
Orbital and Reciprocating Water Baths



General Purpose Water Baths



Boekel "Hot Tubs" General Purpose Water Baths

The Boekel line of General Purpose Water Baths offers a variety of sizes to meet all of your needs and is ideal for general lab applications. The space saving design allows for the most efficient use of your bench space and the PID Controller makes for easy temperature selection, rapid heat-up and excellent stability.



- These water baths can also be used as a boiling water bath. User simply sets temperature into "boiling mode".
**Note: Stainless steel gabled covers are required for use when water bath is placed in boiling mode.
- Programmable timer, up to 99hrs, 59mins. Bath will stop heating when timed mode is completed.
- PID controller for easy temperature selection, rapid heat-up and excellent stability ($\pm 0.1^{\circ}\text{C}$).
- 3 point factory programmed temperature calibration for accurate temperature control throughout the operating temperature range.
- Temperature set in 0.1°C increments up to 100.0°C
- Seamless, passivated stainless steel tank; includes stainless steel diffuser tray/shelf.
- Recessed control panel - protects against spills
- Polycarbonate lid included with purchase of water bath
- Large LED display can be clearly seen from a distance
- Adjustable over temperature safety cutout
- Space saving design
- 2 year manufacturers factory warranty on parts and labor

Boekel Orbital and Reciprocating Water Bath

This Shaking Water Bath with Orbital and Reciprocating shaking is designed for a wide range of temperature-controlled shaking protocols. It features a high quality, robust design with a unique magnetically coupled shaking mechanism for maximum reliability, consistency and quiet operation.



- Switch from orbital to reciprocating mode simply by reversing the tray.
- 3 Point factory programmed temperature calibration throughout temperature range.
- PID Controller for easy temperature selection, rapid heat up and excellent stability $\pm 0.1^{\circ}\text{C}$.
- Programmable timer up to 99 hrs, 59 min – Bath stops heating when timed operation is completed.
- Adjustable speed control from 20-200 RPM (in 1 RPM increments).
- Convenient drain port with quick disconnect allows for easy cleaning of the bath.
- Choose from a variety of trays to maximize your versatility. The following trays available for your bath are: Universal Tray, Test Tube Tray and a Perforated Tray. The Perforated Tray allows the bath to be used as a General Purpose Water Bath.
- Included with each Bath is a polycarbonate lid and a two year manufacturer's factory warranty.

Orbital and Reciprocating Water Baths

- Northern and Southern hybridizations
- De-staining of gels
- Incubation of cells or bacterial cultures
- Wash processes



All trays sold separately.
See Accessories on the back page.

General Purpose Water Baths

- General purpose water baths offer excellent performance and are ideal for general lab applications.
- The special “boiling mode” is a convenient feature for melting agar and other applications requiring boiling temperature.



See Accessories on the back page.

	Orbital and Reciprocating Water Baths		General Purpose Water Baths		
Volume:	28L		6L	14L	28L
Model No.:	290400 (115V) 290400-2 (230V)		290100 (115V) 290100-2 (230V)	290200 (115V) 290200-2 (230V)	290300 (115V) 290300-2 (230V)
Temperature Range:	Ambient +5° to 99°C		ambient +5°C to 100°C* or Boiling Mode	ambient +5°C to 100°C* or Boiling Mode	ambient +5°C to 100°C* or Boiling Mode
Temperature Setting Range:	0°C to 100°C in 0.1 °C increments		0°C to 100°C in 0.1 °C increments or Boiling Mode	0°C to 100°C in 0.1 °C increments or Boiling Mode	0°C to 100°C in 0.1 °C increments or Boiling Mode
Stability:	+0.1°C		+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C
Temp. Setting Display:	digital/four digit LED		digital/four digit LED	digital/four digit LED	digital/four digit LED
Display Resolution:	0.1 °C		0.1 °C	0.1 °C	0.1 °C
Timer:	Timer “ON”, timer is settable up to 99hrs. 59min. or “OFF” mode to operate bath without timer.		Timer “ON”, timer is settable up to 99hrs. 59min. or “OFF” mode to operate bath without timer.	Timer “ON”, timer is settable up to 99hrs. 59min. or “OFF” mode to operate bath without timer.	Timer “ON”, timer is settable up to 99hrs. 59min. or “OFF” mode to operate bath without timer.
Tank Dimensions:	30.0cm x 50.5cm x 19.0cm (11 3/4” x 20” x 7 1/2”)		30.0cm x 15.0cm x 14.0cm (11 3/4” x 6” x 5 1/2”)	30.0cm x 32.5cm x 17.0cm (11 3/4” x 12 3/4 x 5 3/4)	30.0cm x 50.5cm x 19.0cm (11 3/4” x 20” x 7 1/2”)
Product Dimensions (w x d x h):	33 cm x 55.9 cm x 35.6 cm (13” x 22” x 14”)		33.66cm x 20.96cm x 25cm (13.25” x 8.25” x 9.88”)	33.66cm x 38.43cm x 24.46cm (13.25” x 15.13” x 9.63”)	33.66cm x 56.21cm x 29.54cm (13.25” x 22.13” x 11.63”)
Bath Height w/ Polycarb Cover:	43.50cm / 17.13”		39.07cm / 15.38”	39.37cm / 15.5”	43.50cm / 17.13”
Net Weight:	15.4 kg (34 lb)		3.3 kg (7 1/4 lb)	6.3 kg (13 3/4 lb)	10.7 kg (23 3/4 lb)
Shipping Weight:	20.4 kg (45 lb)		6.3 kg (14 lb)	9.9 kg (22 lb)	14.0 kg (31 lb)
Electrical:	115 Vac, 50/60 Hz** 230 Vac, 50/60 Hz (CE)		115VAC; 50/60Hz** 230 Vac, 50/60 Hz (CE)	115VAC; 50/60Hz** 230 Vac, 50/60 Hz (CE)	115VAC; 50/60Hz** 230 Vac, 50/60 Hz (CE)

Accessories for Orbital and Reciprocating Water Baths

Model 290410



Model 290420



MODEL NO. 290410 UNIVERSAL FLASK TRAY

Holds any of the various sized flasks as described below.

FLASK QTY.	FLASK SIZE
26	25 ml
26	50 ml
15	100 ml
11	250 ml
6	500 ml
3	1 L

MODEL NO. 290420 TEST TUBE TRAY

Holds up to five test tube racks. Test tube racks available in different sizes.

CATALOG NO.	TUBE SIZE
290421	48 x 10mm tubes
290422	44 x 13mm tubes
290423	24 x 16mm tubes
290424	21 x 19mm tubes
290425	12 x 25mm tubes
290426	10 x 30mm tubes

MODEL NO. 290430 PERFORATED TRAY (NOT SHOWN)

The perforated tray replaces the Universal Flask Tray, providing a platform on which vessels or racks can be placed, for use as a general purpose water bath.

Accessories for General Purpose Water Baths

STAINLESS STEEL GABLED COVERS (NOT SHOWN)

Gabled Covers direct condensed water to edge and back into the tank.

****NOTE:** Stainless steel gabled covers are required for use when the water bath is placed in boiling mode.

For Water Bath Model	S.S. Lid Catalog #	Lid Dimensions (cm)	Net Wt.	Shipping Wt.
290100	290120	17.0cm x 32.0cm x 9.2cm	1 kg (2 1/4 lb)	1.3 kg (3 lb)
290200	290220	34.5cm x 32.0cm x 9.2cm	2 kg (4 1/2 lb)	2.4 kg (5.5 lb)
290300	290320	52.0cm x 32.0cm x 9.2cm	2.5 kg (5 1/2 lb)	5.8 kg (13 lb)

POLYPROPYLENE SPHERES (NOT SHOWN)

Polypropylene spheres are an alternative to a lid; they minimize evaporation and heat loss, allow easy access to vessels in the bath, and they are particularly useful for tall vessels.

Water Bath Model No.	No. of packs of Polypropylene Spheres (300/Pack) Catalog No. 290155
290100 / 290100-2	1 x Pack
290200 / 290200-2	1 x Pack
290300 / 290300-2	2 x Packs



855 Pennsylvania Boulevard • Feasterville, PA 19053 USA
800-336-6929 • Phone: 215-396-8200 • Fax: 215-396-8264
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