

## Low Temp. Circulation Bath PFR-1000/PFP-1000



PFP-1000+PFR-1000

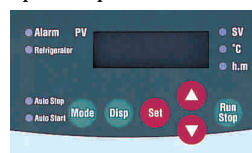
### Features

- Low temperature, multi-use bath at -45°C.
- Combined with Circulating Pump PFP-1000, it can be used as low temperature circulation system.
- Large volume bath in compact, slim size (320mm W) unit.
- Combined with optional Pre-freezer PFM-1000 (Sample vessel rotation device), it will also serve as spare freezing bath.
- Timer function (Auto-start, Auto-stop) is equipped as standard which realizes efficient time use.

### Specifications

Product Name	Low Temperature Circulating Bath
Model	PFR-1000
Cat.No.	197410
Voltage	100V
Cooling capacity	360W (at liquid temp. -20°C) 310W (at liquid temp. -30°C)
Temperature control	chiller ON-OFF control
Setting temp., display	Sheet key input, digital display
Safety features	Self diagnosis function, Leakage/overload braker, circuit protector for service terminal, Chiller protection timer
Additional function	Timer function (Auto-start, Auto-stop)
Chiller	600W R404A
Cooling coil	Copper nickel plating
Bath material	SUS304, 14L
Inner bath size (mm)	210W*360D*190H
Effective size (mm)	180W*330D*180H
Ambient temperature	5-35°C
Dimension (mm)	320W*550D*920H
Net weight	49kg
Input power	800/900VA

### Operation panel



### Option



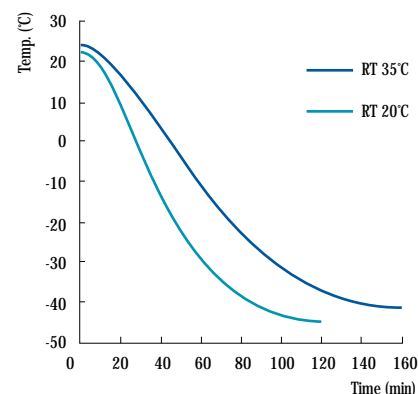
#### Pre-freezer PFM-1000

Optional unit which can be used as spare freezing bath in freeze drying process. Solvents in the vessel can be frozen on vessel inner surface in thin film shape. Maximum 2L flask can be attached.

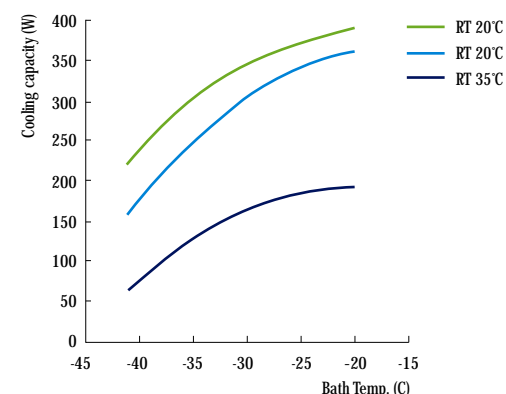
Product Name	Circulating Pump
Model	PFP-1000
Cat.No.	197430
Voltage	100V
Max. flow	8/12L/min. (50/60Hz)
Max. head	3/4m (50/60Hz)
Motor	90W
External circulation nozzle	OD 10.5mm
Dimension (mm)	322W*353D*335H
Net weight	3.5kg
Input power	100VA

### Data

#### ■ Cooling curve



#### ■ Cooling capacity



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## Stirrer, Shaker

Stirrer MAZELA Z-1110 series \_\_\_\_\_ P.70

Compact Stirrer MAZELA NZ series \_\_\_\_\_ P.71

Compact Stirrer MAZELA Z-2100 · 2200 · 2300 \_\_\_\_\_ P.72

Related products of Stirrers \_\_\_\_\_ P.73

Optional Accessories \_\_\_\_\_ P.74

Magnetic Stirrer RC-2 · RCN-3D \_\_\_\_\_ P.75

Magnetic Stirrer with Heater RCH-3 · 3L

Magnetic Stirrer RCX-1000S · 1000D · 1000H \_\_\_\_\_ P.76

Magnetic Stirrer with Heater ERC-1000H · ITP-1000 \_\_\_\_\_ P.77

Water Bath Shaker NTS-4000BM · CM · CH \_\_\_\_\_ P.78

Platform type Multi Shaker MMS-110 · 210 · 3010 · 510 · 5010 \_\_\_\_\_ P.79

Multi Funnel Shaker MMV-1000W \_\_\_\_\_ P.80

