

Technical datasheet

Pilot Freeze Dryers with Hydraulic Stoppering

Pilot freeze dryers with 0.24-1 m² drying area, -80 °C cold trap and -55 to 70 °C shelf settings for laboratory process development.



Representative cabinet; shelf arrangement and dimensions vary by model. Hydraulic stoppering assembly is not shown; confirm the ordered configuration.

Key features

- In-place freezing and drying
- 36 programs with 40 segments
- Electric defrost and USB data export

Standard Configuration

7-inch touchscreen, 36 programs with 40 segments, variable-speed refrigeration, electric defrost, temperature/vacuum display, data curves and one USB interface for data export. Separate drying chamber and cold trap permit in-place freezing and drying; observation window and pull-out trays are listed. Hydraulic vial stoppering is included on these models.

Optional Accessories

External freeze-drying flask function and eutectic-point testing are optional. Confirm vacuum-pump supply, connections, vials, stoppers and the delivery list. Water-capture figures have no stated time basis; loaded performance and temperature/vacuum test conditions require confirmation.

Technical Information

Parameter	Value
Cold-trap temperature	-80 °C
Shelf temperature range	-55-70 °C
Ultimate vacuum	<1 Pa
Pressure display range	Ambient pressure to 0.1 Pa
Operating ambient	10-24 °C
Programs / segments per program	36 / 40
Electrical supply	380 V / 50 Hz

Model	Drying area (m ²)	Listed water capture (kg)	Cold-trap volume (L)
PT-LYO-014	0.24	6.5	13.5
PT-LYO-015	0.5	10	18
PT-LYO-016	1	15	35

Technical Information

Model	Shelf dimensions (mm)	Listed shelf count	Shelf spacing (mm)
PT-LYO-014	300 × 400	2+1	145
PT-LYO-015	300 × 450	4+1	90
PT-LYO-016	500 × 480	4+1	90

Model	Tray solution load (L)	Alternative vial capacity (diameter mm × count)
PT-LYO-014	3.6	Ø12 × 1584 / Ø16 × 864 / Ø22 × 468
PT-LYO-015	8	Ø12 × 4920 / Ø16 × 2728 / Ø22 × 1408
PT-LYO-016	15.5	Ø12 × 7020 / Ø16 × 3944 / Ø22 × 2016

Model	Input power (kW)	External dimensions (mm)
PT-LYO-014	4	1100 × 750 × 1580
PT-LYO-015	6.5	1200 × 850 × 1750
PT-LYO-016	8.5	1450 × 850 × 1950

Selection / Ordering Information

Specify PRECETTA model, material, batch volume, vial sizes and drying process. Confirm the meaning of the listed shelf count, pump package, utility requirements and final configuration.