



Baths

WB-5
5.5 Liter



WB-Series, For Full Visibility Of Samples

Features:

- Low-cost fully compatible substitute for expensive Water Bath.
- Seamless transparent polycarbonate tank-with stands temperature 120°C.
- Fast-Acting thermostat also serves as low-water-level protector, preventing heating-element burn-out & fire hazard.
- **Temperature setting in °C from ambient to +100°C**
- Temperature control accuracy of approximately $\pm 1^\circ\text{C}$ ensures precise test conditions
- Robust & reliable – designed for years of trouble-free service.

WBS-14
14 Liter



Options: WB-Special:
According to customer dimensions

Removable Modular Heating
Assembly enables convenient cleaning of all parts
& makes it usable in other vessels.



WBS-5
5.5 Liter



WBS-Series, With Safety Thermostat

These Water Baths are identical to the WB models but are equipped with an additional Safety Thermostat.

Temp. Range: from slightly above ambient to +100°C (with cover) Accuracy: approx.: 0.3°C at 37°C (depending on operating conditions). Voltage: 230 V, 50 Hz (or 120 V, 50/60 Hz).					Accessories		
Standard model	Bath capacity (Liters)	Inside dim's (cm) W1xD1xH1	Outside dim's (cm) W2xD2xH2	Watts	Bath cover model	Floating balls model	Evaporation lid model
WB-3	2.7	10 x 17 x 10	15 x 31 x 24	500	C-3	FB-3	-
WB-4	4.5	13 x 31 x 13	16 x 41 x 24	600	C-4	FB-4	-
WB-5	5.5	16 x 20 x 11	22 x 34 x 24	750	C-5	FB-5	EL-5
WB-7	7.0	16 x 30 x 11	22 x 44 x 24	1000	C-7	FB-7	-
WB-8	8.5	12 x 21.5 x 36.5	16 x 27.2 x 42.5	1000	C-8	FB-8	-
WB-11	11.0	30 x 18 x 15.5	35.5 x 23 x 19	1200	C-11	FB-11	-
WB-14	14.0	21 x 37 x 20	28 x 50 x 30	1500	C-14	FB-14	EL-14
WB-30	30	32 x 51 x 18	38 x 66 x 24	*2000	C-30	FB-30	EL-30/8/11

With safety thermostat model	Bath capacity (Liters)	Inside dim's (cm) W1xD1xH1	Outside dim's (cm) W2xD2xH2	Watts	Bath cover model	Floating balls model	Evaporation lid model
WBS-3	2.7	10 x 17 x 10	15 x 31 x 24	500	C-3	FB-3	-
WBS-4	4.5	13 x 31 x 13	16 x 41 x 24	600	C-4	FB-4	-
WBS-5	5.5	16 x 20 x 11	22 x 34 x 24	750	C-5	FB-5	EL-5
WBS-7	7.0	16 x 30 x 11	22 x 44 x 24	1000	C-7	FB-7	-
WBS-8	8.5	12 x 21.5 x 36.5	16 x 27.2 x 42.5	1000	C-8	FB-8	-
WBS-11	11.0	30 x 18 x 15.5	35.5 x 23 x 19	1200	C-11	FB-11	-
WBS-14	14.0	21 x 37 x 20	28 x 50 x 30	1500	C-14	FB-14	EL-14
WBS-30	30	32 x 51 x 18	38 x 66 x 24	*2000	C-30	FB-30	EL-30/8/11

*1500W at 120V



WBS-xD-R



WBS-D Series: With Digital Control

C-7

Transparent Polycarbonate Thermostatic Bath

Digital: Temperature control accuracy of approximately $\pm 0.2^{\circ}\text{C}$ ensures precise test conditions.

WBS-7D
7 Liter

Temp. Range: from slightly above ambient to $+100^{\circ}\text{C}$ (with cover) Accuracy: approx.: 0.3°C at 37°C (depending on operating conditions) Voltage: 230 V, 50 Hz (or 120 V, 50/60 Hz).					Accessories		
Digital model	Bath capacity (Liters)	Inside dim's (cm) W1xD1xH1	Outside dim's (cm) W2xD2xH2	Watts	Bath cover model	Floating balls model	Evaporation lid model
WBS-3D	2.7	10 x 17 x 10	15 x 31 x 24	500	C-3	FB-3	-
WBS-4D	4.5	13 x 31 x 13	16 x 41 x 24	600	C-4	FB-4	-
WBS-5D	5.5	16 x 20 x 11	22 x 34 x 24	750	C-5	FB-5	EL-5
WBS-7D	7.0	16 x 30 x 11	22 x 44 x 24	1000	C-7	FB-7	-
WBS-8D	8.5	12 x 21.5 x 36.5	16 x 27.2 x 42.5	1000	C-8	FB-8	-
WBS-11D	11.0	30 x 18 x 15.5	35.5 x 23 x 19	1200	C-11	FB-11	-
WBS-14D	14.0	21 x 37 x 20	28 x 50 x 30	1500	C-14	FB-14	EL-14
WBS-30D	30	32 x 51 x 18	38 x 66 x 24	*2000	C-30	FB-30	EL-30/8/11

Digital model right side	Bath capacity (Liters)	Inside dim's (cm) W1xD1xH1	Outside dim's (cm) W2xD2xH2	Watts	Bath cover model	Floating balls model	Evaporation lid model
WBS-3D-R	2.7	10 x 17 x 10	15 x 31 x 24	500	C-3	FB-3	-
WBS-4D-R	4.5	13 x 31 x 13	16 x 41 x 24	600	C-4	FB-4	-
WBS-5D-R	5.5	16 x 20 x 11	22 x 34 x 24	750	C-5	FB-5	EL-5
WBS-7D-R	7.0	16 x 30 x 11	22 x 44 x 24	1000	C-7	FB-7	-
WBS-8D-R	8.5	12 x 21.5 x 36.5	16 x 27.2 x 42.5	1000	C-8	FB-8	-
WBS-11D-R	11.0	30 x 18 x 15.5	35.5 x 23 x 19	1200	C-11	FB-11	-
WBS-14D-R	14.0	21 x 37 x 20	28 x 50 x 30	1500	C-14	FB-14	EL-14
WBS-30D-R	30	32 x 51 x 18	38 x 66 x 24	*2000	C-30	FB-30	EL-30/8/11

*1500W at 120V



WB
Balls Blanket

Accessories:

Floating balls:

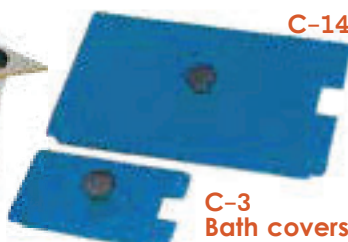
A balls blanket of Floating Polypropylene Balls is most effective for reducing evaporation & loss of heat from the Water Bath. The Balls act as effectively as a lid (flat or gabled), while enabling immersion and removal of flasks & other vessels without having to lift a lid. Usable UP to 110°C .

Evaporation lids: Evaporation Lids (EL) for use with WB and WBS Baths. Each Lid has openings equipped with concentric rings.

The rings reduce the diameters of the openings to accommodate containers of all sizes. The EL-5 Lids, for use with WB(S)-5 Baths, have four 80mm diameter openings.

WBST/WBSTD-60X20 S.S Tank Analog/Digital

Volume: 60L
Type: Uncirculated
Temp. Range ($^{\circ}\text{C}$):
ambient to $+100^{\circ}\text{C}$
Internal Size (mm):
W180xD600xH480



C-3
Bath covers



EL-30/8

SWB23-2

**Applications:**

- Sample Thawing.
- Bacteriological Examinations.
- Warming Reagents.
- Coliform Determinations.
- Microbiological Assays.

Precise Temperature Control:

- Over Temperature Protection
- Temperature Uniformity $\pm 0.2\%$ at 37°C
- Temperature Range Ambient + 5°C to 80°C
- Coated tanks available for applications up to 80°C

SWB-SERIES, Water Baths Digital Series

The MRC high-performance water baths are accurate, easy to use, safe and durable. The water bath design incorporates a drip free cover holster and pocket handles so users can easily transport the water bath.

A microprocessor achieves precise temperature control regardless of how the unit is loaded. Calibration is performed with the convenient, front panel touch pad, which is essential for facilities concerned with IQ/OQ/PQ validation.

MRC was the first to introduce the noncontact recessed heating element design to the analytical research market. This curtails element burnout and eliminates tank hot spots that are chronic challenges for other water baths.

The MRC digital water baths remain an industry standard for precise control and quality of design. The MRC constant temperature digital water baths are perfect for conducting a host of applications including: bacteriological examinations, food processing/QC procedures and microbiology assays just to name a few.

Features:

- Easy-to-Clean Stainless Steel Tank.
- Pocket Handles for Easy Lifting.
- Recessed Heating Element Prevents "Burnout".
- Unique Design Eliminates "Hot Spots".
- Thermomixer Clip Included

Model	SWB2 SWB2-2	SWB7 SWB7-2	SWB15 SWB15-2	SWB23 SWB23-2
Exterior Dimensions (wxdxh)	38.1 x 30.5 x 22.3 cm	38.8 x 30.5 x 22.9 cm	38.1 x 48.3 x 22.9 cm	38.1 x 64.2 x 22.9 cm
Bath Tank Dimensions (wxdxh)	29.8 x 14.6 x 6.3 cm	29.8 x 15.2 x 15.2 cm	29.8 x 33.0 x 15.2 cm	29.2 x 49.5 x 15.8 cm
Tank Capacity	2L	7L	15L	23L
Stainless Steel Gable Cover(s)	One Included	One Included	One Included	One Included

SWBR17/27-2, Water Shaking Baths

SWBR27-2

**Features:**

- Independent Oscillation and Temperature Controls
- Adjustable Stroke Length
- Platform Tray Included
- Recessed Heating Element Prevents "Burnout"
- Unique MRC Design Eliminates "Hot Spots"
- Thermometer Clip Included.

Flask Holder Accessories Maximum Capacity:

Part Number	Flask Size	SWBR17-2	SWBR27-2
9530528	25ml	22	56
9530529	50ml	18	42
9530530	125ml	9	21
9530531	250ml	8	15
9530526	500ml	5	11
9530532	1000ml	3	7
9530551	2000ml	1	4
9530560	5000ml	1	2
9530553	2.8liter	1	2
9530554	4liter	1	2
9530555	6liter	1	2

Shaking Water Baths (also known as Reciprocating Water Baths), are designed to handle a wide variety of applications. These baths can be used effectively in molecular biology protocols (such as hybridization), bacterial culturing, as well as in solubility and metabolism studies. The MRC Reciprocating Water Baths are designed to deliver precise temperature control and a smooth reciprocal shaking motion.

The oscillator control is independent, allowing the baths to also be used for regular constant temperature water bath applications such as thawing, warming reagents, or general incubation. The Shaking Water Baths offer an adjustable stroke length (0.5", 1" or 1.5"), giving the user the ability to choose the degree of agitation. With a RPM range of 20-200, these versatile reciprocating water baths are sure to meet many application needs.

Applications:

- Hybridization Applications
- Cell Cultures
- Cell Aeration
- Increasing Solubility Rates
- Molecular Biology Assays
- Bacterial Cultures.

Precise Temperature Control:

- Over Temperature Protection
- Temperature Uniformity $\pm 0.2\%$ at 37°C
- Temperature Range Ambient + 5°C to 80°C .

Model	SWBR17 SWBR17-2	SWBR27 SWBR27-2
Exterior Dimen. (wxdxh)cm	64.8X39.4X31.8	95.3X37.5X31.8
Bath Tank Dimen. (wxdxh)cm	37.4X29.8X19.0	68.5X30.4X18.4
Tank Capacity (L)	17	27
Stainless Steel Gable Cover(s)	Yes - One Included	



WBO-200

WBO-100

Applications:

- Incubate cultures
- Warm bacteriological media
- Perform chemical reactions
- Thaw samples.

WBO-Series, Unstirred Up To 80°C Water Bath

The MRC stainless steel water bath are available in 2 sizes: 10 & 20 Liters. Model WBO-100 and WBO-200 unstirred bath are used for general applications in laboratories. They provides excellent temperature uniformity of the liquid. A PID temperature controller provides instant and accurate temperature. The tank of the bath is made of corrosion resistant stainless steel with round corners for easy cleaning. Include hood cover.

Features:

- Ideal for biotechnology, clinical, environmental, medical, petroleum, food industry
- Stainless steel lid prevents evaporation & keeps constant temperature
- Excellent uniformity & stability
- Seamless, corrosion-resistant, stainless steel chamber
- Available in 10, 20 Liters
- Gable cover included.



WBO-200

Model	WBO-100	WBO-200
Temp. range	Room temp. ~ +5°C to 80°C (+5°C to 100°C for WBO-100/200-100)	
Temp. constancy	±0.1	
Temp. control	PID	
Heater	500W	1000W
Safety devices	Short circuit, over head protector, sensor abnormality	
Bath opening (mm)	W295xD235xH150	W495xD295xH150
Inside dimensions (mm)	W295xD235xH150	W495xD295xH150
Outside dimensions (mm)	W420xD280xH185	W620xD340xH185
Volume	10L	20L
Weight	6.5 kg	9 kg



W614M-2

W614M-2, Dual Chamber Water Bath

Model	W614M-2	
Exterior Dimensions (wxdxh)	61.6 x 48.9 x 22.3 cm	
Chambers	Tank 1	Tank 2
Bath Tank Dimensions (wxdxh)	29.8 x 15.2 x 15.2 cm	29.8 x 33.0 x 15.2 cm
Tank Capacity	7L	15L
Stainless Steel Gable Cover(s)	Two Included	

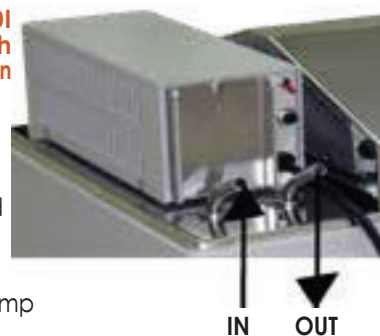
WBH-Series, Digital Precise Circulation Water Bath

There are 2 sizes with internal circulation pump, 10 & 20 Liters. The immersion circulator bridge can easily remove for easy cleaning of the tank.

**WBH-100****WBH-200****WBH-100I With External Circulation****Features:**

Ideal for Biotechnology, Clinical, Environmental, Medical, Petroleum, Food Industry, Pharmaceutical or Industrial Applications

- Powerful Circulation Pump Assures Temp. Uniformity.: Internal and optional external Circulation
- Stainless Steel Bath(#304) for Superior Durability & High Thermal Efficiency
- Stainless Steel lid Prevents Evaporation and keeps Constant Temperature.



Model	WBH-100	WBH-100I	WBH-200	WBH-200I
Temp. range	Ambient +5°C to 100°C			
Temp. constancy	±0.1			
Temp. control	PID			
Temperature Uniformity	±0.1 at 37°C			
Internal circulating pump	9Liter/Minute			
External circulating pump	No	Yes	No	Yes
Heater	800W		1000W	
Safety devices	Short circuit, over head protector, sensor abnormality			
Bath opening (mm)	W200xD235xH150		W400xD295xH150	
Inside dimensions (mm)	W295xD235xH150		W495xD295xH150	
Outside dimensions (mm)	W340xD280xH320		W540xD340xH320	
Volume	10L		20L	
Weight	7kg		10kg	

WBH-060N, External Heating Circulation Bath

The MRC WBH-060N, 6 Liter heating bath, is the most user-friendly baths available. This heating circulator is mainly used for temperature controlling larger external systems such as heating

**WBH-060N**

plates, autoclaves or reaction vessels. Combined powerful pressure/suction pumps provide a good heat exchange and optimum temperature accuracy; robust design using high grade stainless steel inside and outside the bath. MRC heating circulator with stainless steel bath tank is mainly used for internal and external temperature tasks. simultaneous temperature applications of smaller objects can also be carried out directly in the internal bath of the circulator.

Model	WBH-060N
Working range	Ambient +5°C~100°C
Volume	6 Liter
Stability	±0.05°C
Setting&Readout	Digital
Heater	500W
Pumping flow	7L/min, 0.12kg/cm ²
Reservoir(mm)	W150xD255xH150
Overall(mm)	W210xD315xH330
Power source	110/220V 60/50Hz 5/2.5A

TEPS-1

**TEPS-1, Immersion Circulator – Basic Model****Features:**

- Temperature range: ambient to 100°C (with cooling +10 to 100°C).
- Accuracy: approx. ± 0.3 to $\pm 1^\circ\text{C}$.
- Pumping capacity: up to 12 l/min.
- Safety Cut Off.
- 12L/min max. head 2m.
- Immersion depth: min. 6cm, max. 15.5cm.
- Optional: Glass Thermometer
- **Optional: External circulation apparatus.**

TEPS-4

**TEPS-4, Digital Immersion Circulator****Features:**

- Digital set and display of actual operating temperatures.
- PID controller provides very precise temperature control.
- Adapts to many different containers.
- Temperature range: ambient +5°C to 100°C (with cooling -10°C to 100°C),
- Accuracy: approx. $\pm 0.1^\circ\text{C}$.
- Pumping capacity: up to 12 l/min.
- Immersion depth: minimum 6 cm, maximum 15.5 cm.
- Safety Cut Off.
- **Optional up to 200°C (for oil).**

Model	TEPS-1	TEPS-4
Temperature range	up to 100°C	
Temperature stability	$\pm 0.3^\circ\text{C}$ to 1°C	$\pm 0.1^\circ\text{C}$
Controller	Basic analog	PID Digital
Readout	Thermometer	Digital $^\circ\text{C}/^\circ\text{F}$
Pumping flow	12 Liter/min	
Immersion	Minimum 60mm, Maximum 155mm	
Heater	1000Watt (optional, 1500, 2000watt)	
Over temp. safety	Adjustable	
Dimensions (mm)	W200xD240xH90 / W120xD140xH135	W200xD240xH90 / W120xD140xH135
Weight	2kg	2.3kg

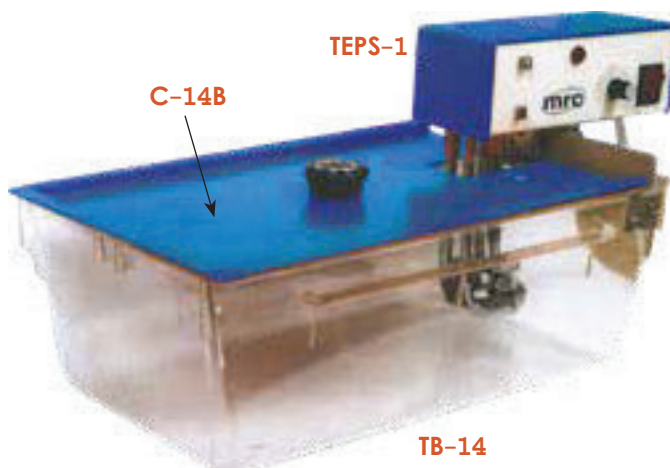
TB-Series, Polycarbonate Tank TB Type For Immersion Thermostat / Circulator

PC Tank with bridge for fixing immersion circulator TEPS-1/TEPS-4, Seamless Transparent Polycarbonate Tank – withstands 120°C. Heating circulators are commonly used for cell cultures, enzyme assays, coliform testing, DNA incubation & procedures.

TB-7	16x30x13cm-Height, 7 Liter
TB-8	21x35x14cm-Height, 8.5 Liter
TB-11	18x27x18cm-Height, 11 Liter
TB-14	21x35x18cm-Height, 14 Liter
TB-30	32x51x20cm-Height, 30 Liter

TEPS-1

C-14B



TB-14

WBSI-150,

The heaters, temperature sensor, water level protection are positioned under removable protection tray positioned over the base of the tank provides effective liquid mixing by pump and prevents sous vide packs from coming into contact with the heated tank bottom. No snagging of packs on heating coils or stirrers, no difficult places to clean/keep clean, just lots of unobstructed, temperature controlled space for you to work with.

A removable lid supplied with the bath minimises evaporation of water & helps maintain bath temperature. Should the bath accidentally be run with little or no water, a safety cut-out ensures that you and your workplace remain safe. Baths is made of a stainless steel inner tank housed

within a stainless steel enclosure and drainage for fast emptying. Robust, durable, easy to clean. Simple and safe to operate- just select the desired temperature using the dial, and the large, easy to read, illuminated digital display gives you instant confirmation of the set temp.



*Non Standard
Request Wellcome*



WBSI-150

Model	WBSI-150
Tank Capacity	150 liter
Temperature Range	Ambient +5°C~95°C
Stability & Unloaded at 70°C	±0.2°C
Temperature Setting	Via control knob
Display	3 digit LED
Display Resolution	0.1°C
Working Volume	H350 x W950 x D550mm
Overall Dimensions	H900 x W1050 x D640mm
Electrical Supply	3 phase 380V
Heater Power & Overall Consumption 3 x 380V	9KW
Safety	Water Level Protector
Flow	33 liter/Minute

TEPS-V-6, Portable clip-on digital immersion circulator

MRC immersion heaters and water baths with a precise temperature controlled environment, to produce consistently perfect results Ideal for sous vide and other demanding applications.

MRC immersion circulator is a space saving clip on heater/stirrer unit. It can be easily fitted to a standard stainless or polycarbonate gastronorm square tank or round (minimum depth 18cms) and maximum volume of approximately 60 Liters.

For large tanks and pots there are several immersion heaters with higher wattage and immersion lengths. Precise temperature achieved by PID high precision controller, accuracy and repeatability are guaranteed. Actual temperature is clearly displayed to 0.1°C. Temperature settings are retained in memory even after 'power off'. Temperatures can be easily and rapidly set with the push button, wipe clean control panel. Easy clamping method, safety protection for low water level and optional sturdy handle for easy carrying. The case is constructed from high quality stainless steel. If the water drops below the recommended minimum level or the unit is inadvertently switched.

TEPS-V-6



TEPS-V-6-SPL

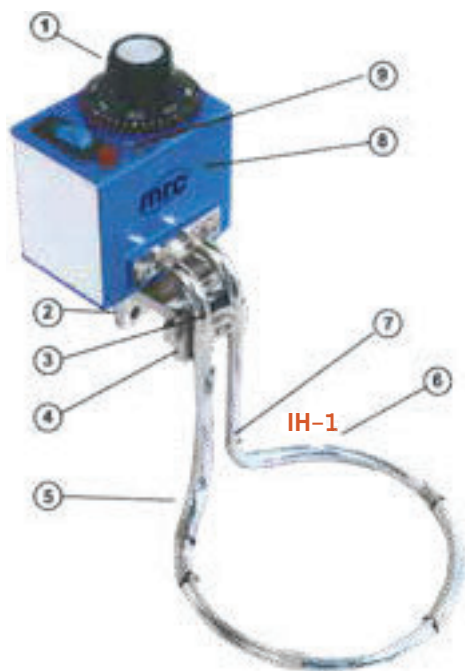


Longer immersion heater for deep and large containers

Applications:

- Laboratory water baths
- Calibration baths
- Sous vide.

Model	TEPS-V-6
Display/resolution	Digital LED/0.1°C
Temp. range	Ambient + 5°C - 95°C
Temp. setting	Push button
Stability	±0.1°C
Display/resolution	Digital LED/1 min. increments
Dimensions (mm)	Stirrer case: W122 x D153 x H200 (includes handle) Guard: W122 x D132 x H148 Allow 90mm at rear of unit for mains cable/ventilation
Electrical supply	230V
Power consumption	1kW (Optional: 2000, 2600, 3000 watt)



IMMERSION HEATER IH-1

- 1- Temperature setting in °C
- 2- Threaded hole for attachment to stand
- 3- Height adjustment permits wide range of application
- 4- Mounting bracket (patented design) with teflon-tipped disc permitting secure clamping to all surfaces, including glass
- 5- Heating element chromium-plated copper sheath: also available in stainless steel on special order
- 6- Fast-acting thermostat also serves as low-level cut-out, preventing element burn-out and fire hazard
- 7- Shallow immersion depth (3 cm)
- 8- The control housing is located outside the vessel and thus protected against vapors and temperature effects
- 9- Indicator light



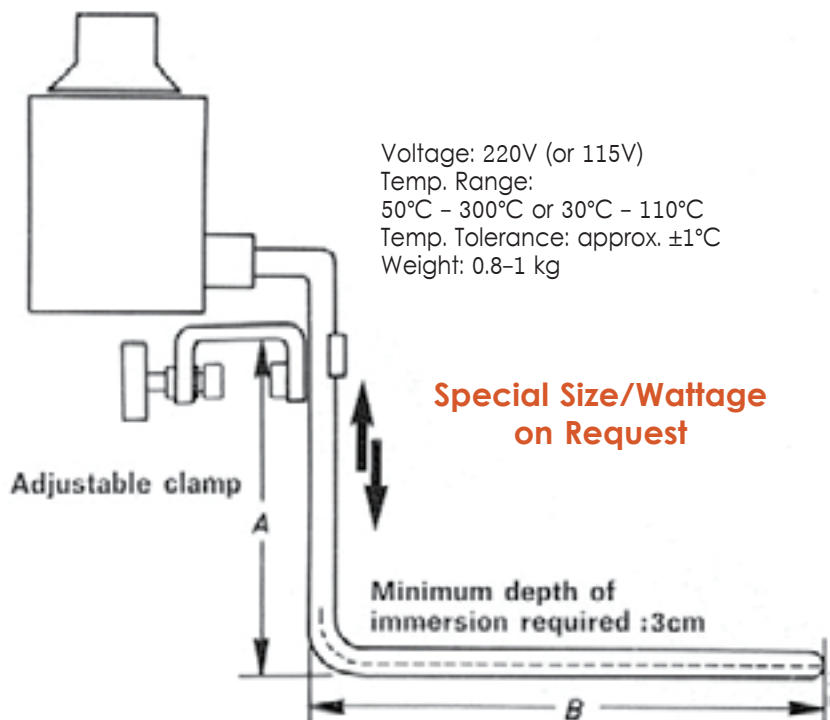
**IHSD-1
Digital control**

IH-Series, Thermostatic Controlled Immersion Heaters

Immersion heat:

Thermostatically Controlled Immersion Heaters.

Reliable element for accurately heating liquids to temperatures of up to 300°C with a tolerance of approx. $\pm 1^\circ\text{C}$. Designed for trouble-free application. Suitable for use in science and industry for: Distillation, evaporation, sterilization, rotary evaporation, ultrasonic cleaning, photographic bath etc.



Model 50-300°C	Digital RT+5°C-300°C	Model 50-110°C	Digital RT+5°C-110°C	Watts	"A" mm	"B" mmΦ
IH3/13	IHSD-3/13	IH1/13	IHSD-1/13	500	100	130
IH3/15	IHSD-3/15	IH1/15	IHSD-1/15	750	110	150
IH3/17	IHSD-3/17	IH1/17	IHSD-1/17	750	120	170
IH3/19	IHSD-3/19	IH1/19	IHSD-1/19	1000	130	190
IH3/21	IHSD-3/21	IH1/21	IHSD-1/21	1000	150	210
IH3/23	IHSD-3/23	IH1/23	IHSD-1/23	1250	180	230
IH3/25	IHSD-3/25	IH1/25	IHSD-1/25	1500	200	250
IH3/27	IHSD-3/27	IH1/27	IHSD-1/27	1500	200	270

Immersion heater Features:

- Easily converts any container into a thermostatically controlled bath from ambient to 300°C.
- Rugged, reliable, convenient, maintenance-free, energy-saving & reasonable priced.
- Fully valid substitute for expensive water and oil baths.
- Permits utilization of the entire contents of the container, without effecting the functioning of stirrers.
- Heat is applied directly to the liquid, ensuring rapid rise of temperature.
- Safe - fast acting thermostat server as low-water level cut out.
- You get the temperature you set.
- Control box is located on the outside and is unaffected by vaporous and temperature effects.

WBL-Series, Digital Precise Refrigerated Bath, Internal and External Circulator



WBL-200

WBL-100

Refrigerated Circulating Baths

- Compact design.
- For external & internal temperature applications.
- Low noise level.
- Rapid cool down and heating time.
- Water drain for easy cleaning of the inner tank.
- Models WBL-200 has casters.
- Water level protector.
- Ideal for direct immersion of samples or external circulating system in the field of biotechnology and laboratories.
- Powerful circulation pump ensures temp. uniformity: internal and external circulation.
- Connection with evaporator or viscometer is applicable.

Options:

- Display resolution to 0.01°C
- Build in RS-232/485
- PT-100Ω temperature probe for direct measurements and control of external systems
- Analog inputs and outputs for external programmer and temperature recorder.

Model	WBL-100	WBL-101	WBL-200
Temperature range	-30°C~100°C		
Temp. constancy	±0.1°C		
Temp. control	PID		
Temp. sensor	PT-100Ω		
Circulation pump	9L/min. max. head 2m	18L/min. max. head 7m	27L/min. max. head 7m
Heater	1600W		2500W
Refrigerator	1/3HP		1 HP
Cooling capacity at 20°C	660Watt/2252 BTU/hour		1000Watt/3412 BTU/hour
Safety devices	Short circuit breaker, over heat protector, sensor abnormality, overload protector		
Bath opening (mm)	W200xD150xH150		W300xD210xH180
Bath dimension	W200xD300xH150		W300xD360xH180
Outside dimensions	W315xD450xH630		W420xD530xH800
Volume	9.0L		19.4L
In/Output	9.5mm		12.5mm
Weight	35kg		63kg



WBL-1040

WBL-1040/1640, Digital Refrigerated Bath, Heating & Circulating

Model	WBL-1040	WBL-1640
Temp. Working range	-40°C~100°C	
Stability	±0.1°C	
Temp. control	PID	
Heater	1.5KW	
Cooling Capacity	148W (-40°C)	262W (-40°C)
Pump flow	14L/min.	9L/min.
Timer Delay on/off	0~9999 min or 0~9999 hr	
Dimen. Reservoir (mm)	W220xD300xH170	W27xD370xH160
Dimen. Overall (mm)	W330xD530xH800	W430xD530xH900
Lid Opening (mm)	W150xD150	
Capacity	10L	16L
Power Source	220V 60Hz 8A	220V 60Hz 10A



WBL-2085

WBL-685/2085/HP2085, Ultra Low Precise Refrigerated Baths

Model	WBL-685	WBL-2085	WBL-HP2085
Temperature range	-85°C ~ -100°C		
Temp. constancy	±0.1°C		
Temp. control	PID		
Heater	1.5KW		2.5KW
Cooling Capacity	1245Wx2 (23.3°C)	1892Wx2 (23.3°C)	4688Wx2 (23.3°C)
Pump flow	16L/min.	9L/min. (pressure/suction)	
Timer Delay on/off	0 ~ 9999 min or 0 ~ 9999 hr		
Dimensions:			
Reservoir (mm)	W150xD300xH150	W280xD370xH200	
Overall (mm)	W460xD710xH117	W540xD830xH124	W660xD880xH124
Lid Opening (mm)	W130xD130	W150xD150	
Capacity	6L	20L	
Power Source	220V 1φ 18A	220V 1φ 20A	220V 3φ 28A

WBLD-Series, Refrigeration Capacity Recyclable Coolers

Features:

- Closed circulating system can avoid refrigerating medium evaporation and pollution, save energy.
- Circulating system is equipped with filter apparatus, clean refrigerating medium avoids instrument line clogging
- With built-in liquid-level monitor, liquid-level inside the bath can be checked visually.
- Circulating system is equipped with pressure gauge, displays circulating system pressure.



WBLD-Series

Model	WBLD-1000	WBLD-1000G	WBLD-2000	WBLD-2000G	WBLD-3000	WBLD-3000G	WBLD-6000	WBLD-6000G
Temp. range (°C)	-10 ~ 25							
Temp. stability (°C)	±2							
power supply (V/Hz)	220V/50Hz						380V/50Hz	
Cooling capacity(W)	1000@15°C		2000@15°C		3000@15°C		6000@15°C	
Refrigeranting Madium	R134a							
Pump Flow (L/min)	30	≥7	30	≥7	30	≥16	40	≥16
Pump Pressure (Bar)	1	1-10	1	1-10	1	1-10	1.4	1-10
Dimensions L×W×H(mm)	675×426×695		675×456×775		740×490×830		1020×635×1030	

Model		WBLD-3-300	WBLD-3-700	WBLD-3-1000	WBLD-3-2500
Temp. range (°C)		-30 ~ 25			
Temp. stability (°C)		±2			
power supply (V/Hz)		220V/50Hz			380V/50Hz
Cooling capacity(W)	0°C	1240	1750	2820	7500
	-10°C	780	1070	1810	4600
	-20°C	300	700	1000	2500
	-30°C	-30	300	520	1040
		R410a			R404a
Refrigerating Medium					
Pump Flow (L/Min)		30	30	30	30
Pump Pressure (Bar)		1	1	1	1.4
Dimensions (L×W×H) (mm)		675×426×695	675×456×775	740×490×830	1020×635×1030

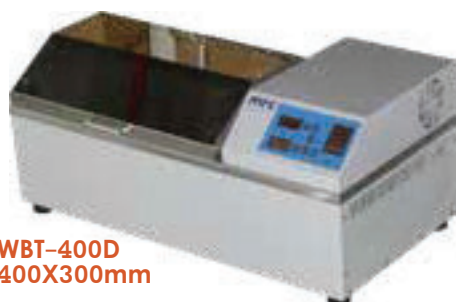
WBT-200
300X240mm



WBT-401
refrigerated



WBT-400D
400X300mm



WBT-200/400D/401, Digital Precise Shaking Water Bath, 22 & 38 Liter, & Digital PID Control, Reciprocating Motion, 20~200rpm, to 100°C, $\pm 0.1^\circ\text{C}$, up to 1 Liter Flask

These reciprocating water bath shakers are available in three models. Model WBT-200 small platform 250x300mm, Model WBT-400D large platform 300x400mm & Model WBT-401 refrigerated to 0°C. Temperature control is precise, temp. range of 5°C above ambient to 100°C, speed range 20 – 200 rpm, heat loss and evaporation minimized with use of stainless steel hood cover. Easy emptying through a drain at the lowest point. Micro processor temperature PID controller with dual display of measured temperature and set temperature.

Options:

- Water level protector.
- Universal platform.

Features:

- Stainless Steel Bath for Superior Durability & High Thermal Efficiency
- Innovative Easy-to-Use Digital PID Controller
- Electronically Controlled Shaking Mechanism Provides Quiet Reciprocating Motion and Precise Speed Control
- Universal Stainless Steel Spring Rack (Optional): for various kind of Flasks dishes and Tubes (optional)
- Patent shaking mechanism: minimum noise and vibration.



Universal Spring Racks



**Optional:
Tube Holders**

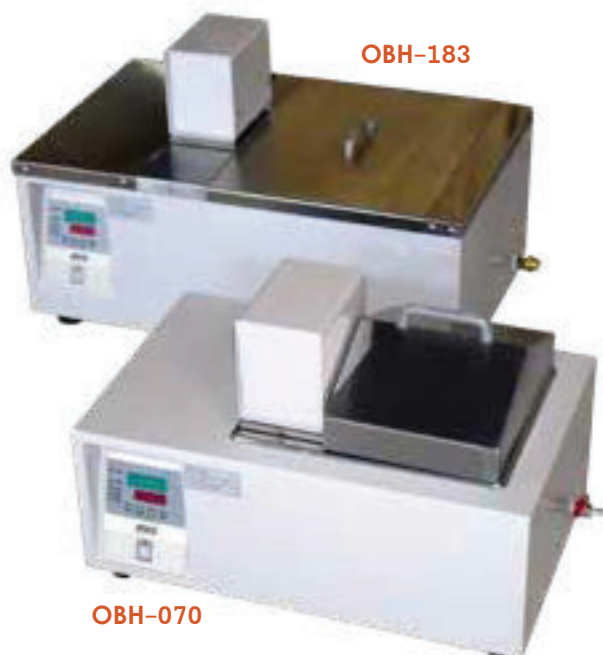


Flask Holders

Model	WBT-200	WBT-400D	WBT-401	WBT-450
System	Reciprocation shaking circulation			Orbital circulation
Temp. range	Room temperature - 100°C		0°C-100°C	RT-100°C
Temp. constancy	±0.1°C			
Temp. control	PID			
Temp sensor	PT-100Ω			
Inside material	SUS304			
Rate of shaking	20~200 rpm			
Shaking width	20 and 40 mm variable			25 mm
Shaking plate (mm)	300x240mm	400x300mm		470x320mm
Refrigerator			1/4HP	
Heater	1200watt	1600watt		1200watt
Safety devices	Short circuit breaker, over heat protector, sensor abnormality, refrigerator over protector			
Inside dimensions (mm)	W500xD300xH150	W600xD350xH180		W560xD405xH200
Outside dimensions (mm)	W700xD350xH300	W830xD415xH350	W980xD415xH430	W740xD530xH450
Volume (Liters)	22.5	37.8		
Weight	25kg	30kg	53kg	80kg

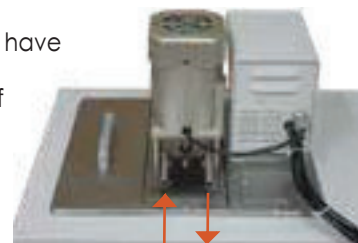
Capacity of flasks	50 ml	125 ml	250 ml	500 ml	1000 ml	2000 ml
WBT-200 number of flasks	20	12	6	4	2	1
WBT-400D/401 number of flasks	35	20	12	6	4	2
WBT-450 number of flasks	35	24	15	12	6	2

OBH Series, High Temperature Bath Circulator, 7 & 18 Liter, Digital Control, Powerful Circulation Pump, Up To 200°C/300°C



Powerful Circulation Pump Ensures Temp. Uniformity: Internal & External Circulation (optional)

Robust design using high grade stainless steel inside and outside the bath. Heating Circulators with stainless steel bath tanks are mainly used for internal and external temperature tasks. The range of these models have 2 capacities, allowing for temperature application of larger external systems, as well as open systems. Simultaneous temperature applications of smaller objects can also be carried out directly in the internal bath of the circulator.



External Circulation Option
OBH-071

Features:

- 3 Models with choice of temperature range and bath capacity
- Stainless steel bath and lid for superior durability and high thermal efficiency.
- Over heating safety device is equipped.
- Wide range of temperature control.
- Digital temperature setting & readout.
- External circulating pump is available on special order.

Model	OBH-070	OBH-180	OBH-183
Model (External Circulation)	OBH-071	OBH-181	OBH-184
Working range	Ambient +5°C~200°C		Ambient +5°C~300°C
Stability	±0.1°C		
Setting/Readout	Digital		
Heater	1.2KW		
Stirring	By built-in circulation pump		
Volume	7 Liter	18 Liter	12 Liter
Operations	W19.5xD23.5xH15cm	W39.5xD29.5xH15cm	W30xD30xH20cm
Overall	W54xD34.5xH38cm	W73xD39xH36cm	W66xD40xH42cm
Power source	110/220V 50/60Hz 13A/6.5A		



VBH-152
Number of viscometers: 7

VBH-150
Number of viscometers: 2

VBH-Series, Kinematic Viscometer Bath

Digital Precise Viscosity Bath, 16 Liter or 24 Liter. With Transparent Window, Stainless Steel Lid for Viscometer Holder, Digital PID Control System, up to 150°C, ±0.1°C.

Used for Precise Measurement with Capillary Viscometers • Innovative Easy-to-use Digital Controller PID • Powerful Circulation Pump ensures Highest Uniformity of Temperature • Stainless Steel (#304) made inner bath • Optional 0.01°C accuracy.

Model	VBH-150	VBH-152
Temp. range	Ambient +5°C~150°C	
Temp. controller	P I D control	
Stability	±0.1°C	
Timer delay on/off	0~9999 min or 0~9999 hr	
Reservoir (mm)	W330xD150xH320	W490xD150xH320
Volume	16 Liter	24 Liter
Overall (mm)	W505xD250xH550	W665xD250xH550
Operation (mm)	W200xD140	W360xD140
Window (mm)	W160xD250	W320xD250
Power source	110/220V, 50/60Hz, 15/8A	



WBH10-2
Water Bath

WBH10-2/WBH20-6/OBH20-6, scientific magnetic stirrer

- 2/6 Individually stirring positions.
- Microprocessor based PID controller.
- Stirrer accommodates vessels up to 1L.
- Stirring speed adjustable from 300 to 1500rpm (Medium solution: water)
- Digital dual display both present temperature and setting value.
- Wide control range, bath can be combined with cooler to obtain below ambient temperature.
- Audio and Visual Temperature Anomaly Alarm and Cut-off (Range is adjustment.)
- Overheating safety device is equipped.
- Digital timer can be set from 0 to 9999 (min/hr), and power preset On/Off function.
- Built-in immersion circulation pump uniform the medium temperature in tank.
- Stirrers mixture the solution in vessels placed in the tank.
- Stainless Steel SUS#304 inner tank, and powder coated steel outer shell.



WBH20-6
Water Bath



OBH20-6 Oil Bath

Model	WBH10-2	WBH20-6	OBH20-6 (oil)
Tank Capacity	10 Liters	20 Liters	20 Liters
Temperature working range	Ambient +5℃-100℃		Ambient +5℃-200℃
Stability (at 37℃)	±0.1℃		
Stirring	By built-in immersion circulating pump		
Magnetic stirrer	2 position (individual control)	6 position (individual control)	
Heater	1.2 KW		
Standard Accessory	Gable cover		
Internal Dimension (mm)	W295 x D235 x H150	W495 x D295 x H150	W495 x D295 x H150
Overall Dimension (mm)	W345 x D285 x H320	W545 x D335 x H320	W770 x D395 x H370
Power Source	110V/220V 50Hz/60hz		



SWBC22-2

Applications:

- Sample Thawing
- Bacteriological Examinations
- Warming Reagents
- Coliform Determinations
- Microbiological Assays.

Precise Temperature Control:

- Over Temperature Protection
- Temperature Uniformity $\pm 0.2\%$ at 37°C
- Temperature Range Ambient $+5^{\circ}\text{C}$ to 80°C .

SWBC22-2, Circulating & Deep Chamber

MRC special application water baths boast the same features as our other high-performance models, such as: being highly accurate, easy-to-use, rugged, and safe. MRC speciality water baths include a polymer coating for quick cleaning.

MRC was the first to introduce the non-contact recessed heating element design to the analytical research market. This curtails element burnout and eliminates tank hot spots that are chronic challenges for other water baths. The MRC digital water baths remain an industry standard for precise control and quality of design. The operator is able to calibrate this bath using the touch pad controls. This is a convenient feature for facilities concerned with IQ/OQ/PQ validation. The MRC constant temperature digital water baths are perfect for conducting a host of applications including: bacteriological examinations, food processing/QC procedures and microbiology assays.

Features:

- Easy-to-Clean Stainless Steel Tank
- Pocket Handles for Easy Lifting
- Recessed Heating Element Prevents "Burnout"
- Unique MRC Design Eliminates "Hot Spots"
- Thermometer Clip Included.

Model	SWBC22 SWBC22-2	SWBC30 SWBC30-2
Exterior Dimen. (wxdxh)cm	38.1X64.8X22.9	40.7X48.9X38.8
Bath Tank Dimen. (wxdxh)cm	29.2X49.5X15.8	30.4X35.5X30.4
Tank Capacity (L)	23	30
Stainless Steel Gable Cover(s)	Yes – One Included	No

WPC95-2, Water Baths Speciality – Circulating & Deep Chamber

WPC 95

Features:

- Easy-to-Clean Stainless Steel Tank.
- Pocket Handles for Easy Lifting.
- Recessed Heating Element Prevents "Burnout".
- Unique Design Eliminates "Hot Spots".

Precise Temperature Control:

- Over Temperature Protection.
- Temperature Uniformity $\pm 0.2\%$ at 37°C .
- Temperature Range Ambient $+ 5^{\circ}\text{C}$ to 80°C .

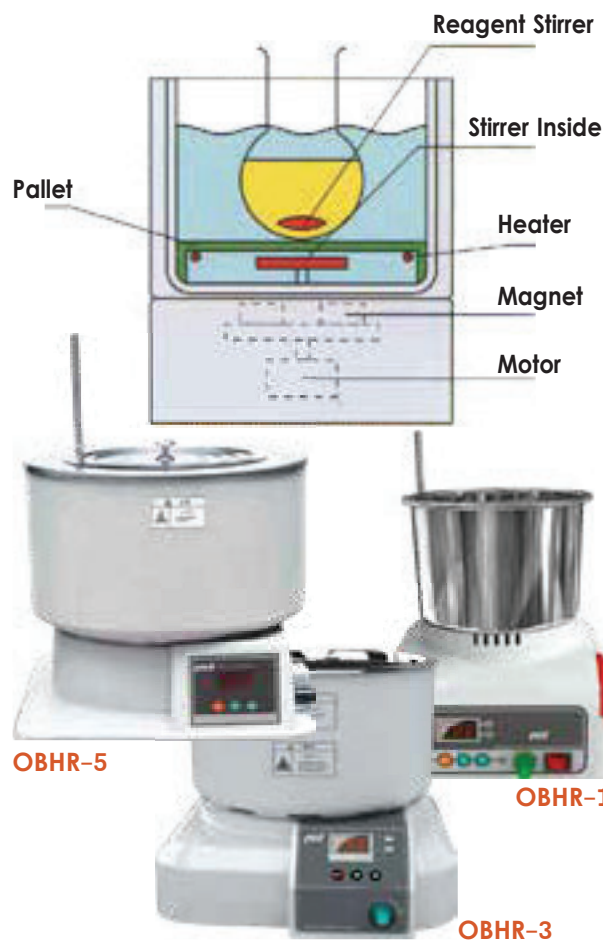
MRC Special application water baths boast the same features as our other high-performance models, such as: being highly accurate, easy-to-use, rugged, and safe. MRC WPC water baths include polymer coating for quick cleaning.

The MRC Water Baths are truly unique in construction. MRC Manufacturing was the first to introduce the non-contact recessed heating element, found on this type of product, to the analytical research marketplace. This design specifically curtails element burnout and eliminates tank hot spots that are chronic challenges for other water baths. The MRC Digital water baths remain an industry standard for precise control and quality of design. The operator is able to calibrate this bath using the touch pad controls. This is a convenient feature for facilities concerned with IQ/OQ/PQ validation. The MRC constant temperature digital water baths are perfect for conducting a host of applications including; bacteriological examinations, food processing/QC procedures and microbiology assays just to name a few.

Applications:

- Sample Thawing.
- Bacteriological Examinations.
- Warming Reagents.
- Coliform Determinations.
- Microbiological Assays.

Model	WPC95-2
Exterior Dimensions (wxdxh)	40.7 x 48.9 x 38.8 cm
Bath Tank Dimensions (wxdxh)	30.4 x 35.5 x 30.4 cm
Tank Capacity	30L
Stainless Steel Gable Cover(s)	Not Included

**OBHR-1/3/5, Integrated Thermostatic Magnetic Blenders**

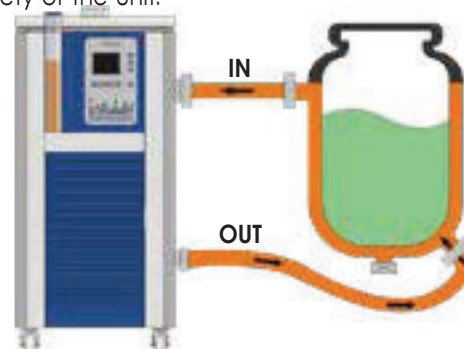
- Can be used as water bath and also can be used as oil bath. Strong magnetic stirring is set in chamber.
- Adopt SUS 304 stainless steel heater which can be used for oil and water bath.
- Strong magnetic stirring makes the stirrings in the flume rotate synchronistically to ensure the even and precision of high viscosity solution temperature.
- The performance of high performance direct current brushless machine is stable & can be used continuously.
- High temperature magnet will not lose magnetism when continuous use in 300°C.
- PID control, digital display.
- OBHR-3 and OBHR-5 have dual sensor, temperature can be converted and displayed in flume & reaction vessel.

Model	OBHR-1	OBHR-3	OBHR-5
Temp. range (°C)	Room temp ~ 200		
Temp. stability (°C)	±1		
Temp. display	Keypad input Digital display		
Speed-setting	Knob setting		
Speed (rpm)	0 ~ 2000		
Bath size (mm)	Φ140×90	Φ220×110	Φ250×140
Bath volume (L)	1	4	6.5
Heater wattage (W)	300	1500	1500
The max flask input (ml)	500	3000	5000
PowerSupply (V/Hz)	220/50		
Dimensions (LxWxH) (mm)	190×200×190	260×280×230	260×280×260

**OBHF-Series****OBHF-20/50/100, Temperature Circulators, up to 250°C**

Hermetic oil cooling high temperature circulator is liquid circulating equipment which adopts electricity to heat, and provides high temperature circulating liquid. It's widely applied to heat reactors in pharmacy, chemical industry, petrochemical & other industries.

- Overtemperature alarm protection ensures safety of the unit.
- Circulating pump can output heat transfer liquid inside the equipment to heat other equipments outside.
- Electric heaters supplied by professional manufacturers ensures reliability and service life.
- The unit has vent valve which is convenient to add the liquid for the system & is prohibited opening during the work time.
- Circulating system adopts Stainless Steel which can prevent corrosion, rust & high-temperature liquid pollution.
- PID control, high temp.-controlling accuracy, easy operation.
- Coolant circulating system adopts hermetic system, so that service life of heat transfer liquid is much longer.
- The unit is easy to use, & it can work continuously.



Model		OBHF-20	OBHF-50	OBHF-100
Highest Temperature (°C)		250		
Temperature range (°C)		Room ~ 250		
Environment Temperature(°C)		5 ~ 40		
Function of Circulating pump	Power (W)	250	250	750
	Max. flow (L/min)	30	30	75
	Max.lift (m)	25	25	15
Power of Heater (kw)		3	6	12
Ambient Humidity (%)		≤60		
Power Supply		220/50	380/50	380/50
Dimensions (mm)		645L×405W×110H	800L×700W×1200H	820L×735W×1468H



MRC Beads:

MRC beads by design, provide a concurrent thermal and antimicrobial activity that efficiently shields the lab and personnel from invading organisms while thermally heating and cooling like water in any standard water bath or heat block.

- Compatible with standard constant temperature water baths; Tub with 4–8 inches depth is best
- Accepts and supports any size and shape vessel
- Compatible with a broad temperature range from -80°C to 180°C
- Cleans with mild soap, water and 70% ethanol solution.

MRC Bead Baths:

The Bead Bath's eco-friendly, state-of-the-art design takes full advantage of the robust properties of MRC Beads. It delivers exceptional temperature uniformity and gets up and running faster. So you can do things with this bath that you can't do with your old water bath. You aren't limited to water tight containers, so you can safely incubate multi-well plates, petri dishes, and open-top samples at any angle.

- Thermal Uniformity: At $37^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$
- Temperature Range: 5°C above ambient to 80°C .

M706–6L/M706, Bead Baths: 74309–706 – 6L Bead Bath with 5L Beads: 110v, type "B" plug. Our Digital Baths are durable, dependable and are available with a variety of safety and convenience.

M714–14L/M714, Bead Bath with Beads: 14L Bead Bath: 110v, type "B" plug. Bead Baths are durable, dependable and are available with a variety of safety and convenience.

M720–20L/M720, Bead Bath with Beads: Our Digital Baths are durable, dependable and are available with a variety of safety and convenience.

M700-Series, Bead, waterless Baths

Save Time & Money: Using Beads makes lab experiments easy. No more hassles with emptying, cleaning, and refilling water baths. The bath always stays on, so you don't have to plan around warm-up times. Use Beads in ice buckets and save trips to the ice machine. And no more floating samples.

Stays Clean: Unlike water baths and ice machines that promote harmful microbial growth, Beads keep things dry and unfriendly to microbes. So there is less to clean and less to worry about. The result is more successful experiments and less laboratory downtime.

Stay Organized: Beads hold things in place without accessories. So no more accidents from float away vessels. In fact, Beads aren't limited to capped, watertight vessels. Imagine using petri dishes and 96-well plates right in a Bead Bath. No water. No problem.

Eco-friendly: Beads can transform a water bath into a greener instrument. Beads don't require the use of harmful germicides to keep clean, they use less electricity because the Beads don't evaporate, and the Beads are completely recyclable.

Walk about Tray: It's a quarter the size of a traditional lab bucket. This makes it easy to use under the hood or in tight bench top spaces. With its superior insulating properties, it keeps your samples and reagents at temperature after removing them from the Bead Bath, Chill Bucket, or the refrigerator.

Chill Bucket: The Chill Bucket is a revolutionary laboratory ice bucket that works without ice. It chills while keeping everything dry and in place, so you no longer have to worry about watery meltdowns or losing track of your samples. It substitutes for an ice bucket and maintains temperatures of -20°C to 8°C for up to 8 hours.

Bead Block: Bead Blocks replace common solid, drilled-out aluminum blocks in dry bath instruments. They eliminate the need for using multiple different size blocks to fit different sample vessels. Two sizes available in five colors. Temperature range from -80°C to 200°C (beads & blocks).

DryTemp: The DryTemp is no ordinary dry bath. It's not designed around a solid block, but around MRC Beads for better flexibility and performance. Multitasking is smoother, experiments get done faster, and everything just works better. The temperature range is 5°C above ambient to 150°C .

Features:

- Microprocessor control
- Over temperature protection
- Stainless body and lid.

Model	M706-6L	M706	M714-14L	M714	M720-20L	M720
Weight (Kg)	10	20	14	38	17	45
Capacity	5 Liters		12L		20L	
Interior Dimensions WxDxH (cm)	30.5x15.2x15.2		30.5 x 30.5 x 15		30.5 x 43.2 x 15.2	
Exterior Dimensions WxDxH (cm)	40.4x31.2x21.6		40.5 x 47 x 21.6		40.4 x 59 x 21.6	
Temperature Range	Ambient +5°C to 80°C					
Temperature Uniformity	±1.0°C		At 37°C ±0.5°C	±1.0°C	±1.0°C	