

# TFO Series

## Forced Air Ovens

**CASCADE™**  
**TEK**



**TFO-10 • TFO-28**

## 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





## Ideal for Industrial, Analytical, and General Laboratory Applications

Cascade TEK forced air ovens are recommended for critical scientific research, analytical, and laboratory use. These ovens 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 two cabinet sizes, each with forced-air circulation and reserve heating power for quick recovery after door openings.

### TFO Ovens Features and Benefits

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



**TFO-28**

- +** Fast ramp-up to 306°C for faster cycle times.
- +** Temperature range approximately 15°C above ambient to 306°C for multiple applications.
- 1** Watlow Controller programmable control 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" (12.7 mm) centers to provide flexible inventory options.
- 7** Rear access port, 3.0" diameter (76 mm) for independent cables, instrumentation.
- 8** Intake and exhaust ports, 3.0" diameter (76 mm), adjustable, with external connections 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:

## High Temperature Performance

Cascade TEK forced air ovens are available in 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.

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



TFO-28

Intake Damper

Exhaust Damper



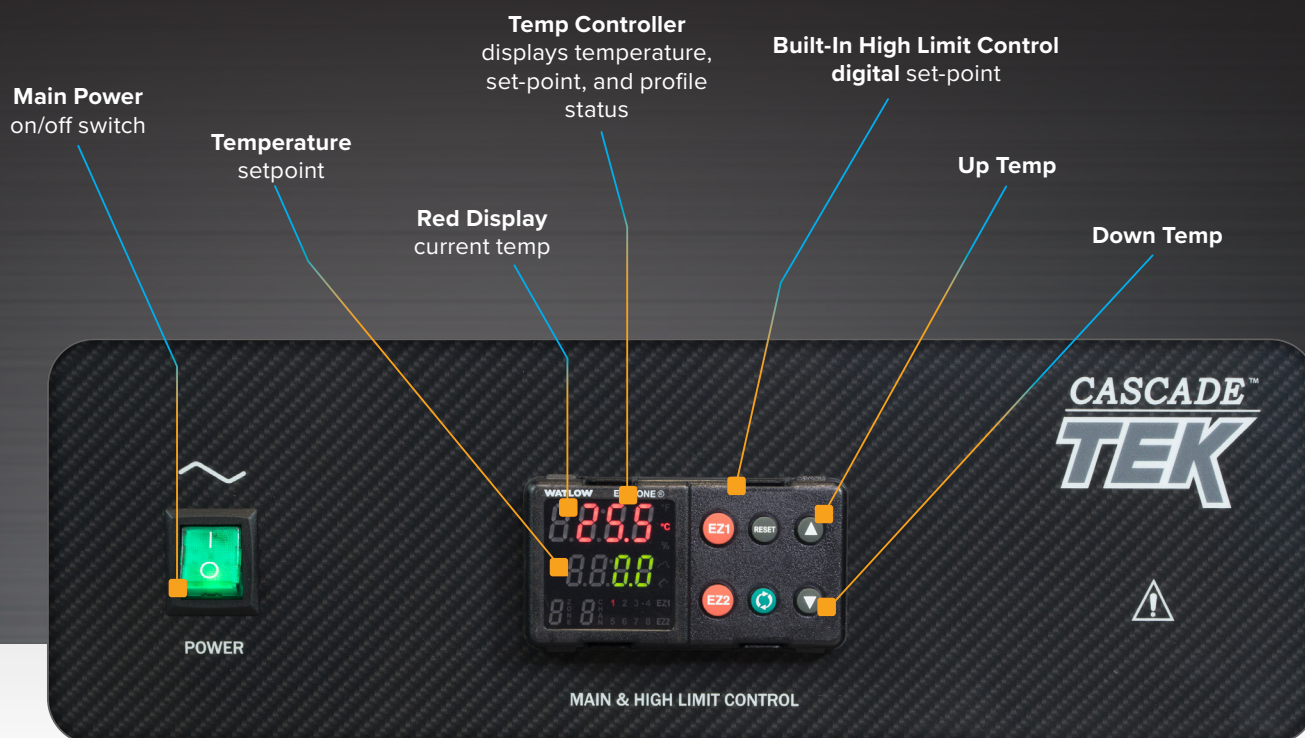
TFO-10

## 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 enable 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-10	TFO-28
Part ID	CTF1022-H	CTF2822-H
Interior Volume, Nominal	10 cu.ft. (283 liters)	28 cu.ft. (792 liters)
Interior Dimensions W x D x H	29.8" x 20.6" x 30.0" 757 x 524 x 762 mm	31.7" x 26.0" x 60.9" 805 x 660 x 1546 mm
Exterior Dimensions W x D x H	44.1" x 29.9" x 56.8" 1121 x 760 x 1442 mm	42.5" x 34.1" x 85.9" 1080 x 866 x 2182 mm

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



## TFO Forced Air Oven Options

	TFO-10	TFO-28
Calibration of Single Component (NIST Traceable)	9990840	9990840
Chart Recorder (Single Pen)	6900535	6900535
485-USB Converter Communication Cable	9900764	9900764
Chart Recorder (Honeywell 3 Channel Paperless)	6900531	6900531
Power Exhaust, installed	9990741	9990741
Additional 2.75" Access Port, Sliding Damper (location TBD)	9990024	9990024
Base Cabinet Stand with doors (Factory Installed)	9751264	-
Casters, Two Swivel Wheels, With Two Fixed Installed	-	9990872
Stainless Steel Shelf with Clips	995-00007	999-00005

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

Cascade TEK TFO ovens are tested for use within an ambient air pressure range of 22.14 – 31.3 inHg (75 – 106 kPa), with no flammable, volatile or combustible materials being heated. Specifications subject to change without notice. Cascade TEK Made in US 6/22 PN: 0740604



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