

Ageing Bath for Total Sediment in Residual Fuels

ASTM D4870 - ISO 10307 - IP 375 - IP 390



Position for 6 air wells with TC16
Position for 15 air wells with TC40
Stainless steel
Bath drain
Easy to operate
Robust, well insulated

General

Tamson is manufacturing an ageing bath for thermal and chemical ageing of the sample, conform to the procedure in the appendix of the test method. Tamson also supplies a two-position sediment tester with accessories for the total sediment test in residual fuels conform ASTM D4870, IP 375, and ISO 10307. Please see the separate D4870 specification sheet.

A selection can be made between two ageing baths. The cover (P/N 03T2310) for the TC16 offers six openings for air wells. The TC40 cover (P/N 03T2312) offers fifteen openings for air wells. Cover, air wells, conical flasks, condensers and stoppers needs to be bought separately as an accessory. Please see table 2 for all the necessary accessories. The temperature range of the ageing baths are from ambient +5°C to 250°C.

Item	Unit		
P/N TC16 230V/50-60Hz		00T0671	
P/N TC16 115V/60Hz		00T0861	
P/N TC40 230V/50-60Hz		00T0681	
P/N TC40 115V/60Hz		00T0851	
Range	°C °F	Ambient .. 250 Ambient .. 482	
Reading		°C or °F	
		TC16	TC40
Heating	[kW]	1.4	230V: 2.8 115V: 1.75
Volume	[L]	16	40
Opening	[mm]	180 * 210	420 * 275
Depth	[mm]	220	200
Length	[mm]	480	705
Width	[mm]	280	375
Height	[mm]	440	440
Weight	[kg]	21	31
Ambient condition	[°C]	18 .. 23	
Materials	All metal parts are from stainless steel, except outer case (zincor powder coated) and brass bearings		
CE	All models conform to CE regulation		

Accuracy

The insulation of the bath and electronic design result in a very stable working temperature of $\pm 0.02^{\circ}\text{C}$. The set point can be set in steps of 0.1° in the range of 0°C up to 250°C ($-148..482^{\circ}\text{F}$). 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 $^{\circ}\text{C}$, on request in $^{\circ}\text{F}$.

Pump

When not used for ageing tests, the pump can be used to circulate the bath content to an external application.

Safety

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

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Standard included

Table 1: Standard included for TC16 or TC40*		
P/N	Picture	Description
00T0671		TC16 230V/50-60Hz Circulator. Cover as shown in the picture is standard included.
00T0861		TC16 115V/60Hz Circulator. Cover as shown in the picture is standard included.
00T0681		TC40 230V/50-60Hz Circulator. Cover as shown in the picture is standard included.
00T0851		TC40 115V/60Hz Circulator. Cover as shown in the picture is standard included.

* Please see table 2 on the next page for all necessary accessories.












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Accessories

Table 2: Necessary accessories

P/N	Picture	Suggested Quantity for TC16	Suggested Quantity for TC40	Description
03T2310		1	0	Top lid for TC16. Six openings Ø62 mm with lids and one thermometer opening.
03T2312		0	1	Top lid for TC40. Fifteen openings Ø62 mm with lids and one thermometer opening.
14T0230		6	15	Air well, cylinder 55 mm in inside and 120 mm in length.
14T0232		6	15	Top lid air well with 10 mm hole.
08T0001		1	2	Bath fluid silicon oil 20..150°C 20 ltr.
25T0921BW		1	1	ASTM thermometer S22C with blue filling (non-hazardous) with works certificate @ +100°C.
31T0423		1	1	Cork for thermometer. Pack of 10 pieces.
31T0014		1	2	Conical flask, 50 mL capacity Erlenmeyer flask with narrow mouth, with Tamson logo, Pack of 10 pieces.
31T0015		1	2	Condenser, air, of borosilicate glass tubing, 8 mm in outside diameter, wall thickness 1.0 mm, and 400 mm in length. Pack of 10 pieces.
31T0016		1	2	Stopper, un-bored for conical flask. Pack of 10 pieces.
31T0017		1	2	Cork, bored centrally for the air condenser. Pack of 10 pieces.

