

C-112

Batch Oven – Reconditioned

Natural Gas Fired Batch Type Oven

Maximum Operating Temperature: 500 F

Chamber Dimensions: 9'6" Wide x 18' Long x 8' High

Overall Dimensions: 10'8" Wide x 20' Long x 13'9" High

Doors: Dual bi-fold doors each end

DESCRIPTION

The batch oven will be made of these materials and have features as follows:

Standard steel 4" or 6" thick density, tongue and groove, panel design.

- Aluminized steel 20 gauge interior and exterior
- Heavy gauge side/end channels
- 4# density, high temperature semi-rigid rockwool insulation with non-settling weatherproof characteristics
- Low thermal conductivity and heat loss
- Insulation strips between panel joints

Silhouette Openings

- Heavy gauge formed sheet construction
- Entrance and exit of oven

Heavy gauge panel flashing

- Fastened with sheet metal screws

HEATING SYSTEM

The oven and heater will be ruggedly designed and shop assembled. Heater and ductwork will have the following features:

Heater Housing

- Standard steel, 4" thick, 4# density, tongue and groove panel design if available, 5" or 6" panels will be substituted
- Aluminized steel #20 gauge interior and exterior sheets
- Heavy corner flashing
- Structural steel fan and bearing supports

Supply/recirculation blower

- Airkit supply fan and housing rated at 12,000 CFM total @ 2" S.P. New York Blower, or equivalent
- Blower Motor: One(1) 10 HP, ODP Motor
- Heavy duty shaft
- Special high temperature bearings
- Shaft cooler

Supply ductwork-attached to burner box

- Heavy gauge ducts with high velocity discharge slots
- Horizontal air flow full length of heat zone for maximum heat penetration and efficiency

Safety equipment

- Safety shut-off valve
- Flame detector and relay
- Burner: One (1) Eclipse rated @ 1,000,000 BTUH 40:1 turndown

EXHAUST SYSTEM

One (1) fan rated at 900 CFM @ 3/4 S.P. driven by a 1/4 HP, ODP motor

The oven is designed to be purged with the exhaust fan below the L.E.L. of all combustible/flammable vapors and/or gases which have entered during the shutdown period at a minimum rate of 4 SCF of fresh air per cubic foot of oven volume to full capacity during "purge" cycle

INSTRUMENTS & CONTROLS

Oven controls will be located in the central panel

Temperature controller

- Honeywell UDC-2000 solid state controller or equivalent
- Digital display on oven operation modulating motor controlled gas supply
- Thermocouple signal wire design
- Range: 100-999 degrees F

- Controller located in control panel