

EC Series

- > EC20-1-1
- > EC40-1-1
- > EC70-1-1
- > EC100-1-1

Moist Cabinet/ Cement Curing Chambers

Moist Cabinet/Cement Curing Chamber

The Envirotronics EC Series Moist Cabinet/Cement Curing Chambers are specifically designed for use in the making and curing of hydraulic cement and concrete test specimens. Combined insight into the curing process and chamber maintenance has led to many design features which add to the ease of operation, and simplify the cleaning and maintenance of this chamber.

The EC Series is equipped with both dry and submerged storage. Its large workspace has an operating temperature range of 15.6° C to 37.8° C and humidity range of 40% to 98% R.H. as limited by a +4.5° C dewpoint temperature. Temperature control is maintained through a Parlow brand controller/recorder and humidity controlled with a solid state R.H. transmitter/sensor.

Access to the stainless steel construction workspace area is through large fully opening hinged doors, each with a rugged two-point cylinder locking latch. Each workspace area holds removable stainless steel wire shelves and 6"-deep removable cement curing trays, each with fill/drain and overflow fixtures for easy condensate removal and cleaning. The water reservoir in the chamber base also has an inlet/outlet drain for easy cleaning. Numerous exterior access panels are also provided for easy maintenance service.

The EC Series uses a one HP single-stage refrigeration system utilizing "environmentally friendly" refrigerant HP62 (R404A) and a local air-cooled condenser. EC Series chambers are available in 20, 40, 70, and 100 cubic foot models*.

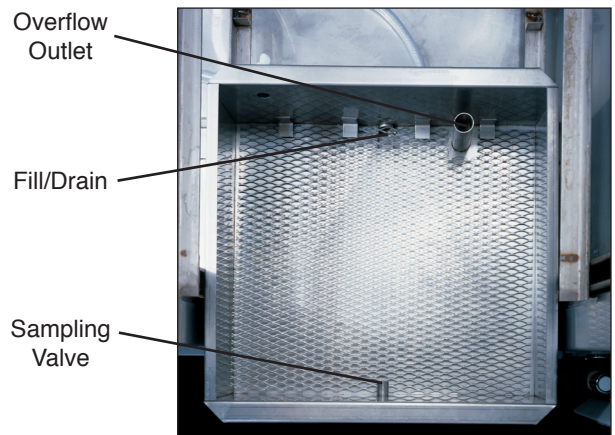
Conforms with ASTM C 511-06.

*other size models available upon request



At left: Each of the large door accesses reveals a work area with an arrangement of removable stainless steel wire shelves and removable 6"-deep cement curing trays.

Top and bottom curing trays have a Fill/Drain fixture located at the back/bottom of the tray (as shown in the detail photo below). The Fill/Drain helps to simplify the draining, precipitate removal, cleaning, and refilling process. The center trays have a drain only. Top tanks have a sampling valve in front. Each tray also has an overflow outlet which allows overflow to drain to a lower tray.



EC Series

Moist Cabinet/Cement Curing Chamber

Standard Construction Features

| MODEL | EC20-1-1 | EC40-1-1 | EC70-1-1 | EC100-1-1 |
|--|---|---|--|--|
| Interior Workspace Dimensions | 25W x 25.5D x 56.5H (in) 635W x 648D x 1435H (mm) | 56W x 25.5D x 56.5H (in) 1422W x 648D x 1435H (mm) | 87W x 25.5D x 55H (in) 2209W x 648D x 1397H (mm) | 87W x 25.5D x 62H (in) 2209W x 648D x 1575 (mm) |
| External Dimensions | 68.5W x 35.0D x 81.5H (in) 1740W x 889D x 2070H (mm) | 99.5W x 35.0D x 81.5H (in) 2527W x 889D x 2070H (mm) | 130.5W x 35.0D x 80.0H (in) 3315W x 889D x 2032H (mm) | 130.5W x 35.0D x 87H (in) 3315W x 889D x 2210H (mm) |
| Stainless Steel Wire Specimen Shelves | (5) | (10) | (12) | (15) |
| 6"-deep Cement Specimen Curing Trays each with Drain and Overflow Fixtures | (4) | (8) | (9) | (12) |
| Doors with Two-Point Cylindrical Locking Latch Doors and Door Drip Pan | (1) 22W x 53.75H Access | (2) 22W x 53.75H Access | (3) 22W x 53.75H Access | (3) 22W x 53.75H Access |
| Temperature Range | 60°F to 100°F, ±2.0°F | | 15.6°C to 37.8°C, ±1.1°C | |
| Temperature Control | Partlow 7000 Dual Channel Controller/Chart Recorder | | | |
| Humidity Range | 40% to 98% R.H., ±2% R.H. as limited by a +4.5° C dewpoint temperature | | | |
| Humidity Control | Solid State R.H. Transmitter/Sensor | | | |
| Refrigeration System | One 1 HP compressor utilizing HP62 (R404A) and a local air-cooled condenser | | | |
| Power Requirements | 230V -3Ø- 60 Hz, 23 FLA or 230V -1Ø- 60 Hz, 33 FLA | | | |
| Humidity Air inlet | 1/4" N.P.T.F. | | | |
| Humidity Water Inlet | 1/4" N.P.T.F. | | | |
| Mixing Tank Fill | 1" N.P.T.F. | | | |
| Chamber Drain | 3/4" N.P.T.F. | | | |

Other size models available upon request.

