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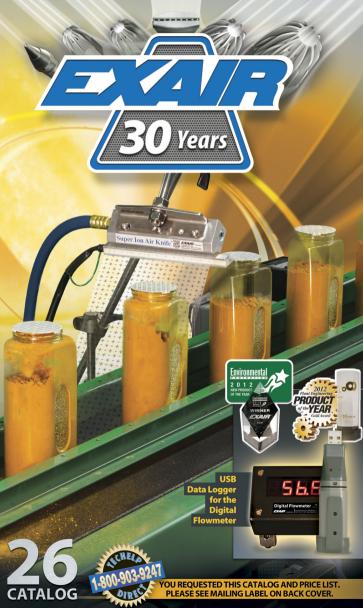




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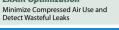
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EXAIR Optimization
Minimize Compressed Air Use an









Air Amplifiers Vent, Exhaust, Cool, Dry and Clean - with No Moving Parts



Air Nozzles and Jets Reduce Noise Levels and Air Costs on Blowoff Operations



Atomizing Nozzles All Stainless Steel Construction for **Durability and Corrosion Resistance!**



Safety Air Guns Use Engineered Air Nozzles for High Performance

Safety Air Guns

Static Eliminators Fliminate Static Flectricity.



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Cold Gun Aircoolant Systems Cool Machining Operations with Clean, Cold Air



Cabinet Cooler® Systems Cool and Purge NEMA 12, 4 and 4X Electrical Control Panels



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Per Title II, Article 7, paragraph 1, articles (products) must be registered when a substance is intended to be released under normal or reasonably foreseeable conditions of use and it is present in those articles in quantities totaling over 1 metric ton per producer or importer per year. Registration of EXAIR products is not required since they do not contain substances that are intentionally released.

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Cabinet Cooler® Systems



Cabinet Cooler® Systems

Stop electronic control downtime due to heat, dirt, and moisture!

Cabinet Coolers maintain NEMA 4, 4X, and 12 integrity. All Cabinet Coolers are and compliant!



EXAIR Cabinet Cooler Systems accurately maintain the temperature inside the enclosure.

What is an EXAIR Cabinet Cooler System?

A low cost, reliable way to cool and purge electronic control panels. EXAIR Cabinet Coolers incorporate a vortex tube to produce cold air from compressed air - with no moving parts. The compact Cabinet Cooler can be installed in minutes through a standard electrical knockout. NEMA 12, 4, and 4X Cabinet Coolers that match the NEMA rating of the enclosure are available in many cooling capacities for large and small control panels.

Why EXAIR Cabinet Cooler Systems?



The vortex tubes incorporated in the EXAIR Cabinet Coolers are constructed of stainless steel. The wear, corrosion and oxidation resistance of stainless steel assures long life and maintenance free operation. All Cabinet Coolers are UL Listed and CE compliant.



A Model 4830 NEMA 4 Cabinet Cooler cools a panel with 20°F air while keeping the inside dry.

Applications

- Programmable controllers
- · Line control cabinets
- Motor control centers
- Relay panels
- NC/CNC systems
- Modular control centers
- CCTV cameras
- Computer cabinets
- Laser housings
- Electronic scales
- Food service equipment

Advantages

- Low cost
- C-----
- Cooling capacities to 5,600 Btu/hr. (1,411 Kcal/hr.)
- Ouiet
- Install in minutes
- Maintain NEMA 12, 4 and 4X integrity (IP54 and IP66)
- Stabilize enclosure temperature and humidity
- No CFC's
- No moving parts-maintenance free
- · Mount in standard electrical knockout

- Stop nuisance tripping
- Stop heat damage
- Eliminate fans and filters
- Eliminate lost production
- Stop circuit drift
- · Stop dirt contamination
- Provide washdown protection

Special Cabinet Coolers

- High temp. models for ambients up to 200°F (93°C) available
- Type 316 stainless steel available
- Purge models for non-hazardous locations available





Compressed air enters the vortex tube powered Cabinet Cooler and is converted into two streams, one hot and one cold. (For more information on vortex tube operation, see page 138.) Hot air from the vortex tube is muffled and exhausted through the vortex tube exhaust. The cold air is discharged into the control cabinet through the cold air distribution kit. The displaced hot air in the cabinet rises and exhausts to atmosphere through the cabinet air exhaust at a slight positive pressure. Thus, the control cabinet is both cooled and purged with cool, clean air. Outside air is never allowed to enter the control panel.



A dangerous shock hazard exists when the panel door is opened to let a fan blow hot. dirty shop air at the electronics.

Selecting The Right Model

EXAIR Cabinet Cooler* Systems are available with or without thermostat. control. The continuous coolers (Model 4200 and 4700 series) are recommended when constant cooling and a constant positive purge are desirable. The thermostatically controlled systems (Model 4300 and 4800 series) save air by activating the cooler only when internal temperatures approach critical levels. The adjustable thermostat is factory set at 95°F (35°C). Thermostatic systems are recommended where heat load fluctuates and continual purge is not required.

All EXAIR Cabinet Cooler* Systems contain a 5 micron Automatic Drain Filter for the compressed air supply and a Cold Air Distribution Kit to circulate the cold air throughout the enclosure. See page 158 for details.

Heat Can Stop Your Machines

When hot weather causes the electronics inside a control cabinet to fail, there is a panic to get the machinery up and running again. There are several cooling options out there and it's important to know the facts.

A. Heat Exchangers and Heat Pipes

These have serious limitations. On hot summer days when the temperatures of the room and inside of the enclosure are about equal, there's not enough difference for effective heat exchange.

- · They fail when dust and dirt clog the filter
- · The cooling capacity is limited due to ambient conditions

B. Refrigerant Panel Air Conditioners

These coolers are prone to failure in dirty, industrial environments when dust and dirt clog the filter.

- · It takes almost a day to install
- · Vibration from machinery causes refrigerant leaks and component

C. "Plastic Box" Coolers

The "plastic box" cooler from a competitor uses an inaccurate mechanical thermostat that's designed for liquids. This thermostat has a poor ability to react quickly to changes in air temperature. It costs up to 85% more to operate than EXAIR's ETC Cabinet Cooler® System with the same SCFM rating and Btu/hr. output.

- · Electronics can overheat before it turns on
- · It runs far longer than necessary before shutting off

EXAIR Cabinet Cooler® Systems

EXAIR has a complete line of Cabinet Cooler Systems to dependably cool and purge your electrical enclosures. They convert an ordinary supply of compressed air into clean, cold 20°F air. They mount in minutes through an ordinary electrical knockout and have no moving parts to wear out. The compressed air filtration that is provided keeps water, oil and other contaminants out of the enclosure.

- · There is no room air filter to clog
- An accurate electrical thermostat control minimizes compressed air use
- All Cabinet Coolers are UL Listed to US and Canadian safety standards
- They are the only compressed air powered coolers that are CE compliant





Cabinet Cooler® System Specifications Capacity* Thermostat Sound Model # Control Level dBA Btu/hr. Kcal/hr. 4208 550 139 67** 73** 4215 1,000 252 Nο 4225 1 700 428 No 74** 74** 4230 2,000 504 No 4240 2 800 706 78** No 4250 3,400 857 Nο 75** 4260 4,000 1.007 No NFMA 4270 4 800 1.209 77** No 12 4280 5 600 1 4 1 1 79** (IP54) 4308 550 139 67** VΔc (Dust Oil 252 73** 4315 1 000 VΔc resistant) 4325 1 700 428 Yes 74** 4330 2 000 504 74** VΔc 4340 2,800 706 Yes 78** 75** 4350 3.400 857 Yes 4360 4.000 1.007 Vρς 77** 77** 4370 4,800 1,209 Yes 5.600 1.411 7Q** Yes 120 67** 4709 Nο 4715 1,000 252 73 No 4725 1.700 428 Nα ΩN 4730 2 000 504 80 No 4740 2.800 82 4750 3.400 857 84 Nα 4760 4 000 1 007 Nο 0.4 1.209 4770 4.800 Nα 84 NEMA 4 5 600 4780 1 4 1 1 Nο 85 (IP66) (Splash 4202 550 139 67** resistant) 4815 1.000 73 1,700 428 4825 Yes 80 4830 2,000 504 Yes 80 4840 2,800 706 Yes 82 4850 3 400 857 Yes 84 4860 4,000 1,007 84 4870 4 800 1,209 Yes 84 4880 5,600 1,411 Yes 85 4708SS 550 139 Nο 67** 4715SS 1,000 252 No 73 472555 1.700 428 No ΩN 4730SS 2 000 504 Nο 474055 2 800 706 No 27 4750SS 3,400 857 No 84 МΕМΑ 476055 4 000 1 007 Nο 4X 1.209 477055 4 200 No 94 (IP66) 478055 5,600 1.411 85 (Corrosion 4808SS 139 Yes 67* resistant) 481555 1 000 252 VΔc 73 (Available 4825SS 1,700 428 Yes 80 in 316SS) 4830SS 2.000 504 80 Yes 4040CC 2,800 706 82 Yes 485055 3,400 857 84 4860SS 4.000 1.007 84 Yes 487055 4 800 1 209 Voc 0.4 5,600 1,411 Yes 85

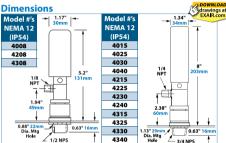
Environmental Considerations

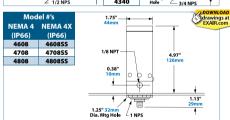
NEMA 12 (IP54) Cabinet Coolers (dust-tight, oil-tight) are ideal for general industrial environments where no liquids or corrosives are present.

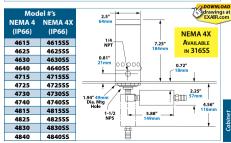
NEMA 4 (IP66) Cabinet Coolers (dust-tight, oil-tight, splash resistant, indoor/outdoor service) incorporate a low pressure relief valve for both the vortex tube and cabinet air exhaust. This valve closes and seals when the cooler is not operating. to maintain the integrity of a NEMA 4 enclosure.

NEMA 4X (IP66) Cabinet Coolers offer the same protection as NEMA 4 but are constructed of stainless steel for food service and corrosive environments.

See page 160 for a complete description of each Cabinet Cooler and Cabinet Cooler System.







*Cooling Capacity at 100 PSIG (6.9 BAR) Supply Pressure.



Sizing Guide - How To Calculate Heat Load For Your Enclosure To determine the correct model for your application, it is first necessary to determine

To determine the correct model for your application, it is first necessary to determine the **total heat load** to which the control panel is subjected. This total heat load is the combination of two factors - heat dissipated within the enclosure and heat transfer from ourside into the enclosure.

To Calculate Btu/hr.:

- 1. First, determine the approximate Watts of heat generated within the enclosure. Watts x 3.41 = Btu/hr.
- 2. Then, calculate outside heat transfer as follows:
 - a. Determine the area in square feet exposed to the air, ignoring the top of the cabinet.
 - b. Determine the temperature differential between maximum surrounding temperature and desired internal temperature. Then, using the Temperature Conversion Table (below), determine the Btu/hr./ft.² for that differential. Multiplying the cabinet surface area times Btu/hr./ft.² provides external heat transfer in Btu/hr.
- 3. Add internal and external heat loads for total heat load.

To Calculate Kcal/hr.:

- 1. First, determine the approximate Watts of heat generated within the enclosure. Watts x .86 = Kcal/hr.
- 2. Then, calculate outside heat transfer as follows:
 - a. Determine the area in square meters exposed to the air, ignoring the top of the cabinet.
 - b. Determine the temperature differential between maximum surrounding temperature and desired internal temperature. Then, using the Metric Temperature Conversion Table (below), determine the Kcal/hr./m² for that differential. Multiplying the cabinet surface area times Kcal/hr./m² provides external heat transfer in Kcal/hr.
- 3. Add internal and external heat loads for total heat load.

Temperature Conversion Table	
Temperature Differential °F	Btu/hr./ft. ²
5	1.5
10	3.3
15	5.1
20	7.1
25	9.1
30	11.3
35	13.8
40	16.2

Need Help Sizing EXAIR Cabinet Coolers?

- Fill out and fax us the "Cabinet Cooler Sizing Guide" on page 157.
 For answers NOW, call our.
- For answers NOW, call our
 Application Engineering
 Department at 1-800-903-9247.

Temperature Conversion Table (METRIC)	
Temperature Differential °C	Kcal/hr./m²
3	4.5
6	9.7
9	15.1
12	21.0
15	27.0
18	34.0
21	41.0

Example:

Internal heat dissipation: 471 Watts or 1,606 Btu/hr.

Cabinet area: 40 ft.2

Maximum outside temperature: 110°F

Desired internal temperature: 95°F

The conversion table (*above*) shows that a 15°F temperature differential inputs 5.1 Btu/hr./ft.²

40 ft.² x 5.1 Btu/hr./ft.² = 204 Btu/hr. external heat load.

Therefore, 204 Btu/hr. external heat load plus 1,606 Btu/hr. internal heat load = 1,810 Btu/hr. total heat load or Btu/hr. refrigeration required to maintain desired temperature.

In this example, the correct choice is a 2,000 Btu/hr.
Cabinet Cooler System. Choose a Cabinet Cooler model
by determining the NEMA rating of the enclosure (type of
environment), and with or without thermostat control.

Example:

Internal heat dissipation: 471 Watts or 405 Kcal/hr.

Cabinet area: 3.7m2

Maximum outside temperature: 44°C

Desired internal temperature: 35°C

The conversion table (*above*) shows that a 9°C temperature differential inputs 15.1 Kcal/hr./m².

3.7m² x 15.1 Kcal/hr./m² = 56 Kcal/hr. external heat load.
Therefore, 56 Kcal/hr. external heat load plus 405 Kcal/hr.

Therefore, 56 Kcal/hr. external heat load plus 405 Kcal/hr. internal heat load = 461 Kcal/hr. total heat load or Kcal/hr. refrigeration required to maintain desired temperature.

In this example, the correct choice is a 504 Kcal/hr.

Cabinet Cooler System. Choose a Cabinet Cooler model by determining the NEMA rating of the enclosure (type of environment), and with or without thermostat control.

EXAIR manufactures special NEMA 12 (IP54), 4 (IP66), and 4X (IP66) Cabinet Coolers suited to specific environmental requirements:

High Temperature Cabinet Coolers (*shown top right*) for ambients of 125° to 200°F (52° to 93°C) are available. Internal components can withstand high temperatures (like those near furnaces, ovens, etc.).

Non-Hazardous Purge Cabinet Cooler Systems (shown middle right) are ideal for dirty areas where contaminants might normally pass through small holes or conduits. Under normal conditions, the NHP Cabinet Cooler Systems provide a slight positive pressure in the enclosure by passing 1 SCFM (28 SLPM) of air through the cooler, when the solenoid valve is in the closed position. When the thermostat detects high temperature, it energizes the solenoid valve to pass full line pressure to the Cabinet Cooler, giving it full cooling capability.

Type 316 Stainless Steel NEMA 4X Cabinet Coolers (shown bottom right) are suitable for food service, pharmaceutical, harsh and corrosive environments, and other applications where 316SS is preferred. Capacities from 650 to 2,800 Btu/hr. (164 to 706 Kcal/hr.) are available.

EXAIR High Temperature Cabinet Coolers, Non-Hazardous Purge Cabinet Coolers and Type 316 Cabinet Coolers are now available from stock.











awards winner

- Fax Us The Facts! -

		—————Fax Us The Facts!—————	
Cabi	inet Cooler Sizing Gu	ide Use this form to fax us information about your c	
To: From:		Department, Corporation	In a hurry? For help NOW, call our Application Engineering Department at 1-800-903-9247
	Company		You can fill this
			form out online at:
		Ext.#	www.exair.com/sizing.htm
	E-mail		
I ha	ve completed the information b	oelow. I want to know which EXAIR Cabinet Cooler System is	the best choice for my control
pan	nel.	1. Height 2. Width	3. Depth
		4. External air temperature now?°F or °C	
		5. Internal air temperature now?°F or °C	
		Maximum external air temperature possible?	°F or °C
		7. Maximum internal air temperature desired?	°F or °C
	1 7 7	8. My cabinet rating is:	
	UU	NEMA 12 NEMA 4 NE	MA 4X
		Other (explain)	
		My cabinet is (check all that apply):	
		Vented - outside air circulates	Not vented - outside air does not
	w	through the enclosure	circulate through the enclosure
		Free standing	Wall mounted
		L (2-2) 2-2 2-2 (1) 4 L L L	Fan(s) Indicate diameter or SCFM
		per Is (866) 329-3924 (U.S. and Canada)	Number of fans

Cabinet Cooler® Systems



Cold Air Distribution Kit:

The kit includes a length of flexible vinyl tubing used to direct the cold air for circulation, or to hot spots. Tubing connectors and adhesive backed clips to hold the tubing in place are provided.



Systems for continuous operation include a Cabinet Cooler, cold air distribution kit and filter.

Filtration: EXAIR Cabinet Cooler Systems include a 5 micron automatic drain water and dirt filter. This filter is critical for protection of electronics from water in the compressed air line. If oil is present in the compressed air, a coalescing (oil removal) filter, such as EXAIR Model 9005 is recommended.



Systems with thermostat control include a Cabinet Cooler, thermostat, solenoid valve, cold air distribution kit and filter.

Humidity: For a continuous operating Cabinet Cooler, relative humidity inside the enclosure stabilizes at 45%. No moisture condenses inside the enclosure. (The enclosure must be sealed to prevent condensation.)

Inlet Air Temperature: Cabinet Cooler Systems provide a 50°F (10°C) temperature drop from supply air temperature when the inlet pressure is 80 PSIG (5.5 BAR). Elevated inlet temperature will produce a corresponding rise in cold air temperature and reduction in cooling capacity. Low air pressures will also reduce the cooling capacity.

Mounting: The Cabinet Cooler mounts to the enclosure through a drilled hole or electrical knockout. The NEMA 12 (IP54) Cabinet Coolers may be mounted on the top or side of the panel. NEMA 4 and 4X (IP66) Cabinet Coolers must be mounted on the top of the panel, or on the side of the panel using one of our Side Mount Kits (see page 161).



Solenoid Valve and Thermostat

Solenoid Valve and Thermostat:

Cabinet Cooler Systems with thermostat control include a solenoid valve and thermostat that limit the flow of compressed air to only when cooling is needed. The solenoid valve is rated 120V, 60Hz or 110V, 50Hz. It is UI. Listed. CSA Certified.





See page 161 for more options.

The thermostat is factory set at 95°F (35°C). It will normally hold ±2°F (1°C) inside the cabinet. It is rated 24VAC-240VAC, 50/60Hz, 24VDC

and is UL Recognized. CSA Certified.







ETC™ Electronic Temperature Control



Model 9238 - 120VAC, 50/60Hz Model 9239 - 240VAC, 50/60Hz

Setting Temperature: Membrane push

button control Power Supply Current: 165 mA max Sensor:

ETC enclosure: Temperature

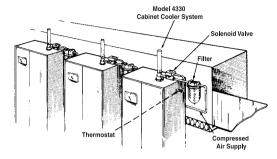
Type J Thermocouple Polycarbonate NEMA 4X, IP 66 UL508, UL94-5V

Sampling Rate: Max. Temp.: Solenoid Valve: RoHS and CE Compliant

1 Reading/second 158°F (70°C) 1/A NIDT

EXAIR's digital ETC (Electronic Temperature Control) provides precise temperature control for your electrical enclosure. It can accurately maintain a constant temperature that is slightly under the maximum rating of the electronics, permitting just enough cooling for the electronics without going so cold as to waste compressed air. The LED readout of the ETC displays the internal temperature of the electrical enclosure (°F or °C) that is constantly being monitored by a quick response thermocouple. The control activates the solenoid valve (included) when the temperature setting is exceeded. The polycarbonate plastic enclosure of the ETC is suitable for NEMA 12, 4 and 4X environments, (Cabinet Cooler not included.)

Cooling Control Panels In A Glass Plant



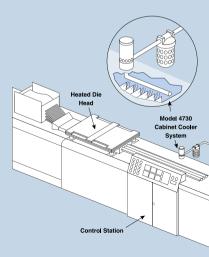
The Problem: Few companies contend with more heat-related problems than do glass manufacturers. Control panels in close proximity to molten glass are particularly susceptible. High ambient temperatures caused constant "nuisance tripping" of the circuit breakers. The "quick fix" solution -opening the panel doors -allowed dirt to enter the panels and created a potential safety hazard.

The Solution: EXAIR Model 4330 Cabinet Cooler Systems were installed on each control panel. Cold air was directed through the Cold Air Distribution Kit

over the circuit breakers. Thermostat control assured that the Cabinet Coolers would activate only when internal temperatures approached critical levels. The panel doors were closed to prevent dirt infiltration and shock hazard. Downtime was eliminated

Comment: The inherent reliability of the vortex tube operated Cabinet Cooler was the important advantage in this application. Because they have no moving parts, EXAIR Cabinet Coolers are virtually impervious to hostile environments. Glass plants, steel mills, foundries, and casting plants are just a few of the facilities benefiting from this simple, yet effective technology.

Cooling And Purging A Pultrusion Control



The Problem: In the pultrusion process, resin coated fibers are assembled by a forming guide, then drawn through a heated die. Residual heat from the die caused electronic malfunctions at the control station located immediately downstream.

The Solution: In minutes, a Model 4730 NEMA 4 (IP66) Cabinet Cooler System was installed on the control module. Its 2,000 Btu/hr. (504 Kcal/hr.) cooling capacity more than offset the additional heat load produced by the die. Heat related malfunctions and downtime were eliminated.

Comment: The ability of EXAIR's Cabinet Cooler System to maintain a slight positive pressure within the enclosure was an important additional benefit in this application. This purging feature assured that dust from the surroundings would not infiltrate the enclosure and compromise the sensitive electronic components. The Cabinet Cooler also maintained the NEMA 4 (IP66) integrity of the enclosure which was necessary for the occasional washdown of the die and surrounding surfaces.

The following Continuous Operation Systems include the NEMA 12 Cabinet Cooler, automatic drain filter and cold air distribution kit.

an distribution kit.	
Model #	Description
4208	550 Btu/hr. (139 Kcal/hr.)
4215	1,000 Btu/hr. (252 Kcal/hr.)
4225	1,700 Btu/hr. (428 Kcal/hr.)
4230	2,000 Btu/hr. (504 Kcal/hr.)
4240	2,800 Btu/hr. (706 Kcal/hr.)
4250	3,400 Btu/hr. (857 Kcal/hr.)
4260	4,000 Btu/hr. (1,007 Kcal/hr.)
4270	4,800 Btu/hr. (1,209 Kcal/hr.)
4280	5,600 Btu/hr. (1,411 Kcal/hr.)

The following Thermostat Control Systems include the NEMA 12 Cabinet Cooler, automatic drain filter, cold air distribution kit, thermostat and solenoid valve.

Model #	Description
4308	550 Btu/hr. (139 Kcal/hr.)
4315	1,000 Btu/hr. (252 Kcal/hr.)
4325	1,700 Btu/hr. (428 Kcal/hr.)
4330	2,000 Btu/hr. (504 Kcal/hr.)
4340	2,800 Btu/hr. (706 Kcal/hr.)
4350	3,400 Btu/hr. (857 Kcal/hr.)
4360	4,000 Btu/hr. (1,007 Kcal/hr.)
4370	4,800 Btu/hr. (1,209 Kcal/hr.)
4380	5,600 Btu/hr, (1,411 Kcal/hr,)



NEMA 12, 4, and 4X Cabinet Coolers are available in many cooling capacities for large and small control panels.

NEMA 4X models are available in Type 316 stainless steel.

High Temperature and Non-Hazardous Purge Cabinet Coolers are described on page 157.

24VDC and 240VAC Solenoid Valves are available.

If you have special requirements, please contact an Application Engineer.

NEMA 4 (IP66) Cabinet Cooler Systems

The following Continuous Operation Systems include the NEMA 4 Cabinet Cooler, automatic drain filter and cold air distribution kit.

Model #	Description
4708	550 Btu/hr. (139 Kcal/hr.)
4715	1,000 Btu/hr. (252 Kcal/hr.)
4725	1,700 Btu/hr. (428 Kcal/hr.)
4730	2,000 Btu/hr. (504 Kcal/hr.)
4740	2,800 Btu/hr. (706 Kcal/hr.)
4750	3,400 Btu/hr. (857 Kcal/hr.)
4760	4,000 Btu/hr. (1,007 Kcal/hr.)
4770	4,800 Btu/hr. (1,209 Kcal/hr.)
4780	5.600 Btu/hr. (1.411 Kcal/hr.)

The following Thermostat Control Systems include the NEMA 4 Cabinet Cooler, automatic drain filter, cold air distribution kit. NEMA 4/4X solenoid valve and thermostat.

Model #	Description
4808	550 Btu/hr. (139 Kcal/hr.)
4815	1,000 Btu/hr. (252 Kcal/hr.)
4825	1,700 Btu/hr. (428 Kcal/hr.)
4830	2,000 Btu/hr. (504 Kcal/hr.)
4840	2,800 Btu/hr. (706 Kcal/hr.)
4850	3,400 Btu/hr. (857 Kcal/hr.)
4860	4,000 Btu/hr. (1,007 Kcal/hr.)
4870	4,800 Btu/hr. (1,209 Kcal/hr.)
4880	5.600 Btu/hr. (1.411 Kcal/hr.)

Cabinet Cooler Only

NEMA 12 Cabinet Coolers Only

Model #	Description
4008	550 Btu/hr. (139 Kcal/hr.), 1/8 NPT
4015	1,000 Btu/hr. (252 Kcal/hr.), 1/4 NPT
4025	1,700 Btu/hr. (428 Kcal/hr.), 1/4 NPT
4030	2,000 Btu/hr. (504 Kcal/hr.), 1/4 NPT
4040	2,800 Btu/hr. (706 Kcal/hr.), 1/4 NPT
NEMA 4 Cal	ninet Coolers Only

Model #	Description
4608	550 Btu/hr. (139 Kcal/hr.), 1/8 NPT
4615	1,000 Btu/hr. (252 Kcal/hr.), 1/4 NPT
4625	1,700 Btu/hr. (428 Kcal/hr.), 1/4 NPT
4630	2,000 Btu/hr. (504 Kcal/hr.), 1/4 NPT
4640	2,800 Btu/hr. (706 Kcal/hr.), 1/4 NPT
NEMA 4X Cabinet Coolers Only	

Model # Description

	Description.
4608SS	550 Btu/hr. (139 Kcal/hr.), 1/8 NPT
4615SS	1,000 Btu/hr. (252 Kcal/hr.), 1/4 NPT
4625SS	1,700 Btu/hr. (428 Kcal/hr.), 1/4 NPT
4630SS	2,000 Btu/hr. (504 Kcal/hr.), 1/4 NPT
4640SS	2,800 Btu/hr. (706 Kcal/hr.), 1/4 NPT



NEMA 4X (IP66) Stainless Steel **Cabinet Cooler Systems**

The following Continuous Operation Systems include the NEMA 4X Cabinet Cooler, automatic drain filter and cold air distribution kit

Model #	Description			
4708SS	550 Btu/hr. (139 Kcal/hr.)			
4715SS	1,000 Btu/hr. (252 Kcal/hr.)			
4725SS	1,700 Btu/hr. (428 Kcal/hr.)			
4730SS	2,000 Btu/hr. (504 Kcal/hr.)			
4740SS	2,800 Btu/hr. (706 Kcal/hr.)			
4750SS	3,400 Btu/hr. (857 Kcal/hr.)			
4760SS	4,000 Btu/hr. (1,007 Kcal/hr.)			
4770SS	4,800 Btu/hr. (1,209 Kcal/hr.)			
4780SS	5,600 Btu/hr. (1,411 Kcal/hr.)			

The following Thermostat Control Systems include the NEMA 4X Cabinet Cooler, automatic drain filter, cold air distribution kit, NEMA 4/4X solenoid valve and thermostat.

Model #	Description
4808SS	550 Btu/hr. (139 Kcal/hr.)
4815SS	1,000 Btu/hr. (252 Kcal/hr.)
4825SS	1,700 Btu/hr. (428 Kcal/hr.)
4830SS	2,000 Btu/hr. (504 Kcal/hr.)
4840SS	2,800 Btu/hr. (706 Kcal/hr.)
4850SS	3,400 Btu/hr. (857 Kcal/hr.)
4860SS	4,000 Btu/hr. (1,007 Kcal/hr.)
4870SS	4,800 Btu/hr. (1,209 Kcal/hr.)
4880SS	5.600 Btu/hr. (1.411 Kcal/hr.)



Upgrade your **Thermostat Control System**

Upgrade your Thermostat Control System to EXAIR's ETC™ Electronic **Temperature Control** (shown on page 158)

Simply add a:

"-ETC120" (for 120V, 50/60Hz) or

"-ETC240" (for 240V, 50/60Hz) to your Thermostat Control Cabinet Cooler System model number.

Example:

Model 4330-ETC120 replaces the standard thermostat and solenoid valve with the ETC.



Dual Cabinet Cooler Systems are available with cooling capacities up to 5,600 Btu/hr. (1,411 Kcal/hr.).

	Accessories an	d Compo	nents
Model #	Description	Model #	Description
4902	Cold Muffler only	9044	Valve and Thermostat Kit (240V, 50/60Hz)
4904	Cold Air Distribution Kit (For all Cabinet Coolers except 550 Btu/hr. output)	9016	NEMA 4-4X Valve and Thermostat Kit (120V, 50/60Hz)
4905	Cold Air Distribution Kit (For Cabinet Coolers with 550 Btu/hr. output only)	9045	NEMA 4-4X Valve and Thermostat Kit (240V, 50/60Hz)
9004	Automatic Drain Filter Separator, 1/4 NPT, 43 SCFM (1,359 SLPM)	9017	Thermostat Only (24V-240V, 50/60Hz)
9027	Oil Removal Filter (For Cabinet Coolers with 550 Btu/hr. output), 1/4 NPT, 7-24 SCFM (198-680 SLPM)	9018	NEMA 4-4X Solenoid Valve Only (120V, 50/60Hz), 1/4 NPT, 40 SCFM (1,133 SLPM)
9005	Oil Removal Filter (For all Cabinet Coolers except 550 Btu/hr. output), 3/8 NPT, 15-37 SCFM (425-1,048 SLPM)	9024	NEMA 4-4X Solenoid Valve Only (240V, 50/60Hz), 1/4 NPT, 40 SCFM (1,133 SLPM)
9006	Oil Removal Filter, 3/4 NPT, 50-150 SCFM (1,415-4,248 SLPM)	9020	Solenoid Valve Only (120V, 50/60Hz), 1/4 NPT, 40 SCFM (1,133 SLPM)
9008	Pressure Regulator with Gauge, 1/4 NPT, 50 SCFM (1,415 SLPM)	9021	Solenoid Valve Only (200-240V, 50/60Hz), 1/4 NPT, 40 SCFM (1,133 SLPM)
9238	ETC - Electronic Temperature Control (120V, 50/60Hz), 1/4 NPT	9031	Solenoid Valve Only, 24VDC, 1/4 NPT, 40 SCFM (1,133 SLPM)
9239	ETC - Electronic Temperature Control (240V, 50/60Hz), 1/4 NPT	9065	Solenoid Valve Only, 24VDC, 1 NPT, 350 SCFM (9,911 SLPM)
9015	Valve and Thermostat Kit		Name

Side Mount Kits

(120V, 50/60Hz)

EXAIR's Side Mount Kits make mounting on the side of an electrical enclosure possible when there is limited space on the top or side. (NEMA 4 and 4X Cabinet Cooler Systems must be mounted vertically.) The Side Mount Kits maintain the NEMA rating of large and small NEMA Type 12, 4 and 4X enclosures. They mount in a standard electrical knockout (1-1/2 NPS). Side Mount Kits for NEMA 12 Cabinet Cooler Systems have an aluminum construction. Those for NEMA 4 and 4X Cabinet Cooler Systems are Type 303 or Type 316 stainless steel.

NEMA 12, 4 and 4X Cabinet Coolers offer convenient mounting to the side of an electrical enclosure.



Accessories and Components				
Model #	Description			
4909	Side Mount Kit for NEMA 12 Cabinet Coolers up to 550 Btu/hr. (139 Kcal/hr.)			
4910	Side Mount Kit for NEMA 12 Cabinet Coolers, 650 Btu/hr. (165 Kcal/hr.) and higher			
4906	Side Mount Kit for NEMA 4 and 4X Cabinet Coolers up to 550 Btu/hr. (139 Kcal/hr.)			
4907	Side Mount Kit for NEMA 4 and 4X Cabinet Coolers, 650 Btu/hr. (165 Kcal/hr.) and higher			
4907-316	Type 316 Stainless Steel Side Mount Kit for NEMA 4 and 4X Cabinet Coolers,			
	650 Btu/hr. (165 Kcal/hr.) and higher			

90 Degree Side Mount Kit Dimensions								
Model		Α	В	c	D	E	F	G
4005	in	2.50	2.50	1.50	3.50	3.03	1 NPS	1-1/2 NPS
4906	mm	64	64	38	89	77	I NP3	1-1/2 NP3
4007	in	2.50	2.50	1.50	3.50	3.03	1-1/2 NPS	1-1/2 NPS
4907	mm	64	64	38	89	77	1-1/2 NP3	
4909	in	2.50	2.50	1.50	2.19	1.73	1/2 NPS	1-1/2 NPS
4909	mm	64	64	38	56	44	1/2 NP3	1-1/2 NP3
4910	in	2.50	2.50	1.50	2.19	1.73	3/4 NPS	1-1/2 NPS
4910	mm	64	64	38	56	44	3/4 NP3	1-1/2 NP3



WARRANT



