

PRODUCT PORTFOLIO

JULABO Products from -95 °C ... +400 °C







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THE RIGHT PRODUCT FOR EVERY APPLI



REFRIGERATED AND HEATING CIRCULATORS

CORIO, DYNEO, HighTech/MAGIO

Refrigerated and heating circulators made by JULABO are used worldwide. Whether in research, material testing or technical systems, users in industries worldwide rely on the tried and tested technology. Focused on your requirements, JULABO circulators have set the benchmark for temperature control technology for decades. The JULABO range of circulators offers the functional solution for your day-to-day work, whether routine task or highest requirement: CORIO, DYNEO and HighTech/MAGIO — three model series for every requirement and every budget.





HIGHLY DYNAMIC TEMPERATURE CONTROL SYSTEMS

PRESTO, FORTE HT

Highly dynamic temperature control systems solve even difficult temperature control tasks within no time. With their extremely short heat-up and cool-down times, a wide range of working temperatures without changing the bath fluid, and high output data, they are ideal for compensating temperature differences in external applications extremely quickly. Unlike conventional circulators, the bath fluid can be used in an extended temperature range and for a significantly longer time.





RECIRCULATING COOLERS AND CHILLERS

F, FL, FC Series, SemiChiller

JULABO recirculating coolers can handle virtually any cooling requirements in laboratories or industrial environments. Their efficiency makes them an environmentally-friendly and economical alternative to cooling with tap water.

Compact models from JULABO are ideal for placement on or underneath a lab bench. JULABO offers several powerful models with up to 20 kW of cooling capacity for applications in industrial environments.





CATION

WATER BATHS AND SHAKING WATER BATHS

PURA, SW



JULABO offers the water baths and shaking water baths for routine applications, such as temperature applications for samples, incubation, material testing, corrosion tests, as well as temperature control applications of cultivations or temperature tests for food and beverages. All models are durable and of high quality. Their working temperature ranges from +18 °C to +99.9 °C qualify them for a wide range of applications.



INSTRUMENTS FOR SPECIAL REQUIREMENTS

Calibration baths, forcing test circulators, immersion coolers, flow-through coolers, laboratory temperature controllers, refrigerators for chemicals, wireless communication & software



With a temperature stability of ±0.005 °C, calibration baths are suited for the calibration of measuring instruments, thermometers etc. The forcing test circulator specializes in determining the shelf life of beer. Immersion and flow-through coolers are the ideal add-on for quick cool-down of heating circulators and water baths. Temperature controllers are used for measuring, controlling, and monitoring electrically-heated equipment in laboratories. Refrigerators for chemicals are used to store and cool hazardous substances.



REFRIGERATED CIRCULATORS

CORIO

The CORIO series is the gateway to professional temperature control, with future-oriented technology that makes high demands on accuracy, economy, and handling. The CORIO program offers different models for daily work and routine tasks in the lab.

Powerful.

- For internal and/or external applications
- Models for working temperatures from -40 $^{\circ}$ C to +200 $^{\circ}$ C
- Very quiet operation
- All models feature user-friendly, intuitive operation
- Bright displays, easy to read even from a distance
- State-of-the-art control technology for quick results and precision
- USB interface
- RS232 (CORIO CP)
- Refrigeration units without side vents
- Built-in drain tap for easy and safe drainage
- Optimized cooling coil design provides more space in the bath







CORIO comes with various modes for the refrigeration unit: permanently on, permanently off, or automatic on as refrigeration is needed. CORIO CD-600F to CORIO CD-1001F as well as CORIO CP-600F to CORIO CP-1001F are additionally equipped with automatic adjustment of the cooling capacity at the operating point to minimize power consumption and heat waste.

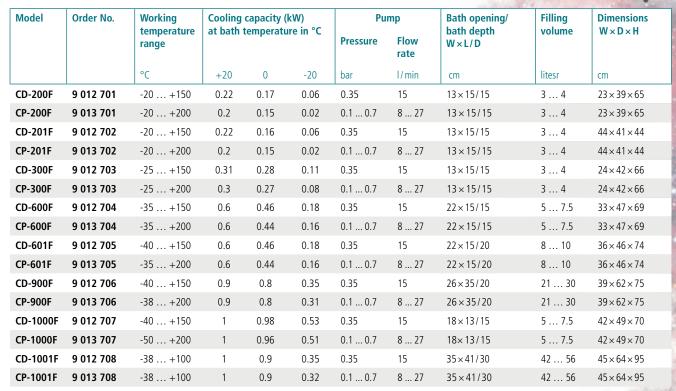
Maintenance. Friendly.

The magnetic front grid can be removed easily for user-friendly cleaning and maintenance. No tools are needed.



CORIO refrigerated circulators – technical data

The refrigerated circulators of the CORIO series provide a heating capacity of 2 kW as well as a temperature stability of $\pm 0.03~^{\circ}\text{C}.$









REFRIGERATED CIRCULATORS

DYNEO

Refrigerated circulators of the DYNEO series distinguish themselves with a great price-performance ratio. The instruments provide high heating/cooling capacities for short heat-up and cool-down times. The refrigerated circulators work precisely and reliably even at higher ambient temperatures up to +40 °C.

Powerful.

- For internal and/or external applications
- Models for working temperatures from -50 $^{\circ}$ C to +200 $^{\circ}$ C
- Models suitable for internal and external applications
- Optimized cooling coil design for more space in the bath
- Continuously adjustable, powerful pressure pump
- Flow rate 27 I/min, supply pressure 0.7 bar
- Easy switch between internal and external circulation
- Large color TFT display, multi-lingual user interface
- Ease of use via central rotary knob
- Integrated programmer
- External Pt100 sensor connection
- USB interface
- RS232 interface or analog interfaces (optional)
- Built-in drain tap for easy and safe drainage





DYNEO. Intelligent, simple control.

The rotary knob of the DYNEO series provides for simple, modern control options. The entire menu, all functions and settings are controlled directly via the central rotary knob on the front of the circulator.





DYNEO refrigerated circulators – technical data

The refrigerated circulators of the DYNEO series provide a heating capacity of 2 kW as well as a temperature stability of $\pm 0.01\,^{\circ}\text{C}.$

Model	Order No.	Working temperature		capacity (l emperatu		Pu	ımp	Usable bath opening	Filling volume	Dimensions W×L×H
		range				Pressure	Flow rate	W×L/D		
		°C	+20	0	-20	bar	I/min	cm	liters	cm
		_						<u> </u>		
DD-200F	9 021 701	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	23×39×65
DD-200F	9 021 701.D	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	23×39×65
DD-200F	9 021 701.A	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	23×39×65
DD-201F	9 021 702	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	$44 \times 41 \times 44$
DD-201F	9 021 702.D	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	$44 \times 41 \times 44$
DD-201F	9 021 702.A	-20 +200	0.2	0.15	0.02	0.1 0.7	8 27	13×15/15	3 4	$44 \times 41 \times 44$
DD-300F	9 021 703	-25 +200	0.3	0.27	0.08	0.1 0.7	8 27	13×15/15	3 4	$24 \times 42 \times 66$
DD-300F	9 021 703.D	-25 +200	0.3	0.27	0.08	0.1 0.7	8 27	13×15/15	3 4	24 × 42 × 66
DD-300F	9 021 703.A	-25 +200	0.3	0.27	0.08	0.1 0.7	8 27	13×15/15	3 4	24 × 42 × 66
DD-600F	9 021 704	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×15/15	5 7.5	33×47×69
DD-600F	9 021 704.D	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×15/15	5 7.5	$33 \times 47 \times 69$
DD-600F	9 021 704.A	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×15/15	5 7.5	33×47×69
DD-601F	9 021 705	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×20/15	8 10	$36 \times 46 \times 74$
DD-601F	9 021 705.D	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×20/15	8 10	$36 \times 46 \times 74$
DD-601F	9 021 705.A	-35 +200	0.6	0.44	0.16	0.1 0.7	8 27	22×20/15	8 10	$36 \times 46 \times 74$
DD-900F	9 021 706	-38 +200	0.9	8.0	0.31	0.1 0.7	8 27	26×35/20	21 30	39×62×75
DD-900F	9 021 706.D	-38 +200	0.9	0.8	0.31	0.1 0.7	8 27	26×35/20	21 30	39×62×75
DD-900F	9 021 706.A	-38 +200	0.9	0.8	0.31	0.1 0.7	8 27	26×35/20	21 30	39×62×75
DD-1000F	9 021 707	-50 +200	1	0.96	0.51	0.1 0.7	8 27	18×13/15	5 7.5	42 × 49 × 70
DD-1000F	9 021 707.D	-50 +200	1	0.96	0.51	0.1 0.7	8 27	18×13/15	5 7.5	42 × 49 × 70
DD-1000F	9 021 707.A	-50 +200	1	0.96	0.51	0.1 0.7	8 27	18×13/15	5 7.5	42 × 49 × 70
DD-1001F	9 021 708	-38 +100	1	0.85	0.32	0.1 0.7	8 27	35×41/30	42 56	45 × 64 ×95
DD-1001F	9 021 708.D	-38 +100	1	0.85	0.32	0.1 0.7	8 27	35×41/30	42 56	45 × 64 × 95
DD-1001F	9 021 708.A	-38 +100	1	0.85	0.32	0.1 0.7	8 27	35×41/30	42 56	45 × 64 × 95
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REFRIGERATED CIRCULATORS

MAGIO

From research institutes to industrial companies, laboratories around the world need high performance circulators for challenging temperature applications. The high-end circulators in the MAGIO range have been specially developed by JULABO with pioneering technologies for these requirements and are manufactured to the highest quality standards in Germany.



Product brochure online at www.julabo.com

Powerful.

- Ideal for demanding external applications
- Simple control of complex applications
- Continuously adjustable, extremely powerful pressure/suction pump
- Flow rate 16 ... 31 I/min, supply pressure 0.24 ... 0.92 bar, suction 0.03 ... 0.4 bar
- Large, high-resolution TFT touch display with multilingual user interface
- Stainless steel parts in contact with the medium
- Integrated programmer
- External Pt100 sensor connection
- USB interface
- RS232 interface
- Ethernet interface
- Analog interfaces (accessories)
- Classification III according to DIN 12876-1









MAGIO refrigerated circulators - technical data

The refrigerated circulators of the MAGIO series provide a heating capacity of 2 kW as well as a temperature stability of ± 0.01 °C.

Model	Order No.	Working temperature range	_	capacity tempera		Pressure	Pump Suction	Flow rate	Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		°C	+20	0	-20	bar	bar	I/min	cm	liters	cm
MS-310F	9 032 713.51*	-30 +200	0.26	0.21	0.10	0.24 0.92	0.03 0.4	16 31	13×15/15	3 4	23×40×65
MS-600F	9 032 704	-35 +200	0.6	0.44	0.16	0.24 0.92	0.03 0.4	16 31	22×15/15	5 7.5	$33 \times 47 \times 69$
MS-601F	9 032 705	-35 +200	0.6	0.44	0.16	0.24 0.92	0.03 0.4	16 31	22×15/20	8 10	$33 \times 47 \times 74$
MS-900F	9 032 706	-38 +200	0.9	0.8	0.31	0.24 0.92	0.03 0.4	16 31	26×35/20	21 30	$39 \times 62 \times 75$
MS-1000F	9 032 707	-50 +200	1	0.96	0.51	0.24 0.92	0.03 0.4	16 31	18×13/15	5 7.5	$42 \times 49 \times 70$

^{*} also available with natural refrigerant Order No. 9 032 713.N1

High-resolution TFT touch display

The modern TFT touch display gives you all important information at a glance. Three large, predefined main screens clearly display data and graphics with various application priorities. Menu navigation is self-explanatory, arranged by relevance to daily operations and easy to operate with the touch of a finger. The Help function provides detailed support in case of additional questions.







Product brochure online at www.julabo.com

cool Green

Climate-friendly temperature control with FN refrigerated circulators with natural refrigerant.

REFRIGERATED HEATING CIRCULATORS

HighTech

JULABO cold as ice: cool refrigeration technology:

Refrigerated circulators made by JULABO are used worldwide. Whether in research, material testing or in technical systems — the well proven and reliable technology is valued by users in all industries worldwide.

The JULABO range of circulators offers the functional solution for your day-to-day work, whether routine task or highest requirement: HighTech — the model series for every requirement.

Powerful.

- Working temperature ranges from -50 °C to +200 °C
- Powerful circulating pumps, electronically adjustable in steps
- Intelligent warning and safety functions for more safety
- Unique early warning system for low liquid level (DBGM)
- Digital and analog interface for flexible communication
- Removable venting grid for quick dust removal
- Active Cooling Control: Maximum cooling capacity at all temperatures





FN refrigerated heating circulators – technical data

The FN refrigerated circulators with natural refrigerant provide a heating capacity of 2 kW as well as a temperature stability of ± 0.01 °C.

Model	Order No.	Working tempera- ture range		capacity temperat	(kW) ture in °C	Pressure	Pump Suction	Flow rate	Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		°C	+20	0	-20	bar	bar	I/min	cm	liters	cm
FN25-HE	9 212 625N	-28 +200	0.26	0.2	0.06	0.4 0.7	0.2-0.4	22 26	12×14/14	3 4.5	23×50×64
FN32-HE	9 212 632N	-35 +200	0.45	0.39	0.15	0.4 0.7	0.2-0.4	22 26	18×12/15	5.5 8	$31 \times 50 \times 66$
FN25-HL	9 312 625N	-28 +200	0.26	0.2	0.06	0.4 0.7	0.2-0.4	22 26	$12 \times 14 / 14$	3 4.5	$23 \times 50 \times 64$
FN32-HL	9 312 632N	-35 +200	0.45	0.39	0.15	0.4 0.7	0.2-0.4	22 26	18×12/15	5.5 8	$31 \times 50 \times 66$



Refrigerated heating circulators – technical data

The refrigerated circulators of the HighTech series provide a heating capacity of 2 kW as well as a temperature stability of $\pm 0.01~^{\circ}\text{C}.$

Model	Order No.	Working temperature range		capacity tempera	(kW) ture in °C		Pump		Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		range				Pressure	Suction	Flow rate	WALID		
		°C	+20	0	-20	bar	bar	I/min	cm	liters	cm
F25-HE	9 212 625	-28 +200	0.26	0.2	0.06	0.4 0.7	0.2 0.4	22 26	12×14/14	3 4.5	23×42×64
F32-HE	9 212 632	-35 +200	0.45	0.39	0.15	0.4 0.7	0.2 0.4	22 26	18×12/15	5.5 8	$31 \times 42 \times 66$
F34-HE	9 212 634	-30 +150	0.45	0.32	0.14	0.4 0.7	0.2 0.4	22 26	$24 \times 30/15$	14 20	$38 \times 58 \times 64$
FP50-HE	9 212 650	-50 +200	0.9	0.8	0.46	0.4 0.7	0.2 0.4	22 26	18×12/15	5.5 8	$42 \times 49 \times 72$
FPW50-HE	9 212 651	-50 +200	0.9	0.8	0.46	0.4 0.7	0.2 0.4	22 26	$18 \times 12/15$	5.5 8	$42 \times 49 \times 72$
F25-HL	9 312 625	-28 +200	0.26	0.2	0.06	0.4 0.7	0.2 0.4	22 26	$12 \times 14/14$	3 4.5	$23 \times 42 \times 64$
F32-HL	9 312 632	-35 +200	0.45	0.39	0.15	0.4 0.7	0.2 0.4	22 26	$18 \times 12/15$	5.5 8	$31 \times 42 \times 66$
F33-HL	9 312 633	-30 +200	0.5	0.32	0.12	0.4 0.7	0.2 0.4	22 26	23×14/20	12 16	$36 \times 46 \times 71$
FP35-HL	9 312 618	-35 +150	0.45	0.34	0.15	0.4 0.7	0.2 0.4	22 26	18×12/-	2.5	$31 \times 42 \times 66$
FP50-HL	9 312 650	-50 +200	0.9	0.8	0.46	0.4 0.7	0.2 0.4	22 26	18×12/15	5.5 8	$42 \times 49 \times 72$
FPW50-HL	9 312 651	-50 +200	0.9	0.8	0.49	0.4 0.7	0.2 0.4	22 26	18×12/15	5.5 8	$42 \times 49 \times 72$





Product brochure online at www.julabo.com



CRYO-COMPACT CIRCULATORS ULTRA-LOW REFRIGERATED CIRCULATORS

CF | HighTech

Compact and powerful - CF series

The CF series offers very compact refrigerated heating circulators. The small dimensions enable installation into the smallest spaces or inside technical equipment. All models feature 2 kW heating capacity and protection class III per DIN12876-1. A maximum permissible ambient temperature of +40 °C, as well as ventilation air cooling, allow close installation to other instruments or directly in the exhaust of a test system.

JULABO ice-cold: Nothing is cooler.

JULABO ultra-low refrigerated circulators for heating and cooling in a working temperature range from -95 °C to +150°C. The instruments are suited for external temperature control applications and/or for temperature control directly in the circulator bath. The instruments offer particularly high heating and cooling capacities for short heat-up and cool-down times, even with large-volume, external consumers. FP models with proportional cooling power control for energy savings and low heat waste. W models are water-cooled. With handle and/or rollers for easy transport and drain tap for easy emptying of the bath fluid. The instruments feature improved insulation, a level indicator as well as a heated bath cover plate to prevent condensation or ice build-up. Typical applications include the temperature control of jacketed reaction vessels, autoclaves, miniplant installations, kilo labs, freezing point determination, low temperature calibration, petroleum testing, etc.



CF cryo-compact circulators - technical data

The CF series provides a heating capacity of 2 kW and a temperature stability of ±0.02 °C and ±0.03 °C for CF30 and CF40

Model	Order No.	Working temperature range	-	capacity temperat	(kW) ture in °C	Pressure	Pump Suction	Flow rate	Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		°C	+20	0	-20	bar	bar	I/min	cm	liters	cm
CF30	9 400 330	-30 +150	0.32	0.25	0.15	0.35	-	15	16×3/14	2 3.5	24×46×40
CF40	9 400 340	-40 +150	0.47	0.4	0.28	0.35	-	15	19×3/19	4 5.5	28 × 46 × 46
CF31	9 400 331	-30 +200	0.32	0.25	0.15	0.4 0.7	0.2 0.4	22 26	16×3/14	2 3.5	$24 \times 46 \times 40$
CF41	9 400 341	-40 +200	0.47	0.4	0.28	0.4 0.7	0.2 0.4	22 26	19×3/19	4 5.5	$28 \times 46 \times 46$





Ultra-low refrigerated circulators – technical data

The ultra-low refrigerated circulators of the HighTech series feature a heating capacity of 3 kW, except the F81-HL and FP89-HL models (heating capacity 1.3 kW). All models offer a temperature stability of ± 0.05 °C and FPW91-SL with ± 0.2 °C temperature stability.

Model	Order No.	Working tempera- ture range		g capacit 1 tempera		Pressure	Pump Suction	Flow rate	Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		°C	+20	0	-20	bar	bar	I/min	cm	liters	cm
FP51-SL	9 352 751	-51 +200	2.0	1.5	1.0	0.4 0.7	0.2 0.4	22 26	18×12/20	11	46×55×89
FP52-SL	9 352 752	-60 +100	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	28×23/22	24	59×76×116
FP55-SL	9 352 755	-60 +100	5.2	4.1	2.2	0.4 0.7	0.2 0.4	22 26	28×23/22	27	$85 \times 76 \times 116$
F81-HL	9 312 681	-81 +100	0.45	0.38	0.36	0.4 0.7	0.2 0.4	22 26	13×15/16	6.5	50×58×89
FP89-HL	9 312 689	-90 +100	1.0	0.92	0.88	0.4 0.7	0.2 0.4	22 26	13×15/16	8	$55 \times 60 \times 92$
FP90-SL	9 352 790	-90 +100	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	28×23/22	22	59×76×116
FPW52-SL	9 352 753	-60 +100	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	28×23/22	24	$59 \times 76 \times 116$
FPW55-SL	9 352 756	-60 +100	5.5	4.1	2.2	0.4 0.7	0.2 0.4	22 26	28×23/22	27	59×76×116
FPW90-SL	9 352 791	-90 +100	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	28 × 23 / 22	22	$59 \times 76 \times 116$
FPW91-SL	9 352 793	-91 +100	4.5	4.1	3.7	0.4 0.7	0.2 0.4	22 26	28×23/22	22	$85 \times 76 \times 116$
FP52-SL	9 352 752N	-60 +100	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	24	$59 \times 76 \times 116$
FP55-SL	9 352 755N	-60 +100	5.2	4.1	2.2	0.4 0.7	0.2 0.4	22 26	Filling port	27	$85 \times 76 \times 116$
FP52-SL	9 352 752N150	-60 +150	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	24	$59 \times 76 \times 116$
FP55-SL	9 352 755N150	-60 +150	5.2	4.1	2.2	0.4 0.7	0.2 0.4	22 26	Filling port	27	$85 \times 76 \times 116$
FPW52-SL	9 352 753N	-60 +100	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	24	$59 \times 76 \times 116$
FPW55-SL	9 352 756N	-60 +100	5.5	4.1	2.2	0.4 0.7	0.2 0.4	22 26	Filling port	27	$59 \times 76 \times 116$
FPW52-SL	9 352 753N150	-60 +150	3.0	2.8	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	24	$59 \times 76 \times 116$
FPW55-SL	9 352 756N150	-60 +150	5.5	4.1	2.2	0.4 0.7	0.2 0.4	22 26	Filling port	27	$59 \times 76 \times 116$
FP90-SL	9 352 790N	-90 +100	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	22	$59 \times 76 \times 116$
F95-SL	9 352 795N	-95 0	-	1.7	1.5	0.4 0.7	0.2 0.4	22 26	Filling port	22	$59 \times 76 \times 116$
FP90-SL	9 352 790N150	-90 +150	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	22	$59 \times 76 \times 116$
FPW90-SL	9 352 791N	-90 +100	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	22	59×76×116
FPW91-SL	9 352 793N	-91 +100	4.5	4.1	3.7	0.4 0.7	0.2 0.4	22 26	Filling port	22	$85 \times 76 \times 116$
FW95-SL	9 352 796N	-95 0	-	1.7	1.5	0.4 0.7	0.2 0.4	22 26	Filling port	22	59×76×116
FPW90-SL	9 352 791N150	-90 +150	1.8	1.7	1.6	0.4 0.7	0.2 0.4	22 26	Filling port	22	$59 \times 76 \times 116$



Juliato MASIO CORI DYNEO

Product brochure online at www.julabo.com

HEATING CIRCULATORS

CORIO | DYNEO | MAGIO

Heating technology from +20 °C to +300 °C.

Heating circulators made by JULABO are used worldwide. Whether in research, material testing or technical systems, users in industries around the world rely on the tried and tested technology. Focused on your requirements, JULABO heating circulators have set the benchmark for temperature control technology for decades. The JULABO range of circulators offers the functional solution for your day-to-day work, whether routine task or highest requirement: CORIO, DYNEO and MAGIO — three model series for every requirement and every budget.

Powerful.

- Models for working temperatures from +20 °C to +300 °C
- Available as heating immersion circulators, bridge mounted circulators, open heating bath circulators, bath or heating circulators
- Suitable for internal and/or external applications
- Bath tanks made of transparent plastic or stainless steel (according to choice)







Heating immersion circulators form the basis of the JULABO circulator portfolio. They can be mounted on bath tanks with up to 50 liters.

The **bridge mounted circulator** is delivered with an adjustable stainless steel telescope bridge.

Open heating bath circulators are suited for internal applications, such as temperature control of samples.



$\label{lem:heating immersion} \textbf{Heating immersion, bridge-mounted and open heating bath circulators-technical data}$

Model	Order No.	Working	Temperature	Heating		Pump		Usable bath	Filling	Dimensions
		temperature range	stability	capacity	Pressure	Suction	Flow rate	opening W×L/D	volume	W×L×H
		°C	°C	kW	bar	bar	I/min	cm	liters	cm
Heating	immersion cir	rculators CORIO								
C	9 011 000	+20 +100	± 0.03	2	0.1	-	6	-	-	13.2×16×36.2
CD	9 012 000	+20 +150	± 0.03	2	0.35	-	15	-	-	13.2×16×36.2
СР	9 013 000	+20 +200	± 0.02	2	0.1 0.7	-	8 27	-	-	13.2×16×36.2
Heating	immersion cir	culator DYNEO								
DD	9 021 000	+20 +200	± 0.01	2	0.1 0.7	-	8 27	-	-	13.2×16×35.5
Bridge m	nounted circul	ator HighTech								
SE-Z	9 252 218	+20 +300	± 0.01	3	0.4 0.7	0.2 0.4	22 26	-	-	32 × 17 × 41
				_						
	nounted circul									
MS-Z	9 032 201	+20 +300	± 0.01	2	0.24 0.92	0.03 0.4	16 31	-	-	$34 \times 19 \times 36$
MX-Z	9 033 201	+20 +300	± 0.01	3	0.24 0.92	0.03 0.4	16 31	-	-	34×19×41
Open hea	ating bath circ	ulators CORIO								
C-BT5	9 011 305	+20 +100	± 0.03	2	0.1	-	6	15×15/15	3.5 5	23×38×38
C-BT9	9 011 309	+20 +100	± 0.03	2	0.1	-	6	23×15/15	6 9	32×38×38
C-BT19	9 011 319	+20 +100	± 0.03	2	0.1	-	6	30×35/15	14 19	38×58×38
C-BT27	9 011 327	+20 +100	± 0.03	2	0.1	-	6	30×35/15	20 27	$38 \times 58 \times 43$
C-B5	9 011 405	+20 +100	± 0.03	2	0.1	-	6	15×15/15	3.5 5	23×38×41
C-B13	9 011 413	+20 +100	± 0.03	2	0.1	-	6	30×18/15	9 13	38×40×42
C-B17	9 011 417	+20 +100	± 0.03	2	0.1	-	6	30×18/20	13 17	$38 \times 40 \times 47$
C-B19	9 011 419	+20 +100	± 0.03	2	0.1	-	6	30×35/15	14 19	$38 \times 58 \times 42$
C-B27	9 011 427	+20 +100	± 0.03	2	0.1		6	30×35/20	17 27	38 × 58 × 47



Juliat Juliaba Juliaba MAGIO* COR DYNEO*

Product brochure online at www.julabo.com

HEATING CIRCULATORS

CORIO | DYNEO | HighTech / MAGIO

Heating circulators with open baths for different applications

Heating circulators with open baths can be used for internal and external applications, because the changeover between internal and external temperature control is very easy.

Heating circulators are tailored to external temperature control applications and offer the best heat insulation.

Powerful.

- Models for working temperatures from +20 °C to +300 °C
- Large selection of models for internal and external applications
- Bath tanks made of transparent plastic or stainless steel (according to choice)
- Easy operation
- Bright displays, easy to read even from a distance
- State-of-the-art control technology for quick results and precision
- With many professional functions (model specific) for adjusting control parameters, temperature calibration, temperature profiles, etc.
- Powerful circulating pumps electronically adjustable
- High heating capacities for rapid heat-up







Heating circulators with open baths – technical data

leating the	ulutois With O	pen baths – tech	iiiicai uata					八大 州 宣司		
Model	Order No.	Working temperature range	Tempera- ture stability	Heating capacity	Pressure	Pump Suction	Flow rate	Usable bath opening W×L/D	Filling volume	Dimensions W×L×H
		°C	°C	kW	bar	bar	I/min	cm	liters	cm
Heating ci	rculators with	open baths COR	lIO							
CD-BT5	9 012 305	+20 +100	± 0.03	2	0.35	-	15	15×15/15	3.5 5	23×38×38
CD-BT19	9 012 319	+20 +100	± 0.03	2	0.35	-	15	30×35/15	14 19	38×58×38
CD-BT27	9 012 327	+20 +100	± 0.03	2	0.35	-	15	30×35/20	20 27	38×58×43
CD-B5	9 012 405	+20 +150	± 0.03	2	0.35	-	15	15×15/15	3.5 5	23×38×41
CD-B13	9 012 413	+20 +150	± 0.03	2	0.35	-	15	30×18/15	9 13	38×40×42
CD-B17	9 012 417	+20 +150	± 0.03	2	0.35		15	30×18/20	13 17	$38 \times 40 \times 47$
CD-B19	9 012 419	+20 +150	± 0.03	2	0.35	-	15	30×35/15	14 19	38×58×42
CD-B27	9 012 427	+20 +150	± 0.03	2	0.35	-	15	30×35/20	17 27	38×58×47
CD-B33	9 012 433	+20 +150	± 0.03	2	0.35	-	15	66×32/15	26 39	91×36×43
CD-B39	9 012 439	+20 +150	± 0.03	2	0.35	-	15	33×30/30	35 41	54×34×57
Heating ci	rculators CORI	0								
CD-BC4	9 012 504	+20 +150	± 0.03	2	0.35		15	13×15/15	3 4.5	23×41×42
CP-BC4	9 013 504	+20 +200	± 0.03	2	0.1 0.7	-	8 27	13×15/15	3 4.5	23×41×42
CD-BC6	9 012 506	+20 +150	± 0.03	2	0.35		15	13×15/20	4.5 6	24×44×47
CP-BC6	9 013 506	+20 +200	± 0.02	2	0.1 0.7	-	8 27	13×15/20	4.5 6	24×44×47
CD-BC12	9 012 512	+20 +150	± 0.03	2	0.35	-	15	22×15/20	8.5 12	33×49×47
CP-BC12	9 013 512	+20 +200	± 0.02	2	0.1 0.7	-	8 27	22×15/20	8.5 12	33×49×47
CD-BC26	9 012 526	+20 +150	± 0.03	2	0.35	-	15	26×35/20	19 26	39×62×48
CP-BC26	9 013 526	+20 +200	± 0.02	2	0.1 0.7	-	8 27	26×35/20	19 26	39×62×48
Heating ci	rculators DYNI									
DD-BC4	9 021 504	+20 +200	± 0.01	2	0.1 0.7		8 27	13×15/15	3 4.5	23×41×42
DD-BC4	9 021 504.D	+20 +200	± 0.01	2	0.1 0.7		8 27	13×15/15	3 4.5	23×41×42
DD-BC4	9 021 504.A	+20 +200	± 0.01	2	0.1 0.7	-	8 27	13×15/15	3 4.5	23×41×42
DD-BC6	9 021 506	+20 +200	± 0.01	2	0.1 0.7	-	8 27	13×15/20	4.5 6	24×44×47
DD-BC6	9 021 506.D	+20 +200	± 0.01	2	0.1 0.7	-	8 27	13×15/20	4.5 6	24×44×47
DD-BC6	9 021 506.A	+20 +200	± 0.01	2	0.1 0.7	-	8 27	13×15/20	4.5 6	24×44×47
DD-BC12	9 021 512	+20 +200	± 0.01	2	0.1 0.7	-	8 27	22×15/20	8.5 12	33×49×47
DD-BC12	9 021 512.D	+20 +200	± 0.01	2	0.1 0.7	-	8 27	22×15/20	8.5 12	33×49×47
DD-BC12	9 021 512.A	+20 +200	± 0.01	2	0.1 0.7	-	8 27	22×15/20	8.5 12	33×49×47
DD-BC26	9 021 526	+20 +200	± 0.01	2	0.1 0.7	-	8 27	26×35/20	19 26	39×62×48
DD-BC26	9 021 526.D	+20 +200	± 0.01	2	0.1 0.7	-	8 27	26×35/20	19 26	39×62×48
DD-BC26	9 021 526.A	+20 +200	± 0.01	2	0.1 0.7	-	8 27	26×35/20	19 26	39×62×48
Heating ci	rculators High	Tech								
HE-4	9 212 504	+20 +250	±0.01	2	0.4 0.7	0.2 0.4	22 26	13×15/15	4.5	$21 \times 42 \times 40$
SE-6	9 252 506	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	13×15/20	6	$21 \times 43 \times 44$
SE-12	9 252 512	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	22×15/20	12	$30 \times 43 \times 47$
SE-26	9 252 526	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	22×30 / 20	26	$36 \times 61 \times 47$
HL-4	9 312 504	+20 +250	±0.01	2	0.4 0.7	0.2 0.4	22 26	13 × 15 / 15	4.5	$21 \times 42 \times 40$
SL-6	9 352 506	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	13×15/20	6	$21 \times 43 \times 44$
SL-12	9 352 512	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	22×15/20	12	$30 \times 43 \times 47$
SL-26	9 352 526	+20 +300	±0.01	3	0.4 0.7	0.2 0.4	22 26	22×30 / 20	26	$36 \times 61 \times 47$
Heating ci	rculators MAG	10								
MS-BC4	9 032 504	+20 +300	± 0.01	2	-	0.03 0.4	16 31	13×15/15	3 4.5	23 × 41 × 42
MX-BC6	9 033 506	+20 +300	± 0.01	3	0.4 - 0.7	0.03 0.4	16 31	13×15/20	4.5 6	$24 \times 44 \times 47$
MX-BC12	9 033 512	+20 +300	± 0.01	3	0.4 - 0.7	0.03 0.4	16 31	22×15/20	8.5 12	$33 \times 49 \times 47$
MX-BC26	9 033 526	+20 +300	± 0.01	3	0.4 - 0.7	0.03 0.4	16 31	26×35/20	19 26	$39 \times 62 \times 48$



dulchin spin (versi Imperior Centri Spine). PRESTO à FORTE HT

Product brochure online at www.julabo.com







HIGHLY DYNAMIC TEMPERATURE CONTROL SYSTEMS

PRESTO | FORTE HT

PRESTO: Best performance for highly dynamic temperature control systems

With high cooling and heating capacities, PRESTO systems cover a working temperature range of -92 °C to +250 °C. Their highly efficient components can compensate exothermic and endothermic reactions extremely fast.

- Ideal for high precision, external temperature control tasks from -92 °C ... +250 °C
- Broad working temperature ranges without changing the bath fluid
- Extremely rapid cool-down and heat-up
- Powerful circulation pumps, adjusted in increments or to predefined pressure values

FORTE HT with optional cooling unit

The high temperature circulators of the FORTE HT series control the temperature of external closed systems. These compact instruments have a closed design. Even at high temperatures, there is no offgasing of oil odors.

- High heating capacity up to 7 kW for short heat-up times
- High pump capacity
- Low filling volume
- Cooling water connection for cold oil overlay
- External Pt100 sensor connection
- Numerous interfaces

Models with C.U. cooling units also provide:

- Pulsed cooling water supply for temperature control tasks starting at +40 $^{\circ}\text{C}$
- Cooling power up to max. 15 kW (cooling water at +20 $^{\circ}\text{C}$ and oil temperature at +300 $^{\circ}\text{C})$
- Rapid cool-down to low temperatures in very little time
- Fast compensation, e.g. of exothermal reactions





PRESTO





Highly dynamic temperature control systems – technical data

Model	Order No.	Working	Temperature	Heating		capacit		Pum	ıp	Cooling of	Dimensions
		temperature range	stability	capacity	in °C	tempera	ature	Pressure	Flow rate	refrigerant unit	W×D×H
		°C	°C	kW	+20	0	-20	bar	I/min		cm
PRESTO											
A30	9 420 300	-30 +250	±0.01 ±0.05	2.7	0.5	0.4	0.2	0.5	25	1-st. Air	$25 \times 59 \times 62$
A40	9 420 401	-40 +250	±0.01 ±0.05	2.7	1.2	0.9	0.6	0.3 1.7	16 40	1-st. Air	$33 \times 59 \times 67$
W40	9 421 401	-40 +250	±0.01 ±0.05	2.7	1.2	1.	0.55	0.3 1.7	16 40	1-st. Water	$33 \times 59 \times 67$
A45	9 420 452	-45 +250	$\pm 0.05 \dots \pm 0.1$	6	3.5	3.3	1.8	0.48 3.2	35 76	1-st. Air	$53 \times 66.5 \times 126$
A45t	9 420 452.T	-45 +250	±0.05 ±0.1	12	3.5	3.3	1.8	0.48 3.2	35 76	1-st. Air	$53 \times 66.5 \times 126$
W50	9 421 502	-50 +250	±0.05 ±0.1	6	7.5	6.5	3	0.48 3.2	35 76	1-st. Water	$53 \times 66.5 \times 126$
W50t	9 421 502.T	-50 +250	±0.05 ±0.1	12	7.5	6.5	3	0.48 3.2	35 76	1-st. Water	$53 \times 66.5 \times 126$
W55	9 421 552	-55 +250	±0.05 ±0.2	15	15	10	4	0.48 3.2	35 80	1-st. Water	$61 \times 84.5 \times 125$
W56	9 421 562	-56 +250	±0.05 ±0.1	27	25.8	23.1	11.5	0.48 3.2	35 80	1-st. Water	$60 \times 94 \times 164$
A80	9 420 801	-80 +250	±0.01 ±0.05	1.8	1.2	1.2	1.1	0.3 1.7	16 40	2-st. Air	$43 \times 65 \times 126$
A80t	9 420 801.T	-80 +250	±0.01 ±0.05	3.4	1.2	1.2	1.1	0.3 1.7	16 40	2-st. Air	$43 \times 65 \times 126$
W80	9 421 801	-80 +250	±0.01 ±0.05	1.8	1.2	1.2	1.1	0.3 1.7	16 40	2-st. Water	$43 \times 65 \times 126$
W80t	9 421 801.T	-80 +250	±0.01 ±0.05	3.4	1.2	1.2	1.1	0.3 1.7	16 40	2-st. Water	$43 \times 65 \times 126$
A85	9 420 852	-85 +250	±0.05 ±0.1	6	2.5	2.4	2.4	0.48 3.2	35 80	2-st. Air	$61\times108\times125$
A85t	9 420 852.T	-85 +250	±0.05 ±0.1	15	2.5	2.4	2.4	0.48 3.2	35 80	2-st. Air	$61\times108\times125$
W85	9 421 852	-85 +250	±0.05 ±0.1	6	2.5	2.4	2.4	0.48 3.2	35 80	2-st. Water	$61 \times 84.5 \times 125$
W85t	9 421 852.T	-85 +250	±0.05 ±0.1	15	2.5	2.4	2.4	0.48 3.2	35 80	2-st. Water	$61 \times 84.5 \times 125$
W91	9 421 912	-91 +250	±0.05 ±0.2	18	11	11	11	0.5 3.0	26 80	2-st. Water	$95 \times 127 \times 190$
W91tt	9 421 912.TT	-91 +250	±0.05 ±0.2	36	11	11	11	0.5 3.0	26 80	2-st. Water	$95 \times 127 \times 190$
W91x	9 421 913	-91 +250	±0.05 ±0.2	18	11	11	11	0.8 5.5	18 70	2-st. Water	$95 \times 127 \times 190$
W91ttx	9 421 913.TT	-91 +250	±0.05 ±0.2	36	11	11	11	0.8 5.5	18 70	2-st. Water	$95 \times 127 \times 190$
W92	9 421 922	-92 +250	±0.05 ±0.2	18	27	20	11	0.5 3.0	26 80	2-st. Water	$95 \times 127 \times 190$
W92tt	9 421 922.TT	-92 +250	±0.05 ±0.2	36	27	20	11	0.5 3.0	26 80	2-st. Water	$95 \times 127 \times 190$
W92x	9 421 923	-92 +250	±0.05 ±0.2	18	27	20	11	0.8 5.5	18 70	2-st. Water	$95 \times 127 \times 190$
W92ttx	9 421 923.TT	-92 +250	±0.05 ±0.2	36	27	20	11	0.8 5.5	18 70	2-st. Water	$95 \times 127 \times 190$

Model	Order No.	Working temperature range	Temperature stability external	Heating capacity	Cooling capacity (water +20 °C)	Pu Pressure	mp Flow rate	Dimensions Circulator W × D × H	Dimensions Control electronics W × D × H
		°C	°C	kW	kW, max.	bar	I/min	cm	cm
FORTE HT									
HT30-M1	9 800 031	+70 +400	±0.01 ±0.1	3	-	0.8 - 1.2	14 - 18	$23 \times 23 \times 58$	$25 \times 25 \times 18$
HT60-M2	9 800 062	+70 +400	±0.01 ±0.1	7	-	0.8 - 1.2	14 - 18	$23 \times 23 \times 58$	$25 \times 25 \times 18$
HT60-M3	9 800 063	+70 +400	±0.01 ±0.1	6	·	0.8 - 1.2	14 - 18	$23 \times 23 \times 58$	$25 \times 25 \times 18$
HT30-M1-C.U.	9 800 035	+40 +400	±0.01 ±0.1	3	15	0.8 - 1.2	14 - 18	$43 \times 23 \times 58$	$25 \times 25 \times 18$
HT60-M2-C.U.	9 800 065	+40 +400	±0.01 ±0.1	7	15	0.8 - 1.2	14 - 18	$43 \times 23 \times 58$	$25 \times 25 \times 18$
HT60-M3-C.U.	9 800 066	+40 +400	±0.01 ±0.1	6	15	0.8 - 1.2	14 - 18	$43 \times 23 \times 58$	25 × 25 × 18



RECIRCULATING COOLERS AND CHILLERS

AWC | F | FL



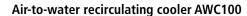
Product brochure online at www.julabo.com

AC100 for working near

ambient temperature

Environmentally-friendly cooling while saving tap water.

JULABO recirculating coolers and chillers are powerful solutions for a wide range of cooling requirements in laboratories and industrial environments. The instruments' short cool-down times and high efficiency make them an economic alternative to tap water cooling. The compact design offers a space saving installation. The instruments are equipped with a bright LED temperature display, easy to read even from a distance. W models are water-cooled for quiet operation and low heat waste. Warn and safety functions enable reliable, continuous operation. Filling and emptying is quick and easy via a well accessible filling and/or drain tap.



- Particularly small space requirement
- Energy-saving
- Cooling capacity adjustable in two steps

F models: compact recirculating coolers

- Working temperature ranges from -10 °C to +40 °C
- Cooling capacity up to 1 kW
- Environmentally-friendly operation with low energy consumption

FL models: powerful recirculating coolers

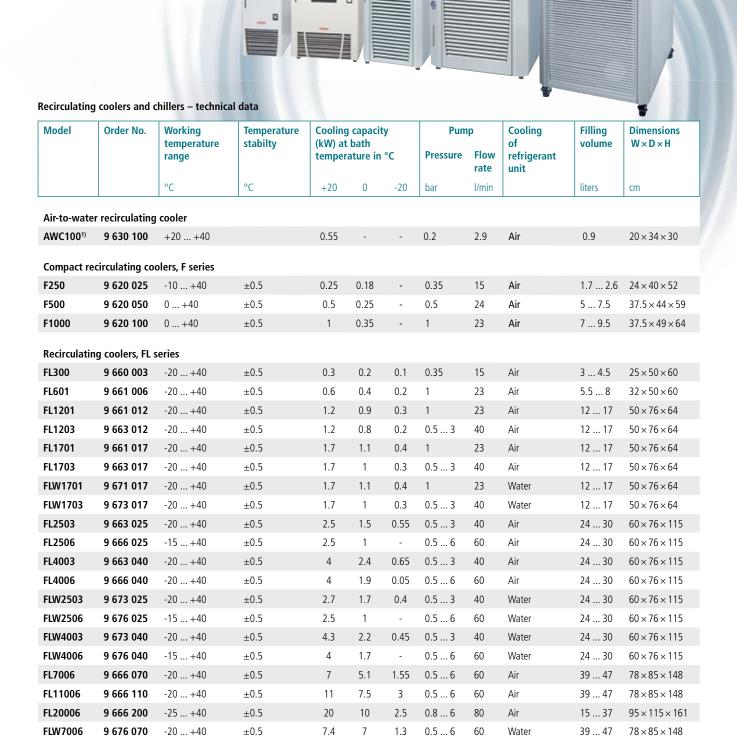
- Working temperature ranges from -25 °C to +40 °C
- Cooling capacity up to 20 kW
- Powerful circulating pumps



Drain tap located behind removable venting grid







¹⁾ Cooling capacity depends on the temperature difference between return flow and ambient environment.

±0.5

±0.5

11.5

7.3

12

2.7

3

0.5 ... 6

0.8 ... 6

60

80

Water

Water

39 ... 47

15 ... 37

 $78 \times 85 \times 148$

95×115×161

FLW11006

FLW20006

9 676 110

9 676 200

-20 ... +40

-25 ... +40



RECIRCULATING COOLER AND CHILLER

FC | SemiChill



Product brochure online at www.julabo.com

SemiChill recirculating cooler for industrial applications

The SemiChill series offers powerful recirculating coolers, particularly for applications in the semiconductor industry. Five models with cooling capacities from 2.5 to 10 kW (air- and water-cooled) are available. The working temperature ranges from +5 °C to +35 °C (optionally from -20 °C to +130 °C). Different pumps and electronic modules can be selected. They cover from simple to sophisticated requirements, 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 integrated heater with heating capacity 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 > Interfaces
- > Pump capacity > Heating capacity
- > Working temperature > Filter housings

Configure your ideal instrument, we are glad to advise.





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 tempera- ture range	Temp. stability	Cooling (kW) at tempera	bath		Pun	np Flow	Cooling of refrigerant	Filling volume	Dimensions W×D×H
		ture range		tempera	iture iii		Tressure	rate	unit		
		°C	°C	+20	0	-20	bar	l/min		liters	cm
SemiChill Reci	irculating Coolers										
SC2500a	9500025XXP3H0D0M0	+5 +35	±0.1	2.5	1.5	-	3.5	33	Air	21 33	49×62×105
SC2500w	9500026XXP3H0D0M0	+5 +35	±0.1	2.5	1.5	-	3.5	33	Water	21 33	$49 \times 62 \times 105$
SC5000a	9500050XXP3H0D0M0	+5 +35	±0.1	5.0	2.5	-	3.5	33	Air	43 60	59×67×112
SC5000w	9500051XXP3H0D0M0	+5 +35	±0.1	5.0	2.5	-	3.5	33	Water	43 60	59×67×112
SC10000w	9500101XXP3H0D0M0	+5 +35	±0.1	10.0	5.0	-	3.5	33	Water	43 60	59×67×112
FC Recirculation	na Coolers										
FC600	9 600 060	-20 +80	±0.2	0.6	0.33	-	0.5	20	Air	6 8	$35 \times 54 \times 49$
FC600S	9 600 063	-10 +80	±0.2	0.5	0.22	-	1.2	22	Air	6 8	$35 \times 54 \times 49$
FC1200	9 600 120	-20 +80	±0.2	1.3	0.6	-	0.5	20	Air	8 11	$46 \times 61 \times 49$
FC1200S	9 600 123	-15 +80	±0.2	1.2	0.5	-	1.2	22	Air	8 11	$46 \times 61 \times 49$
FC1600	9 600 160	-20 +80	±0.2	1.65	0.8	-	0.5	20	Air	8 11	$46 \times 61 \times 49$
FC1600S	9 600 163	-15 +80	±0.2	1.55	0.65	-	1.2	22	Air	8 11	$46 \times 61 \times 49$
FC1200T	9 600 126	-10 +80	±0.2	1.1	0.4	-	3.5	28	Air	8 11	$46 \times 61 \times 49$
FC1600T	9 600 166	-15 +80	±0.2	1.45	0.5	-	3.5	28	Air	8 11	$46 \times 61 \times 49$
FCW600	9 601 060	-20 +80	±0.2	0.6	0.33	-	0.5	20	Water	6 8	$35 \times 54 \times 49$
FCW600S	9 601 063	-10 +80	±0.2	0.5	0.22	-	1.2	22	Water	6 8	$35 \times 54 \times 49$
FCW2500T	9 601 256	-25 +80	±0.2	2.5	2	0.25	3.5	28	Water	8 11	$46 \times 61 \times 49$

WATER BATHS AND SHAKING WATER BATHS

PURA | SW

High quality. Practical. Durable.

Users place high demands on modern water baths in terms of functionality and reliability. Above all, a water bath must be trouble-free and low-maintenance in everyday operations. For this reason, JULABO does not only count on proven functions in the new PURA series of water baths, but particularly also on simple, intuitive operation and high material and component quality. The result are functional and high-quality water baths that facilitate regular temperature applications in the laboratory and, thanks to their durable design, can withstand permanent loads without any problems.



Product brochure online at www.julabo.com

PURA water baths

- Working temperature range $^{1)}$ from +18 °C to +99.9 °C
- Models with bath volumes from 0.8 to 36 liters
- Temperature stability²⁾ of \pm 0.15 °C
- Heating capacity up to 2 kW
- Bright display
- Splash-proof protected mains switch
- Built-in dry running protection
- Specially designed edge surfaces, which drain condensed fluid back into the bath
- Removable platform for full immersion of the sample containers (included)









Experienced and safe.

A shaking water bath from JULABO provides the convenience of a spray water-protected membrane keypad and a bright multi-display (LED) for indication of up to four different values.

Microprocessor technology with PID temperature control ensures optimal temperature stability in the water bath. Adjustable high and low temperature warning functions protect the samples. A low liquid

optimal temperature stability in the water bath. Adjustable high and low temperature warning functions protect the samples. A low liquid level triggers a full shut-off. JULABO shaking water baths can run continuously and unsupervised. The bath tank and all parts that contact the bath fluid are made of high-quality stainless steel.

Shaking water baths

- Working temperature ranges from +20 °C to +99.9 °C
- Dry-running protection with acoustic and optical alarm
- Warning and cut-off protection for high/low temperature
- Adjustable shaking frequency from 20 bis 200 rpm
- Drain-screw for emptying
- Removable bottom cover plate and shaking insert

PURA – technical data

Model	Order No	Working temperature range ¹⁾	Temperature stability ²⁾	Heating capacity	Possible test tube racks (accessories)	Bath opening/ bath depth W×L/D	Filling volume	Dimensions without cover W×D×H
		°C	°C	kW		cm	liters	cm
PURA 4	9 550 504	+18 +99.9	±0.15	0.5	1	12 × 27 / 14	0.8 4.5	21×38×30
PURA 10	9 550 510	+18 +99.9	±0.15	1.2	2	22 × 27 / 14	1.4 9.5	$31 \times 38 \times 30$
PURA 14	9 550 514	+18 +99.9	±0.15	1.8	3	33×27 / 17	2 14	$42 \times 38 \times 30$
PURA 22	9 550 522	+18 +99.9	±0.15	2	5	55×27 / 18	3.4 25.5	63×38×30
PURA 30	9 550 530	+18 +99.9	±0.15	2	7	77×27 / 18	4.8 36	85×38×30

¹⁾ with counter-cooling/bath cover (accessories)

Shaking water baths - technical data

Model	Order No	Working temperature range	Temperature stability	Heating capacity	Shaking frequency	Shaking stroke	Bath opening/ bath depth W×L / D	Filling volume	Dimensions without cover W × D × H
SW22	9 550 322	+20 +99.9	±0.2	2	20 200	15	50×30 / 18	8 20	$70 \times 35 \times 26$
SW23	9 550 323	+20 +99.9	±0.02	2	20 200	15	50×30 / 18	8 20	$70 \times 35 \times 26$

²⁾ with bath cover (accessories)



INSTRUMENTS FOR SPECIAL REQUIREMENTS

Calibration baths | forcing test circulators | immersion coolers flow-through coolers | laboratory temperature controllers refrigerators for chemicals | wireless communication & software



Product brochure online at www.julabo.com

Wide range of applications for the right temperature

JULABO provides instruments for different lab applications, including calibration of temperature sensors, cooling of chemicals, and determination of the 'best before' date of beer.



ull WirelessTEMP™

Wireless communication & software

JULABO networking solutions and EasyTEMP simplify and automate your workflows. JULABO temperature control instruments are comfortably controlled and monitored via PC or Tablet PC.





Calibration baths and forcing test circulators – technical data

The calibration baths provide a temperature stability of up to ± 0.005 °C and the beer forcing test heating/refrigerated circulators of ± 0.05 °C.

Model	Order No.	Working temperature range	Heating capacity	Cooling capacity (kW) at bath temperature in °C		Pu Pressure	mp Flow rate	Bath opening/ bath depth W×L/D	Filling volume	Dimensions W×D×H	
		°C	KW	+20	0	-20	bar	l/min	cm	liters	cm
Calibratio	n Baths										
SL-8K	9 352 508	+50 +300	3	-	-	-	0.4 0.7	22 26	Ø 12 / 17	8	$22 \times 46 \times 47$
SL-14K	9 352 514	+50 +300	3	-	-	-	0.4 0.7	22 26	Ø 12 / 31	14	$22 \times 46 \times 61$
FK-30SL	9 352 627	-30 +200	2	0.46	0.34	0.15	0.4 0.7	22 26	Ø 12 / 17	14	$32 \times 45 \times 79$
FK-31SL	9 352 628	-30 +200	2	0.46	0.34	0.15	0.4 0.7	22 26	Ø 12 / 31	24	32×45×91

				6,5	11 25 3 1						
Model C	Order No.	Working tempera- ture range	Heating capa- city	Cooling capacity (kW) at bath temperature in °C		Pump Pressure Flow rate		Bath opening/ bath depth W×L/D	Filling volume	Dimensions W×D×H	
		°C	KW	+20	0	-20	bar	l/min	cm	liters	cm
Beer Forcing Test Bath											
DD-1001F-BF 9	021 709	-38 +80	2	1	0.85	0.32	0.1 0.7	8 27	35×41/30	42 56	$45 \times 64 \times 95$





Immersion coolers, flow-through coolers – technical data

Model	Order No.	Working temperature range	Tempera- ture stability	at bath temperature in °C		Immersion probe / flexible corrugated tubing	Dimensions W×D×H	
		°C	°C	+20	0	-20	cm	cm
FT200	9 650 820	-20 +30	-	0.25	0.15	0.04	9×4	$18 \times 27 \times 39$
FT400	9 650 840	-40 +30	-	0.45	0.30	0.14	12×5	$20 \times 30 \times 43$
FT900	9 650 890	-90 +30	-	0.3	0.27	0.24	65 × 1.5 flexible	$38 \times 55 \times 60$
FT402	9 650 842	-40 +30	±0.5	0.45	0.30	0.14	12×5	$20 \times 30 \times 43$
FT902	9 650 892	-90 +30	±1	0.3	0.27	0.24	65 × 1.5 flexible	$38 \times 55 \times 60$
FT903	9 650 893	-90 +30	±1	0.3	0.27	0.25	5.6 × 14.0	$38 \times 55 \times 60$
FD200	9 655 825	+10 +30	-	0.22	-	-	-	$18 \times 27 \times 39$

Laboratory temperature controller – technical data

Model	Order No.	Working temperature range	Temperature stability	Max. connected load	Working sensor	Safety sensor	Dimensions W×D×H
		°C	°C	kW			cm
LC4	9 700 140	-50 +350	< ±0.05	2	1 Pt100	1 Pt100	17×17×16
LC6	9 700 160	-100 +400	< ±0.03	3	2 Pt100	1 Pt100	21×18×18

Refrigerators for chemicals – technical data

Model	Order No.	Working temperature range	Temperature stability	Working sensor Safety sensor	Inner volume	Inner dimensions W×D×H	Dimensions W×D×H
		°C	°C		liters	cm	cm
KRC50	8 800 705	-2 +12	±1	PTC	68	42×29×44	55 × 64 × 63
KRC180	8 800 718	-2 +12	±1	PTC	180	$52 \times 40 \times 70$	$60 \times 64 \times 86$

The Julabo advantages at a glance.

JULABO temperature control solutions - high-precision and speed

JULABO products include high-quality temperature control solutions to cover the temperature range -95 °C to +400 °C.



Refrigerated circulators

JULABO refrigerated circulators are suitable for internal and external applications and can be used within the temperature range -95 °C to +200 °C.



Water baths and shaking water baths

JULABO water baths and shaking water baths can be used for a variety of applications within the temperature range +18 °C to +99.9 °C.



Heating circulators

Heating circulators are available in various designs including heating immersion circulators, heating circulators with open bath, and heating circulators to cover a temperature range from +20 °C to +300 °C.



Additional products

In addition, the JULABO product portfolio offers instruments for special requirements such as calibration baths, beer forcing test baths, immersion/flow-through coolers, temperature controllers and refrigerators for chemicals.



Highly dynamic temperature control systems

The highly dynamic temperature control systems from JULABO can be used for demanding temperature applications ranging from -92 °C to +400 °C. The PRESTO series offers unique high-performance specifications to meet these requirements.



Wireless communication & software solutions

JULABO facilitates the automation of applications. The temperature control instruments can be comfortably controlled and monitored via PC.



Recirculating coolers

The high degree of efficiency of JULABO recirculating coolers makes them an environmentally-friendly and economic alternative to tap water cooling in the temperature range -25 °C to +130 °C.



Accessories

An extensive range of accessories allows for adaptation of JULABO products for research and industry use.

Comprehensive service and on-site support

JULABO takes pride in offering customers expert advice for pairing the proper JULABO temperature control solution to their specific application. JULABO service and support options include installation and calibration, equipment qualification documentation and application training. These invaluable services ensure customer confidence in the operation and maintenance of any JULABO unit.

Custom requirements - custom products

JULABO's wide range of products provide a solution for almost any application. If no standard product can be used for a specific requirement, our specialists will work out a custom solution together with you.





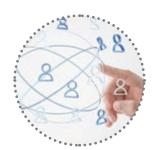
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Satisfied customers.

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



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