

Digital Vacuum Drying Ovens



AccuTemp 1.9 Cu Ft Vacuum

AccuTemp series vacuum ovens are the #1 award-winning brand in vacuum systems. They greatly minimize the drying time for various materials, all while providing excellent temperature uniformity inside the chamber. A vacuum environment will also lower the boiling point for liquids, which is great for heat sensitive material processing. The spacious 3.2, 7.5, and 16 cu ft **AccuTemp** vacuum ovens feature our internal shelf heating technology. Each of these built-in shelves has its own heating, in-shelf temperature sensor, and PID controller. With our low proportional controllers, the result is perfect temperature uniformity, accuracy, and ultra-fast heating rates.

Features

- Third generation PID controller with built-in temperature calibration.
- Adjustable gas backfill capability with needle valve and vent port, perfect for creating inert gas environments or reintroducing air back into the chamber at a controlled rate.
- Aluminum shelving for the best thermal conductivity.
- Consistent, stable temperature accuracy of $\pm 1^\circ\text{F}$.
- Large, dual layer observation window with $\frac{1}{2}$ " tempered safety glass.
- 3" thermal insulation, preventing heat loss from the chamber.
- A built-in vacuum check valve prevents vacuum oil backflow.
- Easy to clean stainless steel interior with exceptional durability.
- Best in class 2-year warranty.
- **CE certified. UL/CSA certification available.**



AccuTemp 16 Cu Ft Vacuum Oven

Model	AT09-UL	AT19-UL	AT32-UL	AT75-UL	AT160-UL
Power	110V or 220V 50/60Hz single phase		110V 60Hz single phase	110V or 220V 50/60Hz single phase	220V 50/60Hz single phase
Temperature Range	Ambient to 480 °F				
Temperature Uniformity	$\pm 7\%$ of set point	$\pm 6\%$ of set point	$\pm 1^\circ\text{F}$ accuracy		
Warm-up to 100 °F	60 minutes		35 minutes	45 minutes	
Output	1200 watts	1500 watts			3000 watts
Shelf	8 removable (4 included)	10 removable (5 included)	3 built in, max 6	5 built in, max 10	6 built in, max 12
Heating	3-sided	4-sided	Each built-in shelf can be individually heated to a unique temperature.		
Chamber Dimensions (in)	12x12x11	16.5x14.5x14	18x18x18 divided into three sections	22x23.5x25 divided into five 22x23.5x4.5 sections	25.5x30.5x35.5 divided into six 25.5x30x5 sections
Machine Dimensions (in)	28x32x65	28x20x21.75	30.5x24x29	35x31x38	33x36x53
Chamber Size (cu ft)	0.9	1.9	3.2	7.5	16.0
UL/CSA Certification	Yes				

SPECIFICATIONS

Model		AT09-UL	AT19-UL	AT32-UL	AT75-UL	AT160-UL
Electrical Requirements		110V, 50/60Hz, 1-PH / 220V, 50/60Hz 1-PH				
Power Output		1500W / 1200W	1500W			
Environmental Operation Conditions		- Indoor use and altitude up to 2000m - Temperature 5-40°C - Max. relative humidity 80% for temperatures up to 30°C decreasing linearly to 50% relative humidity at 40°C - Mains supply volt fluctuations up to ±10% of the nominal voltage - Transient overvoltage up to the levels of overvoltage category II (See Note 1) - Temporary overvoltage occurring on the mains supply. - Applicable pollution degree of the intended environment (pollution degree 2 inmost cases (see Note 2) Note 1: These levels of transient overvoltage are typical for equipment supplied from the building wiring. Note 2: Manufacturers may specify more restricted environmental conditions for operation, nevertheless the equipment must be safe within these normal environmental conditions.				
Chamber	Size (WxDxH)	12x12x11" (30.5x30.5x28cm)	16.5x14.5x14" (42x36.8x35.6cm)	18x18x18" (45.7x45.7x45.7cm)	22x23.5x25" (55.9x59.7x63.5cm)	25.6x30x35.5" (65x76.2x90.2cm)
	Material	Stainless Steel				
	Capacity	0.9 cubic foot	1.9 cubic foot	3.2 cubic foot	7.5 cubic foot	16 cubic foot
Temperature Controller	Controller	3 rd gen low proportional gain, microcomputer PID controlled with LCD display				
	Range	Ambient to 480°F (248°C)				Ambient to 200°F (100°C)
	Display Units	Fahrenheit or Celsius				
	Accuracy	± 1				
	Uniformity	± 5% of setpoint				
	Dwelling Time	1 to 9999 minutes				
	Warm up time to 100°F	40 minutes	45 minutes	35 minutes	45 minutes	55 minutes
Vacuum		Ultimate vacuum level: better than 500 microns/millitorrs (may vary based on your altitude) Mechanical vacuum gauge range: 0 to 30" mercury Mechanical vacuum gauge type: oil-filled Vacuum port: KF25 flange x1 Vent port: KF25 flange x1				
Door gasket material		Silicone (Standard), Viton (Optional)				
Observation window		1/2" tempered safety glass				
Shelves	Included with oven purchase	4 aluminum slide-in shelves	5 aluminum slide-in shelves	3 non-removable aluminum shelves	5 non-removable aluminum shelves	6 non-removable aluminum shelves
	Size (WxD)	11.5x11.25" (29.2x28.6cm)	16x14.25" (40.6x36.2cm)	17.5x17.25" (44.4x43.8cm)	22x23.25" (55.9x59.1cm)	25x29.25" (63.9x59.1cm)
	Distance between shelves	1" (2.54cm)		4.75" (12.1cm)	2.25" (5.7cm)	2.375" (6.03cm)
In-door lights		White LED (pre-installed)				
Safety		Built-in circuit breaker, controller overheat protection, secondary over-temp protection dial				
Compliance		UL (E482564), CSA, CE				
Warranty		2 years				

ACCESSORIES

RECOMMENDED FOR PAIRING



VACUUM PUMPS

Vacuum Oven	Ai	Edwards	Agilent
AT09-UL	EasyVac 7 or SuperVac 5	nXDS6iC	IDP-3
AT19-UL	EasyVac 9 or SuperVac 5	nXDS6iC	IDP-3
AT32-UL	EasyVac 9 or SuperVac 11	RV8 or nXDS10iC	IDP-7
AT50x-UL	EV9-UL or SV11c-UL	nXDS10iC or RV8	IDP-7
AT75-UL	SuperVac 11 or SuperVac 21	E2M28 or nXDS10iC	IDP-15
AT160-UL	SuperVac 21	E2M28 or nXDS20iC	IDP-15



Vacuum Oven	Welch	ULVAC	Vacuubrand
AT09-UL	2034	DTC-41	MD1CNT
AT19-UL	2052	UDP-6	MD4CNT
AT32-UL	2163	UDP-6	-

COLD TRAPS

Ai		
		
T40-UL	T40x-UL	T80x-UL

MOBILE CARTS



MC32



MC75

Vacuum REGULATORS

DigiVac		
		
VPC	Concerto	SNAP



MC19-3