

# TFO Series Forced Air Ovens

**CASCADE™**  
**TEK**



**TFO-1 • TFO-3 • TFO-5**  
**TFO-1-2 • TFO-3-2 • TFO-5-2**



## Ideal for Industrial, Analytical and General Laboratory Applications

Cascade TEK forced air ovens are recommended for critical scientific research, analytical, and laboratory use. These oven are also suitable for use on the production floor and beyond. Typical applications include aging, curing, drying, baking, pre-heating, conditioning and life cycle testing. Choose from three cabinet sizes, each with forced-air circulation and reserve heating power for quick recovery after door openings.

## TFO Ovens Features and Benefits

The TFO Series ovens are engineered for safe, accurate, and uniform performance in demanding laboratory environments.



**TFO-5**

- + Fast ramp-up to 306°C for faster cycle times.
- + Temperature range approximately 20°C above ambient to 306°C for multiple applications.
- 1 Watlow EZ-Zone programmable controller with ramp and soak capabilities.
- 2 Integrated Over Temperature Limit with digital set-point (OTL) to provide additional temp limit control.
- 3 Stainless steel interior construction for long life operation, easy cleaning.
- 4 Forced-air circulation to assure maximum temperature uniformity.
- 5 Triple-wall construction to minimize external surface temperature.
- 6 Stainless steel shelves are adjustable on 0.5" (12.7mm) centers to provide flexible inventory options.
- 7 Rear access port, 1.75" diameter (44mm) for independent cables, instrumentation.
- 8 Intake and Exhaust Damper, 3.0" diameter (76 mm), adjustable, with external connection to customer-supplied vent for effluent exhaust if required.
- + Internationally certified CAN/CSA, UL, EN, IEC 61010, and compliant with CE.

**MADE IN  
USA**



# Applications:

- Aging
- Asphalt Testing
- ASTM, UL, and Life Testing
- Baking, Conditioning, Curing
- Burn-in
- Drying
- Moisture and Stability Testing

## High Temperature Performance

Cascade TEK forced air ovens are available in 110-120V, 50/60Hz or 220-240V, 50/60Hz configurations and achieve temperatures up to 306°C with fast ramp-up and recovery times.

**Heat-Up** Rapid heat-up times to 306°C get your product to temperature faster than ever.

**Recovery** After a standard door opening the TFO family has rapid recovery times to setpoint. Optimized air flow and heating elements allow your product to return to temperature setpoint in the shortest time yet.



## TFO Oven Part ID's

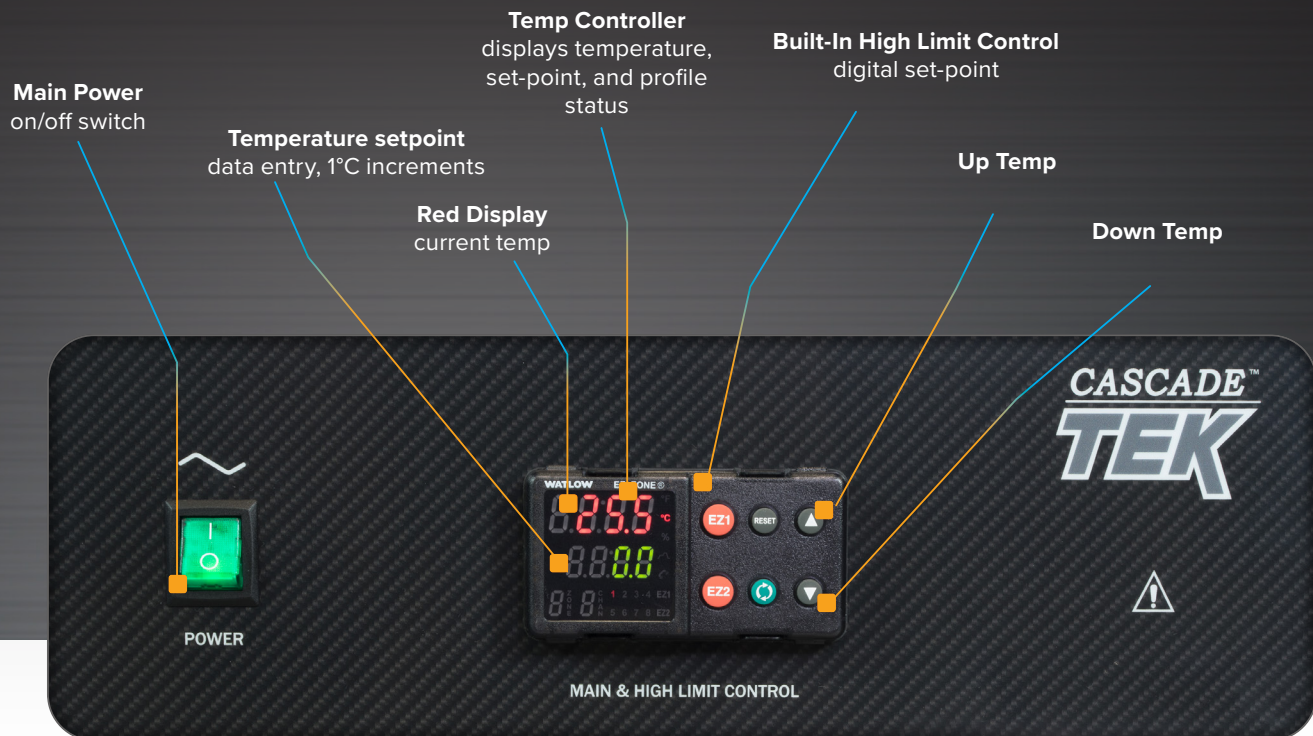
	TFO-1	TFO-3	TFO-5
110-120 Volt	CTF122	CTF322	CTF522
220-240 Volt	CTF122-EA	CTF322-EA	CT522-EA

## Control, Timer Program, and Monitoring

The Watlow EZ-Zone PID (proportional, integral, derivative) controller commands proportional power to the heating elements to provide the most accurate and responsive control. The control parameters are matched to the oven size to assure faster response to setpoint without overshoot, and quicker recovery following door openings. The Watlow EZ-Zone supports custom recipe creation. Each recipe can support full ramp and soak control for custom applications. A total of 4 recipes with up to 40 steps can be used to configure the oven to your process.

## Integrated Watlow Control Panel

All controls are centrally located on the main panel including manual power, Watlow EZ-Zone controller with integrated over-temperature limit and recipe control.



## TFO Oven Specification Chart

	TFO-1	TFO-3	TFO-5
Interior Volume, Nominal	1.4 cu.ft. (39.4 liters)	3 cu.ft. (85.0 liters)	4.9 cu.ft. (138.0 liters)
Interior Dimensions W x D x H	12.1" x 13.7" x 14.5" 307 x 349 x 368 mm	16.5" x 19.5" x 16.2" 419 x 495 x 412 mm	21.0" x 19.4" x 20.7" 533 x 494 x 527 mm
Exterior Dimensions W x D x H	22.7" x 23.5" x 31.5" 577 x 596 x 800 mm	26.9" x 28.6" x 34.0" 684 x 727 x 840 mm	31.4" x 28.1" x 38.8" 798 x 714 x 986 mm

\*Extra standard and reinforced shelves available. See Accessories.

\*Units can be ordered in 230V designations by adding "-2" to the part numbers. TFO-1-2, TFO-3-2, TFO-5-2



## Customization Options

Cascade TEK offers a variety of customization options for any application. With our impressive team of experts, Cascade TEK builds solutions to any problem.

Forced air ovens provide the ultimate drying experience. Cascade TEK's forced air ovens are made in the USA.

- Electronically data-log your drying process
- Programmable temperature control & digital overtemp protection
- Additional access ports for feed through and power connections



Ask about reinforced shelves, chart recorders, calibrations, or any other option you require.

Cascade TEK products are built to your process!

**Ready to Get Started? Contact the Cascade TEK Team Today!**

☎ +1-971-371-4096 ✉ [sales@cascadetek.com](mailto:sales@cascadetek.com) 🌐 [cascadetek.com](http://cascadetek.com)

## TFO Series

Cascade TEK's TFO Series comes in variety of sizes to fit any application need.  
Visit [cascadetek.com](http://cascadetek.com) to learn more about the TFO Series!



TFO-28



TFO-10



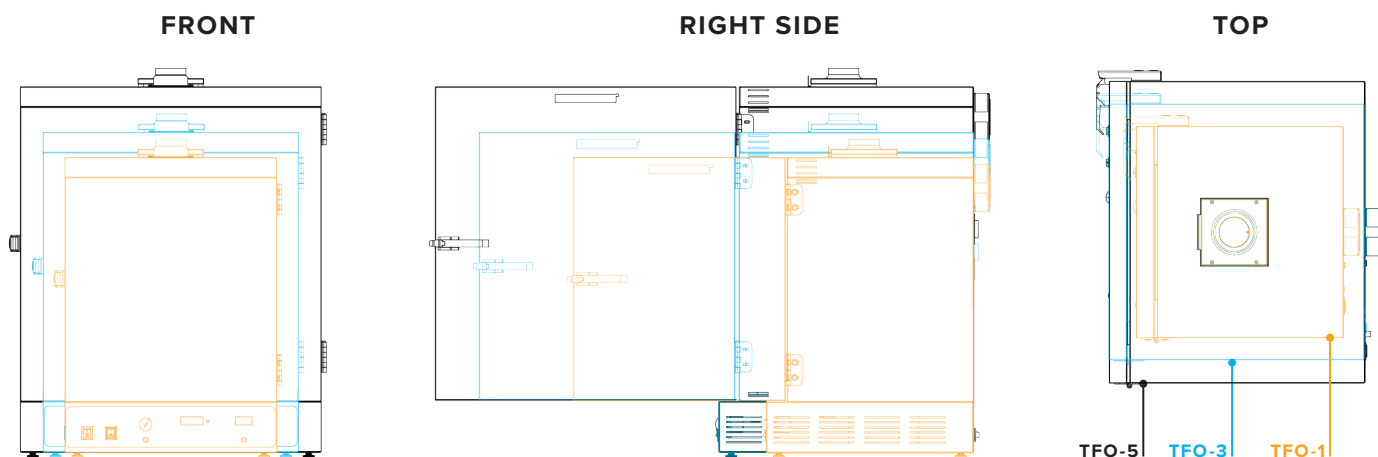
TFO-1



TFO-3



TFO-5



## TFO Oven Options and Accessories

	TFO-1	TFO-3	TFO-5
Reverse Door	907-952-0016	907-952-0017	907-952-0018
3" Rear Access Port Upgrade	907-958-0001	907-958-0002	907-958-0003
Caster Platform	N/A	9000597	9000594
Chart Recorder (Single Pen)	6900535	6900535	6900535
Chart Recorder (Dual Pen)	6900008	6900008	6900008
Chart Recorder (Honeywell 3-Channel Paperless)	6900531	6900531	6900531
Extra Shelf, Standard, Max. Weight 50 lbs (22kg); Includes Brackets	9751227	9751228	9751229
Extra Shelf, Reinforced, Max. Weight 75 lbs (34kg); Includes Brackets	907-975-0001	907-975-0002	907-975-0003
485-USB Converter Communication Cable	9900764	9900764	9900764
Calibration of Single Component (NIST Traceable)	9990840	9990840	9990840

Options must be specified when ordering. Contact Cascade TEK for additional custom inquiries.





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