

CVO-10 PRO Vacuum Oven Package



9.3 CUBIC FEET (263 LITERS)



CVO-10 PRO VACUUM OVEN PACKAGE

High production, large vacuum drying system for vacuum purging production quantities, the Cascade CVO-10 is our largest 10 cubic foot vacuum oven.

The CVO-10 offers incredible temperature stability for vacuum drying and purging of pharmaceuticals, botanicals, slurries – especially temperature sensitive material. This vacuum oven will liberate solvents, water or other unwanted compounds in large batch production environments.

Packages come complete with the Agilent IDP15 9cfm Oil-Free Scroll Pump and an industrial grade mobile rack.

SYSTEM HIGHLIGHTS

- Exceptional Temperature Control & Stability
- Touchscreen Smart Controller
- Independent Overtemp Failsafe Protection
- Equipped for Inert Gas Back fill. Built-In Safety Relief
- Flexible Pumping/ Feedthru Connection Ports
- Ergonomically Designed, Easy Quarter-Turn Valves



NRTL CERTIFIED

CVO-10 PRO Vacuum Oven Package

The Cascade Difference

- NRTL Certified by TUV
- Stable temperature control.
- Touchscreen temperature readout with temp sensor INSIDE the oven
- VITON door gasket
- Bright LED lights in window for visibility of sensitive material
- Digital vacuum gauge reads in inches of mercury or torr
- Smooth, quarter-turn vent valve
- Rear KF-25 port includes MAXEVAP Connection Kit for rapid vacuum drying or running feed throughs inside oven for monitoring
- 220V / 1ph / 10AMPS NEMA 6-15R Plug
- Quality Tempered Rated Glass NGI-US to ANSI Z97.1.2007 156CFR/201 11 SGCC -2577 1/2 UA
- Fast venting with larger 1/2" diameter vent line also allows for nitrogen or other inert gas connection
- Touch Panel LED control screen with user settable features, easy updates
- Mobile cart on heavy duty casters



Need A Complete Package With MAXTRAP Cold Trap? Includes:

- Cascade Sciences CVO-10 Vacuum Oven
- Heavy-Duty Industrial Mobile Cart for CVO-10 and MAXTRAP Cold Trap
- 9 Shelves, Aluminum, full extension with copper sheaths for optimal temperature performance
- MAXEVAP Connection Kit
- MAXTRAP50 or MAXTRAP105 Vacuum Cold Trap (-50°C/-105°C)
- Agilent IDP15 Oil-Free Vacuum Pump, 9cfm

Temperature Range Ambient +26°F to 302°F / Ambient +15°C to 150°C.

Uniformity	@40°C +/- 2°C – ±1.0°C	@ 105°F +/- 0.2°F – ±2.0°F
	@90°C +/- 3°C – ±3.0°C	@ 200°F +/- 0.4°F – ±5.5°F
	@150°C +/- 4.5°C – ±4.5°C	@ 300°F +/- 0.2°F – ±8.0°F

Capacity 9.3 Cubic Ft/263 liters

Interior Dimensions	28"W x 24"H x 24"D 711mm x 609mm x 609mm
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Shelving	9 total (max), removable Full-extension, stay in place Integrated copper strips optimize temp transfer Surface area: 28"W x 24"D Weight Capacity Per Shelf: 50 lb / 22.7 kg Approx 930 cubic inches of volume
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Vacuum Connections (Rear)

Vacuum Line	KF-25 Port
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Vent & Inert Gas	1/2" Barb
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*Pump and Connections sold separately, Inquire about Turnkey Packages



Shipping: 775 lb/ 352 kg
Net Weight: 663.0 lb/ 301 kg

CVO-10 PRO Vacuum Oven & Package

Temperature Performance Under Vacuum

Stability	@ 105°F +/- 0.2°F – ±0.2°F	@40°C +/- 0.1°C – ±0.1°C
	@ 200°F +/-0.4°F – ±0.4°F	@93.3°C +/- 0.2°C – ±0.2°C
	@ 302°F +/- 0.2°F – ±0.2°F	@150°C +/- 0.1°C – ±0.1°C
Heat Up from Ambient	@ 105°F / 40.5°C – 42 min	
	@ 200°F / 93.3°C – 94 min	
	@ 302°F / 150°C – 175 min	
Cool Down	@ 105°F / 40.5°C – 330 min	
	@ 200°F / 93.3°C – 94 min	
	@ 302°F / 150°C – 420 min	

**Temperature specifications are performed in empty ovens. Performance will vary in ovens containing product, and ambient lab conditions.*

Facilities

CVO-10
220V – 240V / 1ph / 10A 50/60Hz
Cord Included
NEMA 6-15R Power Outlet
(System will run on 208V)
Oven BTU Rating at 250°F: 6980
BTUs/hr at full capacity

Agilent IDP15
Oil-Free Scroll
Pump

PUMPING SPEED: 9 CFM
ULTIMATE PRESSURE: 10 x 10⁻³ Torr
POWER: 120V / 1ph (220V available)
INTAKE CONNECTION: KF-25
DIMENSIONS (L X W X H): 19.08" x
9.22" x 14.3"

MAXTRAP
-50°C/-105°C
Cold Trap

POWER: 115V / 1ph / 3 AMP (60Hz)
Cord Included
CFC / HCFC Free Refrigerants
DIMENSIONS: 13.5" W x 23.5" D x
12.0" H

WEIGHT:

COLDWELL Stainless Trap 14 lbs
Thermo Mechanical Base 60 lbs
Shipping Weight 95 lbs

INCLUDED CONNECTIONS:

1 each 4' KF-25 flanged vacuum
rated line
1 each KF-25 Centering Ring
1 each KF-25 Clamp

Exterior Dimensions



42" W x 40" D x 67.4"H
1067mm x 1021mm x 1712mm

Compliance

NRTL Certification #U8 170464972 077. No Extra cost.

CAN/CSA-C22.2 No. 61010-1:2012
+UPD No. 1:2015-07 + UPD No. 2:2016-04
CAN/CSA-C22.2 No. 61010-2-010:2015
UL 61010-1:2012/R:2016-04
UL 61010-2-010:2015
EN 61010-1:2010
EN 61010-2-010:2014

**Rigorous Quality Assurance in an ISO Certified, USA Manufacturing Facility
ANSI Rated Tempered Glass + USA Made Steel**