ASTM D1838 - EN/ISO 6251 - IP 411 - BS6924 - NF M41 007



\oplus	Position for four LPG test cylinders
+ +	Overflow outlet & bath drain
Φ	Cooling fan to use at 37.8°C
•	Cooling coil for sub-ambient
♦	Easy to operate
Φ	Stainless steel bath

Item	Unit	Description	
P/N TB30 230V/50- 60Hz		00T0065	
P/N TB30 115V/60Hz		00T0066	
Power	[kW]	1.5	
Range	°C °F	Ambient80 Ambient176	
Reading	[°C/°F]	°F on request	
Setting	[°]	0.01	
Stability ±	[°C]	0.02	
Heating	[kW]	1.4	
Bath volume	[L]	30	
Bath opening	[mm]	163 x 192	
Bath depth	[mm]	460	
Length	[mm]	285	
Width	[mm]	450 (490 incl. drain)	
Height	[mm]	680	
Materials	Used inside bath: stainless steel 304, brass bearings		
CE Conforms to CE regulations			

General

The TB30 bath is designed to cover the detection of the corrosiveness to copper of liquefied petroleum gases conform to ASTM D1838, IP 411, and ISO 6251.

A test involves the immersion of a polished copper strip in approximately 100 mL of sample. The sample is exposed at a temperature of 37.8°C (100°F) for one hour in a cylinder of suitable working pressure. At the end of this period, the copper strip is removed and rated as one of the four classifications of the ASTM copper corrosion standard.

The TB30 is specifically designed to hold a temperature stable at 37.8°C without the use of an external cooling circulator. At exceptional high ambient temperatures the built-in cooling coil can be used. The bath is deep enough to accommodate four corrosion test cylinders in an upright position. Two lids to hold the test cylinders in place are standard included with the bath.

The corrosion test cylinder is manufactured by Tamson. It is supplied with a works certificate that the cylinder is pressure tested to withstand a minimum pressure of 6900 kPa and leak free when tested at 3450 kPa.

Accuracy

The insulation of the bath and electronic design result in a stable working temperature of $\pm 0.02^{\circ}\text{C}$. The set point can be set in steps of 0.01° in the range of 0°C up to 80°C (33.8 to 176°F). The display readout is in two decimals (0.00°C). Temperature range of the TB30 is from ambient up to $+80^{\circ}\text{C}$ (176°F).

Temperature readout

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

Safety

The bath conforms to CE regulation. It is further equipped with a mechanical and resettable safety thermostat. The TB30 is equipped with a float that warns the user when the level of the bath fluid in the TB30 has become too low.

RS232

The bath comes standard with RS232 communication and when using the free software tool Tamcom, it provides temperature logging or a predefined temperature set point curve.

Accessories

Table 1: TB30			
P/N	Picture	Description	
00Т0065	7	TB30 bath (230V/50-60Hz)	
00Т0066		TB30 bath (115V/60Hz)	

Table 2: Standard included with TB30:					
P/N	Picture	Quantity	Description		
03Т2322		2	Half lid and immersion holder. Contains opening in lid to view test cylinder when submerged. Two pieces of P/N 03T2322 included per bath.		







Accessories

Table 3: ASTM D1838 accessories			
P/N	Picture	Suggested quantity	Description
14T0115		4	Corrosion test cylinder including a works certificate: - withstand a hydrostatic test pressure of 6900 kPa - leakfree when tested at 3450 kPa with nitrogen (N2). Delivered complete with two needle valves, 1/4" BSP cylindrical external thread. Do not use tapered thread, or other (low pressure) adapters, hoses or accessories which are not tested for use above 6900 kPa (69 Bar)
31T0003		1	ASTM copper strip corrosion test standard.
31T0007		10	Copper strip with a 3.2 mm hole (one piece).
31T0001.100		1	Sanding paper silicon carbide P220 (box of 100 pieces).
12T1070	\$	4	Flexible inert hose: - Stainless steel connectors, - 1/4" BSP cylindrical inner thread Length 60 cm, - For use with gas, - Tested up to 10000 kPa (100 Bar) Do not use tapered thread, or combine with (low pressure) adapters, hoses or accessories which are not tested for use above 6900 kPa (69 Bar).
31T0000		1	Multistrip vise, holds up to four strips while polishing.
31T0005		1	Silicon carbide powder 105 μm (1 kg).
09Т0011		4	Flat viewing test tube.
25T0928BW		1	ASTM thermometer similar to 34C with blue filling (low-hazardous) to ship. Temperature range +23°C - 105°C:0.2°C. Supplied with works certificate.
25T2154		1	Thermometer holder 425 x 10 mm.





Accessories

Table 4: Spareparts for LPG cylinder				
P/N	Picture	Suggested Quantity	Description	
23T0079		2	Stainless steel nipple 1/4" x 1/4" BSP <u>cylindrical</u> thread. Do not use tapered thread , or combine with adapters, hoses or accessories which are not tested for use above 6900 kPa (69 Bar).	
23T0200	0	10	Washer cupper 13 x 17 x 1.5 mm.	
23T0201	0	10	Washer cupper 8 x 12 x 1 mm.	
24T0388	0	10	O-Ring NBR 37 x 43 x 3 mm.	
23T0009	6907	2	High pressure (400 Bar) needle valve, 2 x BSP 1/4" <u>cylindrical</u> thread. Do not use tapered thread, or combine with adapters, hoses or accessories which are not tested for use above 6900 kPa (69 Bar).	

Table 5: Options for TB30 bath			
P/N	Picture	Suggested Quantity	Description
03T2324		1	Cover for copper or silver corrosion test conform ASTM D130, D7667 and D7671. Used in combination with other lid, like P/N 03T2322 or P/N 03T2320.
14T0101	15	3	Lid and mounting hook. Three pieces needed in combination with P/N 03T2324.

