

digital dry bath

SERIES

User Guide

EN



Trademarks

All product and company names are trademarks™ or registered® trademarks of their respective holders. Use of the trademark(s) in this document does not imply any affiliation with or endorsements by the trademark holder(s).

TABLE OF CONTENTS

Introduction	4
Specifications	4
General Safety Precautions	5
Installation	5
Operation	6
Calibration	8
Maintenance	9
Error Code On the Display	9
Ordering Information	10
Warranty	11

Introduction

The Digital Dry Bath Series provides precise, uniform heating through interchangeable aluminum blocks (1, 2, or 4 blocks depending on the model) and advanced microprocessor control. Its digital LED display allows for quick and easy adjustment of temperature and timer settings. With a wide range of available aluminum blocks, the Digital Dry Bath can accommodate and evenly heat various laboratory vessels, including microtubes, test tubes, microplates, PCR strips, and other small containers. A block lifter is included with each unit for safe and convenient handling of aluminum blocks. Blocks are sold separately and can be selected to meet your specific application requirements.

Specifications

DIGITAL DRY BATH SERIES	ONE-BLOCK DIGITAL DRY BATH PN 36110300	TWO-BLOCK DIGITAL DRY BATH PN 36110400	FOUR-BLOCK DIGITAL DRY BATH PN 36110500
Block Capacity	1 block	2 blocks	4 blocks
Temperature Range	Ambient +5°C to 150°C		Ambient +5°C to 130°C
Temperature Increments	0.1°C		
Temperature Uniformity	±0.2°C		
Temperature Accuracy	±0.2°C		
Timer	Off or 1–999 minutes in one minute increments		
Dimensions (W x D x H)	20 x 23 x 8 cm 7.8 x 9 x 3 in.	22 x 26 x 8 cm 8.7 x 10.3 x 3.2 in.	22 x 35.5 x 8 cm 8.7 x 14 x 3.2 in.
Wattage	200W	400W	600W

SPECIFICATIONS CONTINUED ON PAGE 5

DIGITAL DRY BATH SERIES	ONE-BLOCK DIGITAL DRY BATH PN 36110300	TWO-BLOCK DIGITAL DRY BATH PN 36110400	FOUR-BLOCK DIGITAL DRY BATH PN 36110500
Weight	2.2 kg / 4.8 lb.	2.5 kg / 5.5 lb.	3.5 kg / 7.7 lb.
Electrical	115V or 230V / 50-60Hz		
Warranty	2 years		

General Safety Precautions

For efficient setup and proper operation, it is necessary to read this manual carefully and follow its instructions.



Ensure that the local voltage matches the voltage of the instrument.

Hot surfaces, especially on the block, can cause serious injury or burns.

Do not put water or liquids into the dry bath well as shock, or serious injury may occur.

Do not heat flammable or explosive substances as serious injury may occur.

Installation

- Remove the dry bath and any accessories from the box.
 - Keep all packing materials until the unit is shown to be in good working order.
 - Check the label on the back of dry baths to ensure a unit of the proper voltage has been received.
- Place the dry bath on a clean, stable surface near a properly grounded electrical outlet and away from air vents, and equipment exhaust vents.

3. Locate the power switch on the back of the bath and turn it to the off position.
4. Plug the dry bath into the electrical outlet.

NOTE

If the voltage is not appropriate, do not use the dry bath and contact your local Gilson Service Center.

Operation

1. Insert the block(s) into the heating well using the block lifter.
2. Use the switch on the back of the unit and turn the power on.
3. The dry bath will make a “beep” sound.

Each digit on the display will light briefly, from left to right and the LED lamps will light while the unit performs a self test. After the self test, the display will show the actual temperature of the block, and begin heating to the set temperature. While the unit is heating the Heating lamp will flash.

CAUTION

Blocks may be hot.

Setting the Temperature

Block temperature is set by using the ▲ and ▼ arrow buttons. Temperature can be set in tenths of a degree. Once the temperature is set, the display will revert to showing actual temperature and the Heating lamp will flash until the set temperature has been reached.

NOTE



The temperature setting is automatically remembered if power is turned off or interrupted.

Setting the Timer


The dry bath has a built-in, independent, digital timer function that alerts the user with a “beep” alarm when the set time has elapsed.

CAUTION

The timer is completely independent of the heating function and does NOT turn off the heater when set time is reached.

1. Press the **Mode** button to illuminate the **Timer** lamp.
2. Use the  and  arrow buttons to set the desired time in one minute increments.

After time has been set, there will be a short delay of three seconds. The bath will then beep and the timer will start to count down. The display will revert to showing the block temperature and the red Timer lamp will be extinguished. When the display shows the block temperature, pressing the **Mode** button will cause the display to show the remaining time in minutes. When time has expired, the dry bath will “beep”, the red Heating lamp will flash, and the display will show “oVer”. Sample heating will be unaffected.

Press the **Mode** button to start the timed cycle over again or press the  arrow to return the display to the current block temperature without restarting the timer.

It is recommended to allow the dry bath to reach the desired temperature before setting and using the timer function. Because the timer does not affect sample heating, it can only be used as a general purpose timer. It can also be used for timing other lab activities.



NOTE

The time setting is saved if the power is turned off or interrupted.

Calibration

The Gilson Digital Dry Bath Series is highly accurate and calibrated at the factory to certified standards. Should calibration be required to laboratory standards, it should only be attempted by using certified temperature-sensing equipment.

To calibrate the dry bath:

1. Turn the dry bath off using the power switch on the back of the unit.
2. Press and hold the **Mode** button.
3. Turn the power on, continuing to hold the **Mode** button.
4. The digits on the display will light in succession. The current temperature will then be shown with the right most digit flashing. Release the **Mode** button when the digit begins to flash.
5. Set the temperature at which you wish to calibrate the unit using the  and  arrow buttons.
6. Press and release the **Mode** button. The unit will start heating to the set calibration temperature.
7. Allow 45 minutes for the dry bath to equilibrate at the set temperature. The digit on the right will begin flashing again when the dry bath has equilibrated at the calibration temperature.

8. After the display begins flashing, use a certified reference thermometer or temperature sensor to check the block or sample temperature. If the reference thermometer shows a different temperature than the display, use the ▲ and ▼ arrow buttons to change the display to match the reference thermometer.
9. After making any necessary adjustments, press **Mode** to exit the calibration mode. The dry bath is now calibrated to the reference thermometer at the selected temperature point and ready for operation.

Maintenance

The dry baths are electrical instruments and care must be taken in their handling. Clean any spills immediately. Keep the unit clean by wiping with a soft, damp cloth.

NOTICE

Do not immerse the unit in water. Avoid the use of organic solvents.

NOTE

No routine maintenance is required.

Blocks can be cleaned by wiping with a soft cloth. Wells in the block may be cleaned with a cotton swab dipped in alcohol.

Error Code On the Display

The dry baths are not designed to operate in temperatures below 4°C. Should the dry bath sense an ambient temperature below 0°C, ERR will appear in the display. If the display shows ERR and the ambient temperature is above 0°C, the unit requires service.

Ordering Information

PART NUMBER	DESCRIPTION
36110300	One-Block Digital Dry Bath 115V, US Cord
36110310	One-Block Digital Dry Bath, 230V, EU and UK Cord
36110330	One-Block Digital Dry Bath, 230V, AU Cord
36110400	Two-Block Digital Dry Bath 115V, US Cord
36110410	Two-Block Digital Dry Bath, 230V, EU and UK Cord
36110430	Two-Block Digital Dry Bath, 230V, AU Cord
36110500	Four-Block Digital Dry Bath 115V, US Cord
36110510	Four-Block Digital Dry Bath, 230V, EU and UK Cord
36110530	Four-Block Digital Dry Bath, 230V, AU Cord

Accessories

Use of the dry bath requires a block to hold samples. Gilson offers a variety of blocks to accommodate many sample containers. Custom blocks are also available.



Liquids should never be placed into the dry bath chamber.

PART NUMBER	DESCRIPTION
36117100	Solid Block (for slides / machining)
36117110	Custom drilling for Solid Block for slides / machining (sold separately), up to 36 holes
36117120	Block, 48 x 0.2 ml tubes or 6 PCR strips of 8 tubes each
36117130	Block, 24 x 1.5 ml centrifuge tubes (conical)
36117140	Block, 24 x 1.5 ml (or 2.0 ml centrifuge tubes)

ACCESSORIES CONTINUED ON PAGE 11

PART NUMBER	DESCRIPTION
36117150	Block, 24 x 0.5 ml centrifuge tubes
36117160	Block, 12 x 5.0 ml centrifuge tubes (17 mm diameter)
36117170	Block, 12 x 15 ml centrifuge tubes
36117180	Block, 20 x 10 mm test tubes (or 20 x 2.0 ml centrifuge tubes)
36117190	Block, 2 x 12 mm (or 13 mm test tubes)
36117200	Block, 5 x 50 ml centrifuge tubes
36117210	Block, 12 x 15-16 mm test tubes (or 12 x 10 mL)
36117220	Q-FLIP Block - Side 1: 24X1,5/2,0ml & 14X0,5ml - Side 2: 48X0,2ml (or 6XPCR Strips or 1 PCR Plate)
36117230	Block, PCR plate 96 x 0.2 ml, skirted or non-skirted For one block dry bath only
36117240	Block, PCR plate 96 x 0.2 ml, skirted or non-skirted For two or four-blocks dry bath only
36117250	Block, Microplates, skirted or non-skirted For two or four-blocks dry bath only
36117260	Block, x48 hematocrit tubes, 1.9 mm (not compatible with cover)
36117270	Block, x30 NMR tubes

Warranty

Gilson warrants this instrument against defects in material under normal use and service for two years from the date of purchase. This warranty is valid only if the instrument is used in the manner described in this guide and for the purpose for which it is designed. Gilson is not responsible for consequential damages resulting from the misuse or bad cleaning or decontamination of this instrument. Enclose with the returned instrument a description of the problem that has occurred.

Specifications subject to change without notification — errors excepted. Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under copyright laws.

gilson.com/contactus

LT318598-02 | ©2026 Gilson, Inc. All rights reserved.

