

# Shaking Water Baths by GFL are untiring

## ■ Precision in series

GFL Shaking Water Baths are regarded as untiring all-purpose experts. Our product range is designed for precise heating-up processes and, simultaneously, gentle mixing or vigorous shaking.

Models 1083, 1086 (with reciprocating motion) and 1092 (with orbital motion) are equipped with digital display of temperature and, according to the specifications, with digital display of shaking frequency and a cooling coil.



## 1083

### Technical Data

#### Temperature range:

approx. 5 °C above ambient to +99.9 °C

with water level regulator 1919: approx.

3 °C above tap water temperature to +99.9 °C

Temperature constancy (temporal):  $\pm 0,1$  °C

Shaking motion: reciprocating,  
with on / off switch

Shaking amplitude: 22 mm

Exterior dimensions (W x D x H):

715 x 520 x 330 mm

Net / gross weight: 28 / 32 kg

Packing volume: approx. 0.29 m<sup>3</sup>

■ Order No. 1083

## Specifications and Features

- ▶ Microprocessor-controlled temperature regulation ensures fast heating up to the set temperature and an excellent temperature constancy:  $\pm 0.1$  °C, temporal
- ▶ Optimum temperature distribution throughout the whole bath interior
- ▶ Temperature display and setting digitally via LED display, in 0.1 °C increments. Fast and exact setting, exact reproducibility of the preset temperature
- ▶ Electronic monitoring of the temperature controller. In case of a fault, the cause is displayed on the LED.
- ▶ Over-temperature cut-out: electronic, 4 °C above set temperature, and electro-mechanical > 130 °C
- ▶ Constant shaking frequency, independent of load, even when in continuous operation
- ▶ Maintenance-free and durable shaking device, electronically controlled and continuously settable shaking motion, gentle start-up. In models 1083 and 1086, the shaking device is guided on corrosion-resistant special ball bearings.
- ▶ Easily removable shaking rack
- ▶ Bath interior and shaking rack made of stainless steel
- ▶ No dripping back of condensate into the vessels due to double-walled insulating lid with interior camber
- ▶ Drain cock to empty the bath

## Applications

Whenever exactly reproducible temperatures are required for shaking tasks, our Shaking Water Baths are used by standard and research laboratories. Their scope of applications comprises incubations, fermentations, homogenisations, chemical and biochemical reactions, enzyme and tissue studies.

## 1092

### Technical Data

**Temperature range:**

approx. 5 °C above ambient to +80 °C

with water level regulator 1919: approx.

3 °C above tap water temperature to +80 °C

**Temperature range:** +10 °C to +80 °C

**Cooling coil:** built-in as standard, for connection to the water mains or to an external recirculating chiller

**Temperature constancy (temporal):** ±0,1 °C

**Shaking motion:** orbital, with on / off switch

**Shaking amplitude:** 14 mm

**Shaking frequency display:** digital-LED

**Exterior dimensions (W x D x H):**

635 x 505 x 400 mm

**Net / gross weight:** 35 / 40 kg

**Packing volume:** approx. 0.34 m<sup>3</sup>

■ **Order No. 1092**



## 1086

### Technical Data

**Temperature range:**

approx. 5 °C above ambient to +99.9 °C

with water level regulator 1919: approx.

3 °C above tap water temperature to +99.9 °C

**Temperature range:** +10 °C to +99.9 °C

**Cooling coil:** built-in as standard, for connection to the water mains or to an external recirculating chiller

**Temperature constancy (temporal):** ±0,1 °C

**Shaking motion:** reciprocating, with on / off switch

**Shaking amplitude:** 22 mm

**Shaking frequency display:** digital-LED

**Exterior dimensions (W x D x H):**

715 x 520 x 330 mm

**Net / gross weight:** 30 / 34 kg

**Packing volume:** approx. 0.29 m<sup>3</sup>

■ **Order No. 1086**



### Additional technical data of models 1083 / 1086 / 1092

**Interior dimensions (W x D x H):** 450 x 300 x 160 mm

**Volume of bath interior:** approx. 20 litres

**Working height (incl. lid):** 190 mm

**Max. water level above shaking cage / tray:** 105 mm / 90 mm

**Shaking frequency:** from 10 - 250 rpm

**Over-temperature cut-out:** electronic, 4 °C above set temperature, and electro-mechanical > 130 °C

**Housing:** corrosion-resistant, made of electrolytically galvanised sheet steel, powder-coated

**Electrical connection:** 230 V / 50...60 Hz / 1.5 kW \*  
\* Other voltages on request

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