

Freeze dryer -75 degrees celcius



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- [ADDITIONAL INFORMATION](#)

Freeze dryers of this series are designed for the laboratory or product development. Depending on the size of the unit, the free-standing units have an ice capacity of 5 to 40 kg and a footprint of up to 2.7 m<sup>2</sup>. These units are equipped as standard with a vacuum valve for regulating the vacuum and a separating valve between the drying chamber and the condenser. In relation to the footprint, these units are characterized by a compact design. The cladding is made entirely of stainless steel and is therefore resistant to all commercially available disinfectants

#### **Features**

- Explosion proof design, solvent purge
- Water – cooled refrigeration system
- Visualization software
- Compact construction, only 980mm wide
- CIP (cleaning in place) – Spray nozzles mounted in the chamber and condenser ensure intensive cleaning.
- GMP-FDA compliant – Taking the guidelines into account, the systems meet the highest demands for production in compliance with cleanroom standards. The exact requirements are defined and implemented together with you
- Liquid-tempered shelves made of stainless steel – For an even and rapid temperature distribution, the shelves are flooded with brine oil.
- Closure device for vials – The shelves can be automatically moved together after the drying process to seal vials under vacuum conditions. The optimal preservation.
- Air or water-cooled refrigeration system – Depending on the installation site, we can design the refrigeration systems to be air-cooled or water-cooled.

- Wall mounting (gas-tight) – The front of the unit is installed gas-tight in a wall. This allows the service area to be separated from the production area.
- Oil-sealed and oil-free vacuum pump – If organic solvents are present, it may be useful to use an oil-free vacuum pump.
- Insulator- Glovebox coupling – The units can be connected to insulators via a connecting flange. Special designs are also possible.
- VerschControl systems, SCADA visualisation – We offer a variety of different visualisation and documentation systems.
- EX-protection version ATEX,solvent discharge – If explosive gas mixtures are present, the systems can be equipped with explosion protection.

## Technical Specifications

### Sublimator 40

Drying chamber dimensions (W x H x D)	700 x 700 x 850 mm
Condenser capacity	30kg / 24h max. 40kg
Condenser temperature	-50 oder -75°C
Shelf temperature	980 x 1920 x 1650 mm
System dimensions (W x H x D)	1500 x 1920 x 944 mm
Shelf type	Tray drying
	Vial drying

Shelf size	450 x 750 mm	450 x 750 mm
Shelf configuration (Number + radiation panel) / Shelves / distance between shelves	5+1 / 1,69 m <sup>2</sup> / 100 mm 6+1 / 2,03 m <sup>2</sup> / 80 mm 7+1 / 2,36 m <sup>2</sup> / 67 mm 8+1 / 2,70 m <sup>2</sup> / 57 mm	4+1 / 1,35 m <sup>2</sup> / 125 mm 5+1 / 1,69 m <sup>2</sup> / 100 mm 6+1 / 2,03 m <sup>2</sup> / 80 mm 7+1 / 2,36 m <sup>2</sup> / 67 mm

#### **Footprint configuration for tray and vial drying**

##### **Footprint configuration for tray drying**

Footprint – tray drying [mm]	450 x 750
Footprint configuration (number+radiation panel) / footprint [m <sup>2</sup> ] Footprint spacing [mm]	5+1 / 1,69m <sup>2</sup> 100mm 6+1 / 2,03m <sup>2</sup> 80mm 7+1 / 2,36m <sup>2</sup> 67mm 8+1 / 2,70m <sup>2</sup> 57mm

##### **Footprint configuration for vial drying**

Footprint – Vial drying [mm]	450 x 750
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Footprint configuration (number+radiation panel) / footprint [m<sup>2</sup>] Footprint spacing [mm]

4+1 / 1,35m<sup>2</sup>

125mm

5+1 / 1,69m<sup>2</sup>

100mm

6+1 / 2,03m<sup>2</sup>

80mm

7+1 / 2,36m<sup>2</sup>

67mm

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