



Heating & Drying OVENS



Drying Oven

Benchtop CE Marked Oven

Universal Oven

Industrial Oven

High Temperature Oven

Double Door Dry Heat Sterilizer

Vacuum Oven

Thin Film Oven/Loss on Heating Oven

Rolling Thin Film Oven

Aging Test Oven



EIE INSTRUMENTS PVT. LTD.

Digital Drying Oven (EIE-101D)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Heavy gauge mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 65mm High Density Glass wool
- **Temp range** : 50°C-250°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution

- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	52 x 45 x 64	1	1.0	45
35 x 35 x 35	57 x 50 x 72	1	1.0	52
45 x 45 x 45	67 x 60 x 82	2	1.5	72
45 x 45 x 60	67 x 60 x 97	2	1.5	78
60 x 60 x 60	82 x 75 x 97	3	2.0	110
60 x 60 x 90	82 x 75 x 125	3	2.5	148

Digital Drying Oven (EIE-101-DGMP)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-316 Grade
- **Exterior body** : Fabricated from stainless steel material S.S.-304 Grade
- **Paint** : No paint
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 65mm High Density Glass wool
- **Temp range** : 50°C-250°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution

- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	52 x 45 x 64	1	1.0	45
35 x 35 x 35	57 x 50 x 72	1	1.0	52
45 x 45 x 45	67 x 60 x 82	2	1.5	72
45 x 45 x 60	67 x 60 x 97	2	1.5	78
60 x 60 x 60	82 x 75 x 97	3	2.0	110
60 x 60 x 90	82 x 75 x 125	3	2.5	148

Thermostatic Drying Oven (EIE-101T)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Heavy gauge mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Insulation** : 65mm High Density Glass wool
- **Temp control** : Through copper capillary Thermostat
- **Temp range** : 50°C-250°C
- **Temp display** : L-Shaped yellow black glass thermometer
- **Blower** : Forced air circulation blower for Uniform temperature distribution

- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 4/6 Points temperature data loggers with sensor placed at specific points

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	45 x 47 x 55	1	1.0	35
35 x 35 x 35	50 x 52 x 63	1	1.0	41
45 x 45 x 45	60 x 62 x 73	2	1.5	61
45 x 45 x 60	60 x 62 x 88	2	1.5	68
60 x 60 x 60	75 x 77 x 88	3	2.0	90
60 x 60 x 90	75 x 77 x 118	3	2.5	130

Thermostatic Drying Oven (EIE-101-TGMP)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Matt finished stainless steel material S.S.-304 Grade
- **Insulation** : 65mm High Density Glass wool
- **Temp control** : Through copper capillary Thermostat
- **Temp range** : 50°C-250°C
- **Temp display** : L-Shaped yellow black glass thermometer
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases

- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 4/6 Points temperature data loggers with sensor placed at specific points

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	45 x 47 x 55	1	1.0	35
35 x 35 x 35	50 x 52 x 63	1	1.0	41
45 x 45 x 45	60 x 62 x 73	2	1.5	61
45 x 45 x 60	60 x 62 x 88	2	1.5	68
60 x 60 x 60	75 x 77 x 88	3	2.0	90
60 x 60 x 90	75 x 77 x 118	3	2.5	130

Benchtop Oven with Side Panels (EIE-101D)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- CE Certified
- Panel wiring as per CE Compliance
- Cord wire stress/strain test as per CE Compliance
- Bench top model
- All controls are mounted in side panel of the oven
- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior Body** : Heavy gauge mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Temp Control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Tempe Range** : 50°C – 250°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Inner chamber size (cms) (D x W x H)	Number of trays (cms) (D x W x H)	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	1	1.0	45
35 x 35 x 35	1	1.0	52
45 x 45 x 45	2	1.5	72
45 x 45 x 60	2	1.5	88
60 x 60 x 60	3	2.0	110
60 x 60 x 90	3	2.5	148

Universal Oven (EIE-102D)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Heavy gauge mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 100 mm High Density Glass wool
- **Temp range** : 50°C-300°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	52 x 45 x 64	1	1.0	45
35 x 35 x 35	57 x 50 x 72	1	1.0	52
45 x 45 x 45	67 x 60 x 82	2	1.5	72
45 x 45 x 60	67 x 60 x 97	2	1.5	78
60 x 60 x 60	82 x 75 x 97	3	2.0	110
60 x 60 x 90	82 x 75 x 125	3	2.5	148

Universal Oven (EIE-102-DGMP)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Matt finished stainless steel material S.S.-304 Grade
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 100 mm High Density Glass wool
- **Temp range** : 50°C-300°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases

- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	52 x 45 x 64	1	1.0	45
35 x 35 x 35	57 x 50 x 72	1	1.0	52
45 x 45 x 45	67 x 60 x 82	2	1.5	72
45 x 45 x 60	67 x 60 x 97	2	1.5	78
60 x 60 x 60	82 x 75 x 97	3	2.0	110
60 x 60 x 90	82 x 75 x 125	3	2.5	148

Industrial Oven (EIE-103H)



Applications

- For backing, drying, curing the components, parts or final products in various industries
- To fulfil the sample handling requirements in pharmaceuticals, clean rooms and medical industries.

Salient features

- **Construction** : Triple walled chamber
- **Inner chamber** : Polished stainless steel material S.S.-304 Grade/Mild steel material
- **Exterior body** : Heavy gauge Mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 100 mm thick glass wool insulation
- **Tempe range** : 50°C-400°C
- **Heaters** : Mounted in preheating chamber at sides of oven
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution

- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : “U” shaped tubular heater-2000 W, Mounted in pre-heating chamber
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 220/440 Volts, 50 Hz, Single/Three phase, AC Supply
- **Mobility** : On castor wheels
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Inner chamber size (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
75 x 75 x 75	3	4.5	100
90 x 90 x 60	3	4.5	150
100 x 100 x 100	2	6.0	180
120 x 90 x 90	5	6.0	180
180 x 90 x 90	8	9.0	250

High Temperature Oven (EIE-103H)



Introduction

Most crucial and versatile instrument for versatile heating applications being conducted in Medical, Agriculture, Pharmaceuticals, Biological, cement-concrete, soil, asphalt industries, Educational institutes and research laboratories

Salient features

- **Construction** : Triple walled chamber
- **Inner chamber** : Polished stainless steel material S.S. – 304 Grade/Mild steel material
- **Exterior body** : Heavy gauge Mild steel material
- **Paint** : Powder coating
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator/Thermostate
- **Insulation** : 100 mm thick glass wool insulation
- **Temp range** : 50°C–350°C/450°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases

- **Heater** : “U” shaped tubular heater-2000 W, Mounted in pre-heating chamber
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 220/440 Volts, 50 Hz, Single/Three phase, AC Supply
- **Mobility** : On castor wheels
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Inner chamber size (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
35 x 35 x 35	1	2.0	45
45 x 45 x 45	2	3.0	52
60 x 45 x 45	3	3.0	72
60 x 60 x 60	3	4.0	78
90 x 60 x 60	3	4.5	110

Double Door Dry Heat Sterilizer (EIE-103HC)



Applications

- For backing, drying, curing the components, parts or final products in various industries
- To fulfil the sample handling requirements in pharmaceuticals, clean rooms and medical industries.

Salient features

- **Construction** : Triple walled chamber
- **Inner chamber** : Polished stainless steel material S.S.-304 Grade/Mild steel material
- **Exterior body** : Heavy gauge Mild steel material
- **Paint** : Powder coating for aesthetic appearance
- **Temp control** : Through Microprocessor based Auto-Tune PID Digital temperature controller cum indicator
- **Insulation** : 100 mm thick glass wool insulation
- **Tempe range** : 50°C-400°C
- **Heaters** : Mounted in preheating chamber at sides of oven
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution

- **Ventilation Ports** : Provided on both the sides to exhaust generated fumes and gases
- **Heater** : “U” shaped tubular heater-2000 W, Mounted in pre-heating chamber
- **Shelves** : Fabricated precisely to offer minimum resistant to air circulations
- **Operates on** : 220/440 Volts, 50 Hz, Single/Three phase, AC Supply
- **Mobility** : on castor wheels
- Oven (Dry heat sterilizer) is equipped with double door-One on the front side and another on the rear side for fulfilling the clean-room sample handling application.
- Supplied complete with detailed instruction manual, Calibration certificate and test report

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Inner chamber size (cms) (D x W x H)	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
75 x 75 x 75	3	4.5	100
90 x 90 x 60	3	4.5	150
100 x 100 x 100	2	6.0	180
120 x 90 x 90	5	6.0	180
180 x 90 x 90	8	9.0	250

Vacuum Oven (EIE-104)



Salient Features

- Compact and unique design
- Aesthetic exterior appearance
- Highly reliable results
- Reliable components and accessories to ensure quality
- Gasket door with lock provides temperature safety and stability.
- Teflon glass window for easy viewing of the samples
- Automatic high-temperature safety cut-off system.

Technical Specifications

- **Temperature Range** : 50°C to 200°C
- **Temperature Controller** : Microprocessor based controller
- **Control Accuracy** : $\pm 1^\circ\text{C}$
- **Exterior body** : Made of mild steel duly with powder coated
- **Inner Chamber** : Made of thick-304 grade polished stainless steel material
- **Insulation** : High Quality Glass Wool Insulation

- **Door material** : ALUMINIUM door with toughened glass viewing window
- **Door gasket** : Silicon Door gasket
- **Maximum Vacuum** : 760mm Hg with separate vacuum pump
- **Vacuum Indication** : 2" Vacuum gauge
- **Provided with 1/2 Nos** : 304 grade SS - trays (removable)
- **Operates on** : 230 Volt, 50 Hz, Single Phase, Ac Supply
- Complete with Vacuum gauge, vacuum release valve and a removable shelf, but without vacuum Pump. Client has to arrange vacuum pump on his own or can order optionally.

Applications

- Brazing
- Sintering
- Heat treatment
- Aging tests
- Plating
- Desiccating
- Moisture determination
- Chemical resistance studies
- Drying of paper, rubber & textiles
- Dry sterilization
- Vacuum storage

Diameter	Depth	Number of trays	Power consumption (Kw)	Approximate Weight (Kgs)
20	25	1	0.75	40
25	30	1	0.75	50
30	30	2	1.0	70
30	38	2	1.25	90

Thin Film Oven/Loss on Heating Oven (EIE-107)



Compliance Standards

ASTM D1754, ASTM D6, AASTHO T179, AASTHO T49, BS 2000

Purpose

Oven is designed to determine the effects of heat and air on a film of semisolid asphaltic materials. The effects of this treatment are determined from measurements of selected asphalt properties before and after the test.

Technical Specifications of Oven

- **Working size** : 45 x 45 x 45 cm (H x W x D)
- **Volume** : 92 Liters
- **No of rotating Shelf** : 01 Number
- **Ratings** : 2.0 KW
- **Temperature range** : 50°C to 250°C
- **Temperature control** : By Auto-Tuning Digital PID temperature controller cum indicator
- **Temperature sensor** : PT-100 sensor
- **Temperature Display** : LED Digital Display
- **Temperature resolution** : 0.1°C
- **Control accuracy** : $\pm 0.5^\circ\text{C}$ or better
- **Shelf** : Rotating shelf for sample containers as mentioned in ASTM standard
- **Shelf rotation** : Rotated by electric motor at 5.5 ± 1.0 Rpm
- **Exterior body** : made of mild steel material, which is powder coated in attractive shades
- **Inner chamber** : is made of Stainless Steel S.S. 304 - mirror polished material.
- **Door window** : 100 by 100 mm (4 by 4 in.) and with two sheets of glass separated by an air space
- **Thermometer holder** : (fits in circular shaft of shelf), which holds thermometer in vertical position
- **Adjustable air ventilation** : mounted at top
- **Operation on** : 220/230 Volt, 50 Hz, Single phase, AC Supply

Rotating Shelf

- Single metal circular shelf having diameter between 250-450 mm
- Shelf construction is such that it provides a flat surface for support of the containers without blocking all air circulation through the shelf when the containers are in place.
- Shelf is suspended by a vertical shaft and centered with respect to the horizontal interior dimensions of the oven
- Shelf is rotated by electric motor at a rate of 5.5 ± 1.0 rpm
- Can accommodate three (3) or (9) sample containers

Rolling Thin Film Oven



Complies with following International Standards

ASTM D2872; AASHTO T240 ; CNR N.54; EN 12607 - 1

Application

This unit simulates the hardening that affects binder during its mixture with aggregates in the plant and during the finishing & rolling of the bituminous layers (Short Term Ageing). Provides the binder sample ready for change in mass determination and for other tests that characterize the binder about the resistance to short term ageing.

Technical Specifications of Oven

- **Working size** : 483 x 445 x 381cm (W x D x H)
- **Volume** : 82Liters
- **Ratings** : 2.0 KW
- **Temperature range** : 50°C to 300°C
- **Temperature control** : Digital PID controller
- **Temperature sensor** : PT-100 sensor
- **Temperature Display** : LED Digital Display
- **Temperature resolution**: 0.1°C
- **Control accuracy** : $\pm 1^{\circ}\text{C}$ or better
- **Shelf** : Rotating Vertical Circular carriage for sample containers
- **Air jet orifice** : 1.016 mm diameter
- **Copper tubing** : 7.6 meter length and 8mm outside diameter
- **Exterior body** : Made of mild steel material
- **Paint** : Powder coated in attractive shades

- **Inner chamber** : Made of Stainless Steel S.S. 304 - mirror polished
- **Construction** : Triple walled construction
- **Heating element** : Heating elements placed at the bottom of the oven Floor
- **Blower** : Suspended vertically from the ceiling of the oven
- **Oven window** : With two sheets of glass separated by an air space, 11" x 13" (H x W)
- **Air flow adjustment** : Using calibrated flowmeter having measuring range 0-4000 ml/min
- **Operation on** : 220/230 Volt, 50 Hz, Single phase, AC Supply

Rotating Shelf

- Single metal Vertical circular carriage having diameter of 304.8mm as per ASTM D2872
- Shelf construction is such that it provides a flat surface for support of the containers without blocking air circulation.
- Shelf is suspended by a Horizontal shaft and centered with respect to the vertical interior dimensions of the oven
- Shelf is rotated by electric motor at a speed of 15 ± 0.2 RPM as per ASTM D2872
- Can accommodate four (4) no glass sample containers

Aging Test Oven (EIE-108)



Compliance Standard:

IS: 12177-1987

Application

Laboratory oven with rotating shelf for oxidative ageing test set

Salient features

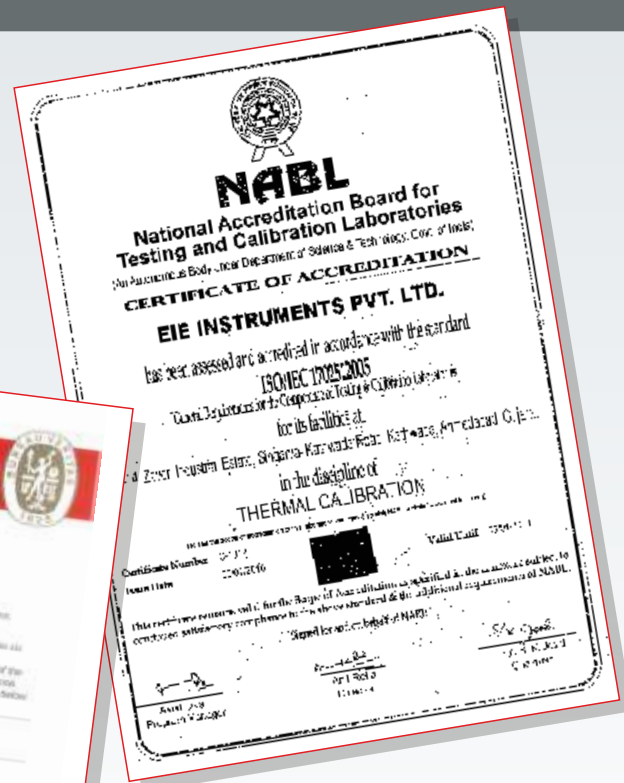
- **Inner chamber** : Polished stainless steel material S.S.-304 Grade
- **Exterior body** : Heavy gauge mild steel material
- **Paint** : Powder coating
- **Temp control** : Digital PID controller cum indicator
- **Insulation** : 65mm High Density Glass wool
- **Temp range** : 50°C-250°C
- **Temp display** : Digital LED Display
- **Blower** : Forced air circulation blower for Uniform temperature distribution
- **No. of Shelf** : Two shelves to accommodate 8 samples of 400 ml. beaker
- **Heater** : 80/20 nichrome heating element placed under ribs at bottom and sides
- **Rotating Shelf** : Driven by high torque geared motor to maintain RPM of 1 or 2
- **Copper catalyst** : Diameter: 1 or 1.02 mm
Length : 15 meter
- **Operates on** : 230 Volts, 50 Hz, Single phase, AC Supply
- Supplied complete with detailed instruction manual, Calibration certificate and test report
- Available in following sizes

Optional accessories at extra cost

- 1 Timer to switch on/off the oven as per the requirement
- 2 Buzzer for audio indication in case of set value deviations and/or to indicate set time duration
- 3 IQ, OQ, PQ, Documentation for Pharma industries
- 4 RS-232 or RS-485 connectivity with PC Software
- 5 4/6 Points temperature data loggers with sensor placed at specific points
- 6 Magnetic lock to offer utmost safety to the operator

Chamber Size (cm) H x W x D	KW
45 x 45 x 45	1.5

Prestigious Certificates



Ethernet



Alarm



IQ/OQ/PQ Documents



PC Connectivity



Safety



Touch Screen

Data & Design are subject to change without notice.



Mfg. by :

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