			Pump capacity		Cooling of refrigerant unit	Filling volume liters	Dimensions W x D x H in
				+20	0	-20	Pressure psi	Flow rate l/min			

SemiChill Recirculating Coolers

SC2500a ^{1*}	9500025XXP3H0D0M0	+5 ... +35	±0.1	2.5	1.5	-	50.8	33	Air	21 ... 33	19.3 x 24.4 x 41.3
SC2500w ^{1*}	9500026XXP3H0D0M0	+5 ... +35	±0.1	2.5	1.5	-	50.8	33	Water	21 ... 33	19.3 x 24.4 x 41.3
SC5000a ^{2,3*}	9500050XXP3H0D0M0	+5 ... +35	±0.1	5.0	2.5	-	50.8	33	Air	43 ... 60	23.2 x 26.4 x 44.1
SC5000w ^{2,3*}	9500051XXP3H0D0M0	+5 ... +35	±0.1	5.0	2.5	-	50.8	33	Water	43 ... 60	23.2 x 26.4 x 44.1
SC10000w ^{2,3*}	9500101XXP3H0D0M0	+5 ... +35	±0.1	10.0	5.0	-	50.8	33	Water	43 ... 60	23.2 x 26.4 x 44.1

FC Recirculating Coolers

FC600	9 600 060	-20 ... +80	±0.2	0.6	0.33	-	7.3	20	Air	6 ... 8	13.8 x 21.3 x 19.3
FC600S	9 600 063	-10 ... +80	±0.2	0.5	0.22	-	17.4	22	Air	6 ... 8	13.8 x 21.3 x 19.3
FC1600	9 600 160	-20 ... +80	±0.2	1.65	0.8	-	7.3	20	Air	8 ... 11	18.1 x 24 x 19.3
FC1600S	9 600 163	-15 ... +80	±0.2	1.55	0.65	-	17.4	22	Air	8 ... 11	18.1 x 24 x 19.3
FC1600T	9 600 166	-15 ... +80	±0.2	1.45	0.5	-	50.8	28	Air	8 ... 11	18.1 x 24 x 19.3
FCW600	9 601 060	-20 ... +80	±0.2	0.6	0.33	-	7.3	20	Water	6 ... 8	13.8 x 21.3 x 19.3
FCW600S	9 601 063	-10 ... +80	±0.2	0.5	0.22	-	17.4	22	Water	6 ... 8	13.8 x 21.3 x 19.3
FCW2500T	9 601 256	-25 ... +80	±0.2	2.5	2	0.25	50.8	28	Water	8 ... 11	18.1 x 24 x 19.3

¹⁾ with option H1: current consumption = plus 5 A ²⁾ with option H5: current consumption = plus 7 A ³⁾ with option H12: current consumption = plus 11 A

*¹⁾ with integrated heater: heating capacity H1 = 1 kW, H5 = 5 kW, H12 = 12 kW