

### Ageing Bath for Total Sediment in Residual Fuels

ASTM D4870 - ISO 10307 - IP 375 - IP 390 (proc. A)



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 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	[W]	1400	2800
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  $0.1^{\circ}$  in the range of  $0^{\circ}\text{C}$  up to  $250^{\circ}\text{C}$  ( $-148..482^{\circ}\text{F}$ ). The accuracy on the display is displayed in  $0.1^{\circ}\text{C}$ . However the controller has an internal accuracy of  $0.01^{\circ}\text{C}$ .

#### 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.

### Ageing Bath for Total Sediment in Residual Fuels

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.

