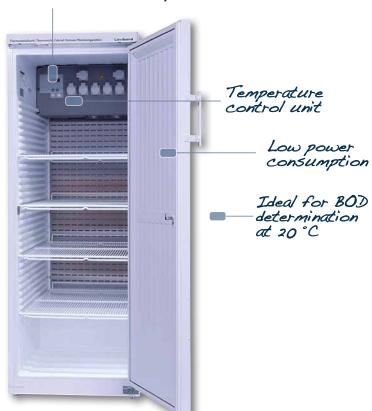


Thermostatically controlled incubators TC-Series

Illuminated LED display of preset and current temperatures



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 temperaturecontrolled 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.



Temperature control unit

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

Applications

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

133

| 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 | 445 l | 140 l | 255 | |
| Weight | 39.0 kg | 45 kg | 78,5 kg | 48,0 kg | 77,0 kg | |
| Shelf loading capacity | 45 kg | | 60 kg | 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



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