

# Thermostatically controlled incubators - TC series



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.

## Standard or glass door - lockable

### 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

### Applications

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

## 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. 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: 2 43 82 00

### 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. 175 l

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

Weight: approx. 51.0 kg

Order code: 2 43 82 20

\* Ambient temperature 25 °C

Target temperature 20 °C

Variations possible

## Models with standard door

### 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 l

O. D. (approx.):

600 W x 610 D x 1640 H x mm

Weight: approx. 61.0 kg

Order code: 2 43 82 30

### 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 l

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

Weight: approx. 78.5 kg

Order code: 2 43 82 40

\* Ambient temperature 25 °C

Target temperature 20 °C

Variations possible

## 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 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: 2 43 82 10

### 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 l

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

Weight: approx. 77.0 kg

Order code: 2 43 82 35

\*\* Ambient temperature 25 °C

Target temperature 20 °C

with interior lighting switched on (15 W)  
Variations possible

## 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<br>Resolution 0.1 °C                                       |
| <b>Fan</b>                   | Axial, output 320 m³/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   |

## Space for BD 600 systems

| 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.

## Temperature control unit

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

