



1407DIG

### 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.



1408-2

### Options:

- Temperature Programmer.
- RS-232/485 communication.
- Oil vacuum pump.
- Oil Free vacuum pump.
- Over temperature protection.

### Specifications:

| Model Analog              | 1407-2 (210°C)                           | 1408-2 (210°C)  |
|---------------------------|--|-----------------|
| Model Digital             | 1407DIG (250°C)                          | 1408DIG (250°C) |
| Chamber Capacity (Liters) | 16                                       | 47              |
| Temperature Range         | Ambient 15-210°C (250°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                                   |                 |