



# IMMERSION THERMOSTATS WITH DIGITAL AND TOUCH SCREEN CONTROL

*The most precise solution for maintaining constant liquid temperatures*

## SAFETY:

STANDARD DIN 12876.

ADJUSTABLE OVER TEMPERATURE SAFETY THERMOSTAT WITH MANUAL RESET AND LOW LIQUID LEVEL FLOAT SENSOR. (EXCEPT TERMOTRONIC 100)

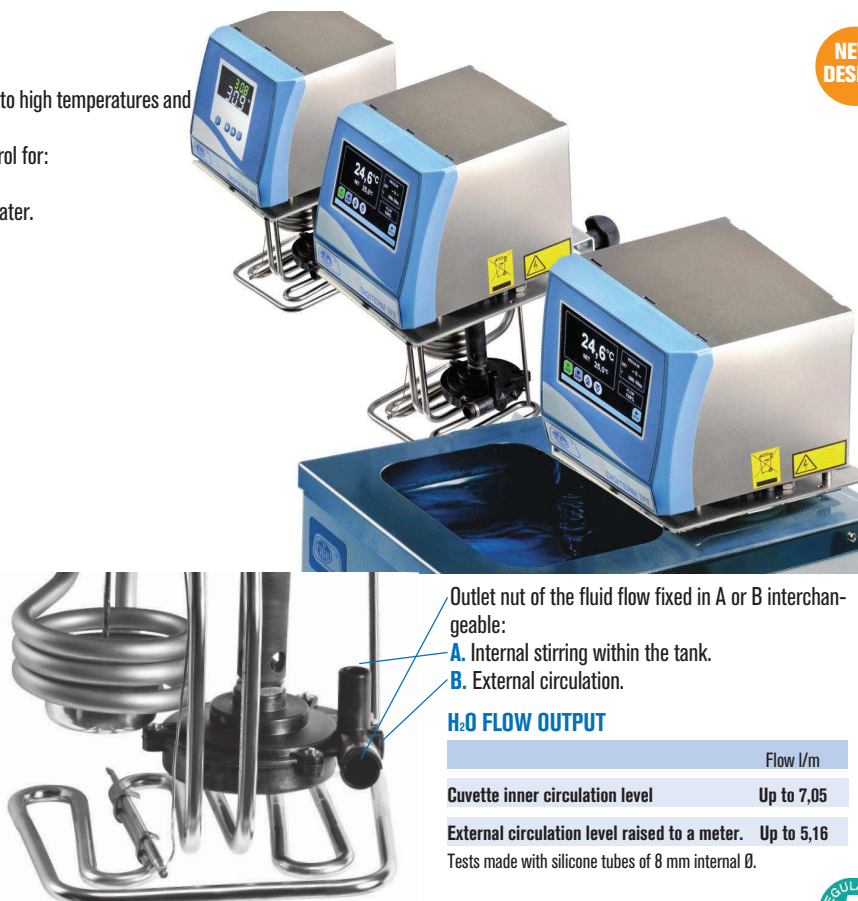
## COMMON FEATURES

Temperature probe Pt 100.  
Heating element made of stainless steel INCOLOY resistant to high temperatures and corrosive environments.  
Circulation Pump for internal or external temperature control for: (Polarimeters, refractometers and viscometers, etc).  
Cooling coil to maintain ambient temperatures using tap water.  
External metal case in AISI 304 stainless steel.

NEW DESIGN

## PARTS THAT ARE IN CONTACT WITH LIQUID

- Safety over temperature thermostat.
- Liquid level float.
- Cooling coil.
- Heating element made of stainless steel INCOLOY that can withstand high temperatures and is corrosion resistant.
- Circulation pump.
- Pump outlet for external circulation.
- Circulating pump outlet.



Outlet nut of the fluid flow fixed in A or B interchangeable:

- A. Internal stirring within the tank.
- B. External circulation.

## H<sub>2</sub>O FLOW OUTPUT

	Flow l/m
Cuvette inner circulation level	Up to 7,05
External circulation level raised to a meter.	Up to 5,16

Tests made with silicone tubes of 8 mm internal Ø.

## TWO DIFFERENT CONTROL SYSTEMS:

### DIGITERM-S-150, TERMOTRONIC-100

#### Specific functions of models with digital screen:

- Real time temperature reading.
- Display resolution 0.1 °.
- Permanent view of set temperature.
- Timer from 1 min to 99 h 59 min. (only model DIGITERM S-150)
- Heating indicator.
- Monitoring temperature: high limit / low limit.
- Automatic calibration of a point.
- Connection for external probe PT-100 (only DIGITERM S-150 model)



Digital display and



TFT touch screen.



### DIGITERM TFT-200, ULTRATERM-TFT-200, FRIGITERM-TFT-10, FRIGITERM-TFT-30

#### Specific functions of models with touch screen:

- Acoustic and visual alarm.
- Clock and calendar.
- Single or cyclic On / Off programming.
- Up to 10 work programs.
- Up to 6 segments per program.
- Stability time in each segment (from 1 min to 99h).
- Alarms and events storage.
- Probe error detection.
- Self Diagnostics.
- Network failure detection and saving.
- Over temperature and low temperature alarms and memorization (date, start time, end time and temperature).
- Connection device for external temperature Pt100 probe (see page 104).
- Safety thermostat (TS) by software.
- Mechanic safety thermostat (TS).
- USB and RS -232 output.
- Configurable parameters: Date / time, temperature correction, data collection interval, language (English, Spanish and French), °C / °F selection, over temperature and low temperature limit.
- Circulation pump speed control (between 0% and 100%).





# Immersion thermostat with digital control "Termotronic-100"

ADJUSTABLE TEMPERATURE FROM AMBIENT +5°C TO 100°C.

## High precision temperature control

### SAFETY:

STANDARD DIN 12876. 1. SAFETY OVER TEMPERATURE THERMOSTAT WITH ADJUSTABLE MANUAL RESET

### FEATURES

Maximum working volume to maintain maximum temperature: 20 litres.

A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used.

Minimum fixing depth to the tank: 14 cm.

### CONTROL PANEL

1. Set temperature display indicator.
2. Bath temperature/time display indicator.
3. "SET" button.
4. Set value decrease/increase button.
5. Start/Stop button.



NEW  
DESIGN

REGULATION  
SYSTEM  
A

MODELS	Part No.	Control range °C	Stability °C	Height / Width / Depth (exterior) cm	Pump Pressure / Flowrate H <sub>2</sub> O	Power W	Weight Kg
TERMOTRONIC 100	3000540	Amb +5 to 100	±0,1	28 18 19	150 mbar-12 l/min.	2000	3,9

Accessories (See page. 104).

### ACCESSORIES

#### Methacrylate tank "Clinic-Term"

Part No.	Capacity litres	Temp. max. °C	Height / Width / Depth (usable) cm	Capacity Rack	Weight Kg
1000544	8	60	14 16 39	4	2

Racks for the "Clinic-Term" made of AISI 304 stainless steel.

Racks for 50 micro-tubes of 11mm Ø. Part No. 1000546

Racks for 50 haemolysis tubes and coagulation tests with a diameter of 13 mm. Part No. 1000545

Racks for 14 tubes with a diameter of 18mm. Part No. 1000547

Racks for 8 cuvettes for spectrophotometers, 10 mm square, standard for monotest flask of different sizes. Part No. 1000548

Note: The methacrylate tank should not be used over 60 °C.



**Metal baths.** Manufactured with a double external AISI 304 stainless steel skin and an AISI 304 stainless steel pressed bath interior.

Part No.	Capacity litres	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Weight Kg
6000390	9	15 29 22	20 34 28	3.5
6000391	12	15 30 31	20 37 35	4.3
6000392*	20	15 48 30	20 55 35	6.6
6000393*	27	20 48 30	25 55 35	7.6
6001093*	45	15 62 50	23 70 56	11

\* With drain tap and lifting handles.





## Immersion thermostat with digital control "Digiterm S-150"

ADJUSTABLE TEMPERATURE FROM AMBIENT +5°C TO 150°C.

### High precision temperature control

#### SAFETY:

STANDARD DIN 12876. 1. SAFETY OVER TEMPERATURE THERMOSTAT WITH ADJUSTABLE MANUAL RESET 2. LOW LIQUID LEVEL FLOAT

#### FEATURES

Maximum working volume to maintain maximum temperature: 20 litres.  
A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used.  
Minimum fixing depth to the tank: 14 cm.  
Rear connection for additional OT100 probe. Automatic selection.  
Cooling coil.

#### CONTROL PANEL

1. Set temperature display indicator.
2. Bath temperature/time display indicator.
3. "SET" button.
4. Set value decrease/increase button.
5. Start/Stop button.



NEW  
DESIGN

REGULATION  
SYSTEM  
A

MODELS	Part No.	Control range °C	Stability °C	Height / Width / Depth (exterior) cm	Pump Pressure / Flowrate H <sub>2</sub> O	Power W	Weight Kg
DIGITERM S-150	3000543	Amb +5 to 150	±0,1	28 18 19	150 mbar-12 l/min.	2000	3,9

Accessories (See page. 104).



## Immersion thermostat with TFT touch screen "Digiterm TFT-200"

ADJUSTABLE TEMPERATURE FROM AMBIENT +5°C TO 200°C.

With external refrigeration from -20 to 200.

### High precision temperature control

#### SAFETY:

STANDARD DIN 12876. 1. SAFETY OVER TEMPERATURE THERMOSTAT WITH ADJUSTABLE MANUAL RESET  
2. OVER TEMPERATURE ALARM - 3. LOW LIQUID LEVEL FLOAT

#### FEATURES

Maximum working volume to maintain maximum temperature: 20 litres.  
A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used.  
Minimum fixing depth to the tank: 14 cm.  
RS-232, USB and Ethernet output.  
Cooling coil.

#### CONTROL PANEL

1. Set/ current temperature indicator.
2. Pump flow indicator (%).
3. Stop button.
4. Start button.
5. Push up parameter.
6. Push down parameter.
7. Set / current time indicator in hours / minutes.
8. Return button.



NEW  
DESIGN

REGULATION  
SYSTEM  
B

RS232

MODELS	Part No.	Control range °C	Stability °C	Height / Width / Depth (exterior) cm	Pump Pressure / Flowrate H <sub>2</sub> O	Power W	Weight Kg
DIGITERM TFT-200	3000544	amb.+5 to 200	200 °C ±0,1	28 18 19	150 mbar-12 l/min.	2060	4,5

Accessories (See page. 104).





## Recirculation thermostat “Ultraterm-TFT-200”

ADJUSTABLE TEMPERATURES  
FROM AMBIENT+5 °C TO 200 °C.

NEW  
DESIGN

REGULATION  
SYSTEM  
B

RS232

USB

**SAFETY:**  
STANDARD DIN 12876. SAFETY OVER TEMPERATURE  
THERMOSTAT WITH ADJUSTABLE MANUAL RESET  
LOW LIQUID LEVEL SENSOR PROTECTION.

### FEATURES

Maximum working volume to maintain maximum temperature: 8 litres.  
AISI 304 stainless steel top and lid with an inner tank of AISI 304 stainless steel.  
Complete with a pump for internal and external liquid circulation with inlet and outlet connectors. A cooling coil to maintain ambient temperatures using tap water is also provided.

A RS-232 interface for print out or computer control comes as standard.  
A drain tap is also fitted.



### MODEL

Part No.	Capacity litres	Control range °C	Stability °C	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Pump Pressure / Flowrate H <sub>2</sub> O	Power W	Weight Kg
3000545	8	From amb. +5 to 200 °C With external refrigeration from -20 to 200	to 100 °C ±0.1 to 200 °C ±0.1	15 20 14	36 28 36	150 mbar-12 l/min	2060	9.5



## Refrigerated recirculation baths “Frigiterm-TFT-10” and “Frigiterm-TFT-30”

ADJUSTABLE TEMPERATURE FROM -10 °C TO 100 °C. STABILITY: 0 °C TO 100 °C, ±0.1 °C / -10 °C, ±0.1 °C.  
ADJUSTABLE TEMPERATURE FROM -30 °C TO 100 °C. STABILITY: 0 °C TO 100 °C, ±0.1 °C / -30 °C, ±0.2 °C.  
SET ERROR : ±1 °C. RESOLUTION: 0.1 °C.

NEW  
DESIGN

REGULATION  
SYSTEM  
B

SIN CFC  
CFC FREE  
SANS  
CFC

RS232

USB

**SAFETY:**  
STANDARD DIN 12876. SAFETY OVER TEMPERATURE  
THERMOSTAT WITH ADJUSTABLE MANUAL RESET.  
LOW LIQUID LEVEL SENSOR PROTECTION.

### FEATURES

Maximum working volume to maintain maximum temperature: 8 litres.  
AISI 304 stainless steel top and lid with an inner tank of AISI 304 stainless steel.  
Complete with a pump for internal and external liquid circulation with inlet and outlet connectors. A drain tap is placed at the side of the unit.  
A hermetically sealed compressor is mounted on anti-vibration mounts.  
A RS-232 interface for connection to a printer or computer.



### MODELS

	Part No.	Capacity litres	Control range °C	Height / Width / Depth (usable) cm	Height / Width / Depth (exterior) cm	Pump Pressure / Flowrate H <sub>2</sub> O	Power W	Compressor power H.P.	Weight Kg
FRIGITERM-10	3000546	8	-10 + 100	12 20 14	36 66 44	150 mbar-12 l/min	1150	1/8	28
FRIGITERM-30	3000547	8	-30 + 100	12 20 14	36 66 44	150 mbar-12 l/min	1460	3/8	30