



TFD

LIGHT INDUSTRIAL



The TFD is typically used over medium sized dock doors, or openings in an industrial environment. Available in unheated, hot water heated, steam heated, indirect gas fired (closed combustion heaters are available), and direct gas fired versions.

OPTIONS

HEATING

Electrical.	pg 143
Hot Water.	pg 147
Steam.	pg 147
Indirect Gas.	pg 149

FILTER

1" Cleanable (Unheated, Hot Water and Steam Units)



AT A GLANCE

Single Incremental Widths

3' to 14'

Max Installation Height

14'

Heavy Duty Motors

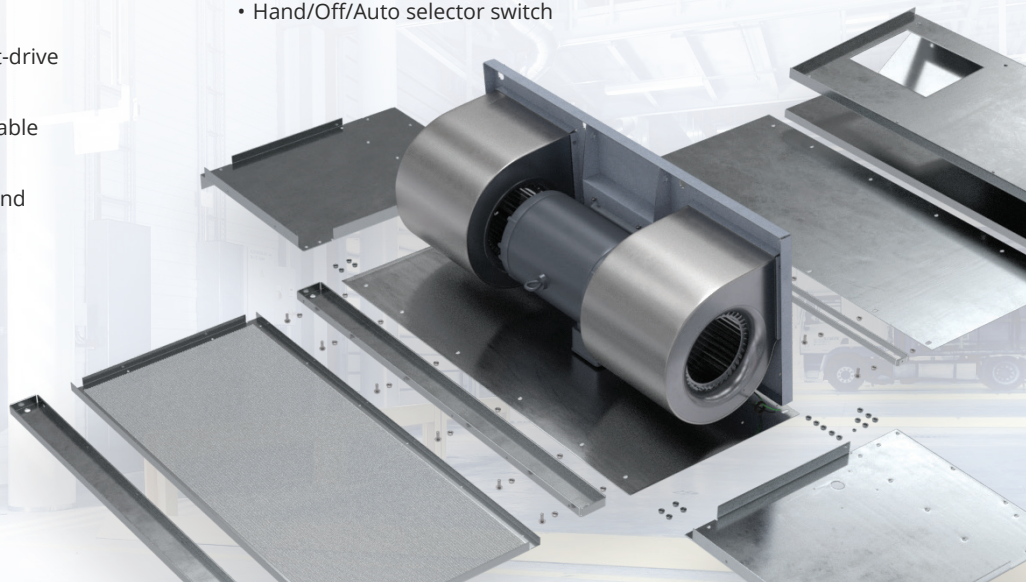
1.5 HP

KEY DESIGN FEATURES

- AMCA tested performance
- Outer cabinet constructed of 18-gauge 304 stainless steel with #3 finish
- 1.5 HP TEAO (Totally Enclosed Air Over) direct-drive single-speed motor(s)
- High-efficiency discharge plenum with adjustable air foil vane (+/-20°)
- Top and bottom access panels for servicing and removal of motor-blower assembly
- NEMA 12 control panel

RECOMMENDED CONTROLS

- Activation by 24V magnetic door switch
- Toggle disconnect switch
- Hand/Off/Auto selector switch





► TFD-IG | PERFORMANCE

TFD-IG | Performance Table

Model	Nozzle Width (in.)	Max. FPM at Nozzle	Avg. Outlet Velocity FPM	CFM at Nozzle	Outlet Velocity Uniformity	Power Rating (kW)	Number of Motors	Motor HP	Sound Pressure & Sound Power (dBA)*	Number of Heaters	Input mbtu/hr per Heater	Output Total mbtu/hr	Temp. Rise (°F)	Weight (lbs.)
TFD-1-36IG	36	4500	3108	2331	92.0%	1.2	1	1.5	73	1	100	80	32	279
TFD-1-48IG	48	4500	3565	2565	94.0%	1.3	1	1.5	76	1	100	80	29	330
TFD-1-60IG	60	4500	2146	2682	73.0%	1.3	1	1.5	69	1	100	80	28	408
TFD-2-72IG	72	4500	3108	4662	92.0%	2.4	2	1.5	76	1	200	160	32	605
TFD-2-84IG	84	4500	2798	4896	92.0%	2.6	2	1.5	79	1	200	160	20	647
TFD-2-96IG	96	4500	2565	5130	94.0%	2.6	2	1.5	79	1	200	160	29	698
TFD-2-108IG	108	4500	2332	5247	73.0%	2.6	2	1.5	79	1	200	160	28	748
TFD-3-108IG	108	4500	3108	6993	92.0%	3.6	3	1.5	77	2	150	240	32	813
TFD-3-120IG	120	4500	2891	7227	92.0%	3.7	3	1.5	80	2	150	240	31	825
TFD-3-132IG	132	4500	2713	7461	92.0%	3.8	3	1.5	80	2	150	240	30	1048
TFD-4-144IG	144	4500	3108	9324	92.0%	4.8	4	1.5	79	2	200	320	32	1163
TFD-4-156IG	156	4500	2941	9558	92.0%	4.9	4	1.5	82	2	200	320	31	1252
TFD-4-168IG	168	4500	2798	9792	92.0%	5.0	4	1.5	82	2	200	320	30	1294

*Calculation based on spherical free field at 5 ft.



For a unit over 14 feet long, consult factory.
For Top Intake, consult factory.

TFD-IG | Three Phase Motor Options

Voltages available	120	208	240	480	575
Amp draw per motor	NA	5.0	4.6	2.6	1.9

KEY DESIGN FEATURES

- Outer cabinet constructed of 18-gauge 304 stainless steel with #3 finish
- 1.5 HP TEAO (Totally Enclosed Air Over) direct-drive single-speed motor(s)
- High-efficiency discharge plenum with adjustable air foil vane (+/-20°)
- Top and bottom access panels for servicing and removal of motor-blower assembly
- NEMA 12 control panel
- Factory mounted 18-gauge 304 stainless steel transition duct(s)
- AGA/CGA labeled gas heater(s) with power exhaust, direct spark ignition, and tubular heat exchangers
- Convertible open and closed combustion
- Natural gas or propane fuel types
- Standard single point power connection

RECOMMENDED CONTROLS

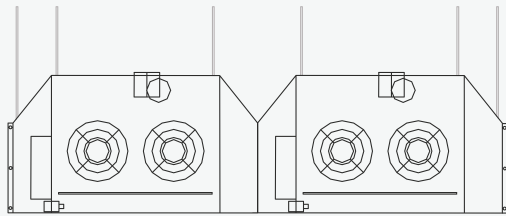
- Activation by 24V magnetic door switch
- Toggle disconnect switch
- Hand/Off/Auto selector switch
- Heat On/Off selector switch
- Digital thermostat

► TFD-IG | INSTALLATION

Unit will be suspended with threaded rods. Air curtain has two holes on each end for installing one end of threaded rods, each transition duct has two 3/8 – 16 spotnuts, and each heater has two or four 3/8 – 16 spotnuts depending on the model. The other ends of the threaded rods can be attached to the ceiling.

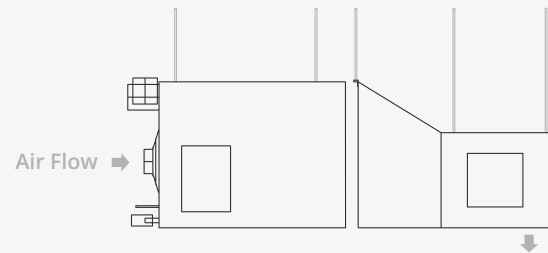
Heater is to be mounted separately, 2" from air curtain/transition assembly. Model TFD-IG requires 7/16" threaded rod. Washers and lock washers or locknuts are recommended. Mounting structure should be of sufficient strength to hold unit, and hardware (supplied by others) should be of sufficient strength and quality to support the unit safely. Additional mounting holes are provided on larger units for buildings where structural support is not adequate for supporting the air curtain from ends only.

FRONT



SIDE

Support unit heater separate from air curtain



► TFD-IG | MECHANICAL DETAILS & DRAWINGS (1 HEATER)

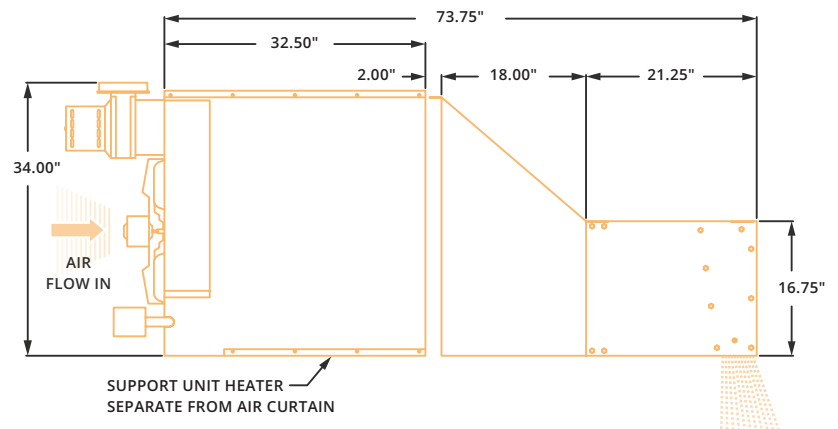
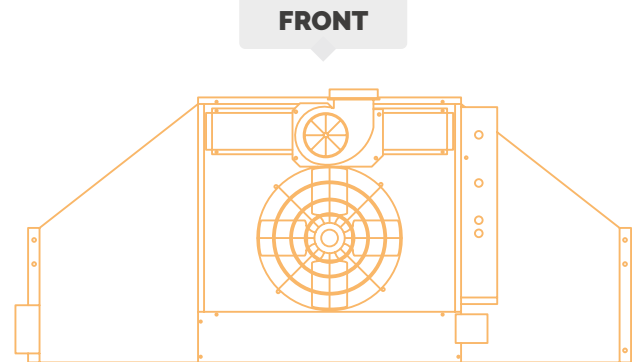
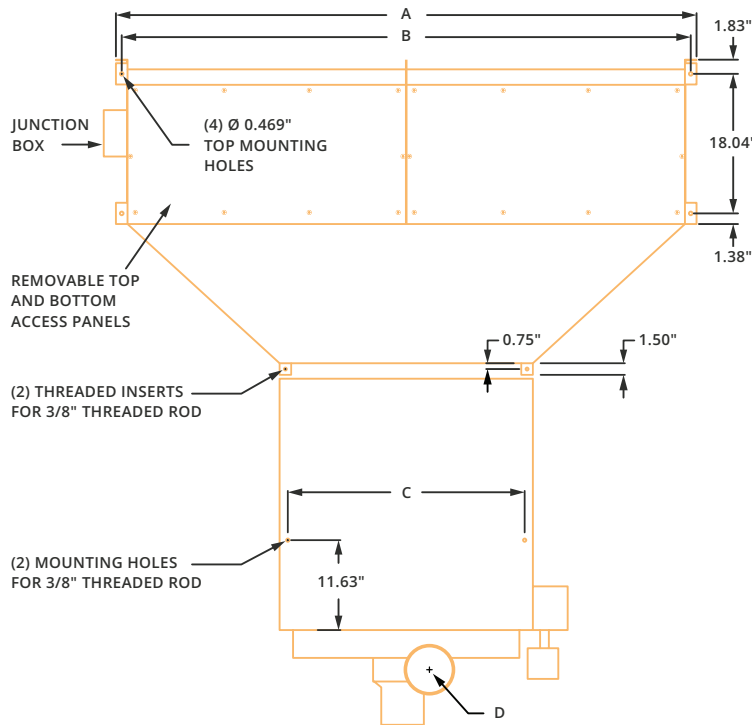
TFD-IG | 1-Heater Mechanical Information Table

MODEL	Air Curtain Width - A (in.)	Mounting Width - B (in.)	Hanging Width - C (in.)	Flue Diameter - D (in.)	Heater Size	Gas Inlet (in.)
TFD-1-36IG	39	37.5	18.63	5	150	0.5
TFD-1-48IG	51	49.5	18.63	5	150	0.5
TFD-1-60IG	63	61.5	18.63	5	150	0.5
TFD-2-72IG	75.07	73.57	48.63	6	300	0.75
TFD-2-84IG	87.07	85.57	48.63	6	300	0.75
TFD-2-96IG	99.07	97.57	48.63	6	300	0.75
TFD-2-108IG	111.07	109.57	48.63	6	300	0.75



NOTES

1. Installer responsible for structurally sound mounting of the unit.
2. Verify that overall dimensions will fit in the opening.
3. Air curtain to be installed so that the air stream is unobstructed.

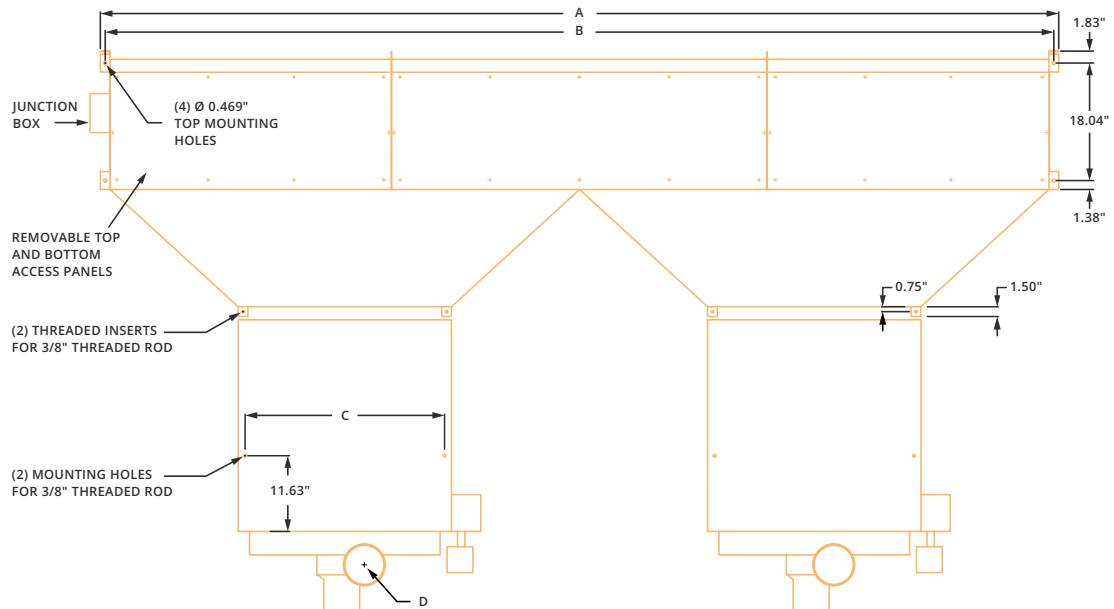


► TFD-IG | MECHANICAL DETAILS & DRAWINGS (2 HEATER)

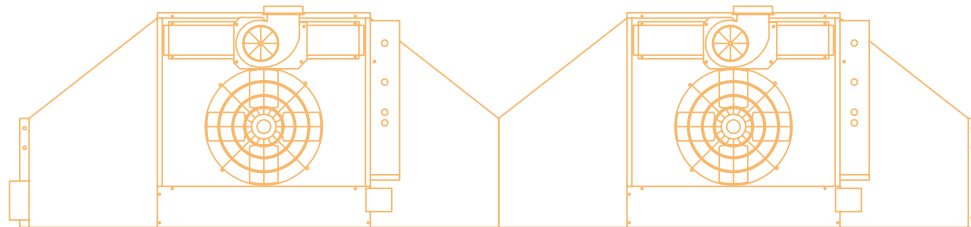
TFD-IG | 2-Heater Mechanical Information Table

MODEL	Air Curtain Width - A (in.)	Mounting Width - B (in.)	Hanging Width - C (in.)	Flue Diameter - D (in.)	Heater Size	Gas Inlet (in.)
TFD-3-108IG	111.15	109.65	30.63	5	2 × 200	0.5
TFD-3-120IG	123.15	121.65	30.63	5	2 × 200	0.5
TFD-3-132IG	135.15	133.65	30.63	5	2 × 200	0.5
TFD-4-144IG	147.22	145.72	30.63	5	2 × 250	0.75
TFD-4-156IG	159.22	157.72	30.63	5	2 × 250	0.75
TFD-4-168IG	171.22	169.72	30.63	5	2 × 250	0.75

TOP



FRONT



SIDE

