

# JULABO CIRCULATORS IN COMPARISON



	CORIO C	CORIO CD	CORIO CP	DYNEO DD	MAGIO MS	MAGIO MX
Temperature range 1 <sup>Ⓛ</sup> (Heating circulators)	+20...+100°C	+20...+150°C	+20...+200°C	+20...+200°C	+20...+300°C	+20...+300°C
Temperature range 2 <sup>Ⓛ</sup> (Refrigerated circulators)	-	-20/-40...+150°C	-20/-50...+200°C	-20/-50...+200°C	-30/-50...+200°C	-50...+200°C
Temperature stability	±0.03°C	±0.03°C	±0.02°C	±0.01°C	±0.01°C	±0.01°C
Heating capacity	2 kW	2 kW	2 kW	2 kW	2 kW	3 kW
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	0.1 bar	0.35 bar	0.1...0.7 bar	0.1...0.7 bar	0.24...0.92 bar (pressure) 0.03...0.4 bar (suction)	0.24...0.92 bar (pressure) 0.03...0.4 bar (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 Ethernet (Analog connection available as accessory)	USB RS232 Ethernet (Analog connection available as accessory)
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 + - Wider working temperature range - More powerful, adjustable pump for faster temperature changes - RS232 connectivity	Equal to CORIO CP + - Pt100 connection for temperature measurement in external application - Multi-step programmability - Programmable band limit to reduce thermal stress in external applications (e.g. glass reactors)	Equal to DYNEO DD + - Extra-large touchscreen - Powerful pressure/suction pump for applications with up to 5 ... 10 l medium in external circuit - All parts being in contact with the medium made of stainless steel - Possibility of adding +6 kW heating capacity	Equal to MAGIO MS + - 3 kW heating capacity - most powerful cooling units with 1800 or 2500 watts @20 °C - Immersion depth of 200 mm

<sup>Ⓛ</sup> Minium and maximum temperature values are dependant from several factors like used bath fluid, pump speed, ambient temperature and many more. Also, the temperature in the external application will be different from the temperature provided by the refrigerated/heating circulator, depending on process specifications like tubing length, insulation, total medium mass and others. Please consult our JULABO experts for more information or calculations.