

# 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

<b>Design</b>	Fully insulated cabinet with universal temperature control unit
<b>Lock</b>	existing
<b>Models with glass door</b>	Insulating glass door in an ABS frame. Ceiling lighting, separately switchable
<b>Operation</b>	Splash-proofed keypad, 2 buttons with tactile feedback
<b>Control range</b>	+ 2 °C to + 40 °C, steps of 0.1 °C
<b>Climate class</b>	+ 10 °C to + 32 °C,
<b>Temperature tolerance</b>	± 1 °C, specified for a stirred 500 ml water sample. For BOD (T=20 °C ±0,5 °C)
<b>Display</b>	Backlit LED display, Resolution 0.1 °C
<b>Fan</b>	Axial, output 320 m <sup>3</sup> /h
<b>Cooling/Heating</b>	Integrated powerful cooling and heating
<b>Power supply</b>	220 - 240 V / 50 Hz
<b>Sockets</b>	CEE 7/5, type E with hinged lid, 230 V / 16 A, 2p + E, IP 44
<b>Coolant</b>	R134a
<b>Approval</b>	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 <sup>1)</sup>	systems, comfort <sup>2)</sup>
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

<sup>1)</sup> Change of bottles **by** removing racks.

<sup>2)</sup> 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