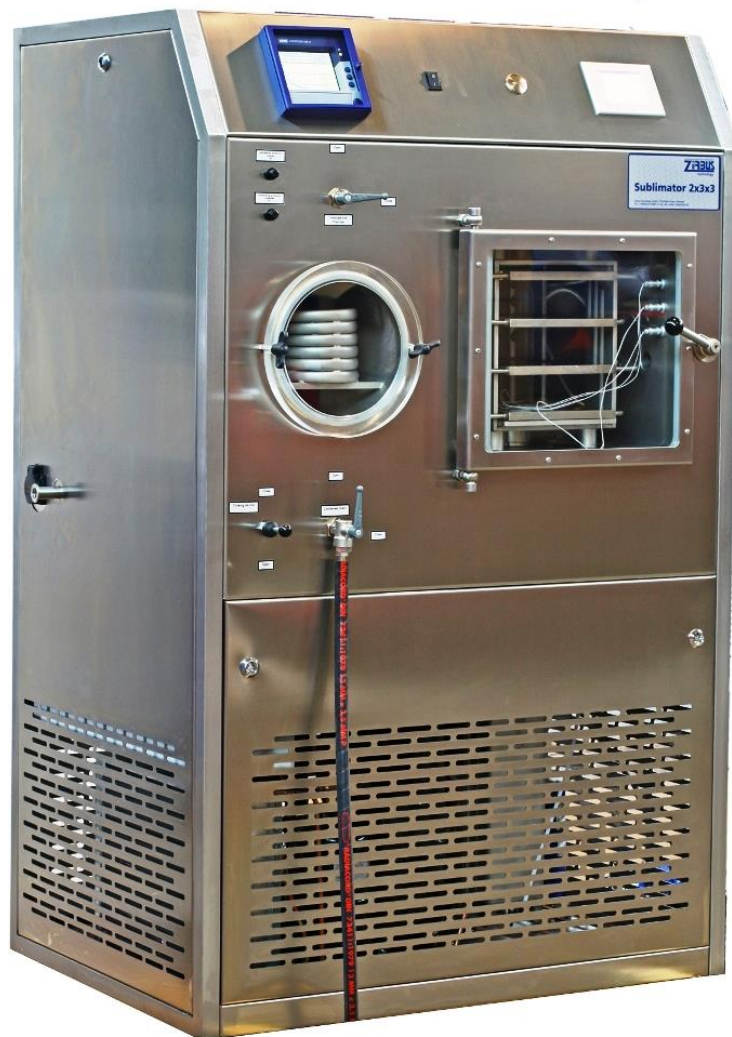


**Laboratory freeze dryer Sublimator 5**  
0.18m<sup>2</sup> up to 0.36m<sup>2</sup> total shelf area



- Liquid tempered stainless steel shelves for freezing and drying
- Uniform temperature distribution +/-1°C during freezing and drying
- repeatable processes
- Integrated vacuum pump
- Industrial PLC control system with touchpanel
- Free programmable receipts
- Integrated vacuum regulation
- Complete stainless steel

Technical parameters:

Drying Chamber	W350 x H400 x D500mm Volume 70l Material 316L Door: Acrylic Glass
Product shelves dimension	200x450mm
Shelve configuration	2+1 shelves with 130mm distance (0.18m <sup>2</sup> ) 3+1 with 90mm (0.27m <sup>2</sup> ) 4+1 with 58mm (0.36m <sup>2</sup> )
Shelve temperature range	a) -40...+60°C b) -60...+60°C
Condenser capacity	5kg/24h, max. 6kg
Condenser temperature	a) <-50°C b) <-80°C
Vacuum controlling	With magnetic valve between condenser and vacuum pump
Vacuum sensor	Pirani vacuum sensor 0.001...1000mbar
Controller	Mitsubishi FXN PLC
Operator panel	7" coloured touchpanel
Programs	20 programs, each one with: 10 freezing steps 10 main drying steps 10 secondary drying steps
Outer dimensions: W970 x H1700 x D750 mm, 230V50Hz/16A	
Additional options:	
<p>Manifold with 6 or 12 connections and rubber valves GMP for product contacted parts Pneumatic stoppering system Variable shelve distance for 4+1 N2-liquid cooling Batch documentation software via Ethernet oder printers Visualisation software SCADA Product trays Stainless steel door Glove box / isolator connections Combi sensor for temperature and conductivity Several vacuum pumps, also oil free Separation valve between chamber and condenser Capacitive vacuum sensor</p>	

