

Concrete Curing Test Chamber

C700B PRO - C700BX PRO (SPS07 Option)

STANDARDS EN 1367-1 | EN 12390-9 | EN 12371 | EN 1348 | EN 1324



SPS07 - Flooding system

The flooding and discharging water system.
It is composed by two vessels, both in stainless steel.

Inner tank (gross volume 112 l)

The net volume flooded by water is 500x500x380 mm (95 l).
Suitable for test 9 concrete cubes 150x150x150 mm.

The samples are supported by a perforated plate which distances the lower surface of the specimen from the bottom of the tank so to expose all the faces of the specimen to the water.

External tank

It is composed of a water reservoir and of a technical room that contains all the necessary components to keep the water warm and to push it inside the chamber or to take it back from the instrument.

The external water reservoir must be filled manually during the first installation.

The external tank has its own power cord and is connected with the chamber through a fast connector. The chamber will automatically or manually activate the external tank in such a way to flood or drain the internal tank.

Volume



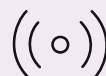
700 liters

Temperature



-25°C to +70°C

Temperature Sensor



PT 100

Interface



revo**FACE**

Humidity



10 to 98% rh

Flooding system



Automatic water regulation

Weight



160 Kg

Voltage



220/240V 50Hz or
110-115V ~ /60Hz

**This test chamber could be according to other standards.*

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FDM reserves the right to modify its equipment at any time without updating this manual.

| Model | C700B PRO + SPS07 Option |
|---|--|
| Temperature range without humidity [°C] | -25...+70 |
| Temperature performance | |
| Temperature uniformity depending on setpoint [± K] | 0.5..2.5 |
| Temperature fluctuation depending on setpoint [± K] | 0.1..0.5 |
| Average heating-up rate according to EN 60068-3-5 [K/min] | +2 |
| Average cooling down rate according to EN 60068-3-5 [K/min] | -1 |
| Performance Data Climate | |
| Temperature range [°C] | 10/90 |
| Humidity range in according to Chart ^{*1} [% RH] | 10/98 |
| Humidity fluctuation depending on setpoint [± %] | ≤ 3 |
| Humidification system | Ultrasonic humidification system |
| Water filter | Water softening filter and replaceable cartridge equipped ^{*2} |
| Max Water hardness permitted | 600 ppm CaCO ₃ |
| Water inlet | Pressure 0.2÷5 BAR Temperature 10÷40°C Pipe connection 3/4" |
| Outer dimensions | |
| Width net [mm] | 750 |
| Depth net [mm] | 980 |
| Height net [mm] | 2100 |
| Doors | |
| Unit doors | 1 |
| Internal Dimensions | |
| Width [mm] | 600 |
| Depth [mm] | 670 |
| Height [mm] | 1350 |
| Measures | |
| Interior net volume [L] | 530 |
| Net weight of the unit (empty) [kg] | 160 |
| Permitted load per rack [kg] | 30 |
| Fixtures | |
| Number of shelves (std./max.) | 3/6 |
| Shelf Width [mm] | 530 |
| Shelf Depth [mm] | 650 |
| Tanks measures | |
| Net volume flooded by water [L] | 112 |
| Width [mm] | 500 |
| Depth [mm] | 500 |
| Height [mm] | 450 |
| revoFACE Programmer | |
| Set-up Display | Programme status, set up temperature and humidity, weekdays, time and language |
| Programmer | 10 programs and 50 segments each, adjustable from 1 min. to 999 hrs. |
| Calibration | Possibility to calibrate all parameters |
| Interface port | Optional: RS485 - Optional: Ethernet - Wifi - Dedicated mobile app |
| Environment-specific data | |
| Sound-pressure level [dB(A)] | 60 |

^{*2}The cartridge should be replaced every 4÷6 months.

All technical data are specified for units with standard equipment at an ambient temperature of +24 °C and a voltage fluctuation of ±10 %.

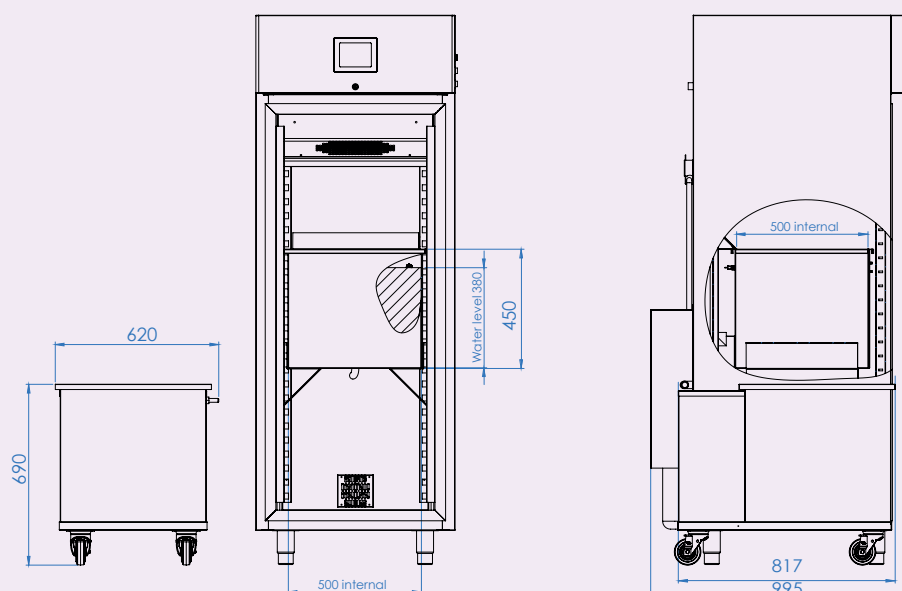


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| Negative Range (B) | C700B PRO + SPS07 Option |
|-----------------------------------|---|
| Structure and insulation | |
| Exterior material | White coated galvanized steel or full Stainless steel AISI 304 |
| Internal material | White coated galvanized steel or full Stainless steel AISI 304 |
| Insulation | CFC and HCFC free |
| Shelf grill | Removable and height adjustable steel grid |
| Ventilation | |
| Fan | forced ventilation |
| Safety | |
| Temperature | Class 2 independent adjustable temperature safety devices (DIN 12880) |
| Alarm | Audio-Visual |
| Electrical data | |
| Energy consumption at 37°C [kWh/] | 2.18 |
| Rated Voltage [V] | 220/240 |
| Power frequency [Hz] | 50 |
| Nominal power [kW] | 2 |
| Unit fuse [A] | 16 |
| Phase (nominal voltage) | 1 ~ |

Draw



Main Options

- **MINI T-RH** - Temperature/humidity Datalogger
- **UDB100** - USB port for storage data
- **ETH100** - Ethernet interface for remote connection
- **SND20T** - Additional temperature sensor (Pt 100)
- **SND80H** - Additional humidity sensor
- **ASW00** - Water filtration system
- **HPA14** - Air ventilation filter (Hepa 14)
- **BDS020** - Relative humidity decreasing up to 2% @ 20°C
- **CO200** - CO2 Regulation System for EN 12390-10
- **PE100** - Interior socket coverable universal 220-230 V
- **IR000** - Interior neon lighting
- **IR000LED** - Interior LED lighting
- **IS200** - Dimmable adjusting light for individual lamp
- **FP100** - Photoperiod 24h control
- **IR000LED** - Interior LED lighting
- **GD100** - Glass door
- **SP100** - Internal compartments lexan door
- **GW100** - Phorthole with anti-fogging glass (Ispection window)
- **UMS100** - Sterilised flux vapor humidifier
- **PAC00** - Wooden crate packaging
- **PAW00** - Wooden boxes packaging
- **RT100** - Castors kit
- **FA100C** - Access cables port with plug
- **GP100** - Additional rack
- **GP100R** - Additional reinforced rack
- **TE110** - Power supply 110 V 50-60 Hz

For the full options availability go to: bit.ly/2ltjSuP

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