REZNOR®

Revision: HAC-TSL (09-25) REV-D

Supersedes: HAC-TSL (07-25) REV-C

TECHNICAL SPECIFICATIONS FOR MODEL HAC

COMMERCIAL/INDUSTRIAL UNHEATED AIR CURTAIN

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In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

TECHNICAL SPECIFICATIONS—CONTINUED

Unit Sizes

These air curtains are available in thirteen unit sizes based on the number of motors (one, two, three, or four) and the door width (36–168 inches) where installed.

Features

- Voltage/phase options: 115/1, 208-230/240/1, 240/3, 480/3, and 575/3
- Designed for retail, grocery, warehouses, factories, office entryways, dock doors, vestibule replacement, doors between heated/unheated or cooled/uncooled sections of a building
- The optimal choice for commercial and light industrial doors
- Exclusive positive seal nozzle design
- Two-tone black and white glossy, scratch-resistant paint scheme
- Double inlet design galvanized forward-curved centrifugal type blower with zinc-plated hubs
- Direct-drive open drip-proof 3/4-HP 1,630-RPM blower motor with integral thermal-overload protection and heavy-duty permanently-lubricated ball bearings
- High-efficiency discharge plenum ensures that discharged air fills entire width and height of opening and lowers operational sound level

Factory-Installed Options

Option	Description
AK1	115/1 voltage
AK19	208-230/240/1 voltage
AK6E	240/3 voltage
AK7E	480/3 voltage
AK8	575/3 voltage
AW41	Cleanable filter
BA23	16A non-fused disconnect switch
BA24	25A non-fused disconnect switch
BA25	40A non-fused disconnect switch
CH4	Unit-mounted HIGH/OFF/LOW selector switch
CH5	Unit-mounted ON/OFF selector switch

Field-Installed Options

NOTE: To install controls, refer to the installation instructions provided with the control.

Option	Description
CK41–CK51	Mounting struts, 0–20 inch offset
CK52	Quick-mounting plate
CN15	Remote-mounted industrial HIGH/OFF/LOW selector switch
CN16	Remote-mounted industrial ON/OFF selector switch
CN17	Remote-mounted architectural HIGH/OFF/LOW selector switch
CN18	Remote-mounted architectural ON/OFF selector switch
CN30	Magnetic commercial door switch
CN31	Magnetic industrial door switch
RB7	Touch screen controller

Technical Data

Parameter	Unit of Measure	Unit Size (No. of Motors-Door Width (Inches))												
		1-36	1-42	1-48	1-60	2-72	2-84	2-96	3-108	3-120	3-132	4-144	4-156	4-168
Nozzle width	inch	36	42	48	60	72	84	96	108	118	133	145	157	169
Average outlet velocity	FPM	2060	2022	1849	1619	2060	2022	1849	2060	2033	1860	2060	2040	2022
Maximum velocity at nozzle		5654	5321	5296	5288	5654	5321	5296	5654	5340	5305	5654	5648	5321
Airflow rate	CFM	1401	1678	1757	2007	2802	3356	3514	4203	4757	4809	5604	6158	6712
Outlet velocity uniformity	%	88		84	72	88		84	88		72	88		
Power rating	kW	0.76	0.84	0.86	0.94	1.52	1.68	1.72	2.28	2.44	2.46	3.04	3.20	3.36
Blower motor(s)	Number	1				2			3			4		
Blower motor size	HP	3/4												
FLA 115/1	amp	8.0				16.0			24.0			32.0		
FLA 208/1		4.2				8.4			12.5			16.6		
FLA 230/240/1		3.6				7.2			10.8			14.4		
FLA 480/3		2.0				4.0			6.0			8.0		
FLA 575/3		1.5				3.0			4.5			6.0		
Sound level*	dBA	63.00				66.00			67.76			69.01		
*As measured in a free field 10 feet from a one-motor unit.														

Velocity Projection

Distance from Nozzle (Inches (cm))	Unit Size (No. of Motors-Door Width (Inches))												
	1-36	1-42	1-48	1-60	2-72	2-84	2-96	3-108	3-120	3-132	4-144	4-156	4-168
	Core Velocity (FPM)												
40 (102)	1756	1630	1550	1342	1756	1630	1550	1756	1714	1603	1756	1693	1630
80 (203)	1175	1003	1046	898	1175	1003	1046	1175	1118	1017	1175	1089	1003
120 (305)	944	890	808	685	944	890	808	944	926	863	944	917	890
160 (406)	797	708	677	593	797	708	677	797	767	698	797	753	708
200 (508)	639	610	523	517	639	610	523	639	629	581	639	625	610

Certification

These air curtains are listed by Intertek for use in the United States and in Canada. They are certified to bear the AMCA Seal for Air Performance. The ratings shown are based on May 2020 tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection, and power rating at free delivery only.

Installation Codes

- These units must be installed in accordance with local building codes. Local authorities having jurisdiction should be consulted before installation is made to verify local codes and installation procedure requirements.
- All electrical wiring and connections, including electrical grounding MUST be made in accordance with the *National Electric Code* (ANSI/NFPA No. 70, latest edition) or, in Canada, the *Canadian Electric Code* (Part 1, CSA C.22.1). In addition, the installer should be aware of any local ordinances that might apply.

TECHNICAL SPECIFICATIONS—CONTINUED

Mounting Height

The maximum mounting height is 14 feet (4.3 meters). The minimum mounting height is 6 feet (1.8 meters).

Clearances

⚠ CAUTION ⚠

The air discharge at the bottom of the air curtain MUST NOT be blocked.

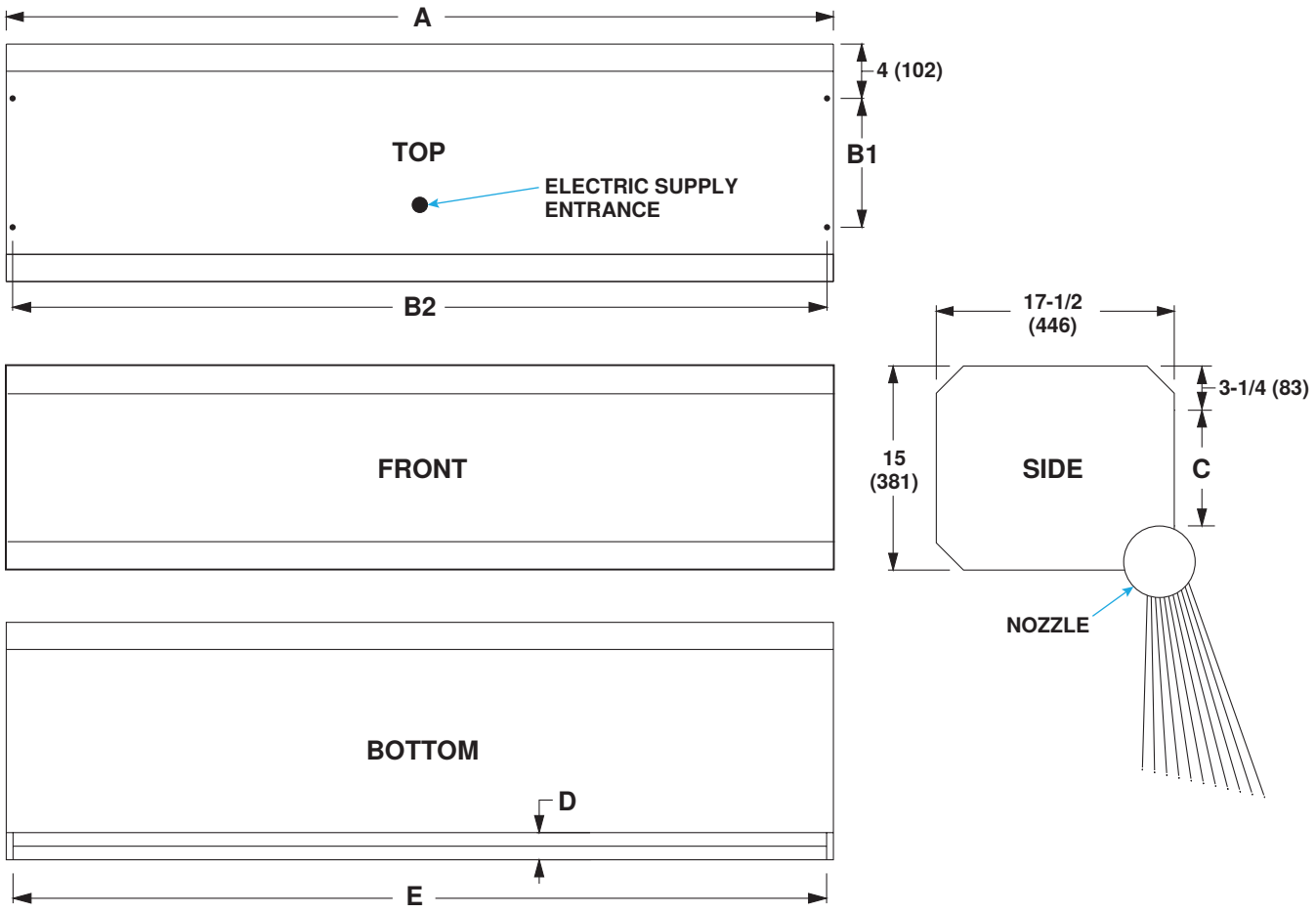
The air curtain must be installed so that the following clearances are provided for with regards to operation, inspection, and service.

Air Curtain Surface	Minimum Clearance (Inches (mm))
Top	2 (51)
Bottom	2 (51)
Front	30 (762)
Back	0 (0)
Sides	1/2 (13)

Weights

Unit Size (No. of Motors-Door Width (Inches))												
1-36	1-42	1-48	1-60	2-72	2-84	2-96	3-108	3-120	3-132	4-144	4-156	4-168
Pounds (kg)												
90 (41)	97 (44)	104 (48)	117 (54)	169 (77)	187 (85)	203 (93)	245 (112)	274 (125)	290 (132)	338 (154)	356 (162)	374 (170)

Dimensions



Dimension (See Graphic Above)	Unit Size (No. of Motors-Door Width (Inches))												
	1-36	1-42	1-48	1-60	2-72	2-84	2-96	3-108	3-120	3-132	4-144	4-156	4-168
	Inches (mm)												
A (overall width)	37 (940)	43 (1093)	49 (1245)	61 (1550)	73 (1855)	85 (2159)	97 (2464)	109 (2769)	119 (3023)	134 (3404)	146 (3709)	158 (4014)	170 (4318)
B1 (top mounting holes)*	9-1/2 (242)												
B2 (top mounting holes)*	36-3/5 (916)	42-3/5 (1069)	48-3/5 (1221)	60-3/5 (1526)	72-3/5 (1831)	84-3/5 (2136)	96-3/5 (2440)	108-3/5 (2745)	118-3/5 (2999)	133-3/5 (3380)	145-3/5 (3685)	157-3/5 (3990)	169-3/5 (4295)
C (rear mounting holes)*	8-1/2 (216)												
D (nozzle opening)	2-3/4 (70)												
E (nozzle width)	36 (915)	42 (1067)	48 (1220)	60 (1524)	72 (1829)	84 (2134)	96 (2439)	108 (2744)	118 (2998)	133 (3379)	145 (3683)	157 (3988)	169 (4293)
*Four (4) 0.38-inch holes top and rear.													

⚠ WARNING ⚠

- **This appliance is not intended for use by persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the appliance.**
- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **Do not remove safety labels. If they are unreadable, contact an authorized distributor for replacement labels.**

For more information on Reznor HVAC products:

- **Contact your local Reznor representative at 1-800-695-1901**
- **Refer to the manuals and additional consumer materials found at www.reznorhvac.com**

Specifications and illustrations subject to change without notice or incurring obligations.
Latest version of this document is available at **www.reznorhvac.com**.
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