



environmentally friendly coolant!

Thermostatically controlled incubators TC-Series

Illuminated LED display of preset and current temperatures



Temperature control unit

Low power consumption

Ideal for BOD determination at 20 °C



Temperature control unit

The temperature control unit fulfils the EMC requirements according to IEC 61326 : Electrical equipment for measurement, control and laboratory use.

The TC series of thermostatically controlled cabinets is used for continuous temperature control over a range of 2 °C to 40 °C. This makes them ideal for a wide range of different applications in industrial and research laboratories.

In particular they are ideal for the temperature-controlled storage of samples or BOD determination in effluent analysis work.

The temperature can be set in steps of 0.1 °C and an LED display shows both the set temperature and the current temperature in the cabinets. Instruments such as magnetic agitators, which require a power supply, can be connected to sockets incorporated in the interior of the cabinet. The integral temperature control unit meets the requirements of the EMC directive issued as IEC 61326: "Electrical instruments for measurement, monitoring and for use in laboratories".

Improved, robust, insulated housing and highly efficient components provide maximum energy efficiency.

There are 3 models available with standard doors from 135 to 445 litres net capacity, and 2 models with glass doors with 140 and 255 litres net capacity, the doors are lockable.

Space for BD 600-systems		
Model	6er-systems, standard ¹⁾	6er-systems, comfort ²⁾
TC 135 S / TC 140 G	3	2
TC 255 S / TC 256 G	7	3
TC 445 S	12	9

1) Change of bottles by removing racks.
2) Change of bottles without removing racks.

Applications

- BOD Measurement
- Microbiological Research
- Food Industry
- Dairies
- Laboratories
- Research Centres
- Universities

Technical Data	Models with standard door			Models with glass door	
	TC 135 S	TC 255 S	TC 445 S	TC 14-0 G	TC 256 G
Cooling/Heating	Integrated powerful cooling and heating				
Coolant	R600a				
Design	Fully insulated cabinet with universal temperature control unit				
Display	Backlit LED display				
Operation	Splash-proofed keypad, 2 buttons with tactile feedback				
Fan	Axial, output 320 m³/h				
Control range	+ 2 °C to + 40 °C, steps of 0.1 °C				
Power supply	220 - 240 V / 50 Hz				
Sockets	CEE 7/5, type E with hinged lid, 230 V / 16 A 2p + E, IP 4				
Door	lockable, door hinges changeable			Insulating glass door in an ABS frame, ceiling lighting, separately switchable	
Temperature tolerance	± 1 °C, specified for a stirred 500 ml water sample. For BOD (T=20 °C ±0.5 °C)				
Lighting				LED light bar	fluorescent tube
Climate class	+ 10 °C to + 32 °C (SN)		+10 to +43 °C (SN-T)	+ 10 °C to + 32 °C (SN)	
Shelf	3 retractable grids + 4 sockets	4 retractable grids + 1 bottom grid + 7 sockets	4 retractable grids + 1 bottom grid + 9 sockets	3 retractable grids + 1 bottom grid + 4 sockets	4 retractable grids + 1 bottom grid + 7 sockets
Energieverbrauch	ca. 1.41 kWh / 24h*	ca. 1.33 kWh / 24h*	ca. 1.24 kWh / 24h*	ca. 1.61 kWh / 24h**	ca. 1.91 kWh / 24h**
Inside dimensions (ca.)	513 W x 441 D x 702 H mm	470 W x 440 D x 1452 H mm	600 W x 560 D x 1452 H mm	513 W x 441 D x 702 H mm	470 W x 440 D x 1452 H mm
Overall dimensions (ca.)	600 W x 600 D x 850 H mm with worktop 600 W x 600 D x 819 H mm without worktop built-under	600 W x 610 D x 1640 H mm	750 W x 730 D x 1640 H mm	600 W x 600 D x 850 H mm with worktop 600 W x 600 D x 819 H mm without worktop built-under	600 W x 610 D x 1640 H mm
Net capacity (ca.):	135 l	255 l	445 l	140 l	255 l
Weight	39.0 kg	45 kg	78,5 kg	48,0 kg	77,0 kg
Shelf loading capacity	45 kg		60 kg	45 kg	
Approval	CE				
Code	2 43 82 00	2 43 82 30	2 43 82 40	2 43 82 10	2 43 82 35

* Ambient temperature 25 °C, Target temperature 20 °C, Variations possible

** Ambient temperature 25 °C, Target temperature 20 °C with interior lighting switched on (15 W), Variations possible



Temperature Control