



#### Applications :

The Rapid Freeze-Thaw Cabinet is used to measure the resistance of concrete to deterioration caused by repeated cycles of freezing and thawing in water. The system is designed to test up to eighteen 3" x 4" x 16" (76 x 102 x 406 mm) concrete specimens simultaneously, with one being a control. Fully automatic operation frees operator to perform other lab duties.

#### Salient Features :

- Allows users to establish field control using correlations between concrete strength and durability
- Permits the evaluation of variables in concrete properties and conditioning.
- Useful in the evaluation of the durability of aggregates, as well as the properties of ad mixtures.
- Horizontal stand alone model with mobility on castor wheels
- Fully complies with ASTM C666 Standard
- Fully automatic operation (PROCEDURE A) frees user to perform other lab activities
- For PROCEDURE B, User will have to manually pour the water inside the test container.
- Exterior body is fabricated from Stainless Steel – 304 Grade material
- Internal chamber is also manufactured from Stainless Steel S.S. – 304 Grade material.
- Cooling coil is incorporated within inner chamber to achieve desired temperature below zero degree Centigrade
- Supplied with 8 different corrosion resistant stainless steel test containers
- Can accommodate 8 different test specimens
- Can perform 8 Freeze-Thaw cycle during 24 hours of time
- 7" touch screen HMI & PLC Control system
- HMI System facilitates in-built 24/7 data logger system to accurately maintain record of control specimen temperature throughout the testing period
- User can set min/max temperature extremities as per test cycle requirement
- User defined no of cycles as per ASTM C666 Requirements
- Produce beep sound on completion of cycle
- CFC Free Emerson/Danfoss/Kirloskar make refrigeration system
- User can set Ramp & Soak rates as per test requirements
- Dedicated PC Software to log, modify and analyze the generated test results
- Supplied complete with instruction manual and calibration certificates
- Operates on 230 volts, 50 hz, Single phase, AC Supply

Note: Specifications are subject to change.



Order Code - 30125  
Accelerated Carbonation Chamber

### Technical specification

Temperature Range	: -20 to 60 °C
Temperature Accuracy	: ± 0.1 °C
Temperature Resolution	: 0.1 °C
Temperature controller	: Digital temperature controller cum indicator
Temperature sensor	: PT-100 Sensor
Display	: LCD Touch screen display
Screen Size	: 7" Touch screen
Exterior body	: Mild Steel Material
Inner chamber	: Stainless Steel S.S. - 304 Grade, Heavy duty
Lid Material	: Stainless Steel S.S. - 304 Grade
Insulation	: Puff Insulation
Insulation thickness	: 3" (76 cm)
Mobility	: Castor Wheels

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