

# FREEZE DRYER

- Freeze drying is a water removal process typically used to preserve perishable materials, to extend shelf life or make the material more convenient for transport.
- Applications: freeze-drying materials such as biological cultures, blood, plasma, serum fractions, plant extracts, pharmaceutical and others.



# FEATURES

- Compact, high-performance laboratory systems with a small footprint
- Drying chamber above the ice condenser chamber for high sublimation performance and short process times
- Ice condenser chamber with internal condenser coils, all made from high-grade stainless steel
- Digital indication of ice condenser temperature and vacuum
- indirect product temperature determination based on the curve of vapor pressure over ice
- vacuum control for process time optimization
- Suitable for aqueous solutions samples

| Technical data overview                          |  |
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| Power consumption                                | Max 1.1 kw   |
| Connection voltage                               | 200-230V ±10%  |
| Frequency  | 50/60Hz  |
| Ice condenser capacity                           | 4 kg   |
| Ice condenser performance                        | 4kg/24h  |
| Ice condenser temperature                        | Approx. -50 °C   |
| Dimension :<br>- height:<br>- width:<br>- depth: | 400mm+300mm drying chamber<br>450 mm<br>550mm+ 80 mm vacuum connection |
| Weight   | 42 kg  |
| Working pressure                                 | 0.1- 6 mbar  |
| Accessories                                      |  |
| Vacuum Pump                                      | 10 m <sup>3</sup> /h - 50 Hz - Ultimate pressure 0.001 mbar            |