

JULABO Circulators Comparison

Need to heat things up or cool them down? We offer highly precise laboratory circulators for internal and external applications of all sizes. With our rapid heat-up and cool-down times, you'll experience seamless transitions between tasks and samples. All models feature a front drain tap that makes emptying the bath tank safe and easy. Explore the options or contact us to find the ideal circulator for your needs.



CORIO C

CORIO CD

CORIO CP

DYNEO DD

MAGIO MS

MAGIO MX

Temp Range 1 (Heating Circulators)	+20 °C ... +100 °C	+20 °C ... +150 °C	+20 °C ... +200 °C	+20 °C ... +200 °C	+20 °C ... +300 °C	+20 °C ... +300 °C
Temp Range 2 (Refrigerated Circulators)		-20 °C/-40 °C ... +150 °C	-20 °C/-50 °C ... +200 °C	-20 °C/-50 °C ... +200 °C	-30 °C/-50 °C ... +200 °C	-50 °C ... +200 °C
Temperature Stability	± 0.03 °C	± 0.03 °C	± 0.02 °C	± 0.01 °C	± 0.01 °C	± 0.01 °C
Heating Capacity (kW) 115V / 230V	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	3 (230V only)
Pump Capacity Flow Rate	6 l/min set	15 l/min set	8 ... 27 l/min adjustable	8 ... 27 l/min adjustable	16 ... 31 l/min adjustable	16 ... 31 l/min adjustable
Pump Capacity (psi)	1.5	5.1	1.5 ... 10.2	1.5 ... 10.2	3.5 ... 13.3 (pressure) 0.44 ... 5.8 (suction)	3.5 ... 13.3 (pressure) 0.44 ... 5.8 (suction)
Temperature Display	LED	LED	LED	3.5" TFT Display	7" TFT Touchscreen	7" TFT Touchscreen
Temperature Setting	Keypad	Keypad	Keypad	Rotary Knob	Touchscreen	Touchscreen
Integrated Programmer	-	-	-	8x60 Steps	8x60 Steps	8x60 Steps
Pt100 Connection	-	-	-	Yes	Yes	Yes

Interfaces	-	USB	USB RS232	USB (RS232 or Analog Connection available as option)	USB RS232 or RS485 Ethernet or Modbus (Analog Connection available as Accessory)	USB RS232 or RS485 Ethernet or Modbus (Analog Connection available as Accessory)
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Product Highlights	Heating Circulators for standard and routine lab tasks with water in the internal bath	Heating and Refrigerated Circulators for easy tasks in combination with small external applications	Equal to CORIO CD + <ul style="list-style-type: none"> • Wider working temp range • More powerful, adjustable pump for faster temp changes • RS232 Connectivity 	Equal to CORIO CP + <ul style="list-style-type: none"> • Pt100 Connection for temperature measurement in external application • Multi-step programmability • Programmable band limit to reduce thermal stress in external applications (ie. glass reactors) 	Equal to DYNEO DD + <ul style="list-style-type: none"> • Extra-large touchscreen • Powerful pressure/suction pump for applications with up to 5 ... 10L medium in external circuit • All wetted components made from stainless steel • Possibility of adding +6 kW heating capacity on 230V units ONLY 	Equal to MAGIO MS + <ul style="list-style-type: none"> • 3 kW heating capacity • Most powerful cooling units with 1800 or 2500 watts @20 °C • Immersion depth of 200 mm
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Minimum and maximum temperature values depend on several factors, including bath fluid, pump speed, ambient temperature, and others. Counter-cooling may be required to maintain the lower temperature listed for heating circulators. The lower temperature range for some refrigerated circulators will vary depending on the type of chiller used. Also, the external application temperature will differ from the temperature provided by the circulator due to process conditions like tubing length, insulation, total mass of bath fluid + application, and others. Please consult your JULABO Account Manager for more information or calculations.