

# Heating Bath Circulators (General)



## Performance

- Temperature range from ambient +5°C to 150°C.
- Microprocessor PID control.
- Three point temperature calibration / Automatic tuning / Automatic run.
- Accurate, stable, and efficient temperature management by using a powerful variable-speed pump. (1 to 3 steps of pump for internal circulation and 4 to 5 steps for external circulation)
- Powerful pump pressure and flow rate throughout the whole temperature range.

## Convenience

- Bright VFD display with quick adjustable dial knob. (0.1°C resolution)
- Dual wait on/off timer modes. (1 min. to 99 hr. 59 min.)
- Convenient memory function of up to three frequently set temperature.
- Corrosion-resistant, leak-proof, round-cornered, and easy-to-clean stainless steel bath with easy access drain valve.
- Built-in RS-232 port and USB port for external control and data collection.
- Side handles enables convenience handling and transport.

## Safety

- Isolated design of agitator, heater, and sensor by a baffle plate to minimize the turbulence in the bath fluid and also to protect users and samples against direct contact
- Complete safety protection system with warning alarms.
  - Low fluid level and dry-running, over-temperature, over-current.
- Keypad lock function prevents accidental changes during operation.

## External and internal circulation with powerful pumping capability



**REMOTE CONTROL**  
with your **MOBILE DEVICE**  
see page 8-9



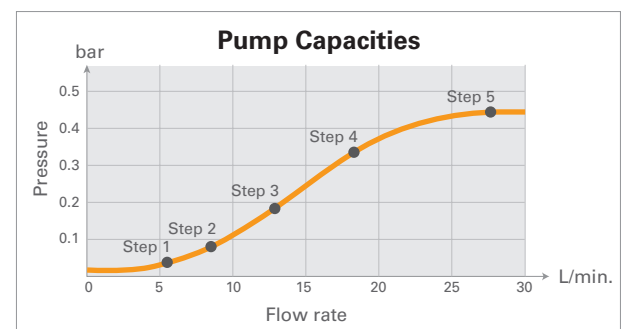
## CW3-10

### Standard accessories

- Stainless steel flat cover
- Silicone rubber tubing (305mm length / 12mm inner dia.)

### Optional accessories

- Test tube racks, Spring wire racks
- Gateway



\* Bath fluid : Water at the normal temperature.

| Model   | CW3-05                                    | CW3-10                                    | CW3-20                       | CW3-30                       |
|---|---|---|------------------------------|------------------------------|
| Bath volume (L / cu ft)                           | 5 / 0.2                                   | 10 / 0.4                                  | 20 / 0.7                     | 30 / 1.1                     |
| Working temperature range <sup>2)</sup> (°C / °F) | Amb. +5 to 150 / Amb. +9 to 302           |   |                              |                              |
| Temperature stability <sup>1)</sup> (±°C / °F)    | 0.05 / 0.09                               |   |                              |                              |
| Pump  | Max. pressure                             | 5.9 PSI (406.8 millibar)                  |                              |                              |
|   | Max. flow rate                            | 28 liters / minute (7.4 gallons / minute) |                              |                              |
| Dimension   | Bath opening / depth (WxL, D) (mm / inch) | 150×99, 160 / 5.9×3.9, 6.3                | 211×154, 180 / 8.3×6.1, 7.1  | 290×214, 200 / 11.4×8.4, 7.9 |
|   | Exterior (WxLxH) (mm / inch)              | 228×395×424 / 8.9×15.6×16.7               | 289×450×444 / 11.4×17.7×17.5 | 368×510×464 / 14.5×20.1×18.3 |
|   | Net weight (kg / lbs)                     | 12.5 / 27.6                               | 15 / 33                      | 17.5 / 38.6                  |
| Electrical requirements (230V, 50/60 Hz)          | 8.5A                                      |   |                              |                              |
| Cat. No.  | AAH52341K                                 | AAH52351K                                 | AAH52361K                    | AAH52371K                    |
| Electrical requirements (120V, 60 Hz)             | 8.6A                                      |   |                              |                              |
| Cat. No.  | AAH52342U                                 | AAH52352U                                 | AAH52362U                    | AAH52372U                    |

1) Technical data according to DIN 12876. (bath fluid : water at 50°C)

2) If you operate the unit in 1 to 3 steps of pump, the temperature range can be from Amb. +5°C but in 4 and 5 steps, the range will be from Amb. +15°C.

\* FDA establishment registered company. FDA listed products.