

TECHNICAL SPECIFICATIONS FOR MODEL HACE

COMMERCIAL/INDUSTRIAL HURACAN™ SERIES AIR CURTAIN WITH ELECTRIC HEAT



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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 number of motors (one, two, three, or four) and the door width (36–168 inches) where installed.

Features

- Voltage/phase options: 208/1, 240/1, 208/3, 240/3, 480/3, and 575/3
- Designed for retail, grocery, warehouses, factories, office entryways, and other applications that would typically require a vestibule to stop cold or warm air from entering the climate-controlled environment
- The optimal choice for commercial and light industrial doors
- Exclusive positive seal nozzle design
- Electric heat coil(s) for increased comfort
- 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
AK2	208V/1Ph
AK3E	240V/1Ph
AK5	208V/3Ph
AK6E	240V/3Ph
AK7E	480V/3Ph
AK8	575V/3Ph
CH4	Unit-mounted HIGH/OFF/LOW selector switch
CH5	Unit-mounted ON/OFF selector switch
CP91	Non-fused disconnect switch, 16A
CP92	Non-fused disconnect switch, 25A
CP93	Non-fused disconnect switch, 40A
CP23	Non-fused disconnect switch, 60A
CP68	Non-fused disconnect switch, 80A

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
CL1	Single-stage 24V thermostat, 50–90°F, with fan switch
CL22	Two-stage 24V digital thermostat, with fan switch
CL23	Two-stage 24V thermostat, heat/cool, programmable
CL83	Two-stage 24V WiFi thermostat, programmable
CL84	Two-stage 24V smart thermostat, heat/cool
CL90	BACnet thermostat, heat/cool, programmable
CM1	Locking cover for option CL1
CM1B	Locking cover for options CL22 and CL23
CN13	Commercial door switch
CN14	Industrial door switch
CN15	Remote-mounted HIGH/OFF/LOW selector switch
CN16	Remote-mounted ON/OFF selector switch
CN17	Decorator-mounted HIGH/OFF/LOW selector switch
CN18	Decorator-mounted ON/OFF selector switch
RB8	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	1845	1903	1514	1343	1845	1903	1514	1845	1886	1617	1845	1876	1903		
Maximum velocity at nozzle		5654	5321	5296	5288	5654	5321	5296	5654	5340	5305	5654	5648	5321		
Airflow rate	CFM	1310	1503	1438	1665	2620	3006	2876	3930	4316	4285	5240	5626	6012		
Outlet velocity uniformity	%	82	83	85	79	82	83	85	82	79	82	83				
Temperature rise	°F	24.4	21.2	22.2	19.2	24.4	21.2	22.2	24.4	22.2	22.4	24.4	22.7	21.2		
Power rating	kW	0.68	0.71	0.72	0.78	1.36	1.42	1.44	2.04	2.10	2.14	2.72	2.78	2.84		
Heat output		10	20	30	40											
Blower motor(s)	Number	1			2			3			4					
Blower motor size	HP	3/4														
FLA 208/1 (one separate supply circuit)	amp (breaker size)	27.6 (35)				—										
FLA 208/1 (two separate supply circuits)		24.0 (35)				—										
FLA 240/1 (one separate supply circuit)		45.3 (60)				—										
FLA 208/3 (one separate supply circuit)		31.4 (40)				35.0 (45)			38.6 (50)			—				
FLA 208/3 (two separate supply circuits)		—				27.8 (35)						—				
FLA 208/3 (three separate supply circuits)		—				27.8 (35)						—				
FLA 240/3 (one separate supply circuit)		27.7 (35)				31.3 (40)			46.9 (60)			—				
FLA 240/3 (two separate supply circuits)		—				24.1 (35)			36.1 (50)			—				
FLA 480/3 (one separate supply circuit)		14.0 (20)				28.1 (40)			42.1 (60)			32.1 (45)				
FLA 480/3 (two separate supply circuits)		—				24.1 (35)						—				
FLA 575/3 (one separate supply circuit)		11.5 (15)				23.1 (30)			34.6 (45)			46.2 (60)				
Sound level*		dBA	63.00				66.00			67.76			69.01			

*As measured in a free field 10 feet from a one-motor unit.

TECHNICAL SPECIFICATIONS—CONTINUED

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)	1133	1051	1000	866	1133	1051	1000	1133	1106	1034	1133	1092	1051
80 (203)	1033	883	920	790	1033	883	920	1033	984	895	1033	958	883
120 (305)	733	691	627	532	733	691	627	733	719	669	733	712	691

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.

Mounting Height

⚠ WARNING ⚠

FOR MODEL HACE: If touched, the internal surfaces that are accessible from outside the unit will cause burns. Suspend the unit a minimum of 6 feet (1.8 meters) above the floor.

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

Clearances

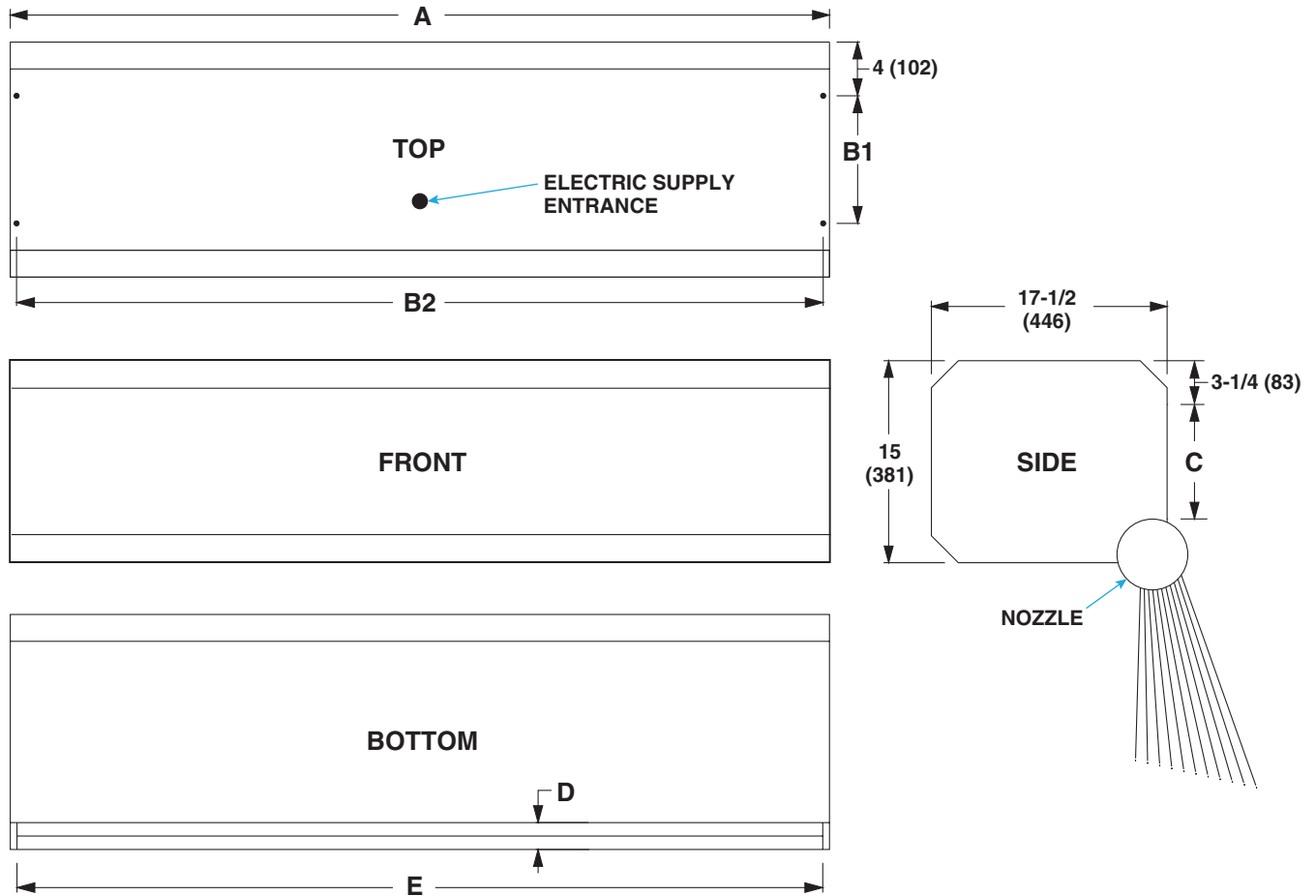
⚠ CAUTION ⚠

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)

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.

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)												
95 (44)	102 (47)	109 (50)	121 (55)	177 (81)	195 (89)	210 (96)	255 (116)	284 (129)	301 (137)	354 (161)	372 (169)	390 (177)

⚠ 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

