

# Xiros Mikro

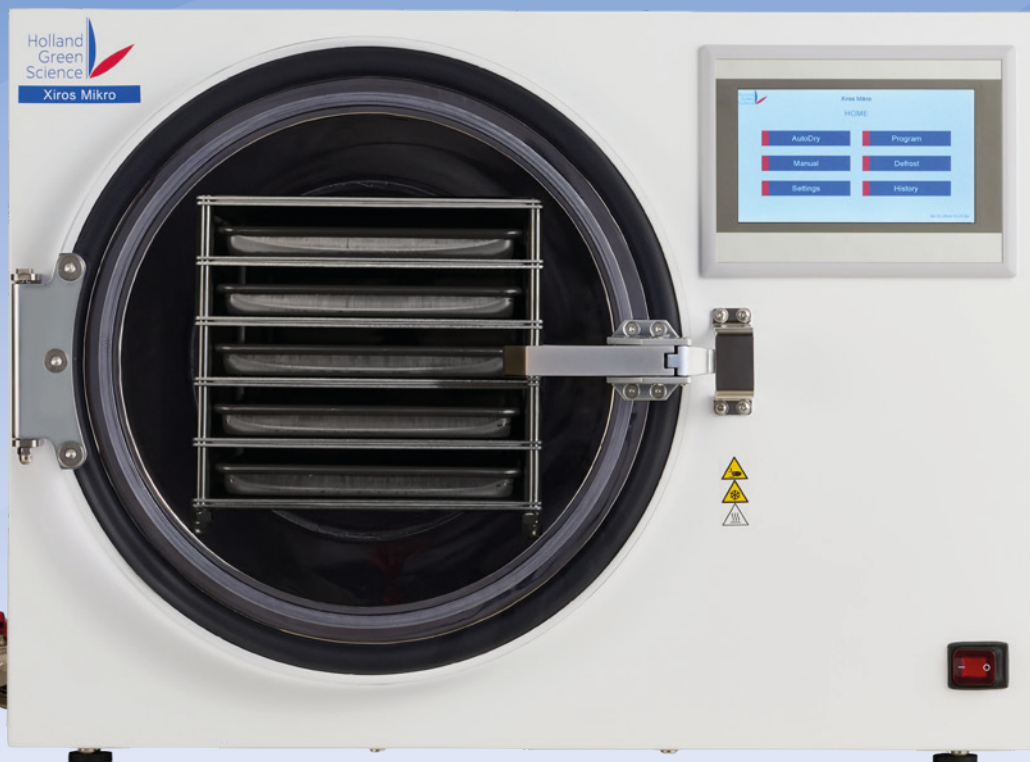
## V1.12 Freeze Dryer

INTEGRATED  
VACUUM LEAK  
TEST

IMPROVED  
TEMPERATURE  
DISTRIBUTION

AUTOMATIC  
POWER-OUTAGE  
RECOVERY

BUILT FOR  
CONTINUOUS  
24/7 PRODUCTION



Holland  
Green  
Science



# Xiros Mikro

## VI.12 Freeze Dryer



The Xiros Mikro VI.12 is designed for teams who need professional freeze-drying performance in a compact, energy-efficient system. Whether you're freeze drying biological samples, preparing reference materials, developing formulations, or running feasibility studies for scale-up, the Xiros Mikro VI.12 gives you full control with reliable, repeatable outcomes.

It's ideal for R&D engineers, laboratory technicians, product developers, and pilot-production teams who want industry-level freeze drying without the footprint of a large machine. With fast cycles, low noise, and an intelligent drying system, it fits perfectly into laboratories, test environments, and small production or development spaces.

### Specifications:

- Standard configuration includes 5 electrically heated shelves. Optional accessories with 3, 7 or 9 shelves are available and can be supplied with the unit or ordered separately.
- Total condenser volume = 11 litres
- Ice condensation capacity = 8kg
- Ice removal rate = 4 kg per 24 hours

- Ice condenser temperature  $-40\text{ }^{\circ}\text{C}$
- Minimum shelf temperature for freezing  $-40\text{ }^{\circ}\text{C}$
- Maximum shelf temperature for drying  $+60\text{ }^{\circ}\text{C}$
- Typical product capacity = 9,6 kg at 80% moisture
- Ultimate vacuum 0,15 mbar
- Refrigerant R290
- Noise level (without vacuum pump): 54 dB(A)

### Features & Benefits:

- CE certified
- Low-profile design for easy loading and unloading
- Commercial-grade, high-performance components designed for continuous 24/7 operation, with improved temperature distribution and accuracy.
- Industrial-grade vacuum fittings and connectors
- 1-year standard warranty, with optional extension up to 3 years
- Defrost function via heated shelves for faster turnaround
- Upgraded energy efficiency for lower operating costs
- Integrated vacuum leak test to protect product quality
- Automatic transient power-failure recovery to help prevent batch loss

### Controller:

- USB-A & USB-B connectivity for software upgrades and data logging
- Fully programmable to suit specific applications
- Manual and automatic operation with programmable cycles (up to 16 steps)
- Save up to 12 renamable programs, each with 16 steps
- Auto dry & Candy mode

### Technical details:

- |                          |  |
|--------------------------|--|
| • SKU Number             | 20107002C  |
| • Tray size 3 / 5 shelf  | 185 x 435 x 20 mm  |
| • Tray size 7 shelf      | 185 x 435 x 15 mm  |
| • Tray size 9 shelf      | 185 x 435 x 12 mm  |
| • Inter shelf distance   | 16, 22, 33, 60 mm (Depending on shelf configuration)               |
| • External dimensions    | 74,8 cm x 77 cm x 50,7 cm  |
| • Weight                 | 87 kg  |
| • Power requirements     | AC 120V 14A 50/60Hz<br>AC 220-240V 8A 50/60Hz<br>(Not for UL-mark) |
| • Max. Vac. Pump Current | AC 120V, 50/60Hz; 2.8A<br>AC 220-240V, 50/60Hz; 1.6A               |