

Determination of Water and Sediment in Fuel Oils or Crude Oils

ASTM D1796 - API 2548 - DIN 51793 - IP 75 - ASTM D4007 - IP 359 - ASTM D91 - ASTM D96 - ASTM D2273



| Item | Unit | TC16 |
|---------------------|--|----------------------------------|
| P/N 230V/50-60Hz | | 00T0671 |
| P/N 115V/60Hz | | 00T0861 |
| Power | [kW] | 1.5 |
| Range | °C °F | Ambient .. 250 Ambient .. 482 |
| Reading | | °C or °F |
| Setting | [°] | 0.1 |
| Stability ± | [°C] | 0.02 |
| Heating | [W] | 1400 |
| Bath volume | [L] | 16 |
| Bath opening | [mm] | 9 * ø51 mm |
| Bath depth | [mm] | 220 |
| Length | [mm] | 455 |
| Width | [mm] | 295 |
| Height | [mm] | 440 |
| Materials | Used inside bath: stainless steel 304, brass | |
| CE | Conforms to CE regulation | |

- ⊕ **Stainless steel bath**
- ⊕ **Cooling coil**
- ⊕ **Bath drain**
- ⊕ **Easy to operate**
- ⊕ **Position for nine centrifuge tubes**

General

The methods cover the determination for water and sediment in fuel oils (ASTM D1796) or crude oils (ASTM D4007) by the centrifuge method. The TC16 is according to the requirements of above mentioned ASTM methods where a water bath is prescribed to preheat the cone-shaped centrifuge tubes. The centrifuge is offered as an option and can be found on the specification sheet for ASTM D91. The bath has place for nine cone-shaped centrifuge tubes. The temperature range is from ambient +5°C to 250°C. With the levelling platform (P/N 13T8010) you can immerse the cone-shaped centrifuge tubes in the vertical position to the 100-mL mark as indicated in the mentioned ASTM methods.

Accuracy

The insulation of the bath and electronic design result in a very stable working temperature of ±0.02°C. The set point can be set in steps of 0.1°C in the range of 0°C up to 250°C (-148..482°F). The accuracy on the display is displayed in 0.1°C. However the controller has an internal accuracy of 0.01°C.

Temperature readout

Standard available in °C, on request in °F.

Pump

When not used to preheat the cone-shaped centrifuge tubes, the pump can be used to circulate the bath content to an external application.





Safety




The bath conforms to CE regulation. It is further equipped with a mechanical resettable safety thermostat.

Necessary accessories

Please see tables next page.

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| Necessary P/N | | ASTM | | | | |
|---|---|------|-----|-------|-------|-------|
| | | D91 | D96 | D1796 | D2273 | D4007 |
| 00T0671 TC16 230V/50-60Hz |  | 1 | 1 | 1 | 1 | 1 |
| 00T0861 TC16 115V/60Hz | | | | | | |
| 13T8010 (levelling platform + holder + cover with lids) |  | 1 | 1 | 1 | 1 | 1 |
| 00T0050 TLC10-3 230V/50Hz |  | 1 | | | 1 | |
| 00T0051 TLC10-3 230V/60Hz | | | | | | |
| 00T0052 TLC10-3 115V/60Hz | | | | | | |
| 12T1075 Tubing with connectors and clamps to be used between a TLC and a TC |  | 1 | | | 1 | |

| Optional accessories | | ASTM | | | | |
|--|---|------|-----|-------|-------|-------|
| | | D91 | D96 | D1796 | D2273 | D4007 |
| 09T0015 8" cone-shaped centrifuge tube |  | • | • | • | | • |
| 31T0209 6" cone-shaped centrifuge tube |  | | • | | | |
| 31T0226 8" 100 ml cone-shaped trace sediment centrifuge tube |  | | | | • | |