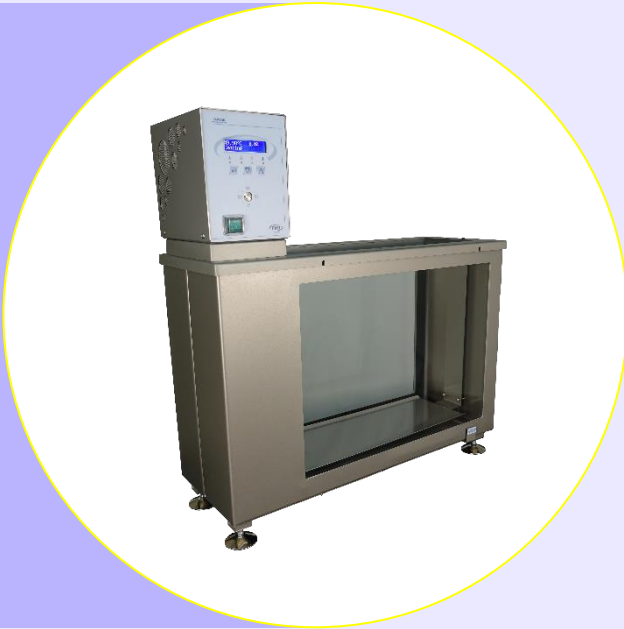


### TV3500

ASTM D445 - ASTM D446 - IP 71 - ISO/EN 3104 - ASTM D1298



- ⊕ All parts from stainless steel
- ⊕ Nine positions
- ⊕ Levelling feet for spirit level
- ⊕ RS232 communication
- ⊕ Two decimals readout (0.01°C)
- ⊕ Cooling coil
- ⊕ Fluid level detection (float)

#### General

The TV3500 is specially designed for tests that require precise temperature control like the determination of kinematic viscosity and sensor or thermometer calibration. The visibility through the bath is excellent.

The stainless steel construction ensures stable temperature control, which is further improved by a special stirring mechanism. The bath is fitted with adjustable feet for leveling. The optional cover of the bath has nine round ø51 mm openings with lids, for suspending glass capillary viscometers in holders. This item needs to be bought separately.

#### Span

The TV3500 operates from ambient .. +120°C (242°F). Sub-ambient temperatures can be achieved when using the built-in cooling coil in combination with tap water or a Tamson TLC15-5 cooling circulator. Built up of condensate may limit the practical use to about +5°C.

| Item                          | Unit     | TV3500                              |     |
|-------------------------------|----------|-------------------------------------|-----|
| P/N<br>230V/50~60Hz           |          | 19T1005                             |     |
| P/N<br>115V/60Hz              |          | 19T1006                             |     |
| Power                         | [kW]     | 1.5                                 | 1.5 |
| Heat rate water               | [°C/min] | 0.8                                 |     |
| Heat rate oil                 | [°C/min] | 1.9                                 |     |
| Heating                       | [kW]     | 1.4                                 | 1.4 |
| Used materials<br>inside bath |          | Stainless steel, brass bearings     |     |
| Range                         |          | Ambient..120°C<br>Ambient..248°F    |     |
| Reading                       | [°C/°F]  | Menu selectable                     |     |
| Setting                       | [°C/°F]  | 0.01                                |     |
| Stability ±                   | @50°C    | 0.02°C Water                        |     |
|                               | @100°C   | 0.02°C Oil                          |     |
| Bath volume                   | [L]      | 35                                  |     |
| Top lid                       |          | Removable with nine ø51 mm openings |     |
| Opening bath                  | [mm]     | 400 * 120 (effective use)           |     |
| Depth                         | [mm]     | 320                                 |     |
| Length                        | [mm]     | 590                                 |     |
| Width                         | [mm]     | 216                                 |     |
| Height                        | [mm]     | 615                                 |     |
| Weight                        | [kg]     | 20                                  |     |
| CE                            |          | All models conform to CE regulation |     |

#### Software

Use the standard RS232 interface and free TamCom® software to set parameters, program a temperature curve or log the bath temperature.

#### Accuracy

The set point is adjustable in steps of 0.01°C. The overall system accuracy and homogeneity are better than ± 0.02°C, specified with water or oil during a measuring period of one hour.

#### Temperature readout

Available in °C or °F.

#### European Pharmacopoeia

Using Ubbelohde viscometer tubes, the bath conforms to the "Pharmaceutical 2.2.9, capillary viscometer method".

### TV3500

#### Accessories

#### Safety

The bath conforms to CE regulations. It further is equipped with a mechanical adjustable and automatic over temperature safety thermostat to guarantee safe around the clock operation. When working above 50°C the safety window is advised to be used. The TV3500 is also equipped with a float to warn the user with an acoustic signal when the bath fluid is too low.



#### Safety Window

When using the TV3500 at higher temperatures it is advised to mount a safety window. The safety window protects the user from heat radiating from the inside window.

When using the safety window, the user sitting in front of the window is protected against heat and fluid, in the very rare case the window might break. All windows are made of very tough hardened glass. Use of a spill tray is also recommended to keep your lab clean. Dripping fluid from glass capillary viscometer or accidental spill during refilling the bath fluid is collected. The tray is provided with a 3/8" BSP inner thread valve.


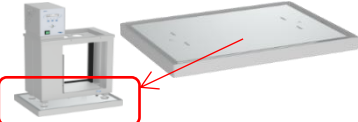


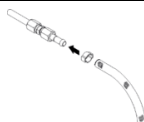






#### TV3500 is standard included with:

| P/N     | Picture   | Description   |
|---------|---|---|
| 03T2143 |  | Cover with 9 openings:<br>- 9 x ø51 mm opening<br>- 2 x ø12.5mm opening for thermometer |
|         |  | 9 * lid for ø 51 mm opening   |

### TV3500





#### Accessories

| Optional accessories  |   |   |
|-----------------------|---|---|
| P/N                   | Picture   | Description   |
| 02T0211               |    | Glass safety window with clamps.<br>For use at temperatures above 50°C.   |
| 02T0205               |    | Spill tray.<br>Protects your lab against dripping and spilling during operation or when replacing bath fluid. The tray has a drainage valve with 3/8" BSP connection. |
| 00T0909               |    | Illuminator "Z41" stand alone<br>(85~230V/50~60Hz)  |
| 00T0565               |   | Cooling circulator TLC15-5<br>230V/50Hz   |
| 00T0567               |   | Cooling circulator TLC15-5<br>230V/60Hz   |
| 00T0570               |   | Cooling circulator TLC15-5<br>115V/60Hz   |
| 12T1075               |  | Tubing with connectors and clamps to be used between the TLC15-5 cooling circulator and the TV3500.   |
| 10T6094               |  | Please see specification sheet "E20 thermometers"   |
| 14T0303               |  | Adapter to insert a TT3B thermometer in the opening of the cover  |
| 10T6090               |  | Timer, 8 positions  |
| Viscosity accessories |  | Please see specification sheet "Viscosity accessories", e.g. viscometers, viscometer holders, bath fluids, general purpose reference standards, etc                   |

TV3500

### TV3500

D1298 Set-up for Density Measurement by hydrometer

| D1298 Set-up for density measurement by hydrometer |   |   |
|--|---|---|
| P/N  | Picture   | Description   |
| 03T2128  |   | Cover with 5 openings:<br>- 5 x ø60 mm opening<br>- 2 x ø12.5mm opening for thermometer |
| 09T0400  |    | Density cylinder  |
| 00T0239  |   | Thermometer holder  |
| 00T0565  |  | Cooling circulator TLC15-5<br>230V/50Hz   |
| 00T0567  |   | Cooling circulator TLC15-5<br>230V/60Hz   |
| 00T0570  |   | Cooling circulator TLC15-5<br>115V/60Hz   |
| Hydrometers  |  | Please see specification sheet "ASTM D1298"   |

TV3500