

Recirculating Chillers

BRC-03, BRC-05, BRC-10 & BRC-20



Redesigned for Improved Performance

The BEING BRC Series cooling/heating recirculating chillers provide continuously reliable and stable laboratory temperature control for a wide range of applications like medical diagnostic equipment, rotary evaporators, vacuum systems, plasma etching, laser etching, and jacketed reactors, to name a few.

Construction Features

- Available in 4 sizes: 5L, 8L, 15.5L, and 30L
- Corrosion-resistant stainless steel chamber and heater
 - Maintenance-free operation
 - Rounded corners for quick and easy cleaning
- Independent circulating pump switch
 - Easy switching between internal and external circulating modes
 - Easy cycle starting/stopping
- Air-cooled heat exchanger with front accessible air filter for quick and easy cleaning
- DC magnetic vortex pump
 - Low noise emissions
 - High flow rate output
- Energy-efficient condenser using eco-friendly refrigerant (R404A / R410A)

Performance Features

- Temperature Range: -20°C to 20°C
- Max. Flow Rate: 17 L/min
- Max. Pump Head: 15 meters
- Max. Pump Pressure: 22 psi / 152 kPa

Controller Features

- PID automatic control provides accurate and reliable temperature control
- Large intuitive LCD display
- Automatic power on/off
- Compressor lock-out prevents over cycling of the compressor
- Programmable function
 - Fixed value program
 - Multi-step: 8 programs, 8 steps
 - Untimed and timed programs
 - Program time from 1 minute to 99 hours 59 minutes

Safety Features

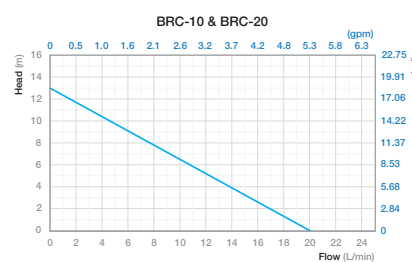
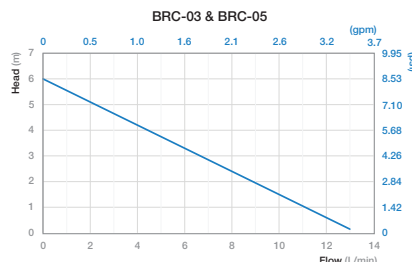
- Independent over-temperature protection meets DIN 12880 International standard requirements
- Temperature limit protection
- Over-current protection
- Power off memory

Intelligent controller with bright, easy-to-understand LCD display.



Push-to-connect fittings provide swiveling and secure, quick, and easy tubing connection.

Easily accessible circuit breaker powers and protects the chiller.



BEING Scientific Inc.

Specifications

Model				BRC-03	BRC-05	BRC-10	BRC-20
Reservoir Capacity	Total Storage Volume (L)			5	8	15.5	30
	Cooling Fluid Volume (L)			3.5	5.2	13	25
Operating Conditions*	Environment Temperature Range			41°F to 95°F / 5°C to 35°C			
	Relative Humidity (%RH)			≤65			
Cooling Features	Lowest Temp Without Load			-20°C			
	Temperature Range			-4°F to 68°F / -20°C to 20°C			
	Temperature Stability			± 2°C			
	Cooling Capacity	@20°C	W	580	900	1800	2800
		@10°C		530	800	1500	2500
		@0°C		470	730	1400	2100
		@-10°C		300	570	1000	1900
		@-20°C		100	250	500	900
	Refrigerant			R404A		R410A	
Electrical	Whole unit power (W)			550	600	1300	1600
	Power Requirement			115VAC / 60Hz			208-230VAC / 60Hz
	Plug Type			NEMA 5-15			NEMA 6-15
Safety Features				Delay, leakage, overcurrent, overvoltage			
Pump	Pump Type			DC Magnetic Drive Vortex			
	Recirculating Pump Power (W)			30		60	
	Pump Flow Rate (L/min)			6		17	
	Max. Pump Head (m)			9		15	
	Pump max pressure (psi / kPa)			13 / 90		22 / 152	
	Inlet/Outlet Tube OD (mm)			Ø10 (DN15)		Ø12 (DN15)	
	Inlet/Outlet Fitting Type			Push-to-Connect			
Noise (dB)				≤45		≤55	≤65
Feet / Casters				Feet	Locking Casters		
Dimensions	Reservoir	H x W x D	(in / mm)	9.5 x 5.9 x 5.9 240 x 150 x 150	9.5 x 7.9 x 6.7 240 x 200 x 170	10.6 x 9.5 x 9.5 270 x 240 x 240	13.8 x 13.8 x 9.8 350 x 350 x 250
	Exterior			9.1 x 17.7 x 21.1 230 x 450 x 536	12.4 x 17.9 x 24.6 315 x 455 x 624	15.8 x 19.7 x 32.1 400 x 500 x 814	17.7 x 23.6 x 35.3 450 x 600 x 896
Weight (lb / Kg)				70.6 / 32	90.4 / 41	132.3 / 60	167.6 / 76
Catalog Number				BRC15103U	BRC15105U	BRC15110U	BRC15120C

*Optimal performance is achieved when the environmental temperature is at 20°C - 22°C (68°F - 72°F). Higher temperatures, as well as higher relative humidity, will reduce the unit's cooling capacity and efficiency.

† Excluding Casters