Benchtop Freeze Dryer

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

V1.12 Freeze Dryer

The Xiros Mikro V1.12 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 V1.12 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 accessoires 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 °C
- Minimum shelf temperature for freezing -40 °C
- Maximum shelf temperature for drying +60 °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 × 20 mm
• Tray size 7 shelf	185 x 435 × 15 mm
• Tray size 9 shelf	185 x 435 ×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 AC 220-240V 8A 50/60Hz (Not for UL-mark)
• Max. Vac. Pump Current	AC120V, 50/60Hz; 2.8A AC220-240V, 50/60Hz; 1.6A