

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 °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. 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 control unit fulfills the EMC requirements according to IEC 61326: Electrical equipment for measurement, control and laboratory use.

Technical Data

| | |
|-------------------------------|--|
| 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 | ± 1 °C, specified for a stirred 500 ml water sample. For BOD (T=20 °C ±0,5 °C) |
| Display | Backlit LED display, Resolution 0.1 °C |
| Fan | Axial, output 320 m ³ /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*

Shelf loading capacity: 45 kg

Interior light: Fluorescent tube

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

Net capacity: approx. 135 l

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**

Shelf loading capacity: 45 kg

Interior light: Fluorescent tube

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

Net capacity: approx. 140 l

O. D. (approx.):

600 W x 600 D x 850 H x 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

only available
until June 2018!

3 metal racks + 1 bottom grid + 5 sockets

Consumption: approx. 1.23 kWh / 24 h*

Shelf loading capacity: 45 kg

Interior light: Fluorescent tube

I. D. (approx.): 470 W x 440 D x 1062 H mm

Net capacity: approx. 175 l

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**

Shelf loading capacity: 45 kg

Interior light: Fluorescent tube

I. D. (approx.): 470 W x 440 D x 1452 H mm

Net capacity: approx. 255 l

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

Weight: approx. 77.0 kg

Order code: 438235



TC 255 S

4 metal racks + 1 bottom grid + 7 sockets

Consumption: approx. 1.54 kWh / 24 h*

Shelf loading capacity: 45 kg

Interior light: Fluorescent tube

I. D. (approx.): 470 W x 440 D x 1452 H mm

Net capacity: approx. 255 l

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

Weight: approx. 61.0 kg

Order code: 438230



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

Space for BOD BD 600 systems in thermostatically controlled incubators

| Model | systems, standard ¹⁾ | systems, comfort ²⁾ |
|---------------------|------------------------------------|-----------------------------------|
| TC 135 S / TC 140 G | 3 | 2 |
| TC 175 S | 5 | 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.

TC 445 S

4 metal racks + 1 bottom grid + 9 sockets

Consumption: approx. 1.42 kWh / 24 h*

Shelf loading capacity: 60 kg

Interior light: Fluorescent tube

I. D. (approx.): 600 W x 560 D x 1452 H mm

Net capacity: approx. 445 l

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

Weight: approx. 78.5 kg

Order code: 438240



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

Applications

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