



EHD-E

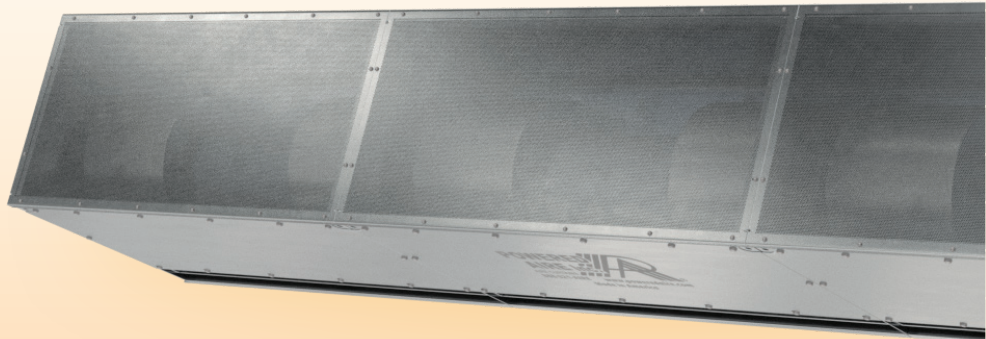


The Extra High Door (EHD) electrically heated air curtain provides unmatched performance and benefits for industrial door openings. The additional of electric heat ensures that cold outside remains outside while the heated blast of air helps maintain temperatures on and around the door. The EHD-E is manufactured in single increments and the air curtain can be paired to cover openings up to 30 feet wide. Like all EHD models, access panels are located at the top and bottom of the unit for easy maintenance and adjustments. All industrial units are direct drive, which avoids misalignment of couplers and outboard bearings and eliminates periodic belt replacement. The motor/blower plate comes out as an entire piece and all parts on the outside of the unit are constructed of stainless steel.

OPTIONS

HEATING

Unheated	pg 177
Hot Water	pg 186
Steam	pg 186
Indirect Gas	pg 189
Direct Gas	pg 195



AT A GLANCE

Single Incremental Widths

4' to 20'

Max Installation Height

22'

Heavy Duty Motors

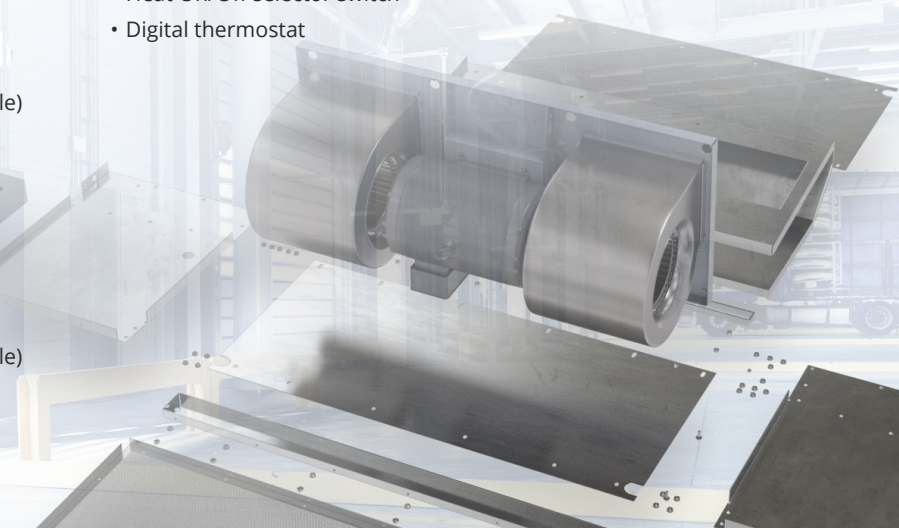
5 HP

KEY DESIGN FEATURES

- Outer cabinet constructed of 18-gauge 304 stainless steel with #3 finish
- 5 HP TEAO (Totally Enclosed Air Over) direct-drive single-speed motor(s)
- High-efficiency discharge plenum with adjustable air foil vane (+/-20°)
- Single point power connection available (see electrical table)
- 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
- Open coil multi-stage heating elements with factory mounted panel(s)
- Single point power connection available (see electrical table)
- Alternate heater kW available (consult factory)

RECOMMENDED CONTROLS

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



► EHD-E | PERFORMANCE

EHD-E | Performance Table

Model	Nozzle Width (in.)	Max. FPM at Nozzle	Avg. Outlet Velocity FPM	CFM at Nozzle	Outlet Velocity Uniformity	Number of Motors	Motor HP	Weight (lbs.)
EHD-1-48E	48	6572	5499	6305	95.00%	1	5	425
EHD-1-60E	60	6572	4358	7480	94.00%	1	5	468
EHD-1-72E	72	6572	5128	9256	94.00%	1	5	498
EHD-2-96E	96	6572	4842	12977	95.00%	2	5	825
EHD-2-108E	108	6572	4600	13769	94.00%	2	5	868
EHD-2-120E	120	6572	4358	15750	94.00%	2	5	911
EHD-2-132E	132	6572	4842	15120	95.00%	2	5	940
EHD-2-144E	144	6572	4842	19168	95.00%	2	5	969
EHD-3-156E	156	6572	4681	20257	94.00%	3	5	1270
EHD-3-168E	168	6572	4520	22825	94.00%	3	5	1315
EHD-3-180E	180	6572	4358	23004	94.00%	3	5	1355
EHD-3-192E	192	6572	4842	23335	95.00%	3	5	1381
EHD-3-204E	204	6572	4358	23400	94.00%	3	5	1412
EHD-3-216E	216	6572	4600	24570	95.00%	3	5	1442
EHD-4-228E	228	6572	4842	28239	94.00%	4	5	1799
EHD-4-240E	240	6572	4358	29120	95.00%	4	5	1838

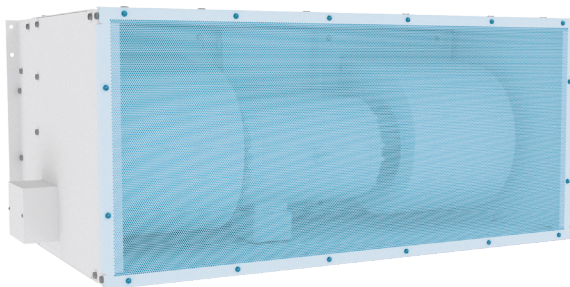
! For a unit over 20 feet long, consult factory.

EHD-E | Sound Levels

High Speed

71 dBA

Measured 10 ft. from unit in a free field based on a 1 motor unit



Performance Highlight

This unit can also be made with a top air intake. (front air intake shown in image)

EHD-E | ELECTRICAL

AMP Draw, Circuits & Breaker Size Table

ALL AMP DRAWS LISTED BELOW INCLUDE TOTAL DRAW (MOTOR AND HEATERS INCLUDED)
* Single Point Power (SPP) includes branch fusing and may require remote control panel.
‡ High amp draws may be prohibitive. Reduced and custom kW available. Contact factory.

EHD-E | Electrical Table

Model	KW	480/3/06				575/3/06			
		Separate Supply Circuits			SPP*	Separate Supply Circuits			SPP*
		Heat 1	Heat 2	Motors		Heat 1	Heat 2	Motors	
EHD-1-48E	40								
EHD-1-60E	40	48.1 (70)	-	7.9 (15)	56.0 (80)	40.2 (60)	-	5.6 (15)	45.8 (60)
EHD-1-72E	40								
EHD-2-96E	80								
EHD-2-108E	80	96.2 (125)	-	15.8 (20)	112.0 (150)	80.3 (110)	-	11.2 (15)	91.5 (125)
EHD-2-120E	80								
EHD-2-132E	80	48.1 (70)	48.1 (70)	15.8 (20)	112.0 (150)	40.2 (60)	40.2 (60)	11.2 (15)	91.5 (125)
EHD-2-144E	80								
EHD-3-156E	120								
EHD-3-168E	120								
EHD-3-180E	120	72.2 (100)	72.2 (100)	23.7 (30)	‡	60.2 (80)	60.2 (80)	16.8 (25)	137.3 (175)
EHD-3-192E	120								
EHD-3-204E	120								
EHD-3-216E	120								
EHD-4-228E	160	‡	‡	‡	‡	‡	‡	‡	‡
EHD-4-240E	160								

► EHD-E | MECHANICAL DETAILS & DRAWINGS

EHD-E | Mechanical Information Table

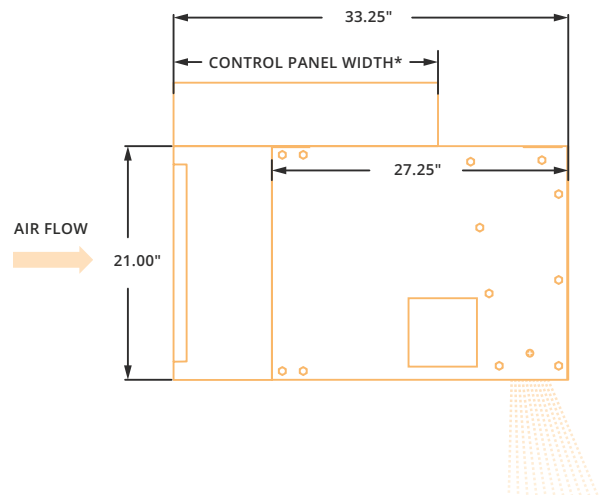
MODEL	Overall Width (in)	Nozzle Width (in)	Mounting Width Rear (in)	Mounting Width Top (in)
EHD-1-48E	51	48	49.5	47
EHD-1-60E	63	60	61.5	59
EHD-1-72E	75	72	73.5	71
EHD-2-96E	99.12	96.12	97.62	95.12
EHD-2-108E	111.12	108.12	109.62	107.12
EHD-2-120E	123.12	120.12	121.62	119.12
EHD-2-132E	135.12	132.12	133.62	131.12
EHD-2-144E	147.12	144.12	145.62	143.12
EHD-3-156E	159.24	156.24	157.74	155.24
EHD-3-168E	171.24	168.24	169.74	167.24
EHD-3-180E	183.24	180.24	181.74	179.24
EHD-3-192E	195.24	192.24	193.74	191.24
EHD-3-204E	207.24	204.24	205.74	203.24
EHD-3-216E	219.24	216.24	217.74	215.24
EHD-4-228E	231.36	228.36	229.86	227.36
EHD-4-240E	243.36	240.36	241.86	239.36



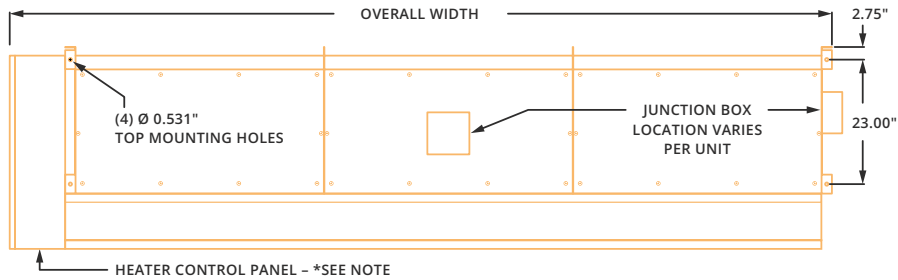
CONTROL PANEL NOTE

* Heater Control Panel dimensions vary per unit. In certain sizes, the control panel may increase the overall depth, width and/or height

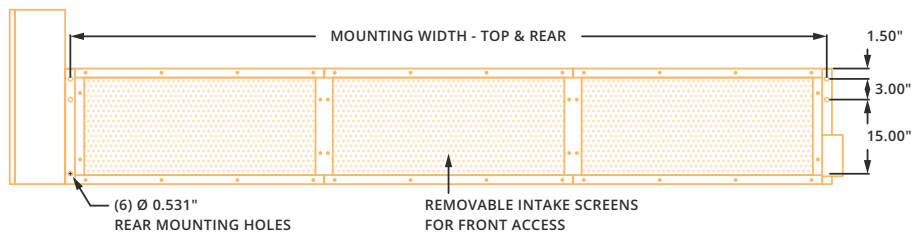
SIDE



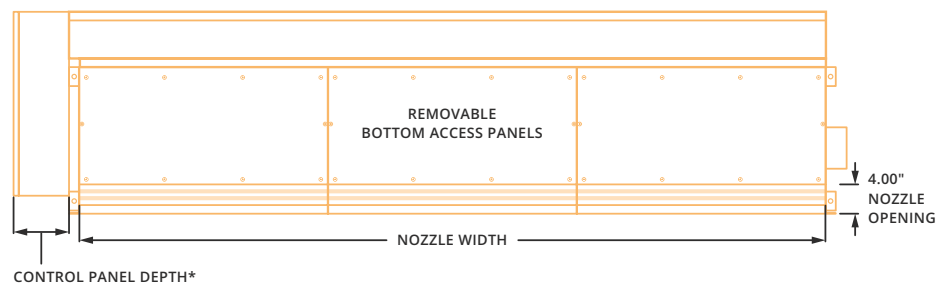
TOP



FRONT



BOTTOM



► EHD & EHD-E | INSTALLATION

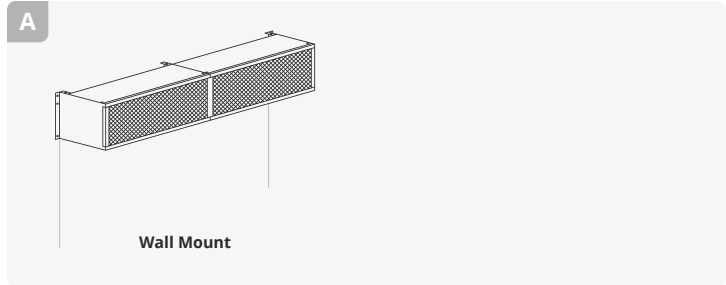


NOTE

The air curtain should be mounted as close to the door header/opening as possible for maximum performance. For every one inch the bottom of the air curtain is mounted above the door header, the back side of the air curtain should be moved away from the wall ¼ inch.

A WALL MOUNT

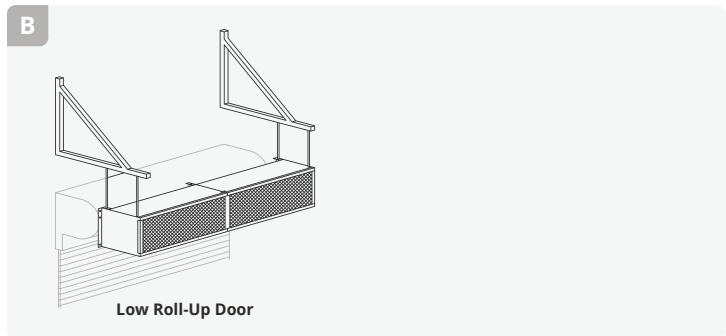
Rear flanges of air curtain have six holes, for six 1/2 inch bolts or lags with washers. When wall mounting use all six holes.



B MOUNTING BRACKETS

Mounting brackets (also called knee, angle or L-brackets) can be flush to the wall or constructed to account for a projection from the wall. For proper size brackets measure standoff distance from wall to back of where air curtain will be.

If required, angle iron or steel tubing can be attached to the top of the air curtain, typically one foot longer at each end, to reach brackets that are mounted outside of the door system.



C TOP MOUNT

Unit has four 17/32 holes for installing one end of 1/2 inch threaded rods. The other ends of the threaded rods can be attached to the ceiling. Washers or locknuts are recommended. Mounting structure should be of sufficient strength to hold air curtain, 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.

*Powered Aire does not supply threaded rods.

