

Peltier-Type Thermoelectric Bath

Accurately controls the temperature of liquid in the bath.

Square type liquid bath is newly added to the product lineup.

Temperature stability **$\pm 0.02^{\circ}\text{C}$ to $\pm 0.03^{\circ}\text{C}$**

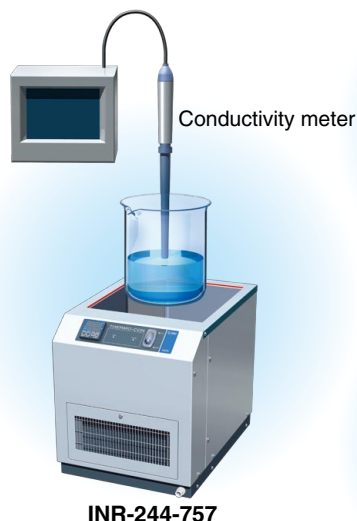
Compact Lightweight **22 kg** (INR-244-757)

Current consumption **3.5 A to 6 A**

Power supply voltage **100 VAC to 240 VAC**
(Except for some models)



Application Examples



Temperature control of sample and reagent



Temperature control of source gas for MO-CVD or diffusion furnace



Related Products

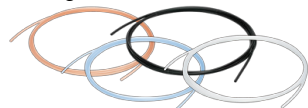
Fluoropolymer piping equipment
Fittings Series **LQ1/LQ3**



Bore through connector Series **LQHB**



Tubing Series **TL/TLM**



Process gas equipment
Regulator



Diaphragm valve



For details about related products, refer to the SMC website.

Variations



| Model | Usable constant temperature liquid | Cooling method | Cooling capacity | Tank capacity | Temperature range | Temperature stability |
|-------|---|----------------|------------------|---------------|-------------------|----------------------------|
| | Water | Water-cooled | 140 W | Approx. 10 L | 0 to 60°C | $\pm 0.03^{\circ}\text{C}$ |
| | | | 320 W | | | |
| | Ethylene glycol aqueous solution | Water-cooled | 320 W | Approx. 23 L | 0 to 60°C | $\pm 0.03^{\circ}\text{C}$ |
| | | | | Approx. 39 L | | |
| | Fluorinated fluid (Square type can be used only at normal temperature.) | Air-cooled | 220 W | Approx. 17 L | 0 to 60°C | $\pm 0.03^{\circ}\text{C}$ |
| | | | | Approx. 3 L | | |
| | | Water-cooled | 280 W | Approx. 5.5 L | -15 to 60°C | $\pm 0.02^{\circ}\text{C}$ |
| | | | | | | |



* 280 W-cooling capacity model is added to the round type liquid bath.






P-E12-20A



Peltier-Type Thermoelectric Bath Lineup

|   <p>(INR-244-733)</p> | Specifications | | Square type, water-cooled | | | |
|--|--------------------------------------|-----------------------------------|---------------------------|-----------------------------------|-------------|--|
| | Model | INR-244-745 | INR-244-733 | INR-244-747 | INR-244-736 | |
| | Cooling method | Peltier, Water-cooled | | Peltier, Water-cooled | | |
| | Cooling capacity* | 140 W (at 20°C Water) | | 320 W (at 20°C Water) | | |
| | Dimensions (W x D x H) | 266 x 376 x 400 mm | | 266 x 376 x 400 mm | | |
| | Tank capacity (W x D x H) | 216 x 216 x 250 mm (Approx. 10 L) | | 216 x 216 x 250 mm (Approx. 10 L) | | |
| | Weight | Approx. 15.5 kg | | Approx. 16.5 kg | | |
| | Power supply voltage range | 100 VAC to 240 VAC | | 100 VAC to 240 VAC | | |
| | Rated current (at 100 VAC) | 3.5 A | | 5.5 A | | |
| | Liquid temperature range | 0 to 60°C | | 0 to 60°C | | |
| | Temperature stability | ±0.03°C | | ±0.03°C | | |
| Communications | RS-232C | RS-485 | RS-232C | RS-485 | | |
| Safety standards | CE marking, UL (NRTL) standard, RoHS | | | | | |

|   <p>(INR-244-749)</p> | Specifications | | Square type, water-cooled | | | |
|--|--------------------------------------|-----------------------------------|---------------------------|-----------------------------------|-------------|--|
| | Model | INR-244-746 | INR-244-734 | INR-244-749 | INR-244-748 | |
| | Cooling method | Peltier, Water-cooled | | Peltier, Water-cooled | | |
| | Cooling capacity* | 320 W (at 25°C Water) | | 320 W (at 25°C Water) | | |
| | Dimensions (W x D x H) | 350 x 510 x 400 mm | | 350 x 510 x 550 mm | | |
| | Tank capacity (W x D x H) | 300 x 350 x 250 mm (Approx. 23 L) | | 300 x 350 x 400 mm (Approx. 39 L) | | |
| | Weight | Approx. 21 kg | | Approx. 25 kg | | |
| | Power supply voltage range | 100 VAC to 240 VAC | | 100 VAC to 240 VAC | | |
| | Rated current (at 100 VAC) | 5.5 A | | 5.5 A | | |
| | Liquid temperature range | 0 to 60°C | | 0 to 60°C | | |
| | Temperature stability | ±0.03°C | | ±0.03°C | | |
| Communications | RS-232C | RS-485 | RS-232C | RS-485 | | |
| Safety standards | CE marking, UL (NRTL) standard, RoHS | | | | | |

|   | Specifications | | Square type, air-cooled | | | |
|--|----------------------------|---|-------------------------|--|--|--|
| | Model | INR-244-757 | | | | |
| | Cooling method | Peltier, Air-cooled | | | | |
| | Cooling capacity | 220 W (at 25°C Water, Ambient temperature 25°C) | | | | |
| | Dimensions (W x D x H) | 350 x 460 x 395 mm | | | | |
| | Tank capacity (W x D x H) | 300 x 290 x 200 mm (Approx. 17 L) | | | | |
| | Weight | Approx. 22 kg | | | | |
| | Power supply voltage range | 100 VAC to 240 VAC | | | | |
| | Rated current (at 100 VAC) | 6 A | | | | |
| | Liquid temperature range | 0 to 60°C | | | | |
| | Temperature stability | ±0.03°C | | | | |
| Communications | RS-232C | | | | | |
| Safety standards | RoHS | | | | | |

|  | Specifications | | Round type, water-cooled/Remote controller | | | |
|---|--------------------------------------|--------------------------------|--|-------------------------------|--|--|
| | Model | HEBC002-WA10/HEBC002-WB10 | | | | |
| | Cooling method | Peltier, Water-cooled | | | | |
| | Cooling capacity* | 140 W (at 25°C Water) | | | | |
| | Dimensions (W x D x H) | Liquid tank 200 x 207 x 332 mm | | Controller 250 x 300 x 180 mm | | |
| | Tank capacity | ø130 x 188 mm (Approx. 3 L) | | — | | |
| | Weight | Approx. 8.5 kg | | Approx. 6.5 kg | | |
| | Power supply voltage range | 100 VAC to 240 VAC | | | | |
| | Rated current (at 100 VAC) | 4 A | | | | |
| | Liquid temperature range | -15 to 60°C | | | | |
| | Temperature stability | ±0.02°C | | | | |
| Communications | RS-485/RS-232C | | | | | |
| Safety standards | CE marking, UL (NRTL) standard, RoHS | | | | | |

|   | Specifications | | Round type, water-cooled/Remote controller | | | |
|---|----------------------------|--------------------------------|--|-------------------------------|--|--|
| | Model | INR-244-696A | | | | |
| | Cooling method | Peltier, Water-cooled | | | | |
| | Cooling capacity* | 280 W (at 25°C Water) | | | | |
| | Dimensions (W x D x H) | Liquid tank 240 x 240 x 350 mm | | Controller 220 x 330 x 123 mm | | |
| | Tank capacity | ø170 x 202 mm (Approx. 5.5 L) | | — | | |
| | Weight | Approx. 12 kg | | Approx. 5 kg | | |
| | Power supply voltage range | 200 VAC to 220 VAC | | | | |
| | Rated current (at 200 VAC) | 5 A | | | | |
| | Liquid temperature range | -15 to 60°C | | | | |
| | Temperature stability | ±0.02°C | | | | |
| Communications | RS-485 | | | | | |
| Safety standards | RoHS | | | | | |

* Conditions: Facility water temperature 20°C, flow rate 5 L/min, ambient temperature 25°C