

Technical datasheet

Shelf-Heated Vacuum Ovens with Audit Trail

35-120 L vacuum drying ovens with independently controlled heated shelves, ambient +5 to 250 °C settings, USB data export and an event audit trail.



Representative exterior. Select the model, cabinet quantity and holder or shelf configuration from the specifications; the photograph does not define the complete delivery.

Key features

- Independent heating control for each shelf
- USB / RS-485 interfaces and PDF / CSV data export
- User permissions, event records and audit trail

Standard Configuration

Stainless steel chamber, two aluminium-alloy heated shelves with independent temperature control and mechanical temperature limits, observation door, touchscreen controller, parameter memory, USB and RS-485 interfaces. Standard data management includes PDF/CSV export, assigned operator permissions and timestamped event audit records. Protection covers leakage current, overtemperature, vacuum timeout and sensor alarms. No regulatory certification or compliance claim is implied.

Optional Accessories

Vacuum pump and pump sound enclosure are optional. Remote monitoring or messaging services require a separately confirmed option and availability; they are not standard. Confirm pump compatibility, tubing, gas-pressure reference and final configuration.

Technical Information

Parameter	Value
Temperature range	Ambient +5 to 250 °C
Temperature control precision	±0.1 °C
Temperature fluctuation at 100 °C	±0.2 °C
Timer range	0-9999 min / h
Vacuum display range	0.0-101 kPa
Vacuum display precision	0.1 kPa
Ultimate vacuum	133 Pa
Listed leakage rate	1.0 kPa/h
Inert-gas backfill pressure	≤101 kPa
Gas connector outside diameter	12 mm
Supplied shelves	2
Load per shelf	10 kg
Electrical supply	AC 220 V ±10% / 50 Hz

Model	Chamber volume (L)	Input power (W)	Temperature uniformity at 100 °C
PT-VDO-044	35	900	±2 °C
PT-VDO-045	65	1100	±2 °C
PT-VDO-046	120	1300	±3 °C

Technical Information

Model	Chamber dimensions (mm)	External dimensions (mm)
PT-VDO-044	310 × 370 × 310	475 × 500 × 650
PT-VDO-045	400 × 410 × 400	565 × 540 × 740
PT-VDO-046	485 × 515 × 485	650 × 645 × 825

Model	Shelf dimensions (W × D, mm)	Shelf spacing (mm)
PT-VDO-044	290 × 335	106
PT-VDO-045	380 × 375	151
PT-VDO-046	465 × 480	201

Selection / Ordering Information

Specify the PRECETTA model, sample, operating conditions and required configuration. Confirm electrical supply, accessories and the final delivery list before ordering.