

Specifications Model IceCube 11XS

Controlled Rate Freezer

- Temperature range: -150 °C to +40 °C (-238 °F to +104°F).
- Pt-100 Temperature sensors (1 chamber + 1 sample), 4-wire technique, Ø 1 mm.
- Direct airstream with recirculation.
- Magnetic valve (solenoid), pulse operation.
- Virtual unlimited number of programs with max. 50 steps.

Cooling rates: 0.01-40 °C/min.

Heating rates: max. 10 °C/min, 360 Watt (for chamber drying).

Temp. display (resolution): 0.01 °C.

Electric Supply

Freezer: 220-240 VAC, 2.2 A or 115V AC 4 A, please specify with order.

Freezing Chamber and Capacity

Volume nominal: 1.6 liters, the instrument can be operated vertically or horizontally.

Cooling principle: Chamber in chamber gas-circulation, liquid nitrogen as cooling medium.

Sample capacity: 36 pcs 2ml vials in 2 levels or 18 pcs 5ml vials in one level or 16 pcs CBS High Security Straws, 2,3 mm Ø 3 mm Ø or 16 pcs. Standard Straws in 4 sample holders.

Terminal for Operation and Control

Tablet computer with touch-sensitive screen.

Size: Display varies between 10 and 11 inch. Max. width of tablet PC = 190mm, max depth 10 mm

Display resolution: min. 1280 x 800 pixels.

Min. 1 USB interface for data exchange with IceCube 11XS.

Operating system: Windows 8 or higher.

Dimensions/Weight

Freezer (B x T x H in mm): vertical: 300 x 480 x 520 or in horizontal position: 370 x 480 x 460 without LIN supply vessel.

Weight: 16.5 kg without accessories.

Liquid nitrogen (LIN) supply: from 35 l, optional 60 l self-pressurizing.

Work pressure: 0.5-1.5 bar max. (7-21 psi max).

Standard equipment: with sample sensor and sample sensor holder f. straws (11-101360) and sample sensor holder f. vials (11-101361). No sample holders included.

Accessories

Chamber furniture: 11-101355 straws holder with click closure (max. 4 pcs).

Options: 11-105620 holder for vials.

A complete setup comprises 4 straw holders and/or 1 vial holder.