

CURING TANK

Curing Tanks are essential tools in the construction and materials testing industry, specifically designed for curing concrete cubes and cylinders in a controlled environment. The curing process is critical to ensure that concrete reaches the required strength and durability before further testing or use. Curing Tanks conform to several international standards, including EN 12390-2, ASTM C31, ASTM C192, and ASTM C511, ensuring consistent and reliable performance.



VTR-13-035

Curing Tank

Optimal Conditioning for Concrete Samples

Temperature Control and Heater Features

The Curing Tank is equipped with a thermostat-controlled heater, allowing precise temperature adjustments between ambient temperature and 40 °C, with an accuracy of ± 2 °C. The temperature regulation is managed by a digital thermoregulator, ensuring that the desired conditions are maintained throughout the curing process. This level of temperature control is essential for the proper hydration and hardening of concrete specimens.

The Thermostat-Controlled Heater comes with a Metal Base Grate and a Submersible Circulation Pump to ensure even water temperature distribution throughout the tank. A Cooling Unit is also available upon request; it must be factory installed and ordered separately to provide temperature control in environments where cooling is necessary.

The heater unit is portable, meaning it can be positioned inside the curing tank according to user preference, providing flexibility and convenience during use. The curing tank itself is constructed from powder-coated steel sheet, ensuring durability and resistance to environmental elements.

Accessories and Features

The Curing Tank is supplied with the following components:

- Heater: Thermostat-controlled for consistent temperature maintenance
- Circulation Pump: Ensures uniform water temperature throughout the tank.
- Metal Base Grating: Provides support for concrete specimens without any distortion.

A top grid for holding concrete samples above the water before the compressive strength test can be ordered separately, with a capacity of up to 8 pieces.

Specimen Curing Tank Specifications

The curing tank is available in various sizes, accommodating different capacities and specimen quantities:

These tanks are ideal for use in site laboratories, providing a robust metal internal base to hold concrete specimens securely and without distortions

Curing Tank

Optimal Conditioning for Concrete Samples

Optional Accessories

The curing tank can be fitted with a variety of accessories, including:

- Immersion Analog and Digital Heating Systems: Provide consistent temperature control for the curing process.
- Submersible Circulation Pump: Ensures uniform water temperature throughout the curing tank.
- Metal or Plastic Covers: Available to maintain a stable curing environment and reduce heat loss.

Summary

Curing Tanks are crucial for maintaining the required conditions for concrete curing, ensuring that concrete specimens reach their intended strength and durability. With precise temperature control, robust construction, and flexibility in accessories, these tanks are an ideal solution for both site and laboratory use, supporting consistent and high-quality concrete testing.



TECHNICAL SPECIFICATION

Specification	Model 1	Model 2	Model 3
Inside Dimensions (mm)	1600 x 800 x 800	1050 x 1050 x 600	1150 x 700 x 760
Outside Dimensions (mm)	1650 x 850 x 840	1150 x 1150 x 750	1250 x 770 x 900
Capacity (liters)	1000	650	550
Specimen Capacity	64 (with racks)	36	24
Weight (kg)	110	30	30