

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
- No side vents, instruments can be placed right next to other equipment
- Handles and castor make relocation easy
- · Industrial grade mains power switch and emergency cut-off
- Pressure Indicator
- Front filling port
- Low noise level
- Precise PID temperature control
- ATC3 3-Point-Calibration
- Warning and safety functions
- Modular design allows selection between different options

Technical data

Ambient temperature °C

Available voltage versions			Bath		
Order No.	9 5XX 025		Bath tank	Stainless steel	
Available voltage versions:					
9 5XX 025.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)				
9 5XX 025.07	400V/3PNPE/50Hz (Plug 32A CEE)				
9 5XX 025.13	208-230V/60Hz (Nema N6-20 Plug)				
Cooling			Other		
Cooling of compre	essor	1-stage Air	Sound pressure level dbA	65	
			Classification	Classification III (FL)	
			IP Code	IP 21	
			Pump type	Immersion Pump	
Electronics			Dimensions and volumes		
Temperature setting		Keypad	Weight kg	120	
			Barbed fittings inner diameter	3⁄4"	
			Dimensions cm ($W \times L \times H$)	49 x 62 x 105	
			Filling volume I	21 33	
			Pump connections	NTP¾" male	
Temperature v	alues				
Working temperat	ure range °C	-20 +80			
Temperature stab	ility °C	±0.1			

5 ... 40



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Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz				
Heating capacity depends on options			1	
Coolin	Cooling capacity (Ethanol)			
°C	20	0	-10	
kW	2.5	1.5	0.9	
•	Pump capacity flow rate depends on options			1
Pump capacity flow pressure depends on options			1	
Viscosity max. cST			30	
Refrigerant			R452A	
Filling volume g			1050	
Global Warming Potential for R452A			2140	
Carbon dioxide equivalent t			2.247	

400V/3PNPE/50Hz (Plug 32A CEE)

400V/3PNPE/50Hz					
Heating capacity depends on options 1				1	
Coolin	Cooling capacity (Ethanol)				
°C	20	0	-10		
kW	2.5	1.5	0.9		
Pump capacity flow rate depends on options				1	
Pump capacity flow pressure depends on options			1		
Viscosity max. cST			30		
Refrigerant			R452A		
Filling volume g			1050		
Global Warming Potential for R452A			2140		
Carbon dioxide equivalent t			2.247		

208-230V/60Hz (Nema N6-20 Plug)

208V/60Hz		230V/60Hz		
Heating capacity depends on options 1		Heating capacity depends on options 1		
Cooling capacity (Ethanol)		Cooling capacity (Ethanol)		
°C 20 0 -10		°C 20 0 -10		
kW 2.5 1.5 0.9		kW 2.5 1.5 0.9		
Pump capacity flow rate depends on options	1	Pump capacity flow rate depends on 1 options		
Pump capacity flow pressure depends on options	1	Pump capacity flow pressure depends on 1 options		
Viscosity max. cST	30	Viscosity max. cST 30		
Refrigerant	R452A	Refrigerant R452A		
Filling volume g	1050	Filling volume g 1050		



Global Warming Potential for R452A	2140	Global Warming Potential for R452A	2140
Carbon dioxide equivalent t	2.247	Carbon dioxide equivalent t	2.247

All Benefits



range, fast cool-down even at higher

Intelligent temperature control. Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05

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



Early warning system for high/low temperature limits Maximum safety for applications, optical and audible alarm, convertible to automated cut-off



For flammable bath fluid Classification III (FL) according to DIN 12876-1



Services 24/7.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



100% Checked.

100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Green technology. Development consistently applied environmentally friendly materials and technologies.



Process. Under control.

Full regulation of the dynamics control, access to all important control parameters for individual process optimization.



For higher demands

PID Temperature control with drift compensation and adjustable parameters, improved temperature stability for external applications, temperature stability ±0.01 °C internal, <±0.1 °C external.



ATC3. Calibration.

'Absolute Temperature Calibration' for compensating a physically caused temperature difference, 3-point calibration.



Connection of additional equipment Stakei connections for solenoid valve, HSP booster pump and HST booster heater

Precise

PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 PID1 °C



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.

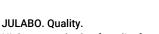
Satisfied customers.

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.

Made in

German

Highest standards of quality for a long product life.







Clever pump system Reliable and consistent pump capacity, electronically adjustable pump stages