Thermostatically controlled incubators - TC series

with standard / glass door



The TC series of thermostatically controlled cabinets is used for continuous temperature control over a range of 2 $^{\circ}$ C to 40 $^{\circ}$ 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. Devices 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 devices for measurement, monitoring and for use in laboratories".

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

There are 4 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.

Highlights Temperature range 2 °C to 40 °C, continuously adjustable in steps of 0.1 °C Low power consumption Illuminated LED display of preset and current temperatures Ideal for BOD determination at 20 °C Power sockets inside the incubator 6 models in 4 sizes Standard door or glass door



Temperature control unit

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

Technical Data

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Design	Fully insulated cabinet with universal temperature control unit	
Lock	existing	
Models with glass door	Insulating glass door in an ABS frame. Ceiling lighting, separately switchable	
Operation	Splash-proofed keypad, 2 buttons with tactile feedback	
Control range	+ 2 °C to + 40 °C, steps of 0.1 °C	
Climate class	+ 10 °C to + 32 °C,	
Temperature tolerance	\pm 1 °C, specified for a stirred 500 ml water sample. For BOD (T=20 °C \pm 0,5 °C)	
Display	Backlit LED display, Resolution 0.1 °C	
Fan	Axial, output 320 m³/h	
Cooling/Heating	Integrated powerful cooling and heating	
Power supply	220 - 240 V / 50 Hz	
Sockets	CEE 7/5, type E with hinged lid, 230 V / 16 A, 2p + E, IP 44	
Coolant	R134a	
Approval	CE	

Models with standard door

TC 135 S

3 metal racks + 1 bottom grid + 4 sockets Consumption: approx. 1.35 kWh / 24 h* I. D. (approx.): 513 W x 441 D x 702 H mm

Net capacity: approx. 1351

O. D. (approx.):

600 W x 600 D x 850 H mm with work top 600~W~x~600~D~x~819~H~mm without work top

Suitable for built under applications

Weight: approx. 39.0 kg Order code: 438200



Models with glass door

TC 140 G

3 metal racks + 1 bottom grid + 4 sockets Consumption: approx. 1.77 kWh / 24 h**

I. D. (approx.): 513 W x 441 D x 702 H mm

Net capacity: approx. 140 I

O. D. (approx.):

 $600~\text{W} \times 600~\text{D} \times 850~\text{H} \times \text{mm}$ with work top 600 W x 600 D x 819 H mm without work top

Suitable for built under applications

Weight: approx. 48.0 kg

Order code: 438210



TC 175 S

3 metal racks + 1 bottom grid + 5 sockets Consumption: approx. 1.23 kWh / 24 h* I. D. (approx.): 470 W x 440 D x 1062 H mm Net capacity: approx. 1751

O. D. (approx.): 600 W x 610 D x 1250 H x mm

Weight: approx. 51.0 kg Order code: 438220



TC 256 G

4 metal racks + 1 bottom grid + 7 sockets Consumption: approx. 1.56 kWh / 24 h** I. D. (approx.): 470 W x 440 D x 1452 H mm Net capacity: approx. 255 I

O. D. (approx.): 600 W x 610 D x 1640 H x mm Weight: approx. 77.0 kg

Order code: 438235



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

TC 255 S

4 metal racks + 1 bottom grid + 7 sockets Consumption: approx. 1.54 kWh / 24 h* I. D. (approx.): 470 W x 440 D x 1452 H mm Net capacity: approx. 255 I

O. D. (approx.): 600 W x 610 D x 1640 H x mm

Weight: approx. 61.0 kg Order code: 438230



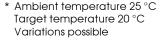
TC 445 S

4 metal racks + 1 bottom grid + 9 sockets Consumption: approx. 1.42 kWh / 24 h* I. D. (approx.): 600 W x 560 D x 1452 H mm

Net capacity: approx. 445 I

O. D. (approx.): 750 W x 730 D x 1640 H x mm

Weight: approx. 78.5 kg Order code: 438240





Space for BOD BD 600 systems in thermostatically controlled incubators

Model	systems, standard ¹⁾	systems, comfort ²⁾
TC 135 \$ / TC 140 G	3	2
TC 175 \$	5	2
TC 255 \$ / TC 256 G	7	3
TC 445 S	12	9

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

