



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

DETERMINATION OF FROST RESISTANCE-(BIS 13630-10, EN ISO 10545-12)



Compliance standards:

EN ISO 10545-12, ASTM C1026, IS 13630 (Part-10) (amended in 2019)

Salient features:

1. Suitable for tile size up **500 X 500 mm**
2. Designed to match the **IS : 13630 (part 10) and EN ISO 10545-12**
3. Capable to conduct automated freeze thaw cycle automatically
4. Capable to reduce temperature from **5°C to (- 5°C) within the permissible limit of 0.5 °C and capable to maintain the temperature @ (-5 °C) for 15 mins automatically. After that it has facility to reach (+5 °C) rapidly.** This is the completion of one freeze-thaw cycle.
5. Capable to conduct the pre decided freeze-thaw cycles **(100 cycle as per BIS 13630)**
6. **Fully automatic touch screen PLC - HMI based programming**
7. CFC free refrigeration system
8. Heavy duty Castor wheels for easy movement
9. Fin & Tube type air-cooled condenser
10. Double Gasket system for leak proof Design
11. Heavy duty hinges with toggle type
12. **Auto removal of water as soon as temperature reaches to 5 °C, while operating in freezing cycle.**
13. **Auto insertion of water as soon as temperature reaches to 5 °C, while operating in thawing cycle.**
14. **Capable to place 10 samples vertically**
15. **The samples will be covered with water 50 mm above the top height of the sample**

Note

Following accessories are required to conduct the entire experiment as per ISO 10545-12 Standard and shall be procured at extra cost.

- (1) Hot air oven
- (2) Electronic Balance
- (3) Chamois Leather
- (4) WATER IMPREGNATION CHAMBER FOR FROST RESISTANCE TESTER - 500 X 500 MM TILES - BIS 13630 - 10

Technical Specification

•Exterior body	:	Mild steel
•Inner Chamber	:	Duly Polished 304 Grade Stainless Steel inner chamber
•Paint	:	Powder coating in attractive shades
•Insulation	:	Polyurethane Insulation (PUF)
•Temperature Control	:	Microprocess based PID Digital temperature controller cum indicator
•Temperature sensor	:	PT - 100 sensor
•Temperature Accuracy	:	± 0.5 °C
•Temperature Range	:	(-5 °C) to (+5 °C)
•Temperature Resolution	:	0.1 °C
•Mobility	:	On castor wheels
•Refrigeration System	:	EMERSON/DANFOSS Make, CFC Free system
•Sample Qty	:	10 samples can be placed vertically, so that sample don't touches each other

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