



VWR Constant Temperature Ovens

**When you want
to put heat on,
there's no better
choice than
VWR Ovens**



Clockwise from left: Model 1685, Model 1380FM and Model 1410

Model 1670, 1675, 1680, 1685, 1690

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VWR Signature™ High Performance Horizontal Airflow Ovens

Designed for continuous drying at temperatures up to 325°C

The VWR Signature High Performance Ovens feature a horizontal airflow pattern that dries, bakes or cures...no matter what size the load. They offer precise state-of-the-art temperature control.

Horizontal airflow uses a turbo blower that re-circulates air over the heating element, providing fast heat up and recovery times; and ensuring a more rapid and efficient rate of drying. By forcing continuously warmed air into the chamber, the turbo blower assures uniform heating across all shelves and to every area of the chamber,

eliminating concerns about obstructed air, regardless of how the shelves are loaded.

This true one-pass airflow combined with large adjustable intake and exhaust vents makes it easy to adapt the oven to specific tasks. It also makes these the fastest, most energy efficient ovens on the market today.

Programmable temperature controller.

The Watlow microprocessor-based controller provides 24-step ramp and soak capability to an accuracy

of 0.1°C. Other ramping operations include ramp-rate or time-based programming, guaranteed soak deviation, program looping and program status selection after power outages. Easy, non-ramping set point operation is also available.

Energy efficient to help lower operating costs.

To maintain temperature uniformity and stop heat loss, VWR Signature Series Ovens use a 3½ inch thick, double-layer-insulating barrier of high-density alumina silicate and high temperature fiberglass around all five sides of the chamber. The double-layer configuration will not break down or settle from heat exposure, so years from now you still expect this oven to perform. What's more, seams are staggered to avoid gaps and subsequent heat loss, thus ensuring the oven is cool to the touch. A high temperature silicone rubber door seal eliminates air leakage. In addition, the door latch and hinges are user adjustable to maintain a better seal as metal expands and contracts over the life of the oven. These features allow VWR Ovens to finish their work when you do, so

you don't need to leave them on overnight.

Low maintenance motor.

Motor burn out is a common source of oven down time. The unique VWR design helps eliminate this problem by using a second fan to dissipate heat away from motor bearings. Since bigger bearings generally operate longer than little ones, VWR uses an oversized motor with oversize bearings to increase the longevity of the motor. Furthermore, to minimize heat transfer from the oven chamber to the motor, a half-inch diameter stainless steel shaft replaces the metal shaft that comes standard with motors because stainless is not a good conductor.

Safety features.

The independent over-temperature safety feature is

user adjustable and protects the unit against damage to contents and burnout in the unlikely event that the main controller fails. The sealed membrane touch-pad control panel guards against any harm to the electronics.

Key features:

- ¥Type-304 stainless steel interior and exterior for maximum corrosion resistance
- ¥Durable powder coat paint exterior finish
- ¥Three-inch intake and exhaust ports
- ¥Adjustable stainless steel shelves
- ¥Power exhaust accessory can be plugged into unit and run by Watlow controller
- ¥Chart recorder outlet available on Models 1675, 1680, 1685 and 1690
- ¥24 month warranty on parts and labor

Cat. No.	Model	Capacity, ft. ³	Temperature Style	Range	Heat Up, Uniformity	Recovery, Minutes	Minutes	Dimensions*, W x D x H in.	Watts/Amps
VWR SIGNATURE® HIGH PERFORMANCE HORIZONTAL AIRFLOW OVENS									
52201-754	1670	4.4	Medium, 2 Shelves	40C to 260°C	±0.5;C @ 100;C ±1.4;C @ 200;C ±2.2;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 20 x 20 x 19 Ext: 32.5 x 27.25 x 38	3000/12.5
52202-054	1675	10.4	Large, 3 Shelves	40C to 260°C	±1.0;C @ 100;C ±1.5;C @ 200;C ±2.2;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 30 x 20 x 30 Ext: 44 x 29 x 57	6300/26.5
52202-203	1680	14.6	Large, 2 Door, 6 Shelves	40C to 260°C	±1.0;C @ 100;C ±1.5;C @ 200;C ±2.2;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 42 x 20 x 30 Ext: 59 x 29 x 57	6300/26.5
52202-258	1685	25.0	Floor, 6 Shelves	40C to 260°C	±0.5;C @ 100;C ±1.4;C @ 200;C ±2.5;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 32 x 25 x 67.25 Ext: 43 x 33 x 83	11,900/49.6
52202-509	1690	37.9	Floor, 2 Door, 12 Shelves	40C to 260°C	±0.5;C @ 100;C ±1.4;C @ 200;C ±2.5;C @ 260;C	15 @ 100;C 25 @ 200;C	7 @ 150;C 25 @ 200;C	Int: 44 x 25 x 54 Ext: 68 x 33 x 80	11,900/49.6
16000-220	1680-3	14.6	Large, 2 Door, 6 Shelves, 3-Phase	40C to 260°C	±1.0;C @ 100;C ±1.5;C @ 200;C ±2.2;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 42 x 20 x 30 Ext: 59 x 29 x 57	5000/12
16000-222	1685-3	25.0 3-Phase	Floor, 6 Shelves,	40C to 260°C	±0.5;C @ 100;C ±1.4;C @ 200;C ±2.5;C @ 260;C	15 @ 100;C 25 @ 200;C	5 @ 150;C 25 @ 200;C	Int: 32 x 25 x 67.25 Ext: 43 x 33 x 83	10,000/24
16000-224	1690-3	37.9	Floor, 2 Door, 12 Shelves, 3-Phase	40C to 260°C	±0.5;C @ 100;C ±1.4;C @ 200;C ±2.5;C @ 260;C	15 @ 100;C 25 @ 200;C	7 @ 150;C 25 @ 200;C	Int: 44 x 25 x 54 Ext: 68 x 33 x 80	10,000/24

*Exterior dimensions include handle and exhaust port. ¥Volts: 208/230 ¥Cycle: 50/60Hz Units must be hardwired. Power cord not supplied.

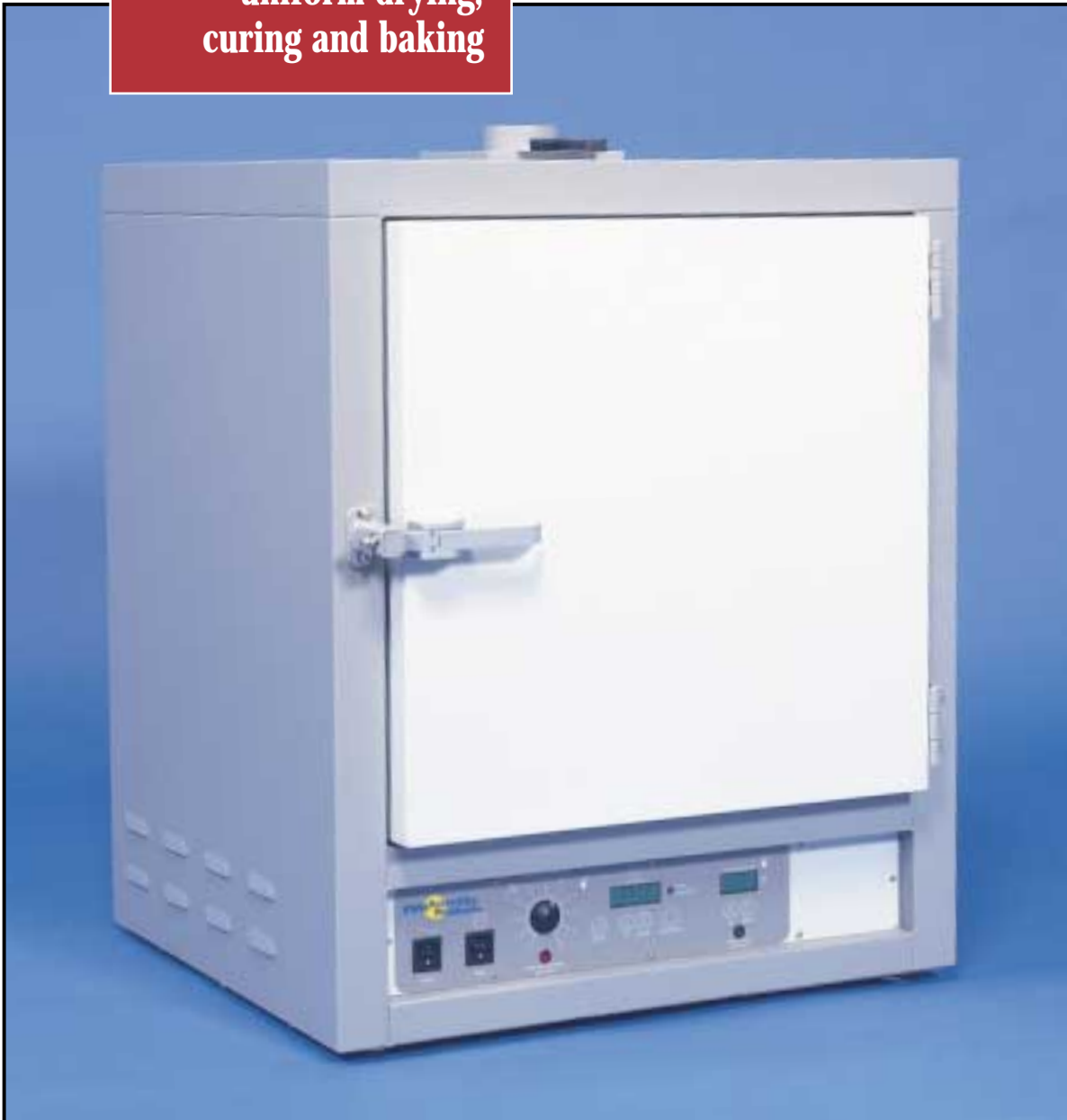
See page 19 for price information.

VWR Signature™ Horizontal Airflow Ovens

**True horizontal
airflow for fast
uniform drying,
curing and baking**

The VWR Signature Horizontal Airflow Ovens use the same turbo blower system as our high performance models to deliver optimal temperature uniformity and recovery. The built-in microprocessor technology ensures stable control without temperature overshoot.

Model 1350FM



Unique airflow design.

With the true horizontal airflow design, heated air is directed into the ductwork on the right side of the oven. This slightly pressurized air escapes through the small perforations in the chamber wall, flows across each shelf picking up moisture, and is gently suctioned through large openings on the opposite chamber wall. This pattern encourages fast, uniform drying even when your shelves are loaded.

Steady, reliable, safe.

The microprocessor control capability assures optimal stability and allows for accurate temperature control. Temperature and time set points are even held in memory during power outages—a real time-saving advantage.

Convenient digital timer.

The digital LED electronic timer is conveniently located on the control panel and gives the user the capability of automatically turning off the oven at the end of an application cycle. The timer has a range of 1 minute to 99 hours/59 minutes and is activated by an independent ON/OFF switch.

Flexibility.

Ovens are used for three main purposes: drying, baking and curing. By positioning the damper on the exhaust port accordingly, the user can accomplish all three types of applications. The exhaust port is 3-inches indiameter, further aiding in drying time.

Built-in safety features.

There are no exposed heating elements in this oven series. This eliminates danger to the user and damage to the oven from spills within the chamber. An independent overtemperature safety controller with its own sensor provides extra protection.

Key features:

- True horizontal airflow pattern
- Three inch adjustable exhaust port
- Stainless steel interior and shelves
- Durable powder coat paint exterior finish
- Adjustable door latch and hinges
- Digital electronic timer
- Wrap around insulation for excellent heat retention
- 24 month warranty on parts and labor

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Recovery, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE HORIZONTAL AIRFLOW OVENS									
52201-069	1330FM	1.6	Small, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	1750/14.6
52201-084	1330FM-2	1.6	Small, 2 Shelves, 220V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	2350/9.8
52201-070	1350FM	4.0	Medium, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	1950/16.3
52201-086	1350FM-2	4.0	Medium, 2 Shelves, 220V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	2350/9.8
52201-071	1370FM	5.9	Large, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	1950/16.3
52201-088	1370FM-2	5.9	Large, 2 Shelves, 220V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	2350/9.8

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

VWRbrand™ Forced Air Ovens

**Durable,
dependable general
purpose ovens**

Model 1321F



These forced air ovens offer the benefits of mechanical convection but at an economical price.

Optimum uniformity.

The forced, blower-assisted airflow design offers excellent temperature uniformity and fast recovery. A turbo blower and heavy-duty motor combine to direct air over the shelves and samples for even, consistent drying, curing and baking. Especially ideal for glassware drying.

Key features:

- Three-inch adjustable exhaust port
- Stainless steel shelves adjustable on 1/2" increments
- Independent overtemperature safety
- High temperature silicone door seal
- No exposed heating elements
- Wrap around insulation for excellent heat retention
- Durable powder coat paint exterior finish
- Digital timer (Models 1380FM, 1390FM)
- Thermometer and clip supplied (Models 1321F, 1325F, 1327F)
- 24 month warranty on parts and labor

Optimum control.

The Models 1321F, 1325F, and 1327F feature an hydraulic temperature control, while the large capacity Models 1380FM and 1390FM have a microprocessor controller. The independent overtemperature safety feature is user adjustable and provides added safety for the user.

Broad product offering.

There are several models to choose from in the forced air product line, both in size and control. The large capacity units are perfect for high volume sample and drying applications, including production processes.

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/Amps
VWRbrand FORCED AIR OVENS								
16000-208	1321F	2.0	Small, 1 Shelves, 110V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 16.875 x 12.5 x 17 Ext: 20.25 x 21 x 25	800/6.6
16000-210	1321F-2	2.0	Small, 1 Shelves, 220V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 16.875 x 12.5 x 17 Ext: 20.25 x 21 x 25	800/3.3
16000-212	1325F	4.0	Medium, 2 Shelves, 110V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 15.875 x 17.5 x 22 Ext: 23.25 x 20 x 31	800/6.6
16000-214	1325F-2	4.0	Medium, 2 Shelves, 220V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 15.875 x 17.5 x 22 Ext: 23.25 x 20 x 31	800/3.3
16000-216	1327F	6.0	Large, 2 Shelves, 110V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 19.875 x 17.5 x 28 Ext: 24 x 23.625 x 37	1050/8.8
16000-218	1327F-2	6.0	Large, 2 Shelves, 220V	40°C to 200°C	±3.5°C @ 100°C	22 @ 100°C	Int: 19.875 x 17.5 x 28 Ext: 24 x 23.625 x 37	1050/4.4
52201-075	1380FM	13.9	Large, 3 Shelves, 110V, Microprocessor	40°C to 200°C	±1.8°C @ 100°C	14 @ 150°C	Int: 31 x 25 x 31 Ext: 37 x 35 x 48	3950/16.5
52201-077	1390FM	27.8	Large, 6 Shelves, 220V, Microprocessor	40°C to 200°C	±1.8°C @ 100°C	14 @ 150°C	Int: 31 x 25 x 62 Ext: 37 x 35 x 80	5950/25

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single
NOTE: Models 1380FM and 1390FM available only in 220V current.

See page 19 for price information.

Microprocessor technology and a unique air duct system provide you with outstanding temperature control and uniformity in these VWR Signature Gravity Convection ovens.

Stability and safety.

The microprocessor controller with push button calibration provides precise temperature and time setability. The controller even retains set points during power outages. The temperature and timer are displayed digitally on an easy to read LED.

Digital timer.

The digital LED electronic timer gives the user the capability of automatically turning off the oven at the end of an application cycle. The timer has a range of 1 minute to 99 hours/59 minutes and is activated by an independent ON/OFF switch.

Unique heating system.

As air is heated in the gravity convection design, it rises to the top of the oven. The heated air is directed through an air duct system and enters the chamber through slots above each shelf. Even when shelves are fully

loaded, this exclusive feature creates many different flow patterns to optimize uniformity. The exhaust port, located on top of the oven, aids in venting the oven and allows for flexibility in drying time.

Built-in safety.

A solid chamber floor eliminates danger to the user and prevents damage to the oven from spills, as there are no exposed elements. A resettable circuit breaker is standard in case of electrical malfunction. The overtemperature safety is UL approved, user adjustable and independent of the main temperature controller.

Key features:

- Microprocessor control system
- Digital electronic timer
- Three-inch adjustable exhaust port
- Stainless steel interior and shelves
- Durable powder coat paint exterior finish
- Adjustable door latch and hinges

- Wrap around insulation for excellent heat retention
- 24 month warranty on parts and labor



Model 1350GM

VWR Signature™
Gravity
Convection
Ovens
Designed for
optimal temperature
uniformity

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Recovery, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE GRAVITY CONVECTION OVENS									
52200-205	1330GM	1.6	Small, 2 Shelves, 110V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	1400/11.7
52200-216	1330GM-2	1.6	Small, 2 Shelves, 220V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	2000/8.4
52200-209	1350GM	4.0	Medium, 2 Shelves, 110V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	1600/13.4
52200-218	1350GM-2	4.0	Medium, 2 Shelves, 220V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	2000/8.4
52200-215	1370GM	5.9	Large, 2 Shelves, 110V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	1600/13.4
52200-220	1370GM-2	5.9	Large, 2 Shelves, 220V	40°C to 240°C	±2.0°C @ 150°C	15 @ 150°C	10 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	2000/8.4

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz. • Phase: Single

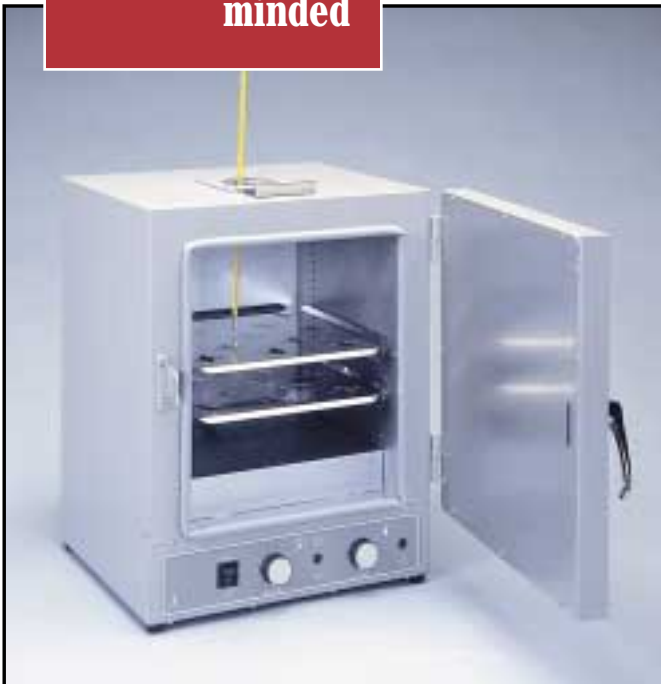
See page 19 for price information.

**VWRbrand™
Gravity
Convection
Ovens**

**Priced for
the budget
minded**

Economically priced, yet have the features required for professional results in the lab. As with all VWR ovens, these units are durable and built to last.

Model 1310



Reliable performance.

These VWRbrand ovens feature a gravity convection design for efficient heating. The double wall insulation and two inches of industrial fiberglass insulation help to minimize heat loss. The low watt density heaters keep temperatures uniform to $\pm 4.0^{\circ}\text{C}$ and require only 750 watts...keeping your energy consumption down.

Analog design.

A hydraulic temperature controller regulates a temperature range of 40 to 200°C . An independent hydraulic overtemperature safety controller provides added operating safety.

Key features:

- Three-inch adjustable exhaust port
- Stainless steel shelves adjustable on $\frac{1}{2}$ " increments
- Independent hydraulic overtemperature safety
- High temperature silicone door seal
- No exposed heating elements
- Wrap around insulation for excellent heat retention
- Durable powder coat paint exterior finish
- Thermometer and clip supplied
- CSA approved
- 24 month warranty on parts and labor

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/Amps
VWRbrand GRAVITY CONVECTION OVENS								
52201-297	1310	1.0	Small, 1 Shelf, 110V	40°C to 200°C	$\pm 4.0^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 12 x 12 x 12 Ext: 16 x 17.5 x 18.5	750/6.25
52201-298	1310-2	1.0	Small, 1 Shelf, 220V	40°C to 200°C	$\pm 4.0^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 12 x 12 x 12 Ext: 16 x 17.5 x 18.5	800/3.3
52201-300	1320	2.0	Small, 2 Shelves, 110V	40°C to 200°C	$\pm 4.0^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 17 x 12 x 17 Ext: 21 x 17.5 x 23.5	750/6.25
52201-301	1320-2	2.0	Small, 2 Shelves, 220V	40°C to 200°C	$\pm 4.0^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 17 x 12 x 17 Ext: 21 x 17.5 x 23.5	800/3.3
16000-200	1324	4.0	Medium, 2 Shelves, 110V	40°C to 200°C	$\pm 3.5^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 15.875 x 17.5 x 22 Ext: 23.25 x 20 x 31	750/6.3
16000-202	1324-2	4.0	Medium, 2 Shelves, 220V	40°C to 200°C	$\pm 3.5^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 15.875 x 17.5 x 22 Ext: 23.25 x 20 x 31	750/3.1
16000-204	1326	6.0	Large, 2 Shelves, 110V	40°C to 200°C	$\pm 3.5^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 19.875 x 17.5 x 28 Ext: 24 x 23.625 x 37	1000/8.3
16000-206	1326-2	6.0	Large, 2 Shelves, 220V	40°C to 200°C	$\pm 3.5^{\circ}\text{C}$ @ 100°C	22@100°C	Int: 19.875 x 17.5 x 28 Ext: 24 x 23.625 x 37	1000/4.2

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

Utility ovens feature a welded steel, insulated wall construction to keep the interior temperature uniform to $\pm 4.0^{\circ}\text{C}$. Suitable for small work volumes.

Efficient performance.

Ovens achieve peak efficiency with less energy, lowering your electric costs. Temperature range is 40 to 180°C, regulated by a timed temperature controller. The bi-metal overtemperature safety feature protects against the possible main controller failure.

Key features:

- Three-inch adjustable exhaust port
- Flat punched shelves adjustable on $\frac{1}{2}$ " increments
- Independent bi-metal overtemperature safety
- Two inches of fiberglass insulation
- No exposed heating elements
- Safety circuit breaker
- Durable powder coat paint exterior finish
- Thermometer and clip supplied
- CSA approved
- 24 month warranty on parts and labor

VWRbrand™ Utility Ovens

Reliable,
low cost
gravity
convection
design

Model 1300U



Cat. No.	Model	Capacity, ft. ³	Temperature Style	Range	Dimensions*, Uniformity	W x D x H in.	Watts/ Amps
VWRbrand UTILITY OVENS							
52200-501	1300U	1.0	Small, 1 Shelf, 110V	40°C to 180°C	$\pm 6.0^{\circ}\text{C}$ @ 100°C	Int: 12 x 12 x 12 Ext: 16 x 17.5 x 18.5	550/4.6
52200-502	1300U-2	1.0	Small, 1 Shelf, 220V	40°C to 180°C	$\pm 6.0^{\circ}\text{C}$ @ 100°C	Int: 12 x 12 x 12 Ext: 16 x 17.5 x 18.5	500/2.1
52200-534	1305U	2.0	Small, 1 Shelf, 110V	40°C to 180°C	$\pm 6.0^{\circ}\text{C}$ @ 100°C	Int: 17 x 12 x 17 Ext: 21 x 17.5 x 23.5	550/4.6
52200-535	1305U-2	2.0	Small, 1 Shelf, 220V	40°C to 180°C	$\pm 6.0^{\circ}\text{C}$ @ 100°C	Int: 17 x 12 x 17 Ext: 21 x 17.5 x 23.5	500/2.1

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

VWR Signature™ Safety Ovens

Designed to meet
your strictest
safety needs

Manufactured with additional features to help you better meet your safety requirements.

Unique safety design.

Built to the same specifications as the VWR Signature Ovens, these units feature a blow out back panel to better meet safety standards. The blow out back panel is designed to release in the event of an explosion within the chamber, directing the force away from the user and the lab. The user adjustable overtemperature control is an added safety feature.

Key features:

- Unique blow out back panel
- Microprocessor temperature controller
- Stainless steel interior and shelves
- Three-inch exhaust port
- Horizontal airflow or gravity convection
- Durable powder coat paint exterior finish
- Independent overtemperature safety
- 24 month warranty on parts and labor

Accurate control and heating.

All models are microprocessor controlled and the temperature is displayed digitally on an LED. The Model 1330GMS features a gravity convection design, while Model 1330FMS and 1350FMS are true horizontal airflow ovens.



1330GMS

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Recovery, Minutes	Dimensions*, W x D x H in.	Watts/Amps
VWR SIGNATURE SAFETY OVENS									
52201-212	1330GMS	1.6	Small, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 13.25 x 14.5 x 14.75 Ext: 22 x 22 x 33	1400/11.7
52201-214	1330FMS	1.6	Small, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	1750/14.6
52201-216	1350FMS	4.0	Medium, 2 Shelves, 110V	40°C to 240°C	±1.5°C @ 150°C	10 @ 150°C	6 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	1950/16.3

*Exterior dimensions include handle and exhaust stack. • Cycle: 50/60 Hz • Phase: Single

See page 19 for price information.

Constructed with the same advanced technology as our horizontal airflow ovens, these two cleanroom units feature a true horizontal airflow design via a turbo blower, low maintenance motor, energy-efficient insulation, programmable digital controller and more.

Encapsulated insulation.

Insulation is encapsulated between fully welded airtight seams so fibers cannot invade the chamber and contaminate your work.

Nitrogen purging system.

A nitrogen supply inlet is standard on both models. This creates a dry, oxygen-free atmosphere in order to reduce product oxidation. The pressurizing action of the nitrogen also inhibits the entry of contaminants.

Programmable controller.

The Watlow PID (Proportional Integral Differential) controller provides 24-step ramp and soak with an accuracy of 0.1°C and multiple levels of access. The controller can

input up to a 24-step program with time-based or ramp-rate programming.

Class 100 air.

The Model 1601 is equipped with a high efficiency particulate air (HEPA) filter to screen out 95% of the airborne particles as small as 0.3 microns. Plus, the stainless steel interior surface minimizes particulates as well.

Key features:

- Nitrogen purging capability
- Type-304 stainless steel interior and exterior parts
- Sealed membrane touch pad control panel protects electronics
- Encapsulated insulation
- Programmable temperature controller
- Three-inch adjustable intake and exhaust ports
- User adjustable overtemperature safety
- 24 month warranty on parts and labor

VWR Signature™ Cleanroom Ovens

Special features
to protect your
products and
cleanroom against
contamination



Model 1601

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range†	Uniformity	Heat Up, Minutes	Recovery, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE CLEANROOM OVENS									
52201-721	1601	3.7	Single Door, 2 Shelves, HEPA Filter	40°C to 200°C	±0.7°C @ 100°C ±1.8°C @ 200°C ±2.2°C @ 260°C	15 @ 100°C 25 @ 200°C	6 @ 150°C, 8 @ 200°C	Int: 16 x 16 x 19 Ext: 32.5 x 27.25 x 38	4200/16.7
52201-710	1602	4.4	Single Door, 2 Shelves	40°C to 200°C	±0.5°C @ 100°C ±1.5°C @ 200°C	10 @ 100°C 20 @ 200°C	4 @ 150°C 6 @ 200°C	Int: 20 x 20 x 19 Ext: 32.5 x 27.25 x 38	4200/16.7

*Exterior dimensions include handle and exhaust port. Volts: 208/230 • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.



Model 1365

**VWR Signature™
Depyrogenation
Oven**
**Perfect for small
applications**

Versatile.

Designed to operate at depyrogenation temperatures of 230°C - 250°C, this oven is perfect for small applications and cost-conscious labs. The Model 1365 is also ideal for molecular biologists

The Model 1365 Depyrogenation Oven gives you the benefits of high-priced depyrogenation ovens without the budget breaking cost.

working with RNA and pharmaceutical and diagnostic firms dealing with gene therapy.

High performance filtration.

The oven features a DT HT filter on the air intake side which facilitates removal of airborne gram negative bacteria. Filter scores 40-50% on the ASHRE dust spot test.

Maximum heat retention.

A plugged door provides maximum insulation and heat retention. Model 1365 also features mechanically convected horizontal air flow. Air flow is rated at 144 LFM ensuring quick, even drying of glassware.

Microprocessor controlled.

The Depyrogenation Oven is PID/Microprocessor controlled. Easy-to-read

LED timer lets you set application times up to 99 hours, 59 minutes, counts down “backward” and disengages the element at the end of set time.

Complete depyrogenation.

To insure complete depyrogenation, Model 1365 should be used in conjunction with a sterilizer and proper depyrogenation procedure for rendering glassware pyrogen-free (as described in USP manual, Vol. 23).

Key features:

- Ideal for small applications
- Maximum heat retention
- PID/microprocessor controlled
- 24 month warranty on parts and labor

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE DEPYROGENATION OVEN 13309-458	1365/220V	5.0	Small, 2 Shelves	40°C to 260°C	±2.0°C @ 250°C	Int: 25 x 21 x 18 Ext: 16 x 17.5 x 18.5	2000/9.5

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

Unique design.

The all stainless steel housing, screws and electronic control boards in these units are treated with a protective coating to guard against such damage caused by these materials and extend the life of your oven.

Mechanical or gravity convection.

Both mechanical and gravity convection are available in this product line. The models with the "FZZ" suffix feature the true horizontal airflow for superior temperature uniformity. These units use a durable turbo blower system and non-exposed heating elements. Models with the "GZZ" suffix are gravity convection designs.

Key features:

- Microprocessor temperature controller
- Stainless steel interior and shelves
- Three-inch exhaust port
- Horizontal airflow or gravity convection
- Durable powder coat paint exterior finish
- Independent overtemperature safety
- 24 month warranty on parts and labor

Model 1350FZZ



VWR Signature™ Asphalt/Corrosive Material Ovens

Designed to
withstand
corrosion and
damaging fumes

Manufactured specifically to resist the corrosive nature and damaging fumes of asphalt and other materials.

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Recovery, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE ASPHALT/CORROSIVE OVENS									
52202-580	1330GZZ	1.6	Small, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	1400/11.7
52202-582	1350GZZ	4.0	Medium, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	1600/13.4
52202-584	1370GZZ	5.9	Large, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	1600/13.4
52202-590	1330FZZ	1.6	Small, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 13 x 14 x 14.75 Ext: 21.25 x 23.75 x 33	1750/14.6
52202-592	1350FZZ	4.0	Medium, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 18.25 x 19 x 16.5 Ext: 27 x 25.5 x 34.75	1950/16.3
52202-594	1370FZZ	5.9	Large, 2 Shelves	40°C to 250°C	±1.5°C @ 150°C	15 @ 150°C	6 @ 150°C	Int: 23 x 20 x 18.5 Ext: 32.5 x 28 x 36.25	1950/16.3

*Exterior dimensions include handle and exhaust port. Volts: 110 • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

True vacuum valves.

Durable vacuum valves with seats are located on the top edge of the unit for convenient pump connection. Standard high temperature silicone gaskets ensure a non-leaking seal around the door. Ovens will maintain a vacuum up to 10 microns or better.

Top accuracy.

The microprocessor controller results in precise temperature control. Digital setpoint and display facilitate the control of the temperature in 1°C increments.

The dual door design helps maintain optimum temperature uniformity. The inner door features a half-inch thick (3/4" on Model 1450M) tempered glass observation window that resists breakage under vacuum and allows you to easily view your samples. These units also feature all stainless steel interiors and exteriors for corrosion resistance and easy cleaning.

Unique contact heating.

These vacuum ovens utilize a unique contact heating system. The walls of the chamber are lined with heating elements. As there is no air in the chamber, heat is transferred to the samples via aluminum shelves that are in contact the walls of the chamber.

Model 1410M



**VWR Signature™
Vacuum Ovens**

**Designed for
superior performance**

VWR Signature Vacuum Ovens offer many unique features to ensure superior performance.

Convenient access port.

A one-inch port is located on the back of the vacuum oven chambers for easy connection of in-house pump systems and for external access with adapter. (Adapter not included).

Cross flow ventilation.

The vacuum inlet is located on the top front and the bleed back inlet is in the bottom back. This configuration forces your inert gas to travel the greatest distance, passing over your samples and purging the chamber.

Key features:

- True vacuum valves
- Unique cross flow ventilation
- Contact heating
- Microprocessor temperature controller
- Stainless steel interior and exterior
- Access port
- Independent overtemperature safety
- CSA approved
- 24 month warranty on parts and labor

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/Amps
VWR SIGNATURE VACUUM OVENS								
52201-515	1410M	0.6	Small, Digital, 3 Shelves, 120V/220V	40-325°C	± 2.0°C @ 100°C ± 3.0°C @ 200°C	35 @ 100°C	Int. 9 x 12 x 9 Ext. 19 x 16 x 16	1410/8.3 1100/4.6
52201-516	1410M-2							
52201-548	1430M	1.7	Medium, Digital, 3 Shelves, 120V/220V	40-260°C	± 2.0°C @ 100°C ± 3.0°C @ 200°C	35 @ 100°C	Int. 12 x 20 x 12 Ext. 25 x 25 x 21	1000/8.3 1200/5.0
52201-549	1430M-2							
52201-650	1450M	4.5	Large, Digital, 3 Shelves, 120V/220V	40-260°C	± 2.5°C @ 100°C ± 3.5°C @ 200°C	70 @ 100°C	Int. 18 x 24 x 18 Ext. 30 x 28.5 x 24	1500/12.5 1600/6.7
52201-651	1450M-2							

*Exterior dimensions include handle and exhaust stack. • Cycle: 50/60 Hz • Phase: Single

See page 19 for price information.

The nine cubic foot size of this VWR Signature Model 1495D general-purpose vacuum oven makes it ideal for research and industrial use. Common applications include drying heat sensitive samples, moisture determination and drying samples under a controlled atmosphere.

Versatile programmability.

The Watlow 981 temperature controller, programmable and microprocessor-based, offers multiple ramp and soak capabilities, including storing and running up to 24 temperature profiles. Controls are easily adjustable and the control panel is user friendly. A digital vacuum gauge shows chamber vacuum level in measurements of Torr and m/Torr. The display range is 760 Torr down to 0 mil Torr. A secondary independent high limit controller provides overtemperature safety protection.

Solid construction.

The oven chamber, wrapped in high temperature insulation, aids overall performance and promotes energy efficiency. All stainless

steel construction, true vacuum valves and cross-flow ventilation through the oven chamber enhance total performance. Vacuum oven is secured to a ruggedly constructed mobile stand to create a vacuum station. The stand is designed for mounting a vacuum pump at the base. Although the oven is not supplied with a vacuum pump, all vacuum plumbing and KF25 connections are provided. Stainless steel is used for all vacuum tubing and connections.

Key features:

- Large 9 cu. ft. capacity
- Microprocessor temperature controller
- Stainless steel interior and exterior
- Access port
- Independent overtemperature safety
- 24 month warranty on parts and labor

**VWR Signature™
Model 1495D
Vacuum Oven**

**Designed for a variety
of applications**

Model 1495D



Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE MODEL 1495D VACUUM OVEN								
15001-112	1495D	9	Large, 3 Shelves	Ambient +5°C to 220°C	±7°C @ 150°C	1.5 hours @ 150°C	Int: 71 x 61 x 161, Ext: 92 x 114 x 158	3840/16

Volts: 240 • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.



Model 1410



Durable design.

Temperature is controlled by a hydraulic thermostat and a feature stainless steel interior. A half-inch thick tempered glass observation window in the oven door permits easy viewing of the chamber interior.

heat is transferred to the samples via aluminum shelves that are in contact the walls of the chamber.

Convenient access port.

The Model 1430 has a one-inch port that is located on the back of the vacuum oven chamber for easy connection of in-house pump systems and for external access with adapter. (Adapter not included).

Cross flow ventilation.

The vacuum inlet is located on the top front and the bleed back inlet is in the bottom back. This configuration forces your inert gas to travel the greatest distance, passing over your samples and purging the chamber.

Key features:

- True vacuum valves
- Unique cross flow ventilation
- Contact heating
- Wrap around insulation for energy efficiency
- Analog temperature controller
- Stainless steel interior
- Access port (Model 1430)
- Independent overtemperature safety
- CSA approved
- 24 month warranty on parts and labor

**VWRbrand™
Vacuum Ovens**

Dependable performance,
economically priced

Model 1400E



True vacuum valves.

Vacuum valves with seats are located on the top edge of the unit for convenient pump connection. Standard high temperature silicone gaskets ensure a non-leaking seal around the door. Ovens will maintain a vacuum up to 10 microns or better.

Unique contact heating.

These vacuum ovens utilize a unique contact heating system. The walls of the chamber are lined with heating elements. As there is no air in the chamber,

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWRbrand VACUUM OVENS								
52201-218	1400E	0.6	Small, 2 Shelves, 120V	40-210°C	± 3.5°C @ 100°C	30 @ 100°C	Int: 9 x 12 x 9	550/4.6
52201-219	1400E-2		220V		± 5.0°C @ 200°C		Ext: 16 x 16 x 19	800/3.3
52201-504	1410	0.6	Small, 2 Shelves, 120V	40-225°C	± 3.5°C @ 100°C	30 @ 100°C	Int: 9 x 12 x 9	550/4.6
52201-505	1410-2		220V		± 5.0°C @ 200°C		Ext: 19 x 16 x 16	800/3.3
52201-559	1430	1.7	Medium, 2 Shelves, 120V	40-325°C	± 3.5°C @ 100°C	30 @ 100°C	Int: 12 x 20 x 12	1100/9.2
52201-558	1430-2		220V		± 5.0°C @ 200°C		Ext: 25 x 25 x 21	1200/5.0

*Exterior dimensions include handle and exhaust port. • Cycle: 50/60Hz • Phase: Single

See page 19 for price information.

Model 1410MS



**VWR
Signature™
Safety
Vacuum
Ovens**

**Designed
to meet
your safety
requirements**

VWR Signature safety vacuum ovens incorporate safety features into the microprocessor-based vacuum oven design.

Safety design.

Designed with the safety of your lab in mind, these vacuum ovens have additional safety features such as the non-positive door latch and safety screen. This door

latch design releases pressure quickly, eliminating the possibility of an explosion. The .063 gauge steel mesh safety screen over the observation window protects lab occupants in the event the glass should shatter due to an explosion.

Quality features.

These models come standard with a microprocessor temperature controller, stainless steel interior and exterior and a dual door system. They also feature the true vacuum valves, cross flow ventilation and contact heating system.

**VWRbrand™ Safety
Vacuum Ovens**

**Safety and reliability in a
value-priced design**

Safety design.

Designed for safe performance, these VWRbrand vacuum ovens offer features such as the non-positive door latch and safety screen. This door latch design releases pressure quickly, eliminating the possibility of an explosion. The .063 gauge steel mesh safety screen over the observation window protects lab occupants in the event the glass should shatter due to an explosion.

Standard features.

The digital designs come standard with a stainless steel interior and exterior and a dual door system. They also feature the true vacuum valves, cross flow ventilation and contact heating system as well.

Cat. No.	Model	Capacity, ft. ³	Style	Temperature Range	Uniformity	Heat Up, Minutes	Dimensions*, W x D x H in.	Watts/ Amps
VWR SIGNATURE SAFETY VACUUM OVENS								
52201-481	1410MS	0.6	Small, 2 Shelves	40-325°C	± 2.0°C @ 100°C ± 3.0°C @ 200°C	35 @ 100°C	Int: 9 x 12 x 9 Ext: 19 x 16 x 16	1410/8.3
52201-551	1430MS	1.7	Medium, 2 Shelves	40-260°C	± 2.0°C @ 100°C ± 3.0°C @ 200°C	35 @ 100°C	Int: 12 x 20 x 12 Ext: 25 x 25 x 21	1000/8.3
52201-656	1450MS	4.5	Large, 2 Shelves	40-260°C	± 2.5°C @ 100°C ± 3.5°C @ 200°C	70 @ 100°C	Int: 18 x 24 x 18 Ext: 30 x 28.5 x 24	1500/12.5
VWRbrand SAFETY VACUUM OVENS								
52201-490	1410S	0.6	Small, 2 Shelves	40-225°C	± 3.5°C @ 100°C ± 5.0°C @ 200°C	30 @ 100°C	Int: 9 x 12 x 9 Ext: 19 x 16 x 16	550/4.6
52201-479	1430S	1.7	Medium, 2 Shelves	40-325°C	± 3.5°C @ 100°C ± 5.0°C @ 200°C	30 @ 100°C	Int: 12 x 20 x 12 Ext: 25 x 25 x 21	1100/9.2

*Exterior dimensions include handle and exhaust stack. • Volts: 120 • Cycle: 50/60 Hz • Phase: Single

See page 19 for price information.

Price List

Cat. No.	Model	Voltage	Price
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Ovens

VWR Signature High Performance Horizontal Air Flow p. 2-3

52201-754	1670	208/230	\$4059.50
52202-054	1675	208/230	5151.36
52202-203	1680	208/230	6887.15
52202-258	1685	208/230	7783.04
52202-509	1690	208/230	11,478.58
16000-220	1680-3	208/230	7105.00
16000-222	1685-3	208/230	7965.00
16000-224	1690-3	208/230	11,549.00

VWR Signature Horizontal Air Flow, p. 4-5

52201-069	1330FM	110	\$1853.37
52201-084	1330FM-2	220	1853.37
52201-070	1350FM	110	2183.73
52201-086	1350FM-2	220	2183.73
52201-071	1370FM	110	2698.88
52201-088	1370FM-2	220	2698.88

VWRbrand Forced Air, p. 6

16000-208	1321F	110	\$1225.00
16000-210	1321F-2	110	1225.00
16000-212	1325F	110	1450.00
16000-214	1325F-2	110	1450.00
16000-216	1327F	110	1755.00
16000-218	1327F-2	110	1755.00
52201-075	1380FM	220	4143.38
52201-077	1390FM	220	5039.38

VWR Signature Gravity, p. 7

52200-205	1330GM	110	\$1455.53
52200-216	1330GM-2	220	1455.53
52200-209	1350GM	110	2082.94
52200-218	1350GM-2	220	2082.94
52200-215	1370GM	110	2138.94
52200-220	1370GM-2	220	2138.94

VWRbrand Gravity, p. 8

52201-297	1310	110	\$745.00
52201-298	1310-2	220	745.00
52201-300	1320	110	885.00
52201-301	1320-2	220	885.00
16000-200	1324	110	1160.00
16000-202	1324-2	220	1160.00
16000-204	1326	110	1360.00
16000-206	1326-2	220	1360.00

VWRbrand Utility, p. 9

52200-501	1300U	110	\$458.00
52200-502	1300U-2	220	458.00
52200-534	1305U	110	578.00
52200-535	1305U-2	220	578.00

VWR Signature Safety, p. 10

52201-212	1330GMS	110	\$1858.97
52201-214	1330FMS	110	2575.69
52201-216	1350FMS	110	2855.65

VWR Signature High Performance Clean Room, p. 11

52201-710	1602	208/230	\$8358.77
52201-721	1601	208/230	4787.41

Cat. No.	Model	Voltage	Price	Cat. No.	For Model	Price
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VWR Signature Depyrogenation, p. 12

13309-458	1365	220	\$4665.19
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VWR Signature Asphalt/Corrosive, p. 13

52202-580	1330GZZ	110	\$1321.44
52202-582	1350GZZ	110	1847.78
52202-584	1370GZZ	110	2076.24
52202-590	1330FZZ	110	1856.73
52202-592	1350FZZ	110	2316.60
52202-594	1370FZZ	110	3266.64

VWR Signature Vacuum, p. 14

52201-515	1410M	120	\$3616.71
52201-516	1410M-2	220	3616.71
52201-548	1430M	120	4402.63
52201-549	1430M-2	220	4402.63
52201-650	1450M	120	8351.93
52201-651	1450M-2	220	8351.93

VWR Signature Model 1495D Vacuum, p. 15

15001-112	1495D	240	\$22,500.00
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VWRbrand Vacuum, p. 16

52201-218	1400E	120	\$1002.28
52201-219	1400E-2	220	1002.28
52201-504	1410	120	1410.12
52201-505	1410-2	220	1410.12
52201-559	1430	120	3116.58
52201-558	1430-2	220	3116.58

VWR Signature Safety Vacuum, p. 17

52201-481	1410MS	120	\$4818.25
52201-551	1430MS	120	5929.41
52201-656	1450MS	120	9695.76

VWRbrand Safety Vacuum, p. 17

52201-490	1410S	120	\$2413.92
52201-479	1430S	120	4215.66

Cat. No.	For Model	Price
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Accessories

Floor Stands

52201-730	1601	\$1440.00
52201-755	1602, 1670	828.60

Power Exhaust, 110V

52201-344	1330-1370	\$390.00
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Power Exhaust, 220V

52202-530	1600 Series, 1380FM, 1390FM	\$390.00
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Chart Recorder Bracket

52202-576	-	\$44.00
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Glass Viewing Doors

52201-153	1330GM/FM	\$368.00
52201-162	1350GM/FM	412.00
52201-173	1370GM/FM	385.00
52201-774	1601	868.00
52201-785	1602, 1670	494.00
52202-096	1675	647.00
52202-223	1680	605.00
52202-290	1685	811.25
52202-562	1690	853.00

Replacement Thermometer

52201-592	1410, 1430	\$40.00
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Replacement Filters

52201-741	1601	\$1801.80
52202-578	1365	37.50

Silicone Gaskets (Red)

52201-606	1400E, 1410, 1410M	\$68.00
52201-581	1430, 1430M	82.00
35823-398	1450M	105.00

Hi-Temp Silicone Gasket (Grey)

52201-538	1400E, 1410, 1410M	\$70.00
35912-020	1430, 1430M	80.00
52201-684	1450M	105.00

Buna-N Gaskets (Black)

52201-628	1400E, 1410, 1410M	\$82.00
52201-570	1430, 1430M	82.00
52201-672	1450M	77.00

Viton-B Gaskets (Brown)

52201-617	1400E, 1410, 1410M	\$150.00
52201-639	1430, 1430M	165.00
52201-640	1450M	215.00

Shelves

52201-763	1601	\$76.90
52201-722	1602, 1670	82.00
52202-075	1675	82.00
52202-077	1680	82.00
14004-308	1685	82.00
52202-531	1690	82.00
35823-393	1330 Series	46.00
52200-333	1350 Series	46.00
52200-331	1370 Series	46.00
52202-540	1380FM	82.00
52202-540	1390FM	82.00
52200-331	1365	46.00
52200-902	1310, 1300U	46.00
52200-900	1321, 1320, 1305U	46.00
14004-306	1324, 1325F	46.00
14004-304	1326, 1327F	46.00
52201-538	1400E, 1410 Series	46.00
52201-561	1430 Series	46.00
52201-662	1450M	54.00

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