

# HRH-110 SELF-CONTAINED, FRONT-LOADING AUTOCLAVE

## *Autoclave: Pre-vacuum Cycle & Drying by Heat & Vacuum*

- **Fully Automatic Operation** from start to finish with or without drying.
- **Self-contained Design** does not require plumbing for set-up, in-house steam, or a floor drain hole for steam exhaust.
- **Cycles for Wastes/Solid Loads with or without drying and a Liquid Cycle for media and agar**
- **Pre-vacuum Cycle:** Vacuum pump removes air from the chamber when sterilizing solids such as glassware and pipette tips, thereby eliminating cold spots, and ensuring faster and more efficient sterilization.
- **Drying by Heat and Vacuum** increases drying efficiency and reduces cycle times.
- **Additional Drying Mode** for complete drying without having to re-run the sterilization cycle.
- **Delay Auto Start** allows programming autoclave to start up to 7 days later.
- **Large Internal Tank** for water exhaust eliminates the need for a floor drain hole.
- **Bacteria Filter** reduces re-contamination.
- **Auto Filling of Chamber** - Convenient auto-filling from a 10-liter internal water tank.
- **One-touch Door Closing Lever** opens and closes the door easily, surely and safely.
- **Door Safety Interlock** prevents door from opening during a cycle, when the chamber is pressurized, and the temperature is above 97°C at which point super-heated liquids might boil over when disturbed.
- **Door-closure Sensor** prevents a cycle from starting unless the door is properly closed.
- **Process Display** shows the program selected and the status of the sterilization cycle.
- **Chamber Dimensions:** 16.5" diameter x 31.3" depth (420 mm x 795 mm), 110 liters



*Amerex Instruments, Inc.*

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| SPECIFICATIONS                              | HRH-110  |
|---|--|
| Self-contained Design                       | Does not require in-house steam, plumbing or a floor drain hole for installation   |
| Sterilization Temperature                   | 105°C – 135°C (programmable)   |
| Temperature Display Range                   | 5°C – 137°C  |
| Sterilization Timer                         | 1 ~ 60 min (remaining time displayed)  |
| Drying Timer                                | 1 ~ 120 min (remaining time displayed)   |
| Drying Method                               | Drying by heat and vacuum  |
| Sterilization and Operation Modes           | <ol style="list-style-type: none"> <li>1. For solids – pre-vacuum → sterilization → drying</li> <li>2. For solids – pre-vacuum → sterilization → fast exhaust</li> <li>3. For liquids – sterilization → slow exhaust</li> <li>4. For drying – additional drying after mode #1 → end</li> </ol>           |
| Chamber Water Source                        | Auto water filling from an internal 10-liter water tank  |
| Maximum allowable Pressure (Gauge Pressure) | 0.206 MPa (2.06 kg/cm <sup>2</sup> G)  |
| Chamber Size                                | 16.5”diameter x 31.3”depth, (420diameter x 795depth) mm  |
| Chamber Material                            | Stainless steel SUS304   |
| Outer Dimensions                            | 27.2W x 45.3D x 54.5H in, (690W x 1150D x 1385H) mm  |
| Pressure Gauge                              | Analog display: -0.1 to +0.4 MPa (-1 to 4 bar)   |
| Safety Devices                              | Pressure relief valve, circuit breaker with GFCI, vacuum pump breaker, low-water power cut-off, insufficient water in the exhaust bottle warming lamp, error messages for 1) wire breakage in temperature sensor, 2) over-heating, 3) over-cooling, 4) over-pressure, and 5) door is not properly locked |
| Standard Accessories                        | Drain hose, water supply hose, and caster stopper  |
| Options                                     | 1) Load sensor, square type wire basket, wire basket with solid bottom, dressing case, 2) Data logger, and 3) Digital printer  |
| Power Source/Consumption                    | AC220V, 50/60Hz, 1 phase, 3.2kW  |
| Net Weight (approx.)                        | 462 lb, (210 kg)   |
| Warranty                                    | 1 year   |

**ACCESSORIES:** Accessories: SS square bottomed basket, square wire basket, dressing drum



Products shown in this brochure are manufactured by the company, ISO 9001 / 13485 / 14001 certified.



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