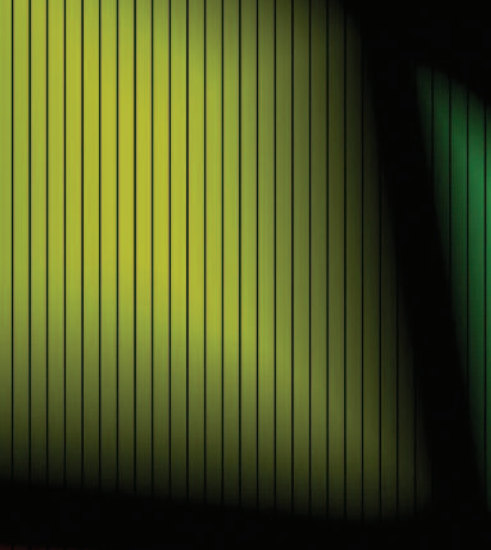




Thermo Scientific Precision Ovens

Performance, quality and value for sample heating and drying



Global Leadership in Quality and Reliability

For more than 50 years, Thermo Scientific products have been trusted by the world's leading biotechnology, pharmaceutical, academic, industrial and clinical laboratories. Our solutions deliver the performance, quality and reliability required by researchers and clinicians worldwide.



Thermo Scientific Precision High-Performance Ovens

Precise Temperature Stability and Recovery

Our Precision high-performance ovens are built for drying applications requiring high temperatures, ultra-precise temperature stability and reproducibility with a very broad temperature range of ambient +15°C to 325°C.



Three Sizes

- 1.4 cu. ft. (39 L) holds seven adjustable shelves (two included*)
 - 4.0 cu. ft. (113 L) holds 11 adjustable shelves (two included*)
 - 9.5 cu. ft. (269 L) holds 12 adjustable shelves (two included*)
- (*Additional shelves are sold separately)

Excellent Temperature Stability and Uniformity

High-quality construction and high-efficiency insulation provide temperature uniformity as precise as $\pm 0.5^\circ\text{C}$ with excellent stability in the face of frequent air exchange.

Mechanical Convection for Precise Heating

Mechanical convection provides uniform heating, precise temperature control and fast drying using a blower that circulates heated air in a horizontal airflow pattern.

Precise Temperature Sensitivity

Highly responsive RTD sensor provides temperature sensitivity of $\pm 0.1^\circ\text{C}$ or better.

High efficiency insulation ensures uniformity $\pm 0.5^\circ\text{C}$ at 100°C and $\pm 2.5^\circ\text{C}$ at 300°C .

Turbo blowers for efficient drying are side mounted within the stainless steel chamber.

Conforms to Industry Standards

Complies with ASTM E145 Type IIA, ASTM D-2436, and UL 746B performance/uniformity standards.

Advanced Microprocessor PID Controls

Intuitive microprocessor PID controls deliver detailed information on current temperature set-points.

Over-Temperature Protection

Built-in 12-hour mechanical timer along with user-adjustable safety thermostat allows for power cut-out in case of over-temperature.

Energy-Efficient Design

High-limit safety with built-in circuit breaker protects the oven from power surges. A fiberglass door gasket prevents heat loss and low-density heating elements ensure long life.

Easy Cleaning

Stainless steel interior with a solid chamber floor ensures easy cleaning. All non-tip shelves can be quickly and easily dismantled for thorough cleaning.

Two Specialty Units

Model 605P: Extra baffle provides low air flow for precise drying and testing of materials with minimal disruption of volatile components.

Model 625S: Features a rear blowout panel with retaining cage and positive action front-door catches for volatile material testing.

Precision High Performance Ovens • Specifications and Ordering Information

Models	605	605P	625	625S	645
Chamber Volume	1.4 cu. ft. / 39 L	1.4 cu. ft. / 39 L	4.0 cu. ft. / 113 L	4.0 cu. ft. / 113 L	9.5 cu. ft. / 269 L
Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Temperature Display	Two lines, 4-digit LED	Two lines, 4-digit LED	Two lines, 4-digit LED	Two lines, 4-digit LED	Two lines, 4-digit LED
Temperature Range	Amb. +15 °C to 325°C	Amb. +15 °C to 325°C	Amb. +15 °C to 325°C	Amb. +15 °C to 325°C	Amb. +15 °C to 325°C
Uniformity at 100 °C	±0.5°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Uniformity at 200 °C	±1.0°C	±1.0°C	±0.9°C	±0.9°C	±1.0°C
Uniformity at 300 °C	±2.5°C	±2.5°C	±2.2°C	±2.2°C	±2.1°C
Sensitivity	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Heat-up Time to 325 °C	60 minutes	60 minutes	50 minutes	50 minutes	45 minutes
Recovery Time ¹	2.5 minutes	2.5 minutes	4 minutes	4 minutes	4 minutes
Air Changes (Max)	128/hour	128/hour	195/hour	195/hour	155/hour
Dimensions (W x H x D)					
Chamber	14 x 13 x 13 in. (35.6 x 33 x 33 cm)	14 x 13 x 13 in. (35.6 x 33 x 33 cm)	19 x 19 x 19 in. (48.3 x 48.3 x 48.3 cm)	19 x 19 x 19 in. (48.3 x 48.3 x 48.3 cm)	36 x 24 x 19 in. (91.4 x 61 x 48.3 cm)
Exterior	38.5 x 25 x 24 in. (97.8 x 63.5 x 61 cm)	38.5 x 25 x 24 in. (97.8 x 63.5 x 61 cm)	45 x 29 x 28 in. (114.3 x 73.7 x 71.1 cm)	45 x 29 x 32 in. (114.3 x 73.7 x 83.8 cm)	65 x 36 x 31 in. (165.1 x 91.4 x 78.7 cm)
Electrical Specs (50 / 60Hz)					
115V	2500 Watts / 20.8 Amps	2500 Watts / 20.8 Amps	—	—	—
208 / 230V	2500 Watts / 10.9 Amps	2500 Watts / 10.9 Amps	3700 Watts / 16.1 Amps	3700 Watts / 16.1 Amps	4800 Watts / 20.9 Amps
Max. BTU/Hr	8538	8538	12,636	12,636	16,393
Shelves *	2 supplied, 7 max	2 supplied, 7 max	2 supplied, 11 max	2 supplied, 11 max	2 supplied, 12 max
Net Weight	230 lbs. (104.3 kg)	230 lbs. (104.3 kg)	252 lbs. (114.3 kg)	292 lbs. (132.5 kg)	415 lbs. (188.2 kg)
Catalog Number					
115V	6050	6050	—	—	—
208 / 230V ³	6051	6053	6054	6055	6056

¹ At 200 °C with 30-second door opening.

² Spacing between shelves is 1.6 in. (40 mm).

³ 50/60Hz

12 months warranty (parts and labor)

All models are UL listed.

Models require hardwired installation by a qualified technician.

* Additional shelves, clips included	Catalog Number
Model 605/605P	3166188
Model 625/625S	3166179
Model 645	3166180