

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	40°C 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	40°C 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	40°C 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	40°C 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	40°C 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	40°C 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,	40°C 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	40°C 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.