LABSTAC

# REFRIGERATED BATH CIRCULATOR

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# REFRIGERATED BATH CIRCULATOR

Energy-saving performance and reduces heat generation to the environment and it has modern, sleek and attractive design. Oil Bath Circulators are ideally used for high temperature organic distillation, calibration tests, external circulation and high temperature experiments in all types of industries.
Used in High temperature organic distillation, External circulation, Calibration tests, High temperature experiments, Laboratory.
Also known as Cooling Bath Circulator, Refrigerated Circulator, Laboratory Refrigerated Bath Circulator.

## **TR11 SERIES** RECIRCULATING CHILLER

- Adopt high-brightness LCD screens.
- Leakage protector.
- Circuating water pump.
- Micro-computer optimized PID control.

### SPECIFICATIONS

| Model | TR111 | TR112 | TR113 |
|---|---|---|---|
| Capacity | 4.5 L | 10.5 L | 15.6 L |
| Temperature Range | -20°C~20°C(without heater) | | |
| Working Room Temperature | 5°C~35°C | | |
| Display Accuracy | 1°C | | |
| Temperature Control Accuracy | ±1°C | | |
| Temperature Uniformity | ±1°C | | |
| Maximum lift | 4.2 m | 10.3 m | |
| Maximum Flow Rate | 14 L / min | 16.5 L / min | - |
| Temperature Control Method | Fuzzy logistic PID control method | | |
| External Circulating Water Gap | Tubing with outside diameter being 11 mm | | Tubing with outside diameter being 18 mm |
| Inner Dimension (WxDxH) | 152Wx192Dx153H mm | 162Wx332Dx193H mm | 187Wx392Dx213H mm |
| Outer Dimension (WxDxH) | 237Wx455Dx665H mm | 297Wx590Dx705H mm | 413Wx705x765H mm |
| Weight | 34 kg | 45 kg | 52 kg |
| Convection Method | Closed Circulating | | |
| Refrigerant | R134a | R22 | |
| Refrigerating Power | 358 W | 600 W | 725 W |

| | |
|---|---|
| Power Supply | AC 220 V 50 / 60 HZ |

# **TR12 SERIES** LOW TEMPERATURE CIRCULATOR

- Submerged controller apply fuzzy logistic PID control, high brightness LCD, which is able to display time, date and system information for facilitating the operation.
- It is easy to maintain and clean condenser to improve the refrigerating performance and save energy.
- RS232 interface.
- The fluid can be discharged easily for the cleaning and maintenance of incubator.
- Condenser coil is designed around for guaranteeing the even temperature inside the incubator.
- Professional human mechanical design is applied to improve the comfort.
- The circulator applies high quality cold rolling plate sprayed with Dupont powder. The inner bag applies SUS304 stainless plate cut with laser.
- The combined use of refrigerator and heater makes the temperature range wider and temperature control more accurate. High precision temperature control can be conducted.
- Strong external circulation and cooling capacity; the pump power can be controlled electronically to guarantee the best heat exchange effect.
- An air filter screen is installed to the air intake at the bottom of control panel, which is used to effectively prevent the suction of ash and maintain the internal part clean.
- Apply fuzzy logistic PID control, high brightness LCD, which is able to display time, date and system information for facilitating the operation.
- Devices for electrical leakage protection, power down recovery, water level alarm, independent over temperature protection, upper limit and lower limit alarm of temperature etc. are provided to guarantee the safety of operation.

## SPECIFICATIONS

| Model | TR121 | TR122 | TR123 |
|---|---|---|---|
| Capacity | 6 L | 8.8 L | 15.6 L |
| Temperature Range | -20°C to 95°C | | |
| Temperature Accuracy | 0.1°C | | |
| Temperature Control Accuracy | ±0.1°C | | |
| Temperature Stability | ±0.2°C | | |
| Ambient Temperature | 5°C~35°C | | |
| Pump Flow Rate | 5 L / min | | |
| Maximum lift | 1.5 m | | |
| Mixing Inside Bath | Spouting mixing | | |
| Temperature Control Method | Fuzzy logistic PID control method | | |
| External Circulating Water Gap | Tubing with outside diameter being 11 mm | | Tubing with outside diameter being 18 mm |
| Inner Dimension (WxDxH) | 152Wx262Dx153H mm | 152Wx302Dx193H mm | 187Wx392Dx213H mm |

| | | | |
|---|---|---|---|
| Outer Dimension (WxDxH) | 297Wx550Dx750H mm | 297Wx590Dx770H mm | 413Wx705Dx790H mm |
| Weight | 32 kg | 36 kg | 45 kg |
| Refrigerant | R134a | R22 | |
| Refrigerating Power | 425 W | 600 W | 725 W |
| Heating Power | 2000 W | | |
| Power Supply | AC-220 V, 50/60 Hz | | |

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