

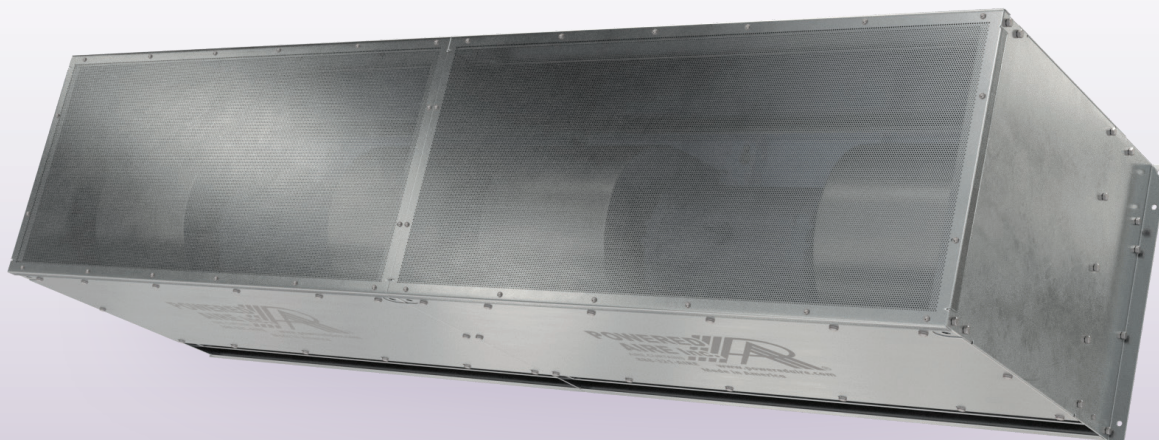


HDC

HEAVY DUTY



The HDC air curtain is designed for use in corrosive atmospheres. This heavy duty model has 3 hp motors and is unheated. This model differs from Powered Aire's standard units by featuring a higher grade stainless steel case and stainless steel internal components for added protection against rust and corrosion. This air curtain can also be built for floor to ceiling washdown applications.



AT A GLANCE

Single Incremental Widths

4' to 16'

Max Installation Height

17'

Heavy Duty Motors

3 HP

KEY DESIGN FEATURES

- Heavy duty case is 18 gauge 316 stainless steel in a number three finish.
- Heavy duty Total Enclosed Aire Over (TEAO) 3 HP Dirty Duty Autophoretic motors with 316 stainless steel shafts. 1160 rpm each.
- 316 stainless steel fans and housings.
- All fastening components including screws and bolts are type 316 stainless steel.
- Air intake screen is perforated 316 stainless steel with mill grain finish.
- High efficiency discharge plenum with directional air foil vane factory set to facilitate deflection of air stream +/- 20°.
- NEMA 4X control panel constructed of 316 stainless steel.
- Optional cleanable filter

RECOMMENDED CONTROLS

- Panel mounted HAND / OFF / AUTO switch
- Magnetic door switch for activation

APPLICATIONS

- Maritime
- Beachfront Properties
- Manufacturing Facilities
- Swimming Pools
- Car Washes
- Pharmaceutical
- Food Processing Plants
- Any location where corrosive fumes or vapors are present

► HDC | PERFORMANCE

HDC | Performance Table

MODEL	Nozzle Width (in.)	Max. FPM at Nozzle	Max. CFM at Nozzle	Outlet Velocity Uniformity	Number of Motors	Motor HP	Weight (lbs)
HDC-1-48	48	6200	4554	92%	1	3	342
HDC-1-60	60	5800	4855	92%	1	3	380
HDC-1-72	72	5900	5579	86.3%	1	3	400
HDC-2-96	96	6200	9108	92%	2	3	681
HDC-2-108	108	6200	9409	92%	2	3	719
HDC-2-120	120	5800	9710	92%	2	3	757
HDC-2-132	132	5900	10434	86.3%	2	3	777
HDC-2-144	144	5900	11158	86.3%	2	3	797
HDC-3-144	144	6200	13662	92%	3	3	1020
HDC-3-156	156	6200	13963	92%	3	3	1058
HDC-3-168	168	6200	14687	86.3%	3	3	1078
HDC-3-180	180	6200	14988	86.3%	3	3	1116
HDC-3-192	192	6200	15712	86.3%	3	3	1136

! For a unit over 16 feet long, consult factory.

HDC | Sound Levels

High Speed

69 dBA

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

HDC | Three Phase Motor Options

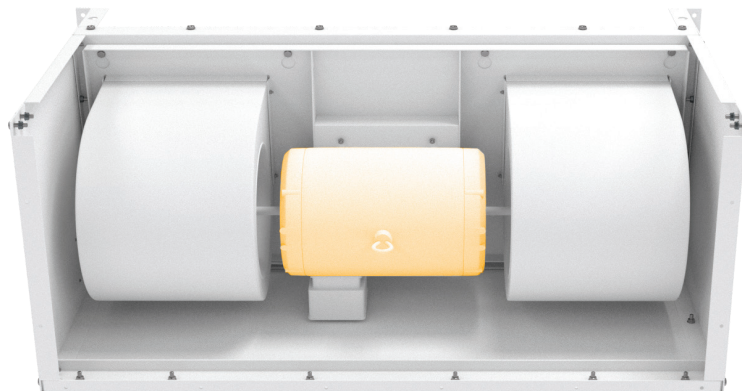
Voltages available

208

240

480

575 / 3 / 60



Performance Highlight

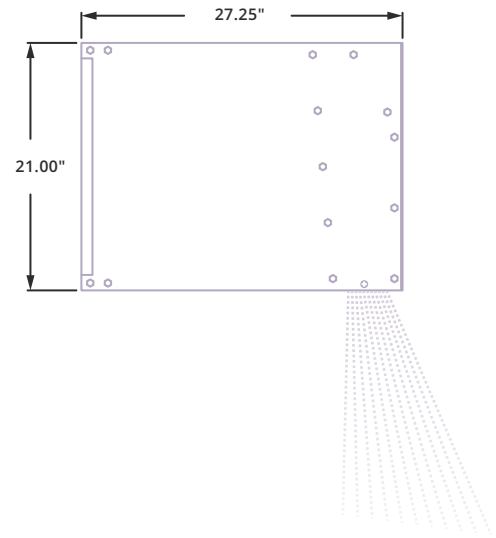
5 HP motors are available for higher door openings

► HDC | MECHANICAL DETAILS & DRAWINGS

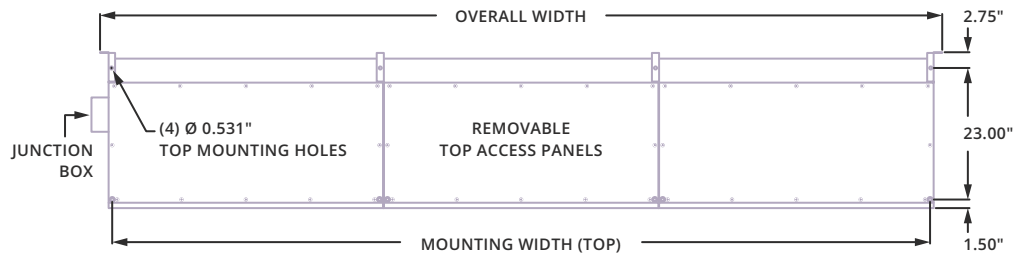
HDC | Mechanical Information Table

MODEL	Overall Width (in.)	Nozzle Width (in.)	Mounting Width Rear (in.)	Mounting Width Top (in.)
HDC-1-48	51	48	49.5	47
HDC-1-60	63	60	61.5	59
HDC-1-72	75	72	73.5	71
HDC-2-96	99.12	96.12	97.62	95.12
HDC-2-108	111.12	108.12	109.62	107.12
HDC-2-120	123.12	120.12	121.62	119.12
HDC-2-132	135.12	132.12	133.62	131.12
HDC-2-144	147.12	144.12	145.62	143.12
HDC-3-144	147.24	144.24	145.74	143.24
HDC-3-156	159.24	156.24	157.74	155.24
HDC-3-168	171.24	168.24	169.74	167.24
HDC-3-180	183.24	180.24	181.74	179.24
HDC-3-192	195.24	192.24	193.74	191.24

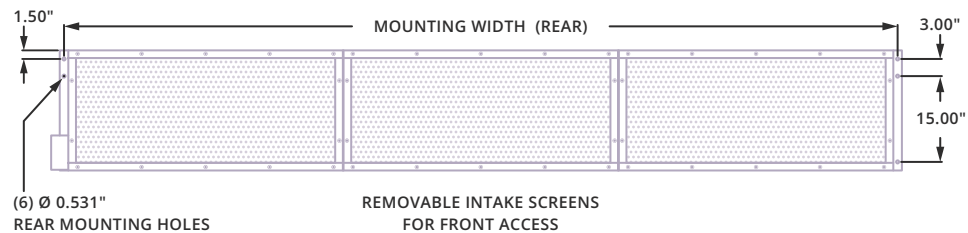
SIDE



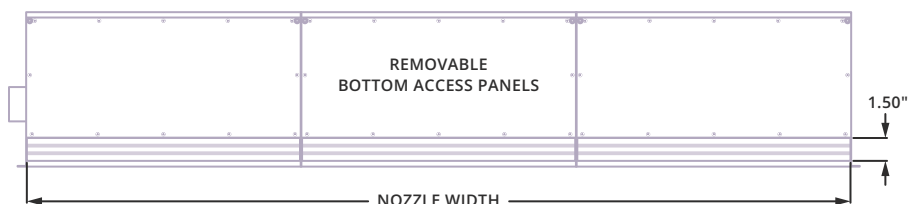
TOP



FRONT



BOTTOM



► HDC | INSTALLATION



NOTE

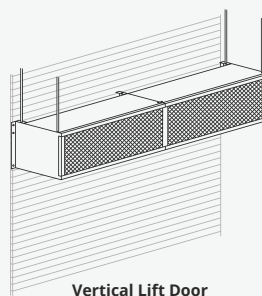
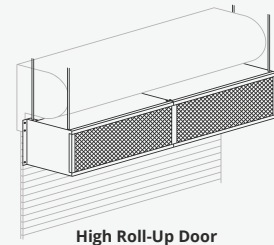
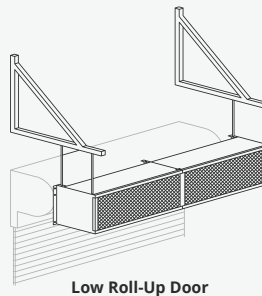
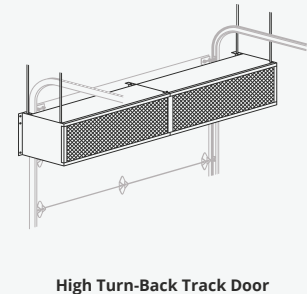
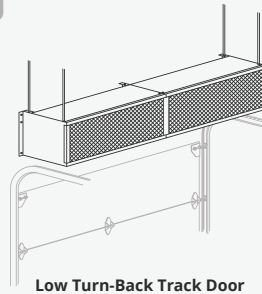
The air curtain should be mounted as close to the door header/opening as possible for maximum performance. For every one inch the bottom of the air curtain is mounted above the door header, the back side of the air curtain should be moved away from the wall ¼ inch.

A TOP MOUNT

Unit has four 15/32 inch holes for installing one end of 7/16" threaded rods. The other ends of the threaded rods can be attached to the ceiling. Washers and lock 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.

*Powered Aire does not supply threaded rods.

A



B WALL MOUNT

Rear flanges of air curtain have six holes, for six 7/16 inch bolts or lags with washers. When wall mounting use all six holes.

B

