

VACUUM OVEN

ADP - 21/31

DP - 43/63

Overview

Yamato's vacuum ovens are designed to serve a variety of industrial or laboratory production needs, including drying, curing, aging, vacuum storage, component drying, and baking under vacuum conditions. The input system of Yamato vacuum ovens are logical and user friendly which enhances the overall user experience and enables trouble-free replication of any experiment.

Advantages

- Vacuum pump can be stored in the holder
- Easy input of parameters and settings
- Equipped with interactive key input device and graphic monitor
- Enriched safety measures, including a self-diagnostic function
- Independent overheat prevention device
- Easy maintenance

Applications

- Curing
- Bonding
- Drying
- Aging
- Sterilizing

Details

ADP Series

The ADP series is perfect for drying that requires a conditions that has decreased amounts of oxygen. The ADP series ovens are customizable with nitrogen gas inlet and communication ports.

DP Series

The DP series is great for laboratories that need larger sized vacuum ovens. This series is built with storage space under the oven perfect for vacuum pumps and instruction manuals. Just like the ADP series the DP ovens are ideal for drying that requires a conditions that has decreased amounts of oxygen. The DP series ovens are also customizable with nitrogen gas inlet and communication ports.



DP - 43

DP - 63

Which model is best for your needs?

ADP

Capacity for smaller sample sizes
Compact and easy to fit anywhere

DP

Larger capacity
Storage space under oven

Technical Specifications

MODEL		ADP - 21	ADP - 31	DP - 43	DP - 63	DP - 63P
Performance	Circulation Method	Vacuum drying by decompressed chamber direct heating				
	Temperature Range	Room temperature +5° to 240° C			Room temperature +10° to 200° C	
	Temperature Control Accuracy	± 1.5° C @ 240° C			± 1° C @ 200° C	
	Operating pressure range	101 ~ 0.1 kPa (760~1 Torr) at absolute pressure			101 ~ 0.1 kPa (760~1 Torr) at absolute pressure	
Structure	Temperature Controller	ON/OFF, PID control by microcomputer				
	Time to Reach Max. Temperature	Approx. 70min.	Approx. 100min.	Approx. 80min.	Approx. 120min.	Approx. 120min.
	Observation Window	250 x 280 mm, reinforced glass, 12mm thick ess with polycarbonate resin protection plate			None	None
	Controller	Fixed temperature operation, automatic-start, and automatic-stop		Fixed temperature operation, automatic-start, automatic-stop, program operation (Max 16 segments)		Automatic Sequence Operation
	Safety Devices	Over current earth leakage breaker, Dual overheating prevention function				
Standard	External Dimensions	400x 411 x 580 mm	500 x 463 x 684 mm	670 x 669 x 1500 mm	820 x 819 x 1650 mm or 32.3 x 32.2 x 65.0 in	820 x 819 x 1650 mm or 32.3 x 32.2 x 65.0 in
	Internal Dimensions	200 x 250 x 200 mm or 7.9 x 9.8 x 7.9 in	300 x 300 x 300 mm or 11.8 x 11.8 x 11.8 in	450 x 450 x 450 mm or 17.7 x 17.7 x 17.7 in	600 x 600 x 600 mm or 23.6 x 23.6 x 23.6 in	600 x 600 x 600 mm or 23.6 x 23.6 x 23.6 in
	Chamber Capacity	10 ℓ or .35 ft ³	27 ℓ or 1 ft ³	91 ℓ or 3.2 ft ³	216 ℓ or 7.6 ft ³	216 ℓ or 7.6 ft ³
	Weight	30 kg or 66 lbs	55 kg or 121 lbs	190 kg or 419 lbs	290 kg or 639 lbs	300 kg or 661 lbs
	Power Supply - AC 115 V	6 Amps	10 Amps	N/A	N/A	N/A
	Power Supply - AC 220 V	N/A	N/A	12 Amps	17 Amps	17 Amps
Included Accessories	Shelves	2 pcs	3 pcs	2 pcs	2 pcs	2 pcs
	Shelf Brackets	N/A	N/A	4 pcs	4 pcs	4 pcs
Optional Accessories	Stand	Part No. DV-21187	Part No. DV-21187	N/A	N/A	N/A
	Shelf and Brackets	Part No. ADP21-4038	Part No. ADP31-4038	Part No. DP41-11	Part No. DP61-11	Part No. DP61-11
	Communication Converter	Part No. RS232ODK18	Part No. RS232ODK18	Part No. 212893	Part No. 212893	Part No. 212893
	Communication Terminal	Part No. RS232ODK19	Part No. RS232ODK19	Part No. 212892	Part No. 212892	Part No. 212892
	Temperature Output Board	Part No. 1020000054	Part No. 1020000054	Part No. DP-43-0065A	Part No. DP-43-0065A	Part No. DP-43-0065A
	Temperature Output Terminal	Part No. ODK12	Part No. ODK12	Part No. ODP30	Part No. ODP30	Part No. ODP30

Additional Accessories

Vacuum Pump

Ask your customer representative for the appropriate vacuum pump. Select between two different connecting kits; rubber hose versus stainless steel hose.



Connecting Kits

Select your connecting kit by assessing the corrosiveness of the sample you will put inside the vacuum oven. If it is corrosive at all; the stainless steel connecting kit is highly recommended.