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# Refrigerated Water Circulator

Model: **Stereo 100**



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# Stereo 100 Refrigerated Water Circulator



Stereo 100, as an optimized refrigerated water circulator for heating and cooling, effectively keeps the temperature constant under required conditions and the temperature can be adjustable between -20°C and 80°C with the precise stability of +/- 0.1°C. Stereo 100, a single set of equipment, can be used not only with the rotary evaporators for cooling but with the viscometers or saccharometers for keeping the temperature constant. Its compact size also enables installation/use of a refrigerated water circulator even in a cramped space.

## Features

### Convenience

- Easy to read the operation status on a digital LCD display.
- Flat-type top plate for better utilization of space.
- Elegant and modern design.
- Equipped with the high quality casters for greater mobility.
- Easy-to-open front grill for cleaning of the condenser.
- Built-in drain unit.

### Control System

- The control panel with a jog shuttle for a more accurate/easier temperature setting.
- Precise temperature control enabled by a temperature correction function.
- Automatic shutdown of the cooling compressor, if it is set to be 5°C higher than current temperature.

### Stability

- The liquid level sensor triggers an automatic alarm & shutdown if the bath liquid needs to be replenished.
- Protective functions against lack of liquid, overheating and refrigerator overcurrent.
- Use of environment-friendly refrigerant.

### Applicability

- Strong cooling capacity offers effective supply of cooling water to the connected equipment such as rotavapors, soxhlet apparatus and multi-stage pretreatment systems.
- PID control technology keeps the temperature constant in a precise and stable manner, a function required for viscometers and refractometers.



## Key Points



Hose nipple for connecting a circulation hose



Easy to control on a digital LCD display



### Rotavapor Test (Example)

Liquid	Distilled Water
Capacity	1 L
Conditions	20°C (Indoor Temp.) 220V/60Hz
Bath Temp.	60°C
Vacuum	50 mbar
Result	The maximum temp. was not higher than 15°C when distilled under the conditions specified above.



Convenient drain and high quality casters



Easy-to-open front grill for cleaning of the condenser

## Specifications

Display	Current Temp. / Set Temp.	
	Cooling / Heating / Error	
Bath Volume	4.8 L	
Display Panel	3" LCD	
Temperature	Setting Control	Jog shuttle
	Temp. Range	- 20°C ~ 80°C
	Stability	+/- 0.1°C
	Control Type	PID
Refrigerator	Cooling Capacity	420 W (361 Kcal/h)
	Type	Air-cooled enclosed
	Refrigerant	R-134a

Pump	Type	Mechanical seal pump
	Circulation Capacity	Max. : 15 L/min Pump : 30 L/min
Hose Connections		Ext. Diameter : 13mm or 8mm
Dimensions		W330 x D470 x H480mm
Net Weight		36 kg
Voltage		220V/230V
Frequency		60Hz
Heater		1,200 W
Power Consumption		1,600 W (Max.)

\*\*The data above was measured under certain conditions (room temp. : 20°C / rated power : 220V/60Hz / no-load) and is subject to change depending on the environment and the type of liquid.