Tamson Instruments

Specification sheet

High Temperature Stability of Middle Distillate Fuels

ASTM D6468 - Dupont F21- Octel F31 - IP 467

Item	Unit	
Ordering code TC16 230V Circulator	50-60Hz	00T0671
TC16 115V Circulator	60Hz	00T0861
Power	[kW]	1.6
Range	°C F	Ambient .. 250 Ambient ..482
Reading		°C or °F
Setting	[°C]	0.1
Stability ±	[°C]	0.02
Heating	[W]	1400
Bath volume	[L]	16
Bath opening	[mm]	6 x ø51
Bath depth	[mm]	220
Length	[mm]	480
Width	[mm]	295
Height	[mm]	480
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 six test tubes (optional nine)**

General
The ASTM D6468 test method covers relative stability of middle distillate fuels under high temperature aging conditions with limited air exposure. The separately to order cover (P/N 13T8000) of the bath has six openings. The openings can accommodate test tubes (P/N 09T0012) in holders (P/N 14T0103). Optional is a cover with nine holes and lids. The temperature range is from ambient +5°C to 250°C.

Accuracy
The insulation of the bath and electronic design result in an very stable working temperature of ± 0.02°. The set point can be set in steps of 0.1° 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.

Alternative set-up
TC40 bath for 18 test tubes, see table two on the next page.

Pump
When not used for ASTM 6468 tests, the pump can be used to circulate the bath content to an external application. The bath can also be used for copper and silver corrosion tests.

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

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Options, alternative set-up and accessories

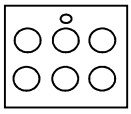
Table 1: Options for TC16		
P/N	**Picture**	**Description**
13T8000		Top lid. With six ø51 mm openings and lids (not standard included, needs to be ordered seperately).
03T2311		Top lid. With nine ø51 mm openings and lids (not standard included, needs to be ordered seperately).

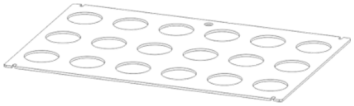
Table 2: Alternative set-up for 18 positions		
P/N	**Picture**	**Description**
00T0681		TC40 circulator, 230V/50-60Hz, for 18 positions. 40 Liter. For further information, see specification sheet TC16-TC40-TC58.
00T0851		TC40 circulator, 115V/60Hz, for 18 positions. 40 Liter. For further information, see specification sheet TC16-TC40-TC58.
03T2313		Top lid. With eighteen 51ø mm holes and lids.

Table 3: Accessories		
P/N	**Picture**	**Description**
09T0012		Test tube 25 x 200 mm.
14T0103		Test tube holder for test tube (P/N 09T0012).
08T0001		Bath fluid silicon oil 20..150°C 20ltr.
25T0975BC		Thermometer similar to ASTM 102C, white backed, 123+177:0.2°C, capillary tube specially coated inside, with non-wetting blue special liquid, government calibrated, with calibration certificate with four test points. Low hazardous to ship.
25T2154		Thermometer holder, 425 x 10 mm.
31T1000		Reflection meter. Includes Y search unit, green filter, calibration standard.

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Accessories

Table 3 (continued): Accessories		
P/N	**Picture**	**Description**
31T0410		Membrane filter holder (hydrosol stainless filter holder, 47 mm). Stainless funnel, base, and filter support screen; anodised aluminium locking ring, nylon lock wheels, teflon gaskets, silicone stopper.
31T0404		500 mL heavy walled vacuum flask.
31T0405		1000 mL heavy walled vacuum flask.
11T0031		Vacuum pump with guage (230V/50Hz)
11T0032		Vacuum pump with guage (115V/60Hz)
31T0412		Filter paper, pack of 100.

Suggested Parts	TC16 for 6 positions	TC16 for 9 positions	TC40 for 18 positions
13T8000	1		
03T2311		1	
03T2313			1
09T0012	6	9	18
14T0103	6	9	18
08T0001	1	1	2
25T0975BC	1	1	1
25T2154	1	1	1
31T0410	1	1	1
31T0404	1	1	1
31T1000	1	1	1
11T0031 or 11T0032	1	1	1
31T0412	Minimum 1	Minimum 1	Minimum 1

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