

Water Circulator (Chiller)

Powerful closed circulation system

CF-302LA/312LA

Operating temp. range

-20°C~30°C

Capacity

3.9L (Liquid volume 3.5L)



- User-friendly controller
- Easy maintenance of air intake filter
- Rotatable connector which can freely be moved and be set in the desired orientation
- Convenient drainage of waste water
- Environment friendly coolant used for refrigeration
- Features calibration offset function which compensates for discrepancy between actual liquid temperature and display temperature
- Auto resume function allows user to select whether to resume operation or to remain at standby at the time of recovery from power failures
- Compact and space-saving to fit on laboratory tables and limited space

Specifications

Model	CF-302LA	CF-312LA
System/circulating water	Closed circulation/tap water, anti-freeze solution (below 10°C)	
Operating ambient temperature	5 to 35°C	
Temp. setting range ¹	-20°C ~ 30°C	
Temperature control accuracy (JTM K05) ²	±1.0 °C (≥ 0°C) ±1.5 °C (≥ 0°C)	
Temperature fluctuation (JIS) ²	3.0 °C (≥ 0°C) 4.0 °C (≥ 0°C)	
Cooling capacity (liquid temp) ²	~420W at liquid temp. 10°C ~280W at liquid temp. -10°C	
Max. flow rate ³	~ 10L/min.	
Max. head ³	~ 5.7m	
Temperature control system	Refrigeration ON-OFF	
Temperature sensor	PT100Ω	
Controller	White LED digital display, key entry, minimum digit of 1°C	
Refrigerator system/rated performance	Air cooling/450W	
Refrigerant	R404A	
Cooling Coil	Copper/Nickel plating	
External circulation connection port	One touch connector (swivel type, L type) / Flow rate valve (optional)	
Circulation pump	15W	20W
Safety device	Overcurrent ELCB, temperature sensor failure, temperature upper/lower limit alert, temperature upper/lower limit error, refrigerator high pressure cut off switch fan motor protection, circulation pump protection, delay timer for refrigerator protection	
Other functions	Drain hose, condensate drain hose, Intake dust filter, cooling operation key, circulating pump key, calibration offset, Auto resume function	
Water bath material	Stainless steel	
Water bath capacity	~3.9L (Liquid volume 3.5L)	
Power source	AC115V 7.5A	AC220V 4A
External dimension (WxDxH) (including protrusions)	205 x 396 x 535 mm 225 x 434 x 564 mm	
Power cable	2m with plug	2m with ring terminals
Weight	~31kg	
Accessories	Condensate drain hose(1m)(1), Hose clamp (2), Hose nozzle (for flexible hose connection)(2)	

¹ Unit does not feature heating function. Depending on ambient temperature or connection conditions, temperature may not reach -20°C.

² Performance based on 115V/220V supplied power and 20°C ambient temperature. Temperature control accuracy and temperature fluctuation are standards calculated according to JTM K05 and JIS respectively.

³ Pump performance based on tap water at 20°C

Replacement Parts

Product code	Product name	Standard
LT00039314	One touch connector (L-type)	R3/8
LT00039316	Hose nozzle	10 mm OD connectors for flexible hose with 9 mm I.D.
CF30243000	Intake dust filter	Front air intake
CF30241060	Drain plug	For 12mm ID hose
LT00007489	Silicon hose	φ12 × φ16 mm 1.0 m Condensate drain hose (included)

Optional Parts

Product code	Product name	Standard
LT00036771	Strainer	20 mesh
LT00039454	Inner collar	Applicable hose: φ6.5 × φ10 mm