

◆ TFD Class A Walk-In Ovens and Truck-In Ovens

For applications involving flammable solvents or excessive solvent removal



Despatch TFD Class A ovens are specifically designed to meet NFPA 86 requirements for applications that include flammable solvents or large amounts of moisture removal. The oven comes complete with a pressure relief panel, purge timer, and exhaust fan.

TFD Truck-in/Walk-in ovens feature horizontal recirculating airflow to ensure uniform temperatures throughout the oven. A high-volume fan circulates air through perforated, aluminized steel walls to create a constant horizontal airflow across all sections of the oven. The result is proven reliability in demanding production applications, such as aging, bonding, curing, drying, finish baking and heat treating. Standard digital controls to regulate temperatures within tight tolerances and provides high limit protection. For more advanced control choose the optional Protocol 3™ microprocessor-based temperature and hi-limit controller.

FEATURES AT A GLANCE

- ◆ Temperatures up to 343°C (650°F)
- ◆ Class A package meeting NFPA 86 requirements for flammable solvents
- ◆ Fully assembled and factory tested
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- ◆ High limit over-temperature protection
- ◆ Audible high-limit alarm
- ◆ Two-inch test access port
- ◆ Aluminized steel interior
- ◆ Disconnect switch
- ◆ High volume recirculating fan provides faster, more uniform heating - saving process time and improving product quality
- ◆ Plate floor with truck tracks
- ◆ UL and C-UL listed open industrial control panel

OPTIONS

- ◆ Protocol 3™ control with integrated data logging capabilities and USB port for simple oven set-up and data export
- ◆ Insulated floor with truck tracks
- ◆ Despatch unique adjustable louvers
- ◆ Loading trucks and shelves
- ◆ Proportioning gas fired heater
- ◆ Chart recorder
- ◆ Rear doors
- ◆ CE compliant



Shown with optional Protocol 3 controller

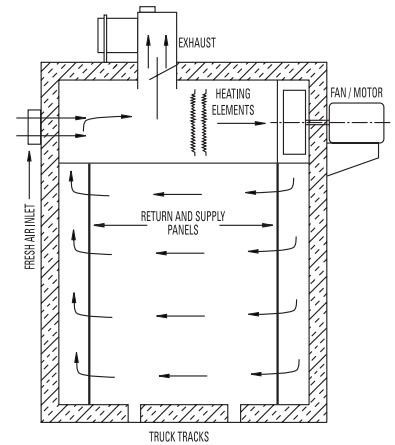
TFD	2-52	3-10	3-21
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PHYSICAL SPECIFICATIONS			
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Chamber size (width x depth x height)	38 x 38 x 63 in. 96 x 96 x 160 cm	48 x 52 x 72 in. 122 x 132 x 183 cm	72 x 72 x 72 in. 183 x 183 x 183 cm
Capacity in cubic feet (liters)	52.6 (1490)	104 (2945)	216 (6116)
Overall size (width x depth x height)	83.5 x 48.5 x 103 in. 212 x 123 x 262 cm	100.5x62.5x102 in. 255 x 159 x 259 cm	126.5x85.5x102 in. 321 x 217 x 259 cm
Electrical: 480 volt, 60 hertz - 3 phase (FLA- approx. full load amps) (50 hertz also available)	48 FLA / 36 kW	66 FLA / 48 kW	103 FLA / 72 kW
Exhaust outlet	3.5 x 8.5 in. (8.9 x 21.6 cm)	3.5 x 8.5 in. (8.9 x 21.6 cm)	5 x 13.5 in. (12.7 x 34.3 cm)
Doors	1	2	2
Insulation thickness	Walls: 5 in. (12.7 cm) Insulated floor option: 3 in. (7.6 cm) for all models		
Truck centers	24 in. (61 cm)	32 in. (81.3 cm)	48 in. (122 cm)
Approximate net weight	1900 lbs (862 kg)	3070 lbs (1393 kg)	5200 lbs (2359 kg)
Approximate domestic shipping weight (export adds weight)	2100 lbs (953 kg)	3270 lbs (1483 kg)	5450 lbs (2472 kg)

FUNCTIONAL SPECIFICATIONS			
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Time to temp with no load 40° C to 177° C (104° F to 350° F)	15 minutes	15 minutes	15 minutes
Time to temp with no load 40° C to 260° C (104° F to 500° F)	30 minutes	30 minutes	30 minutes
Time to temp with no load 40° C to 343° C (104° F to 650° F)	50 minutes	50 minutes	50 minutes
Temperature uniformity at set point	+/- 1.5% after stabilization		
Minimum operating temp	34° C (93° F)	34° C (93° F)	34° C (93° F)
Maximum operating Temperature	343° C (650° F)		
Exhaust capacity (minimum/maximum)	143/350 CFM (67/165 l/s)	238/350 CFM (112/165 l/s)	315/1000 CFM (149/472 l/s)
Solvent handling capacity at 204° C (400° F) MEK	.15 GPH (.57 l/h)	.25 GPH (.95 l/h)	.33 GPH (1.25 l/h)
Forced exhaust HP	1/3 HP	1/3 HP	2 HP
Recirculating fan	2 HP / 1700 CFM (802 l/s)	5 HP / 3800 CFM (1793 l/s)	10 HP / 6000 CFM (2832 l/s)
Control stability	+/- 0.5° C on all models		



TFD front view cross section showing airflow pattern.

Notes: Design uniformity figures are based on a nine-point test conducted in an empty oven after stabilization period. Minimum operating temperature and cooling times are based on 20° C ambient temperature measured at the fresh air inlet. Specifications are subject to change without notice. If the existing specifications differ from yours, ask about our customizing capabilities.

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