



Patent Pending

Boekel Orbital and Reciprocating Water Bath

Introduction

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.

This unique shaking mechanism allows for both orbital and linear shaking in one product by simply changing the orientation of the shaking tray from one mode to the other.

Additional features include a PID microprocessor temperature and speed controller, a digital timer capable of 99 hours and 59 minutes as well as a user settable over temperature safety cut-out. This unit is supplied with a polycarbonate lid.

Applications

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

Features

- 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 + 0.1°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.

Specifications

Temperature Range:	Ambient +5° to 99°C
Stability:	+0.1°C
Uniformity:	+0.1°C
Speed range:	20 to 200 rpm
Orbital radius:	10 mm
Linear stroke length	20mm
Temperature setting/display:	Digital/LED
Temperature display resolution:	0.1°C
Shaking speed setting/display:	Digital/LED
Shaking speed display resolution:	1 rpm
Timer:	Timer “ON”, timer is settable up to 99hrs. 59min. or “OFF” mode to operate bath without timer.
Overall dimensions (w x l x h):	33 cm x 55.9 cm x 35.6 cm (13” x 22” x 14”)
Electrical:	115 Vac, 50/60 Hz** 230 Vac, 50/60 Hz (CE)
Weight:	15.4 kg (34 lb)

**Unit conforms to UL 61010A-1 and CSA C22.2 No 1010

Ordering Information

Model No.

290400

290400-2

All trays sold separately

Catalog Description

Orbital and Reciprocating Water Bath 115v, 50/60 hz

Orbital and Reciprocating Water Bath 230v, 50/60 hz

Choose Your Tray(s)

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

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.

Optional Lid

MODEL NO. 290320

STAINLESS STEEL GABLED COVER

Please note that a lid is recommended for use above 60°C and below room temperature. The stainless steel gabled lid directs condensation to the edges of the bath to prevent it from dripping into open flasks.