



NAC H / V Submittal



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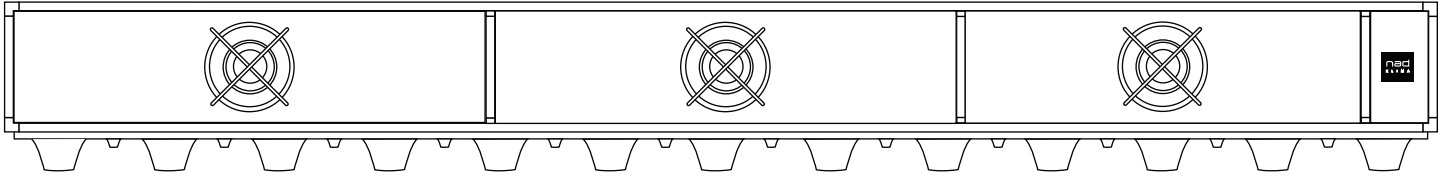
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Date

Project

Engineer

Contractor



**NAC H
NAC V**



NAC S

The air curtain

- Made of aluminum and steel.
- Nozzles' incline and configuration shall be adapted to the door's dimensions.
- NAC H / V - Fans offered in 115 or 230 volt single-phase current, and 230 or 575 volt three-phase current.
- NAC S - 3 fans offered in 115 volt single-phase current
- Painted with a TGIC-free polyester powder coat.
- RAL colour chosen by client.
- Vertical or horizontal installation.
- Protective grill for fans
- Easy to clean.
- Easy access to the fans.
- Fan equipped with an internal thermal protection.
- Protection against surcharges.
- Automatic opening/closing of the door.
- Operated with a panel control.
- Selection switch for manual, automatic or stop modes.
- Approved according to the CSA C22.2 No 113 Fans and Ventilators, or ANSI/UL according to UL 507 Standard for Safety Electric Fans.

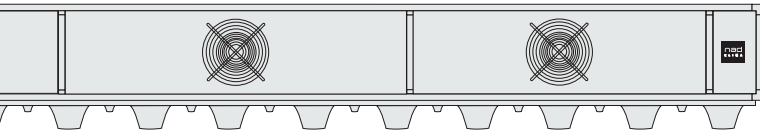
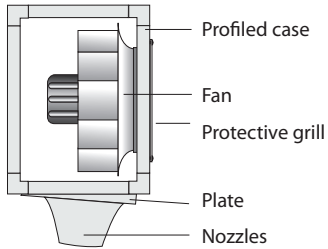


Certification
ANSI/UL Std. 507
CAN/CSA Std. C22.2 No. 113

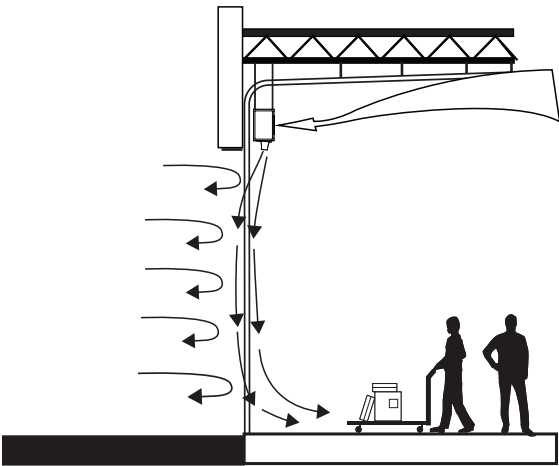
Mode of operation

NAC H / V

Built to the client's needs and to meet the occupied area's specifications, the NAC - H and NAC - V air curtain is available for doors from 8 to 24 feet (2.5 to 7.3 m) wide with openings up to 8 to 30 feet (2.5 to 9 m) in high.



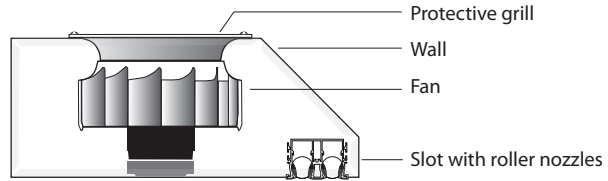
The integrated fans of the NAC air curtain recover interior ambient air from below the ceiling and propel it through conical nozzles for the NAC - H and NAC - V. This process creates a thermal barrier against exterior air while allowing free movement of people and equipment.



NAC S

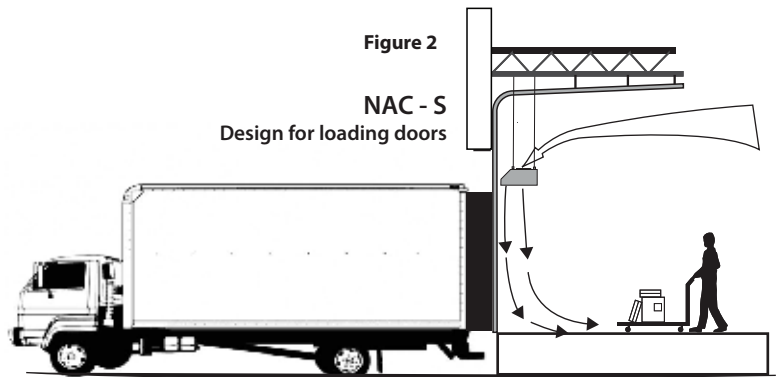
Especially developed and produced for loading doors of 2.5 m (8ft) wide by 2.5 and 2.75 m (8 and 9 ft) high.

The NAC - S air curtain is manufactured in three sections. Each section contains a removable ventilation unit to facilitate maintenance or repairs if needed (see page 6). The NAC - S air curtain is assembled in factory.



The NAC - S air curtain is fabricated with steel panels with slots for nozzle rollers.

The low level noise fans recirculate the ambient air, propelling it through the nozzle rollers which produce a thermal barrier covering the entire surface of the door.



Technical data

NAC - S horizontal air curtain with vertical flow for 8 feet (2.4 m) wide door

Door width - ft (m)		8 (2.4)	Height ft (m)
Air flow (pcm)		2000	8 to 9 (2.4 to 2.8)
Number of fans (-)		3	
Motor voltage (V)		115	
Number of phases (~)		1	
Power / motor (kW)		0.51	
Current / motor (A)		4.3	
Current total (A)		12.9	
Weight (kg/lb)		63 / 140	

Notes for the NAC - S :
Other voltages are available upon request.

NAC - V vertical air curtain with horizontal flow

For vertical installation of the air curtain with a horizontal flow, data will be available upon request.

NAC - H horizontal air curtain with vertical flow

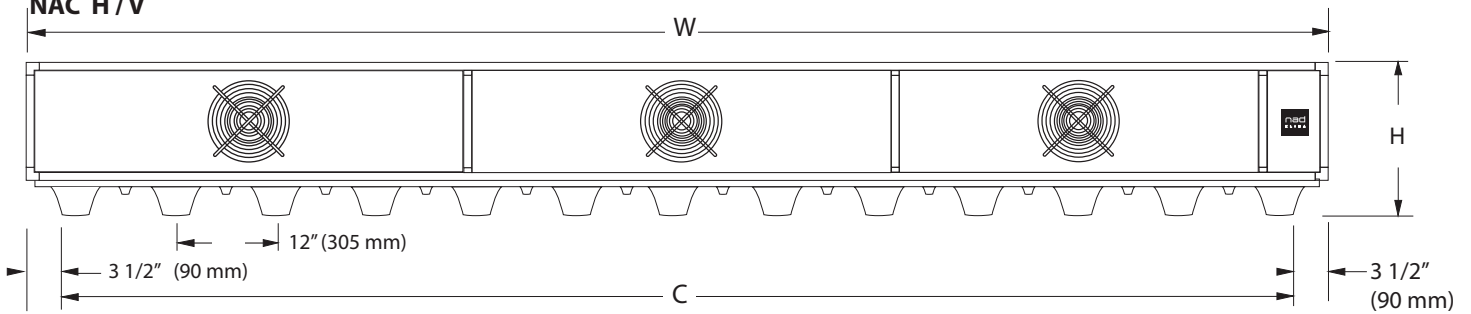
Door width - ft (m)		10 (3.05)			12 (3.66)			Height ft (m)
Air flow (cfm)		3200			4000			10 (3.05)
Number of fans (-)		3			3			
Motor voltage (V)		115	230	575	115	230	575	
Number of phases (~)		1	1	3	1	1	3	
Power / motor (kW)		1.1	1.1	1.1	1.1	1.1	1.1	
Current / motor (A)		9.4	4.7	1.28	9.4	4.7	1.28	
Current total (A)		28.2	14.1	3.84	28.2	14.1	3.84	
Weight (kg/lb)		130 / 290			140 / 310			

* For the doors more than 5.5 m (18 ft) wide and 5 m (16 ft) height and under, the air curtain will be supplied in two modules of NAC - H and requires assembly by the installer. See the installation guide.

Door width - ft (m)		12 (3.66)		14 (4.3)		16 (4.9)		18 (5.5)		20 (6.1)*		22 (6.7)*		24 (7.3)*		Height ft (m)
Air flow (cfm)		5200		5400		6400		-	-	-	-	-	-	-	-	12 (3.66)
Number of fans (-)		4		4		5		-	-	-	-	-	-	-	-	
Motor voltage (V)		230	575	230	575	230	575	230	575	230	575	-	-	-	-	
Number of phases (~)		3	3	3	3	3	3	3	3	3	3	-	-	-	-	
Power / motor (kW)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-	-	-	-	
Current / motor (A)		2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	-	-	-	-	
Current total (A)		11.2	5.1	11.2	5.1	14	6.4	-	-	-	-	-	-	-	-	
Weight (kg/lb)		150 / 330		165 / 370		195 / 430		-	-	-	-	-	-	-	-	
Airflow (cfm)		5200		6300		6700		6900		7600		-	-	-	-	14 (4.3)
Number of fans (-)		4		5		6		6		7		-	-	-	-	
Motor voltage (V)		230	575	230	575	230	575	230	575	230	575	-	-	-	-	
Number of phases (~)		3	3	3	3	3	3	3	3	3	3	-	-	-	-	
Power / motor (kW)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-	-	-	-	
Current / motor (A)		2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	-	-	-	-	
Current total (A)		11.2	5.1	14	6.4	16.8	7.7	16.8	7.7	19.6	9	-	-	-	-	
Weight (kg/lb)		150 / 330		185 / 410		210 / 460		220 / 485		245 / 540		-	-	-	-	
Air flow (cfm)		5600		6300		6700		7600		8000		8800		9600		16 (4.9)
Number of fans (-)		5		5		6		7		8		9		10		
Motor voltage (9V)		230	575	230	575	230	575	230	575	230	575	230	575	230	575	
Number of phases (~)		3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Power / motor (kW)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Current / motor (A)		2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	2.8	1.28	
Current total (A)		14	6.4	14	6.4	16.8	7.7	19.6	9	22.4	10.2	25.2	11.5	28	12.8	
Weight (kg/lb)		170 / 375		185 / 410		210 / 460		235 / 520		270 / 595		295 / 650		315 / 690		

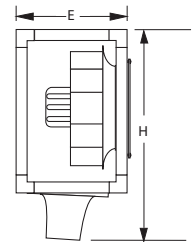
Dimensions

NAC H/V

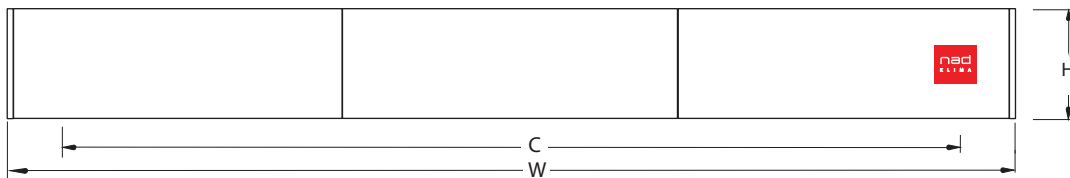


Door width (C)	ft (m)	8 (2.4)	10 (3)	12 (3.7)	14 (4.3)	16 (5)
Curtain width (W)	ft (m)	8'-7" (2.62)	10'-7" (3.23)	12'-7" (3.84)	14'-7" (4.45)	16'-7" (5.05)

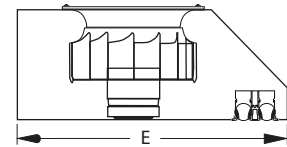
H	21 3/4 in (553 mm)
E	11 7/8 in (301 mm)



NAC - S

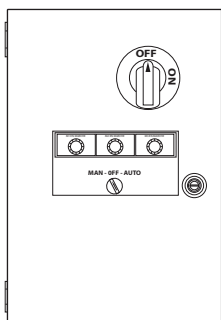


Door width (C)	ft (m)	8 (2.4)	H	8 1/8 po (208 mm)
Curtain width (W)	ft (m)	9 (2.75)	E	20 3/8 po (518 mm)

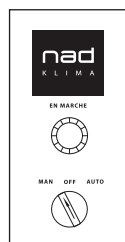


Control system

NAC H/V



NAC S



Control panel

The NAC air curtain is operated by a control panel. The panel is supplied by NAD Klima and has a selector switch with the options "MAN- OFF - AUTO".

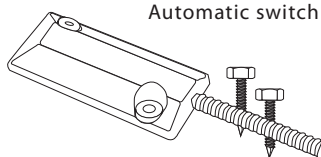
When it is set to "Manual" mode, the air curtain will start and will only shut down when set to "OFF".

When set to "AUTO" mode, the air curtain starts automatically when the opening of the door is detected. Signal lights, one for each motor, identify which motors are operating.

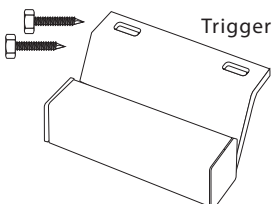
Automatic control System

The switch is compatible with most types of doors, for a virtually universal installation. It is composed of two parts; the switch and the trigger magnet.

Automatic switch



Trigger magnet



The control panel and the magnetized switch are supplied by the manufacturer. The electrical cable connecting the control panel, switch and air curtain are supplied by the electrician.

Codification

NAC							Product	
S = Horizontal air curtain for 8 ft (2.4 m) wide door (loading door) H = Horizontal air curtain with vertical air discharge for 10 ft (3 m) wide and more doors V = Vertical air curtain with horizontal air discharge for 10 ft (3 m) wide and more doors							Installation	
08 (2.4), 09 (2.75), 10 (3), 12 (3.66), 14 (4.3), 16 (5), 18* (5.5), 20* (6), 22* (6.7), 24* (7.3)						* supplied in two modules	Door width: ft (m)	
08 (2.4), 09 (2.75), 10 (3), 12 (3.66), 14 (4.3), 16 (5), 18* (5.5), 20* (6), 22* (6.7), 24* (7.3), 26* (7.9), 28* (8.5), 30* (9.1)						* supplied in two modules or more on vertical installation	Door height: ft (m)	
1151 = 115/120 1~ 2301 = 208/230 1~ (on request only for NAC-S) 2303 = 208/230 3~ (not available for NAC - S) 6003 = 575/600 3~ (not available for NAC - S)							Motor voltage	
D = With fan drive and rheostat X = Without fan drive							Fan drive	
9003 = White Standard ____ = RAL color * (indicate RAL color number)							Color	
X = Without support S = With support (for a vertical installation)							Vertical installation	
NAC	S	08	08	1151	X	9003	X	Example