

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

12 FT³ FORCED CONVECTION BENCHTOP OVEN

DESCRIPTION:

This specification covers the requirements for the 12 FT³ Forced Convection Benchtop Oven that will be used for the analysis of cementitious, and aggregate construction materials.

REQUIREMENTS:

The interior chamber and ducting shall be constructed of 304 stainless steel. The Oven must have two (2) chamber doors and separate switches for power and heat. The fan and heater must be top mounted.

Oven Dimensions:

- External dimensions must be 36" W x 28" D x 51" H (± 2 ")
- Internal dimensions must be 30" W x 20" D x 35" H (± 3 ")
- Work chamber must be of 12 cubic foot capacity (± 1 ")

Must be/have the following:

- An operating range of 40° to 204°C (104° to 400°F).
- 3.6 kilowatt heater for rapid heat-up rates
- A ¼ horse power recirculating motor
- Digital control with a minimum ¾-inch LED display that maintains chamber temperature to within $\pm 3^{\circ}\text{C}$ of set-point.

ELECTRICAL:

- Oven shall operate on standard power utilities of 240 V, 1 phase, 50/60 Hz, 16-17A.
- Oven shall be UL listed.

Must come complete with the following:

- Five (5) nickel-plated, reinforced adjustable shelves with a maximum shelf capacity of 200 pounds per shelf.
- One (1) operator's manual
- A minimum six (6) foot power cord for hardwiring the oven to utilities

WARRANTY:

- Must include a standard manufacturer warranty.

APPROVED BRANDS/MODELS:

- Despatch Industries, Model No. LBB2-12-2 or equal