

Vortex Enclosure Coolers A/C, A/C Class 1, Div 2 and A/C ATEX

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1 Vortex Enclosure Coolers A/C, A/C Class 1, Div 2 and A/C ATEX

Highly reliable, cost effective enclosure coolers.

1.1 Overview

Vortex A/C Coolers incorporate the most up-to-date features into Vortec's line of highly reliable, cost effective enclosure coolers.

All of Vortec's Enclosure Coolers keep Electrical and Electronic Enclosures cool, clean and protected and are a low cost alternative to expensive, high maintenance air conditioners; and avoid contamination with dirty, humid air caused by fans.

Sleek, modern design Noise reduction of 78%, when compared to other vortex enclosure coolers Energy use reduction through its integral mechanical thermostat Quick and easy installation in about 5 minutes Flexible installation: top, side or front (door) mount

The Vortex A/C is available in 4 different cooling capacities, and ratings of NEMA 12, NEMA 4/4X and Hazardous Location Duty (Class 1, Div 2).

1.2 Features

- Small footprint to fit on all enclosures and in confined areas
- Top, side or front (door) mount models available
- Maintain temperature between 80 - 90 deg F
- Supplied with air filter and ducting kit
- Maintains slight pressurization in the enclosure
- UL Listed
- 10 year warranty

1.3 Benefits

- Thermostatically controlled to maintain enclosure temperatures within ideal range
- Highly reliable, with full 10 year warranty
- No ambient, dirty or humid air enters the cabinet
- Can be used on all cabinets, even in tight spaces
- Easy to install, takes about 5 minutes
- No wiring required to install
- Operates in environments up to 175 deg F
- Low cost, compared to Freon air conditioners
- Reduce operating cost with mechanical thermostat turning the unit on only when necessary
- Very quiet, 62 dBA operation, 78% quieter than typical vortex coolers
- Multiple cooling capacities available, to optimize performance and operating cost



1.4 Applications

Today's small, compact multi-function electronic controls, variable speed drives, servos and programmable logic controllers are extremely sensitive to heat and contamination. Smaller cabinet sizes make temperature control difficult and prone to premature failures. Excessive heat will cause digital displays to misread, controls to drift, and breakers to trip below rated loads. The result is productivity lost due to machine or line shutdowns.

Vortex Enclosure Coolers maintain a slight pressurization in the cabinet to keep electrical and electronic components clean and dry; and most are thermostatically controlled to maintain enclosure temperatures within a specified temperature range.

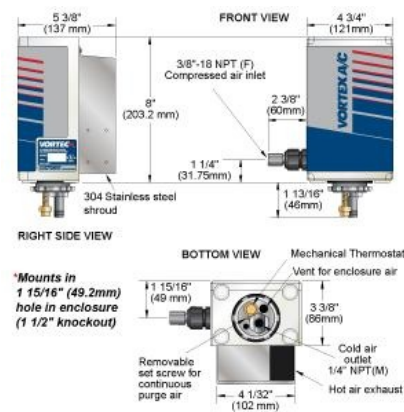
2 Models

2.1 Vortex A/C Enclosure Coolers Nema 4/4X

Vortex A/C NEMA 4 provide protection (Weatherproof, washdown) for outdoor or indoor electronic and electrical cabinets. Vortex A/C NEMA 4X provide protection (weatherproof, washdown, corrosion resistant) for outdoor or indoor electronic and electrical cabinets.

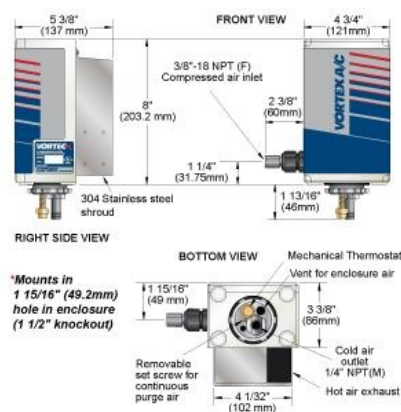
7015BSP: Vortex A/C (900 BTU/h)

Model	7015BSP
Rating	NEMA 4/4X
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	900
Air Consumption @ 100 psig (scfm)	15
Air Consumption @ 100 psig (l/min)	425
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



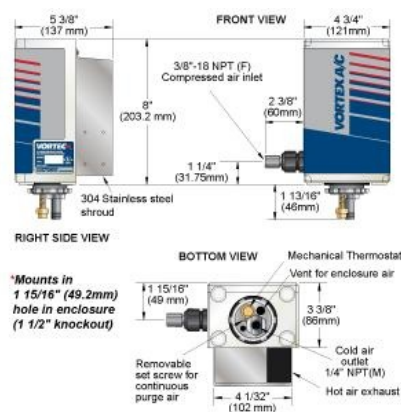
7025BSP: Vortex A/C (1500 BTU/h)

Model	7025BSP
Rating	NEMA 4/4X
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	1500
Air Consumption @ 100 psig (scfm)	25
Air Consumption @ 100 psig (l/min)	708
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



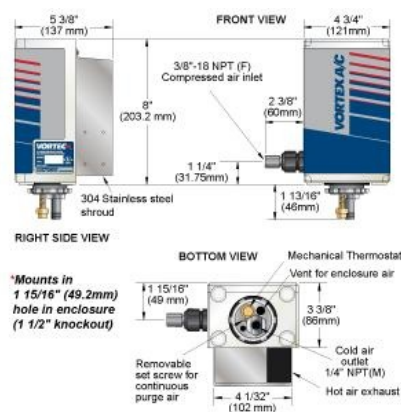
7035BSP: Vortex A/C (2500 BTU/h)

Model	7035BSP
Rating	NEMA 4/4X
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	2500
Air Consumption @ 100 psig (scfm)	35
Air Consumption @ 100 psig (l/min)	991
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



7070BSP: Vortex A/C (5000 BTU/h)

Model	7070BSP
Rating	NEMA 4/4X
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	5000
Air Consumption @ 100 psig (scfm)	70
Air Consumption @ 100 psig (l/min)	1981
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4

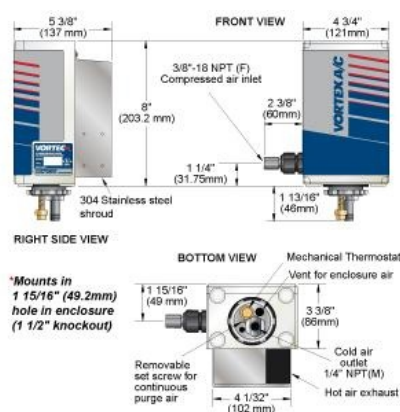


2.2 Hazardous Location Duty Vortex A/C

Vortex A/C for Hazardous Location Duty (Class 1, Div 2)

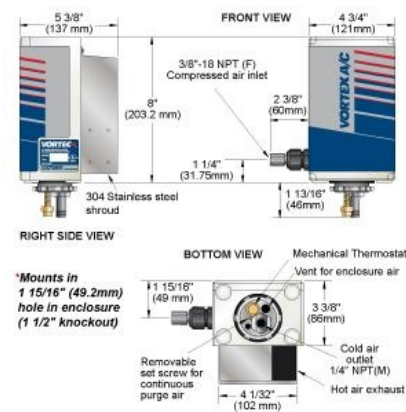
7215BSP: Vortex A/C (900 BTU/h)

Model	7215BSP
Rating	Class 1, Div 2
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	900
Air Consumption @ 100 psig (scfm)	15
Air Consumption @ 100 psig (l/min)	425
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



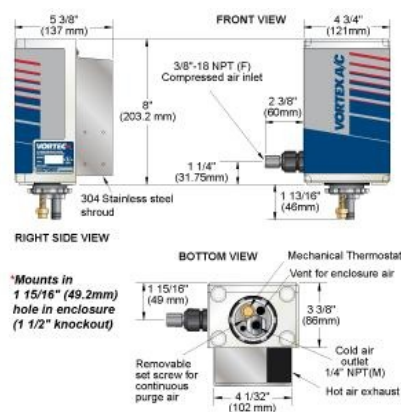
7225BSP: Vortex A/C (1500 BTU/h)

Model	7225BSP
Rating	Class 1, Div 2
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	1500
Air Consumption @ 100 psig (scfm)	25
Air Consumption @ 100 psig (l/min)	708
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



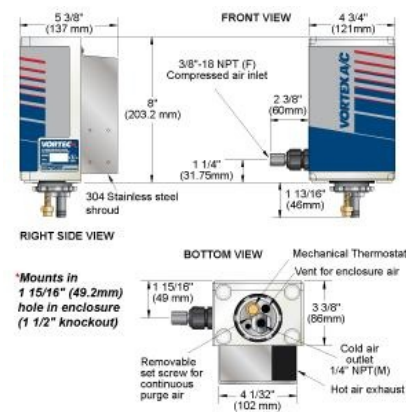
7235BSP: Vortex A/C (2500 BTU/h)

Model	7235BSP
Rating	Class 1, Div 2
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	2500
Air Consumption @ 100 psig (scfm)	35
Air Consumption @ 100 psig (l/min)	991
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



7270BSP: Vortex A/C (5000 BTU/h)

Model	7270BSP
Rating	Class 1, Div 2
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	5000
Air Consumption @ 100 psig (scfm)	70
Air Consumption @ 100 psig (l/min)	1981
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4

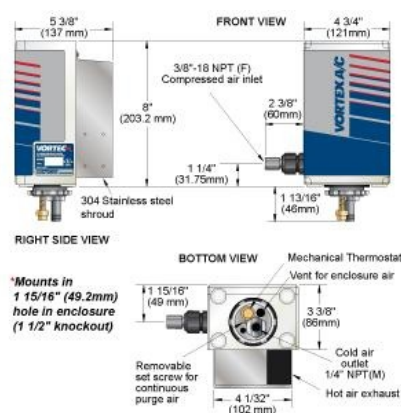


2.3 ATEX Vortex A/C

ATEX Vortex A/C Coolers are designed specifically for purged Electrical enclosures in ATEX Zones 2 and 22 and Temperature Class T4 areas. The ATEX Vortex A/C incorporates the most up-to-date features into Vortec's line of highly reliable, cost effective enclosure coolers.

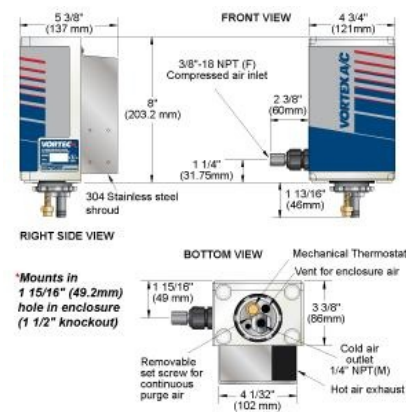
7315BSP: Vortex A/C (900 BTU/h)

Model	7315BSP
Rating	ATEX Zone 2 and 22
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	900
Air Consumption @ 100 psig (scfm)	15
Air Consumption @ 100 psig (l/min)	425
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



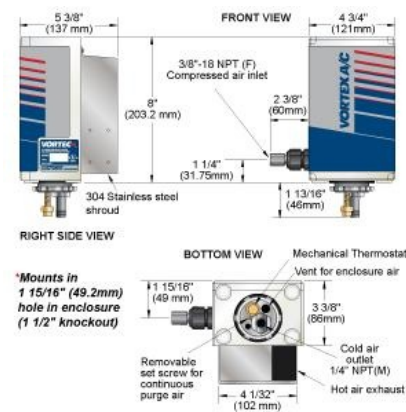
7325BSP: Vortex A/C (1500 BTU/h)

Model	7325BSP
Rating	ATEX Zone 2 and 22
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	1500
Air Consumption @ 100 psig (scfm)	25
Air Consumption @ 100 psig (l/min)	708
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



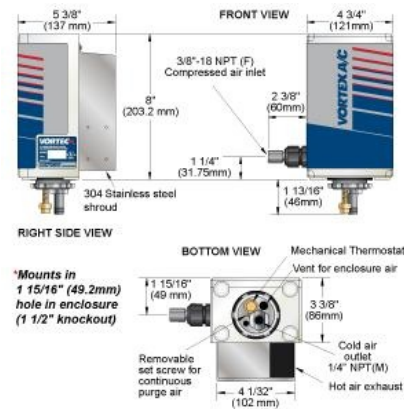
7335BSP: Vortex A/C (2500 BTU/h)

Model	7335BSP
Rating	ATEX Zone 2 and 22
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	2500
Air Consumption @ 100 psig (scfm)	35
Air Consumption @ 100 psig (l/min)	991
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



7370BSP: Vortex A/C (5000 BTU/h)

Model	7370BSP
Rating	ATEX Zone 2 and 22
Thermostat Option	Mechanical
Quiet or Standard	Quiet
Cooling Capacity, BTU/hr	5000
Air Consumption @ 100 psig (scfm)	70
Air Consumption @ 100 psig (l/min)	1981
Maximum ambient temperature (deg F)	175
Maximum ambient temperature (deg C)	80
Operating noise level (dBA)	62-64
Weight (kg)	2.7-4



3 Technical data

Vortex A/C Enclosure Coolers Nema 4/4X

Model	Rating	Thermostat Option	Quiet or Standard	Cooling Capacity, BTU/hr	Air Consumption @ 100 psig (scfm)	Air Consumption @ 100 psig (l/min)
7015BSP	NEMA 4/4X	Mechanical	Quiet	900	15	425
7025BSP	NEMA 4/4X	Mechanical	Quiet	1500	25	708
7035BSP	NEMA 4/4X	Mechanical	Quiet	2500	35	991
7070BSP	NEMA 4/4X	Mechanical	Quiet	5000	70	1981

Model	Maximum ambient temperature (deg F)	Maximum ambient temperature (deg C)	Operating noise level (dBA)	Weight (kg)
7015BSP	175	80	62-64	2.7-4
7025BSP	175	80	62-64	2.7-4
7035BSP	175	80	62-64	2.7-4
7070BSP	175	80	62-64	2.7-4

Hazardous Location Duty Vortex A/C

Model	Rating	Thermostat Option	Quiet or Standard	Cooling Capacity, BTU/hr	Air Consumption @ 100 psig (scfm)	Air Consumption @ 100 psig (l/min)
7215BSP	Class 1, Div 2	Mechanical	Quiet	900	15	425
7225BSP	Class 1, Div 2	Mechanical	Quiet	1500	25	708
7235BSP	Class 1, Div 2	Mechanical	Quiet	2500	35	991
7270BSP	Class 1, Div 2	Mechanical	Quiet	5000	70	1981

Model	Maximum ambient temperature (deg F)	Maximum ambient temperature (deg C)	Operating noise level (dBA)	Weight (kg)
7215BSP	175	80	62-64	2.7-4
7225BSP	175	80	62-64	2.7-4
7235BSP	175	80	62-64	2.7-4
7270BSP	175	80	62-64	2.7-4

ATEX Vortex A/C

Model	Rating	Thermostat Option	Quiet or Standard	Cooling Capacity, BTU/hr	Air Consumption @ 100 psig (scfm)	Air Consumption @ 100 psig (l/min)
7315BSP	ATEX Zone 2 and 22	Mechanical	Quiet	900	15	425
7325BSP	ATEX Zone 2 and 22	Mechanical	Quiet	1500	25	708
7335BSP	ATEX Zone 2 and 22	Mechanical	Quiet	2500	35	991
7370BSP	ATEX Zone 2 and 22	Mechanical	Quiet	5000	70	1981

Model	Maximum ambient temperature (deg F)	Maximum ambient temperature (deg C)	Operating noise level (dBA)	Weight (kg)
7315BSP	175	80	62-64	2.7-4
7325BSP	175	80	62-64	2.7-4
7335BSP	175	80	62-64	2.7-4
7370BSP	175	80	62-64	2.7-4