1408DIG

Analog Model For Accuracy and Economy

The Models 1407-2/1408-2 feature hydraulic thermostats & corrosion resistant stainless steel interior. A 13mm thick tempered glass observation window resists breakage under vacuum & permits easy viewing of the chamber interior. Glass viewing windows are "spring mounted" which allows the door to close squarely, thus ensuring a tight seal around the oven door. Furthermore, the door gasket has a beaded edge which also ensures vacuum integrity. Door gaskets are designed to be easily removable & interchangeable. The standard gasket supplied with all models is made of highly resistant SILICONE rubber. Also available as optional accessories are application specific gaskets. The BUNA-N gasket is available for solvent applications & is limited to a maximum temperature of 125°C. The Fluorosilicone gasket is available for applications involving acids & is limited to a maximum temperature of 200°C.

Digital Model for Top Performance & Accuracy

The Model 1407DIG feature PID (Proportional Integral Differential) controllers. This controller delivers precise temp. stability & repeatability. Dual digital display of setpoint & actual chamber temperature.

1407-2/1408-2, Small Vacuum Ovens

Vacuum ovens are used for a wide variety of vacuum drying, curing and moisture content testing. Common applications include drying heat sensitive samples, moisture determination, & drying heat sensitive samples under a controlled atmosphere.

MRC vacuum ovens are specifically designed for unparalleled performance when utilized for these, and other, applications. Since there is no air in the vacuum chamber, heat is transferred from the heating elements to the interior chamber wall, then to the shelves, and finally to the samples.

MRC Vacuum ovens maximize conductive heat techniques. To minimize conductivity resistance, ALUMINIUM shelves are provided with all MRC vacuum ovens. The oven chambers are wrapped in high temperature insulation which aids overall performance and promotes energy efficiency. MRC offers both standard ANALOG vacuum ovens with mechanical thermostat & Digital PID controlled models. Both ranges include unique design features which enhance the overall performance of the ovens. These features include durable construction with corrosion resistance stainless steel chambers, true vacuum valves, cross-flow ventilation through the oven chamber, and interchangeable door gasket for application specific use. Independent, resettable circuit breakers prevent any electrical overload.

1408DIG

Options:

- Temperature Programer 4 programs of 16 segments, Model: Eurotherm 2416P4.
- RS-232/485 communication. Model: Eurotherm 3216E.
- Oil vacuum pump.
- Oil Free vacuum pump.

Specifications:

Model Analog	1407-2	1408-2
Model Digital	1407DIG	1408DIG
Chamber Capacity (Liters)	16	47
Temperature Range	Ambient 15-210°C	
Temperature Uniformity	±3°C @ 60°C, ±9°C @ 120°C, ±13°C @ 200°C	
Heat up time, Minutes	90 minutes to 150°C	
Shelves Supplied	3	2
Outside dimensions(mm)	H572xD483xW394	H642xD705xW470
Inside dimensions(mm)	H228xD304xW228	H304xD508xW304
Weight	27Kg	50Kg
Watts/Amps-230Volt	550/2.4	1200/5.2
Cycle	50/60 Hz	
Phase	Single	

1425-2

1425-2/1445-2/1465-2, Small/Medium Vacuum Ovens

All our vacuum ovens are built with a stainless steel chamber for exceptional durability. Our double plenum design meets UL, CSA and EU safety requirements resulting in a cool outer surface. The doors on these units have positive latch handles with spring-loaded glass to facilitate a good vacuum seal without hinge binds that shorten the gasket life. A selection of gaskets (for specific applications) and a small bench top footprint increase the versatility of these ovens. The unique cross-flow ventilation forces inert gas to fill the entire chamber. To achieve required vacuum levels, users can choose from a 3/8 inch orifice or a KF25 fitting to withstand heavy use & minimize draw-down time. Maximum permitted end vacuum is 10 µ. Leak rate is 10 µ per hour.


1445-2/1465-2

Features:

- Fully Programmable Watlow Temperature Control
- Capable of 40 Step Ramp and Soak Profiles or 4 Files With 10 Steps Per File
- Digital Vacuum Gauge
- RS485 Communication.

Applications:

- Moisture Determination
- Out Gassing Solids
- Aging Tests
- Plating
- Chemical Resistance Studies
- Drying of Paper
- Rubber and Textiles
- Desiccating
- Dry Sterilization
- Out Gassing Liquids
- Vacuum Storage
- Electronic Process Control.


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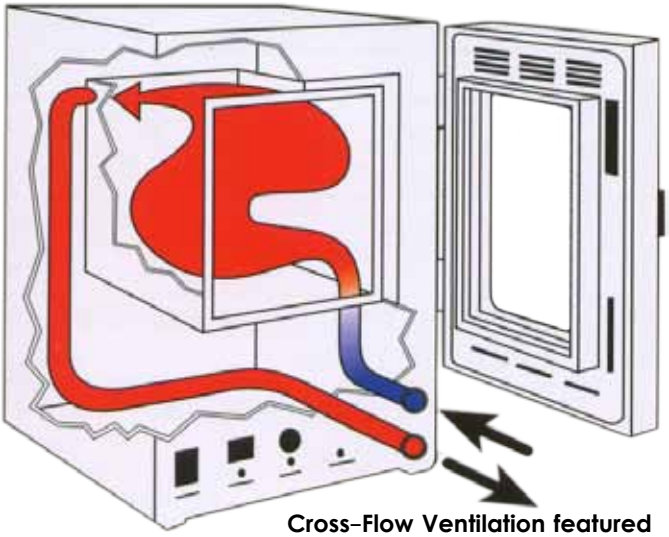

Cross-Flow Ventilation featured in all Vacuum Ovens


1425-2

Precise Temperature Control:

- Heat-up Time 90 minutes to 150°C
- Temperature Adjustable by 0.1°C
- Temperature Uniformity ±6% of Set Point
- Temperature Range Ambient +10°C to 220°C.

Specifications:

Model	1425-2	1445-2	1465-2
Capacity (Liters)	16	47	127
Chamber dimensions (mm)	W228xD304xH228	W304xD508xH304	W457xD609xH457
Outside dimensions (mm)	W445xD578xH597	W520xD750xH667	W673xD876xH819
Temp. Range / Uniformity	10°C above ambient to 220°C / ±6% of set point		
Electrical Specifications	Volts: 120V Hertz: 50/60 Hz Watts: 850W Amps: 7.0A	Volts: 120V Hertz: 50/60 Hz Watts: 1100W Amps: 9.0A	Volts: 120V Hertz: 50/60 Hz Watts: 1500W Amps: 12.5A
Temperature Control	0.1°C		
Heat-up (min)	90 minutes at 150°C		
Shelves	3 Supplied		

1495D, Large Vacuum Oven

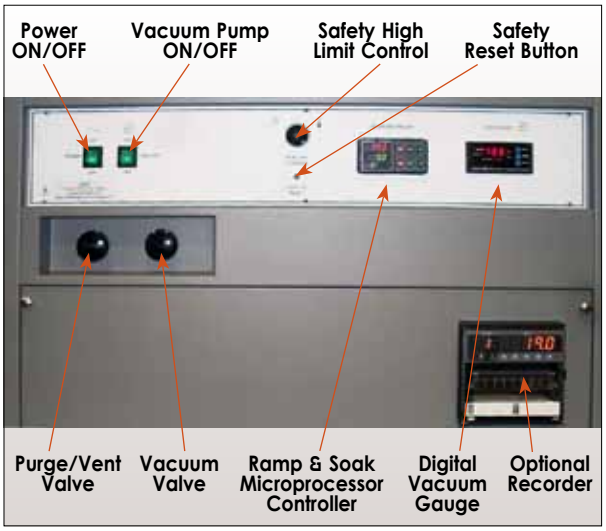
Unique Design. The 1495D Model is a general purpose vacuum oven specially designed for professional and industrial use. The combination of the oven and a ruggedly constructed mobile stand creates an ideal vacuum application station.
The stand is designed for mounting a vacuum pump at the base. All vacuum plumbing and KF25 connections are provided (vacuum pump not included).
Precision Controllers. The Waltow 981 temp. controller, programmable and microprocessor-based, offers multiple ramp and soak capabilities, including storing and running up to 24 temperature profiles. The controls are easily adjustable and the control panel is user friendly. A digital vacuum gauge shows chamber vacuum level in measurements of Torr and m/Torr. The display range is 760 Torr down to 0 mil Torr. A secondary independent high limit controller provides over temperature safety protection.
Rugged Construction. High grade stainless steel construction is used for the exterior and chamber interior. Vacuum valves incorporate 3/8" brass orifices to withstand heavy use.

Introduced Gas Saturates Chamber Uniformly.
Our unique cross-flow ventilation design forces nitrogen or other inert gases to fill the entire chamber. Gas is forced across the greatest distance of the chamber, purging the chamber as it passes over the samples. Corrosion-resistant stainless steel tubing is used for the gas purge piping system. Use this feature to reduce effects of oxidation.
The oven chamber is wrapped in high temperature insulation which aids overall performance and promotes energy efficiency. Powder coat construction, true vacuum valves and cross-flow ventilation through the oven chamber enhance total performance. The vacuum oven is secured to a ruggedly constructed mobile stand to create a vacuum pump at the base. Although the oven is not supplied with a vacuum pump, all vacuum plumbing and KF25 connections are provided.

Features/Benefits:

- Large capacity is efficient and accommodating
- Ramp and Soak Controller
- Stainless Steel Interior
- KF40 Fitting Included
- All stainless steel construction
- Programmable Controller
- Digital Vacuum Gauge for accuracy
- Cross-flow ventilation allows for a dry oxygen free environment.
- System ready to receive vacuum pump.

Panel:



Applications:

- Vacuum drying & curing
- Moisture determination
- Out-gassing solids & liquids
- Aging tests
- Electronic process control
- Vacuum embedding
- Vacuum storage
- Plating

Model	1495D
System Type	Vacuum Oven Station
Controls/Display	Digital mProc.
Chamber Capacity (Liters)	264
Temperature range	Amb. +5°C to 220°C
Temp. uniformity	±7.0°C at 150°C
Heat up (min)	90 minutes at 150°C
High Limit Control	Yes-Independent
Outside DIM. (mm)	W915xD1182xH1575
Inside DIM. (mm)	W711xD609xH609
Vacuum Gauge	Digital-m/Torr Scale
Standard Gasket Material	Viton
Shelves Supplied	3 Aluminium
Maximum Shelves	7 Shelves
Shipping Weight in kilograms	445kg
Element Wattage	3500
Electrical Requirements: Max. Amp draw at 220Vac Power Frequency/Phase	16 50-60 Hz/ Single Phase

* – 2 Denotes 220V