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Yamato ADP300C Vacuum Oven





27L

Rating: Not Rated Yet
Price
Sales price $2,250.00

Ask a question about this product

ManufacturerYamato

Description

Yamato ADP-300C Vacuum Drying Oven is a compact 27-liter (1 cubic foot) benchtop laboratory vacuum oven that serves as the direct replacement for the older ADP-31 models.

It features a programmable VS4 controller with digital readout, CE marking, larger ports, a 304 stainless steel chamber, and enhanced safety features. It operates from ambient +20°C to 240°C and down to 0.75 Torr, making it suitable for applications such as moisture determination, outgassing, aging tests, drying of paper/rubber/textiles, desiccating, and vacuum storage. The unit is designed for laboratory use with minimal footprint and straightforward operation via the digital interface.

Key features
Capacity and dimensions — 27 L (1 cu ft) internal capacity; internal dimensions approximately 300 × 300 × 300 mm; typically includes 3 removable aluminum shelves (shelf loading ~15 kg each); external footprint roughly 20.75 × 19.65 × 25.16 inches (or ~500 × 465 × 705 mm per manufacturer specs); weight ~55 kg.
Temperature performance — Operating range from ambient +20°C to 240°C (up to ~465°F); temperature control accuracy ±1.5°C (noted at 150°C on Ideal Vac; at 240°C in manufacturer data); reaches maximum temperature in approximately 70 minutes (Ideal Vac; manufacturer lists ~100 minutes for the 300C/310C under no-load conditions).
Vacuum capability — Operates from atmosphere down to 0.75 Torr (~0.1 kPa absolute); Bourdon tube vacuum gauge; vacuum and purge/vent valves on top with 18 mm hose barb ports (larger than the legacy ADP-31).
Controller and programmability — New VS4 programmable controller with digital readout on the control panel; digital PID microprocessor control; supports fixed-temperature, quick auto-stop, auto-stop, auto-start, and program operations; digital timer (1 min to 999+ hours); green/red LED displays for measured and set temperatures; calibration offset function.
Construction — Interior vacuum vessel of 304 stainless steel; large observation window of 12 mm thick tempered glass with polycarbonate resin plate and silicon rubber vacuum seal; mica heater (1.05 kW) with direct heating of the decompressed chamber; rock wool insulation.
Safety and compliance — Enhanced safety features including self-diagnostic functions (sensor, heater, SSR short circuit, overheat, etc.), independent overheating prevention, overcurrent/electric leakage breaker.
Power and utilities — 115 VAC, 50/60 Hz, approximately 9.5–10 A (with plug); corresponding ADP-310C model is the 220 VAC version (~5–5.5 A). Vacuum pump sold separately.
Additional features — Silicon rubber door seal for leak prevention; easy maintenance design; customizable options such as N? gas inlet and communication ports; good temperature stability for consistent results.

Comes with our 90-day warranty.

Biotech Equipment Sales, Inc.: based in South San Francisco, the Biotech capital of the world, since 2009. We are dedicated to bringing high-quality pre-owned laboratory instrumentation to our scientific community.

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