



TSD-IG

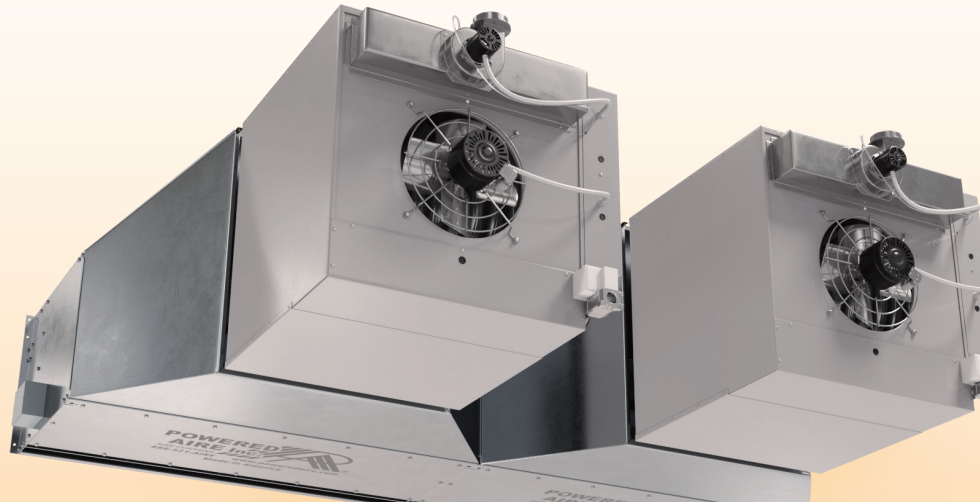
1, 2 & 3 HEATERS

The Indirect Gas Fired air curtain works like your typical home gas furnace. The flame heats a tube, the air flows over the tube and the heated air is discharged. This air curtain will provide up to a 35°F temperature rise at the threshold. Not only will this model prevent cold air from infiltrating the opening, it will help keep door hinges from freezing, keep the floor dry, help keep employees comfortable and promote safety and productivity.

OPTIONS

HEATING

Unheated	pg 153
Electric.	pg 157
Hot Water	pg 163
Steam	pg 163
Direct Gas.	pg 173



AT A GLANCE

Single Incremental Widths

4' to 20'

Max Installation Height

17'

Heavy Duty Motors

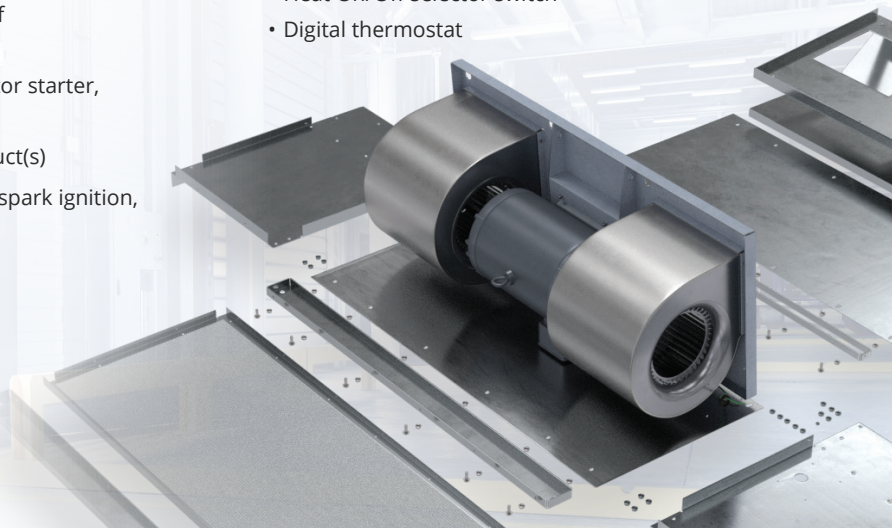
3 HP

KEY DESIGN FEATURES

- Outer cabinet constructed of 18-gauge 304 stainless steel with #3 finish
- 3 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 with factory installed magnetic motor starter, overload relays, and control transformer
- 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



► TSD-IG | PERFORMANCE

TSD-IG | Performance Table

Model	Number of Heaters	Input mbtu/hr per Heater	Total Output mbtu/hr	Temp. Rise (°F)	Weight (lbs.)
TSD-1-48IG	1	200	160	34.7	597
TSD-1-60IG	1	250	200	38.2	635
TSD-1-72IG	1	250	200	33.2	670
TSD-2-96IG	1	400	320	34.7	1191
TSD-2-108IG	1	400	320	32.5	1229
TSD-2-120IG	2	250	400	38.2	1267
TSD-2-132IG	2	250	400	35.5	1287
TSD-2-144IG	2	250	400	33.2	1337
TSD-3-144IG	2	250	400	29.0	1560
TSD-3-156IG	2	350	560	38.8	1628
TSD-3-168IG	2	350	560	37.1	1648
TSD-3-180IG	2	350	560	33.3	1686
TSD-3-192IG	2	350	560	31.8	1706
TSD-4-192IG	2	400	640	34.7	1929
TSD-3-204IG	2	400	640	37.0	1744
TSD-4-204IG	2	400	640	34.7	1967
TSD-3-216IG	2	400	640	35.4	1764
TSD-4-216IG	2	400	640	32.5	2272
TSD-4-228IG	3	350	840	41.3	2310
TSD-4-240IG	3	350	840	36.1	2330
TSD-5-240IG	3	350	840	36.5	2553



INFO

For additional **performance information** on TSD-IG, reference performance table on page 154.

TSD | Velocity Projection Model (Model TSD-1-48)

Distance From Nozzle	40 in.	80 in.	120 in.	160 in.	200 in.
Core Velocity (fpm)	3020	2060	1710	1420	1225

TSD-IG | Sound Levels

High Speed	69 dBA	Measured 10 ft. from unit in a free field based on a 1 motor unit
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TSD-IG | Amp Draw and Breaker Options

Model/Number of Motors	208V Amp Draw (Breaker size)	240V Amp Draw (Breaker size)	480V Amp Draw (Breaker size)	575V Amp Draw (Breaker size)
TSD-1-48, 60, 72				
TSD-2-96, 108, 120, 132, 144				
TSD-3-144, 156, 168, 180, 192, 204, 216				
TSD-4-192, 204, 216, 228, 240, 252				
TSD-5-240				

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

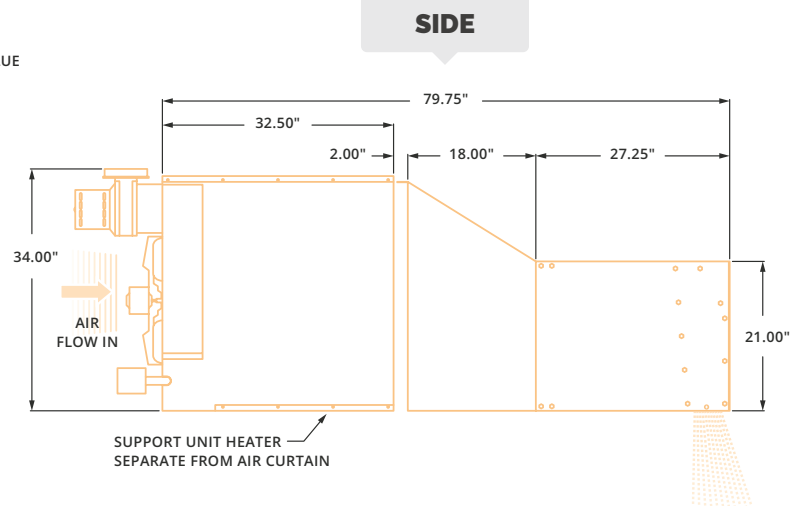
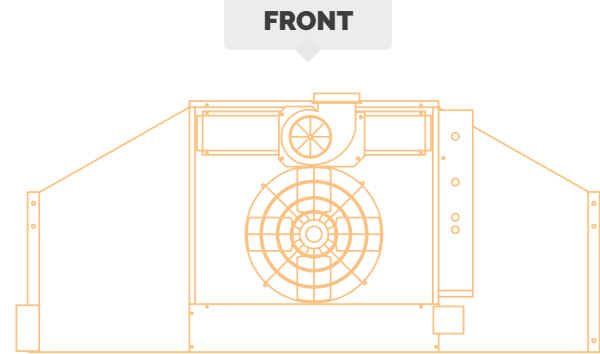
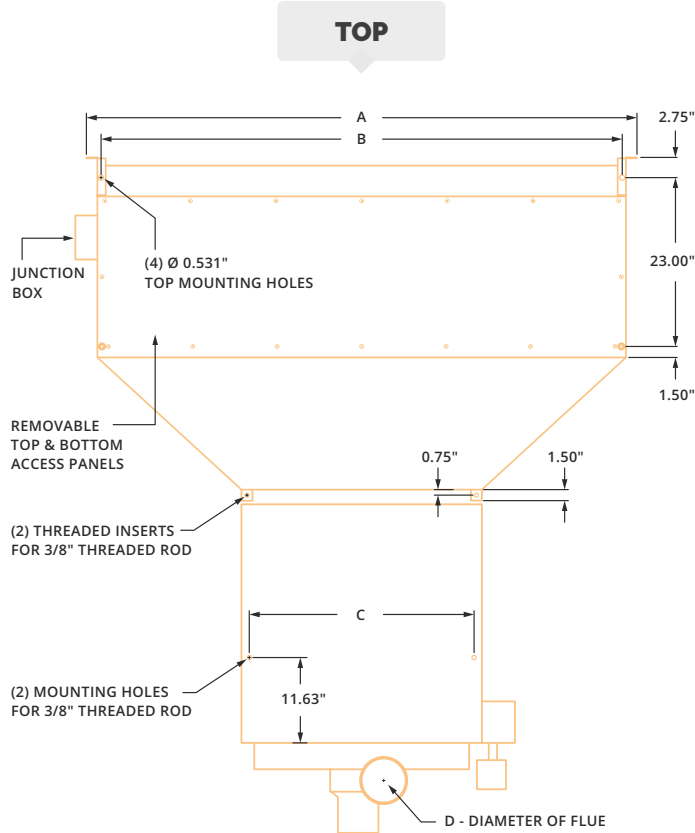
TSD-IG | 1-Heater Mechanical Information Table

MODEL	Air Curtain Width - A (in.)	Mounting Width - B (in.)	Hanging Width - C (in.)	Flue Diameter - D (in.)	Heater Size	Gas Inlet (in.)
TSD-1-48IG	51	47	30.63	5	200	0.5
TSD-1-60IG	63	59	30.63	5	250	0.75
TSD-1-72IG	75	71	30.63	5	250	0.75
TSD-2-96IG	99.13	95.13	48.63	6	400	0.75
TSD-2-108IG	111.13	107.13	48.63	6	400	0.75



NOTES

1. Verify that overall dimensions will fit in the opening.
2. Adequacy of support structure to be verified by a professional structural engineer.
3. Air curtain to be installed so that the air stream is unobstructed.



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

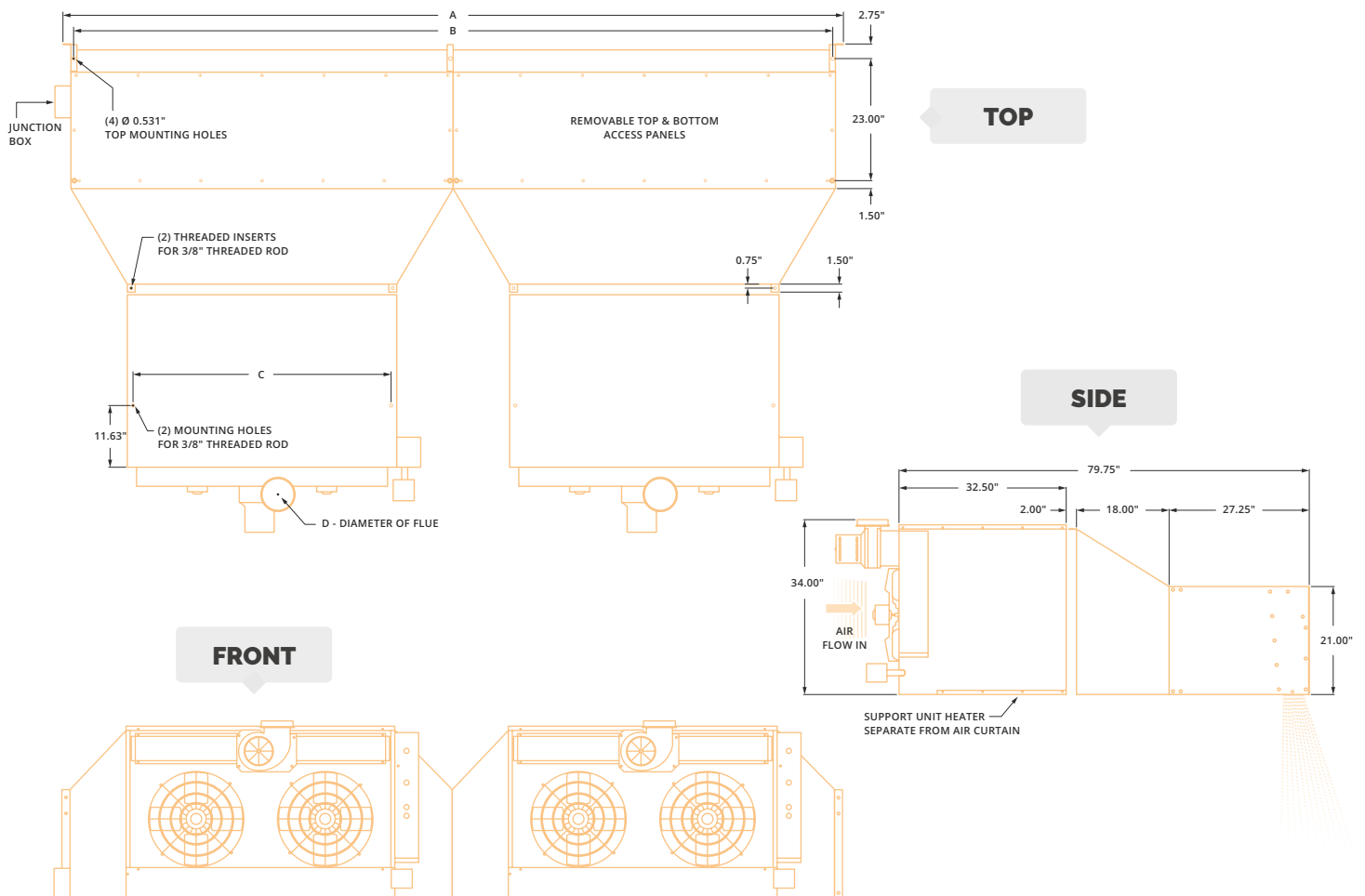
TSD-IG | 2-Heater Mechanical Information Table

MODEL	Air Curtain Width - A (in.)	Mounting Width - B (in.)	Hanging Width - C (in.)	Flue Diameter - D (in.)	Heater Size	Gas Inlet (in.)
TSD-2-120IG	123.13	119.13	30.63	5	2 × 250	0.75
TSD-2-132IG	135.13	131.13	30.63	5	2 × 250	0.75
TSD-2-144IG	147.13	143.13	30.63	5	2 × 250	0.75
TSD-3-144IG	147.25	143.25	30.63	5	2 × 250	0.75
TSD-3-156IG	159.25	155.25	48.63	6	2 × 350	0.75
TSD-3-168IG	171.25	167.25	48.63	6	2 × 350	0.75
TSD-3-180IG	183.25	179.25	48.63	6	2 × 350	0.75
TSD-3-192IG	195.25	191.25	48.63	6	2 × 350	0.75
TSD-4-192IG	195.38	191.38	48.63	6	2 × 400	0.75
TSD-3-204IG	207.25	203.25	48.63	6	2 × 400	0.75
TSD-4-204IG	207.38	203.38	48.63	6	2 × 400	0.75
TSD-3-216IG	219.25	215.25	48.63	6	2 × 400	0.75
TSD-4-216IG	219.38	215.38	48.63	6	2 × 400	0.75



NOTES

1. Verify that overall dimensions will fit in the opening.
2. Adequacy of support structure to be verified by a professional structural engineer.
3. Air curtain to be installed so that the air stream is unobstructed.



► TSD-IG | MECHANICAL DETAILS & DRAWINGS (3 HEATER)

TSD-IG | 3-Heater Mechanical Information Table

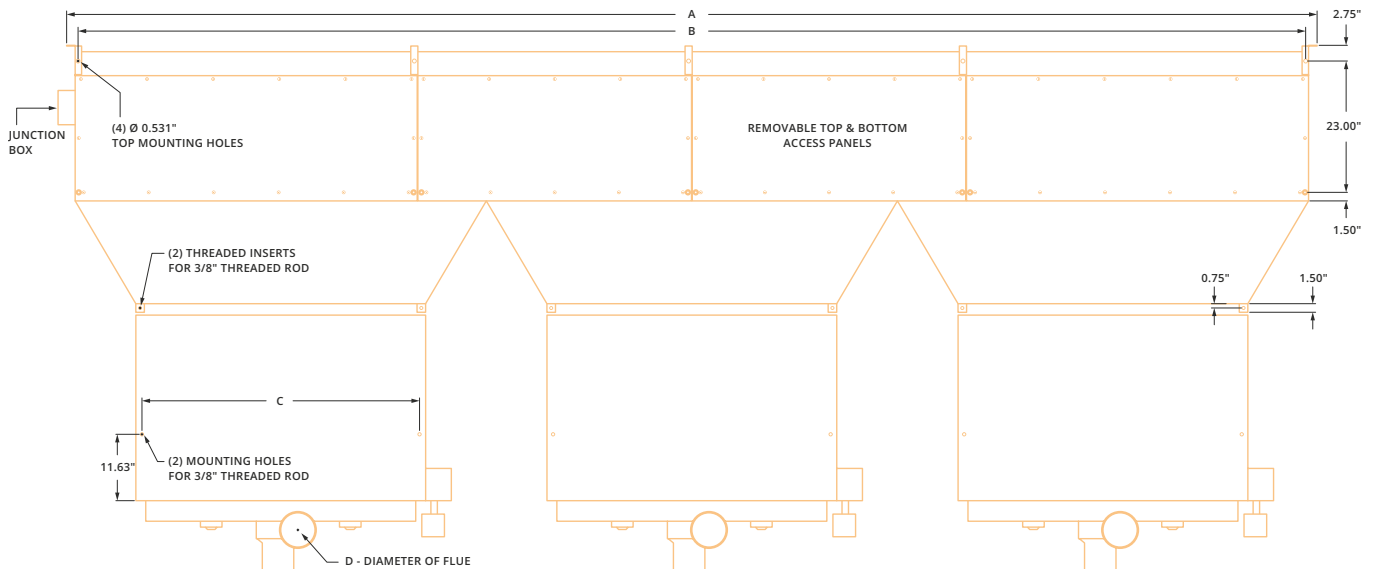
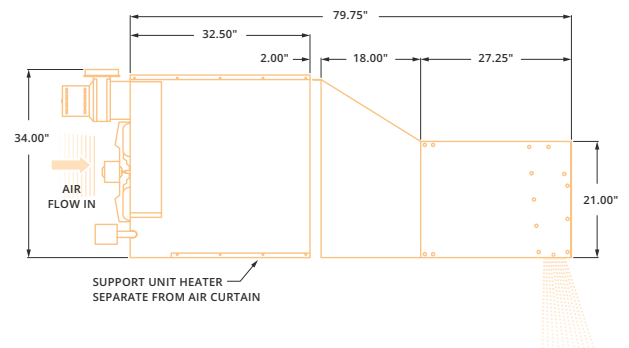
MODEL	Air Curtain Width - A (in.)	Mounting Width - B (in.)	Hanging Width - C (in.)	Flue Diameter - D (in.)	Heater Size	Gas Inlet (in.)
TSD-4-228IG	231.38	227.38	48.63	6	3 × 350	0.75
TSD-4-240IG	243.38	239.38	48.63	6	3 × 350	0.75
TSD-5-240IG	243.5	239.5	48.63	6	3 × 350	0.75



NOTES

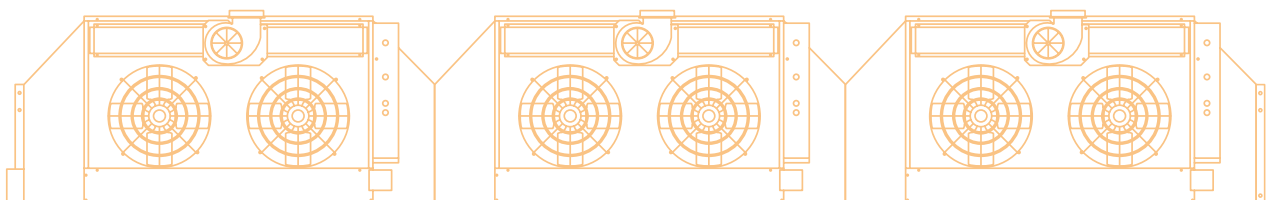
1. Verify that overall dimensions will fit in the opening.
2. Adequacy of support structure to be verified by a professional structural engineer.
3. Air curtain to be installed so that the air stream is unobstructed.

SIDE



TOP

FRONT



► TSD-IG | INSTALLATION

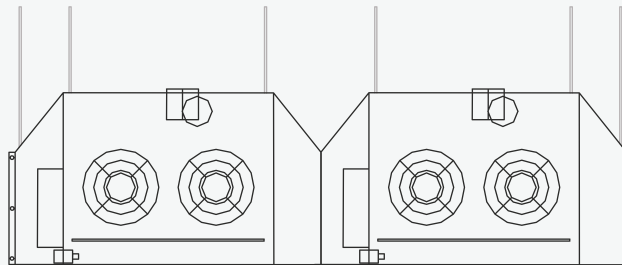
MOUNTING

- Unit will be suspended with threaded rods. Air curtain has two holes on each end for installing one end of threaded rods.
- Model TSD-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.
- Each transition duct has two 3/8 – 16 spotnuts
- 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.
- Additional mounting holes are provided on larger units for buildings where structural support is not adequate for supporting the air curtain from ends only.

POSITIONING

- Heater is to be mounted separately, 2" from air curtain/transition assembly.

FRONT



SIDE

Support unit heater separate from air curtain

