

Cooling Water Circulator (Externally Closed Circulation)

Powerful closed cooling system

CF/311C/810C

Operating temp. range -20°C~Room temp.

Capacity 4L CF311C 16L CF810C

Closed system and water saving with excellent cooling capacity and water-saving



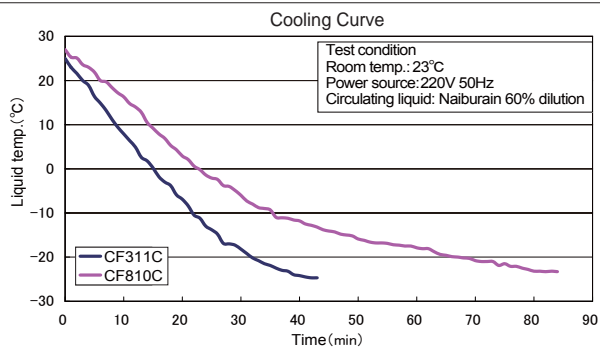
Through the refrigerator and circulating pump steadily provide cooling water for closed cooling parts of research instrument, analysis and measuring instruments, industrial machine etc.

- Environment friendly coolant used for refrigeration.
- Waterproof control panel with big LED display and sheet key for easier setting.
- Equipped with overcurrent ELB, refrigerator overload relay, pump overheat protector, refrigerator delay timer of protection.

Specifications

Model	CF311C	CF810C
Circulation type	Closed circulation	
Operational ambient temperature	5~35°C	
Operating temp. range	-20°C ~ Room temperature	
Cooling capacity	Approx. 450W (385Kcal/h) at liquid temp. 10°C Approx. 360W (300Kcal/h) at liquid temp. 0°C Approx. 270W (220Kcal/h) at liquid temp. -10°C	Approx. 1050W (770Kcal/h) at liquid temp. 10°C Approx. 910W (600Kcal/h) at liquid temp. 0°C Approx. 670W (410Kcal/h) at liquid temp. -10°C
Temp. control	Refrigerator ON/OFF control	
Temp. sensor	T-Thermocouple	
Temp. setting / Display	Digital setting / LED display	
Refrigerator	Air cooling, 450W	Air cooling, 600W
Coolant	R404A	
Circulation pump	Magnet pump 10/15W	Magnet pump 65/65W
Circulation capacity (50/60Hz)	Max. flow rate	6.3 / 7.2L/min
	Pump max. flow rate	12.8 / 14.3L/min
	Max. lift	4.0 / 5.6m
	Pump max. lift	4.1 / 5.7m
Cooling Coil	Nickel plated copper	
External circulation nozzle	O.D. 10.5mm for in and out with hose nipple	
Safety device	Electric leakage breaker, Refrigerator over load relay, Pump thermal protector, Refrigerator-protection delay timer	
Other functions	Drain, over flow	
External linkage terminal	-	-
Socket	-	5A socket
Water bath dimension	ø151x177mm	ø300xH235mm
Water bath material	SUS304	
Water bath capacity	Approx. 4L (Liquid amount 3L)	Approx. 16L (Liquid amount 14L)
Power source (50/60Hz)	AC220V 3A	AC220V 7A
External dimension (WxDxH mm)	228x508x546	350x480x840
Weight	Approx. 32kg	Approx. 54kg
Accessories	Circulation hose (1.5m) x2, Wire clampx2, Cover	

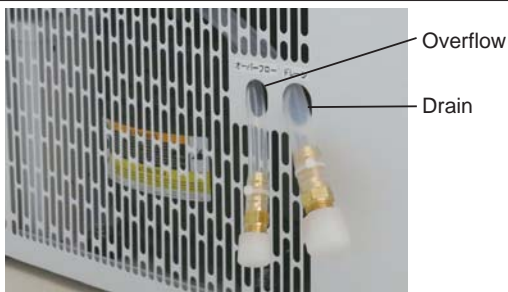
Cooling Curve



Control Panel



Drain, Overflow (Left Side)



External Circulation Nozzle (rear of CF810C)



Optional items



Circulation insulation hose



Straight circulation nozzle



One touch rotation L-shaped nozzle

Optional Items

Product code	Product name	Specifications
221581	Circulation insulation hose	ø9 2mx2pcs
221596	Straight circulation nozzle	ø8 Rc3/8
221394		ø10.5 Rc3/8
221399		ø13 Rc3/8
221395		ø16 Rc/8
221681	One touch fixing holder	ø10.5 Straight 2pcs/set
221682		ø13.7 Straight 2pcs/set
221683		ø10.5 L shape 2pcs/set
221684		ø13.7 L shape 2pcs/set
281440	Cast fixing holder	4pcs/set



Installation of one touch rotation L shape nozzle