

Recirculating Chillers

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



Redesigned for Improved Performance – and the environment

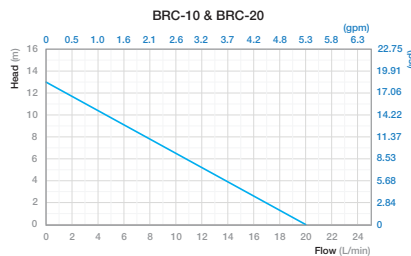
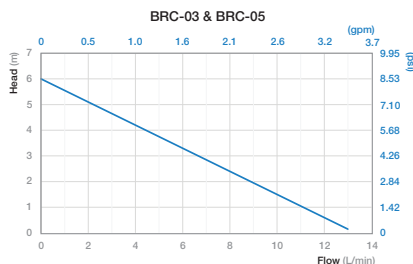
The BEING BRC Series cooling/heating recirculating chillers provide continuously reliable and stable laboratory temperature control for a wide range of applications, including medical diagnostic equipment, rotary evaporators, vacuum systems, plasma etching, laser etching, and jacketed reactors. The BRC-03, BRC-05, and BRC-10 have also been designed to meet the EPA refrigerant regulations.

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 (R290 / 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

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



Safety Features

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



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	
Catalog Number			BRC15103U	BRC15105U	BRC15110U	BRC15120C	
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				
	Altitude		6,562 / 2,000				
Lowest Temp Without Load			-20°C				
Temperature Range			-4°F to 68°F / -20°C to 20°C				
Temperature Stability			± 2°C				
Cooling Features	Cooling Capacity	W	@20°C	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
			Compressor		1/2 Hp Reciprocating		1 Hp Reciprocating
Refrigerant		Type		R290		R410A	
Charge (g)		90	150	150	1050		
GWP		3		1924			
Whole unit power (W)			550	600	1300	1600	
Electrical	Power Requirement		115VAC / 60Hz			208-230VAC / 60Hz	
	Plug Type		NEMA 5-15			NEMA 6-15	
Safety Features			Delay, leakage, overcurrent, overvoltage				
Pump Type			DC Magnetic Drive Vortex				
Pump	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†		21.1 x 9.1 x 17.7 536 x 230 x 450	24.6 x 12.4 x 17.9 624 x 315 x 455	32.1 x 15.8 x 19.7 814 x 400 x 500	35.3 x 17.7 x 23.6 896 x 450 x 600	
Weight (lb / Kg)			70.6 / 32	90.4 / 41	132.3 / 60	167.6 / 76	

NOTE: All specifications listed are based on testing done at 25°C.

*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 and higher altitude, will reduce the unit's cooling capacity and efficiency.

† Including Casters