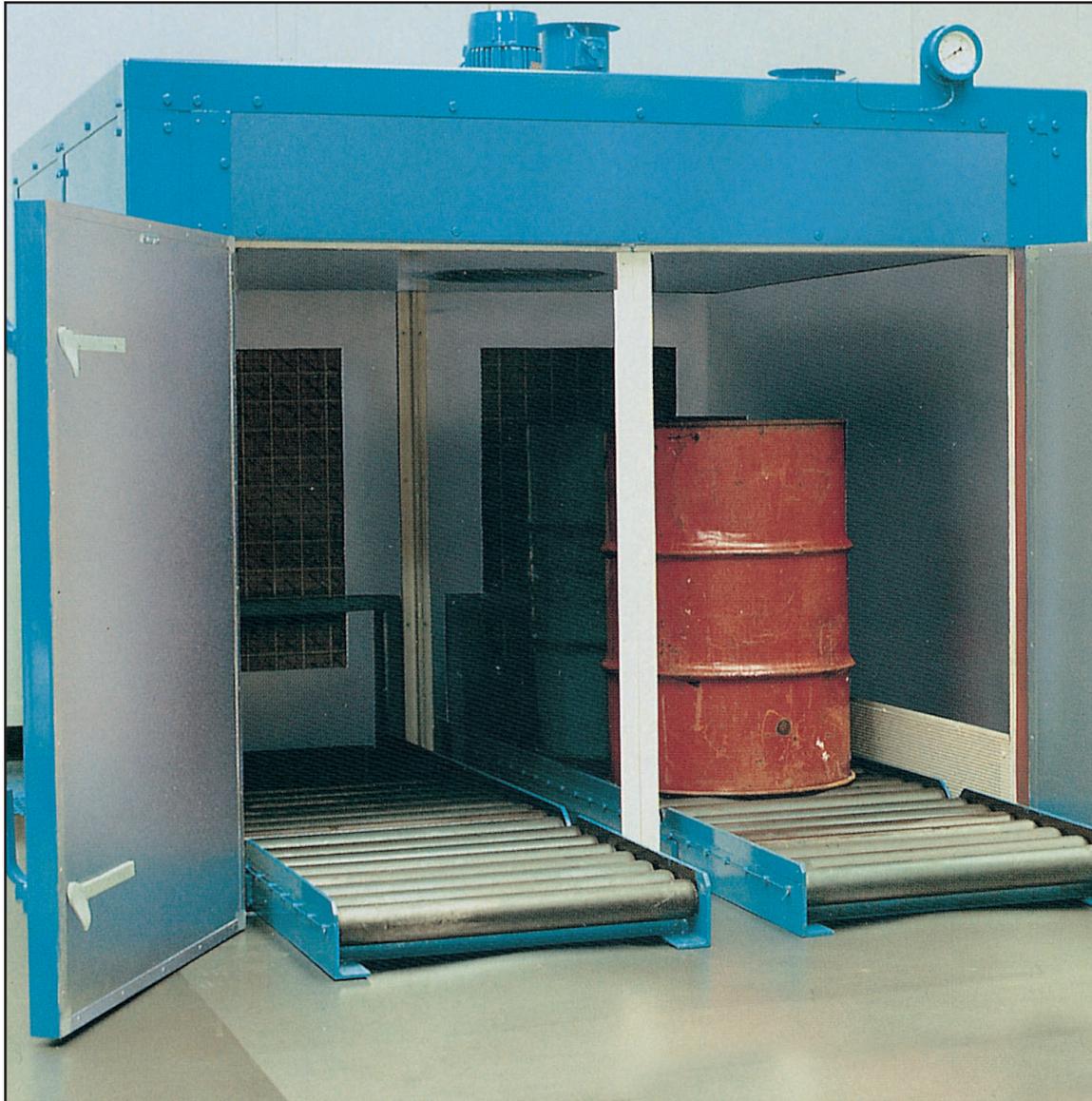




Drum Preheating Oven



Mitchell Dryers Limited

Drum Preheating Oven

Mitchell Dryers Limited manufacture a range of ovens for warming and melting of drum contents. Based on the well proven 'Mitchell' drying stove, these units are of robust construction, comprising a rigid welded steel framework, clad with thermal insulating panels formed from a double thickness of galvanised mild steel sheet with 50mm thick insulation interposed. A controlled circulation of warm air is maintained within the enclosure by means of a circulating fan and heater. Double doors are provided at one end allowing complete access to the heated compartment.

Various sizes and arrangements of oven are available to suit customers' requirements and the specification can be varied according to the application.

Oven arrangement

The standard oven is designed to accommodate a single pallet holding four 200 litre capacity drums. A number of these units can be built into a common structure to hold larger quantities. This form of construction has the advantage that some sections can be shut down with resultant savings in fuel and electricity if the total capacity of the unit is not required. As an alternative, and at lower initial cost, a single compartment unit can be supplied to accommodate the total number of drums.

A further option is for ovens to be supplied complete with roller conveyors to facilitate manual loading without use of a fork lift truck. Multiple units can be arranged as a tunnel.

Air circulation/heating

In the standard arrangement each four drum compartment is equipped with a propeller type circulating fan and a stream heater battery. Air heaters and fans can be positioned either in the back of the unit or mounted in the roof according to the particular requirement. Control dampers are provided to allow intake of fresh air and the exhaust of any fumes or vapours which might be evolved. These units are not however intended to be used as dryers, for which purpose ovens with much greater heating capacity are available. Steam heated units are provided with a thermostatic controller complete with control valve and dial thermometer. As an alternative electric heating can be supplied.

Flameproof option

Flameproof units can be supplied for handling flammable materials or where solvent vapours might be evolved. These will normally incorporate steam heating and have all electrical components certified flameproof. Depending on the oven arrangement explosion venting panels can be built into the back, roof or sides of the unit. An oven with rear explosion panels is shown on the cover photograph.

Utilities requirements

– for each drum capacity module

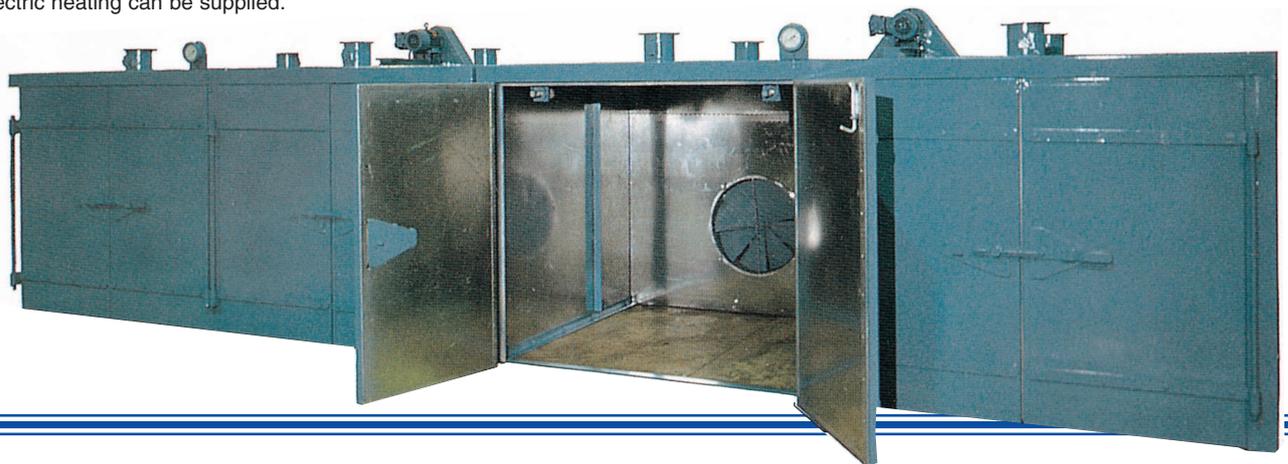
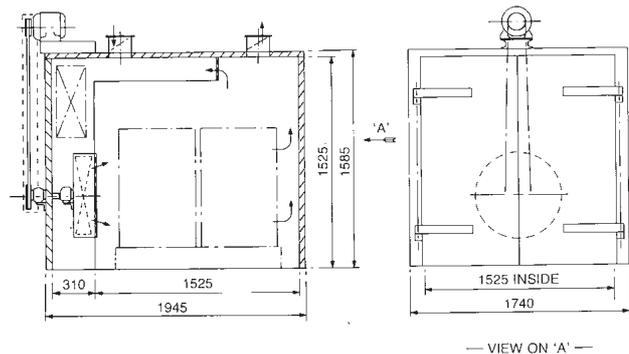
Heating – 25kg/h steam at maximum 10 bar pressure.

Electricity – 0.75 kW fan motor, supply 3 phase, 50Hz, 380-440v.

Finish

Construction using galvanised mild steel sheets, with a coating of heat resisting aluminium paint for the interior framework and the exterior of the oven gloss painted.

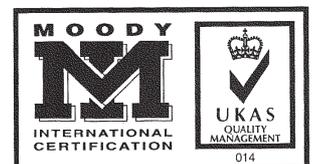
For outdoor installation epoxy paint is used throughout in order to give added protection.



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