

# ATEX Cabinet Cooler® Systems



**For use with classified enclosure purge and pressurization systems**

## Zones 2 and 22

- Ex II 3 G Ex h IIC T3 Gc
- Ex II 3 D Ex h IIC T200°C Dc



## What is an ATEX Cabinet Cooler System?

ATEX Cabinet Cooler Systems are engineered and approved for use upon purged electrical enclosures (not included) found within ATEX zoned areas. The areas approved are Zone 2 and 22. EXAIR's ATEX Cabinet Cooler Systems have been tested by UL and meet the stringent ATEX requirements for these areas. Cabinet Cooler systems are a low cost and reliable way to cool purged electric control panels found within these environments. They utilize vortex tube technology to produce up to 5,600 Btu/Hr, with no moving parts, which additionally creates a low maintenance solution for cooling your ATEX purged cabinets.

The compact Cabinet Cooler is an easy-to-use air conditioner that can be installed in minutes through a standard electrical knockout. Aluminum and Stainless Steel ATEX Cabinet Coolers that match the NEMA rating of the enclosure are available in many cooling capacities for large and small control panels.

## Advantages

- Rated for Zones 2 and 22
- Available in 8 different cooling capacities
- No moving parts, low maintenance
- Thermostat control reduces operating cost
- Large range of cooling capacities up to 5,600 Btu/hr
- 5 Year warranty
- Low cost

## Why EXAIR ATEX Cabinet Coolers?

EXAIR's ATEX Cabinet Cooler Systems have been set apart from the competition by being certified for Zone 2 and 22 environments. Thermostatically controlled systems are recommended for the highest efficiency and include ATEX approved solenoids, also for hazardous environments. EXAIR Cabinet Cooler Systems will install upon your purged enclosure in minutes, require little to no maintenance and operate under the toughest of industrial conditions. If you require low cost, ease of use and/or reliability – an ATEX Cabinet Cooler System will meet your needs.

EXAIR ATEX Cabinet Cooler Systems are available in 8 different cooling capacities from 1,000 Btu/hr. to 5,600 Btu/hr. This range of cooling allows for choosing the best fit for your cooling needs without wasting compressed air.

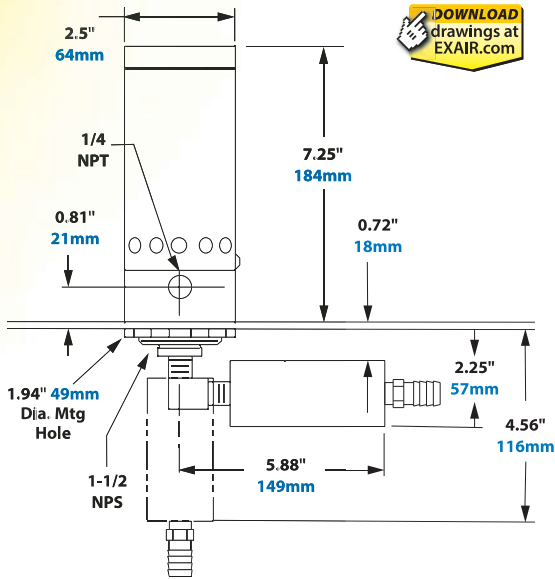
Cabinet Cooler Systems protect your electronics from heat, dirt and moisture and keep your processes running. They are the low-cost solution to messy, high maintenance coolant-based air conditioners with simple installation. With modern technology comes an increased number of small electronic components packed into smaller electronic cabinets. This creates a high internal heat load which increases failures due to heat. Components will fail, sensors will misread, controls can drift and displays become inaccurate. EXAIR ATEX Cabinet Coolers can solve these problems and prevent lost productivity, shutdown and the expense of new components.

## Thermostat Control

Each EXAIR ATEX Cabinet Cooler System is available with a thermostat control or as a continuous operation system. Each of these systems will include a water-dirt filter separator to prevent water condensate and dirt from entering your enclosure and cold air distribution kit used to direct the air for circulation and onto hot spots. ATEX

Cabinet Cooler Systems are also available in Type 303 and Type 316SS for highly corrosive environments.

Any control systems and accessories not rated for the ATEX zone need to be moved outside of the ATEX zone or inside a properly purged and pressurized enclosure which is suitable for the ATEX zone.



## Safety

EXAIR's ATEX Cabinet Cooler Systems are not purged and pressurized control systems and should not be relied upon nor used in place of a purged and pressurized controller. They are meant for use in conjunction with a purged and pressurized control system.

| Model # s Aluminum |          |
|--------------------|----------|
| ATEX4615           | ATEX4730 |
| ATEX4625           | ATEX4740 |
| ATEX4630           | ATEX4815 |
| ATEX4640           | ATEX4825 |
| ATEX4715           | ATEX4830 |
| ATEX4725           | ATEX4840 |

| Model # s St. Steel |            |
|---------------------|------------|
| ATEX4615SS          | ATEX4730SS |
| ATEX4625SS          | ATEX4740SS |
| ATEX4630SS          | ATEX4815SS |
| ATEX4640SS          | ATEX4825SS |
| ATEX4715SS          | ATEX4830SS |
| ATEX4725SS          | ATEX4840SS |



EXAIR ATEX Cabinet Coolers are suitable for explosive and harsh environments.

## Aluminum ATEX Cabinet Cooler Systems (maintain NEMA 4 integrity)

| Cabinet Cooler Only Model # | Continuous Operation Model # | 120V                       |                            | 240V                       |                            | 24VDC                      |                            | Capacity* |       | Sound level dBA |
|-----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------|-------|-----------------|
|                             |                              | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Btu/Hr    | Watts |                 |
| ATEX4615                    | ATEX4715                     | ATEX4815                   | ATEX4815-240               | ATEX4815-24VDC             | ATEX4815-24VDC             | ATEX4815-24VDC             | ATEX4815-24VDC             | 1,000     | 293   | 73              |
| ATEX4625                    | ATEX4725                     | ATEX4825                   | ATEX4825-240               | ATEX4825-24VDC             | ATEX4825-24VDC             | ATEX4825-24VDC             | ATEX4825-24VDC             | 1,700     | 498   | 80              |
| ATEX4630                    | ATEX4730                     | ATEX4830                   | ATEX4830-240               | ATEX4830-24VDC             | ATEX4830-24VDC             | ATEX4830-24VDC             | ATEX4830-24VDC             | 2,000     | 586   | 80              |
| ATEX4640                    | ATEX4740                     | ATEX4840                   | ATEX4840-240               | ATEX4840-24VDC             | ATEX4840-24VDC             | ATEX4840-24VDC             | ATEX4840-24VDC             | 2,800     | 821   | 82              |
| N/A                         | ATEX4750                     | ATEX4850                   | ATEX4850-240               | ATEX4850-24VDC             | ATEX4850-24VDC             | ATEX4850-24VDC             | ATEX4850-24VDC             | 3,400     | 997   | 84              |
| N/A                         | ATEX4770                     | ATEX4860                   | ATEX4860-240               | ATEX4860-24VDC             | ATEX4860-24VDC             | ATEX4860-24VDC             | ATEX4860-24VDC             | 4,000     | 1,171 | 84              |
| N/A                         | ATEX4770                     | ATEX4870                   | ATEX4870-240               | ATEX4870-24VDC             | ATEX4870-24VDC             | ATEX4870-24VDC             | ATEX4870-24VDC             | 4,800     | 1,406 | 84              |
| N/A                         | ATEX4780                     | ATEX4880                   | ATEX4880-240               | ATEX4880-24VDC             | ATEX4880-24VDC             | ATEX4880-24VDC             | ATEX4880-24VDC             | 5,600     | 1,641 | 85              |

## Stainless Steel ATEX Cabinet Cooler Systems (maintain NEMA 4X integrity)

| Cabinet Cooler Only Model # | Continuous Operation Model # | 120V                       |                            | 240V                       |                            | 24VDC                      |                            | Capacity* |       | Sound level dBA |
|-----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------|-------|-----------------|
|                             |                              | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Thermostat Control Model # | Btu/Hr    | Watts |                 |
| ATEX4615SS                  | ATEX4715SS                   | ATEX4815SS                 | ATEX4815SS-240             | ATEX4815SS-24VDC           | ATEX4815SS-24VDC           | ATEX4815SS-24VDC           | ATEX4815SS-24VDC           | 1,000     | 293   | 73              |
| ATEX4625SS                  | ATEX4725SS                   | ATEX4825SS                 | ATEX4825SS-240             | ATEX4825SS-24VDC           | ATEX4825SS-24VDC           | ATEX4825SS-24VDC           | ATEX4825SS-24VDC           | 1,700     | 498   | 80              |
| ATEX4630SS                  | ATEX4730SS                   | ATEX4830SS                 | ATEX4830SS-240             | ATEX4830SS-24VDC           | ATEX4830SS-24VDC           | ATEX4830SS-24VDC           | ATEX4830SS-24VDC           | 2,000     | 586   | 80              |
| ATEX4640SS                  | ATEX4740SS                   | ATEX4840SS                 | ATEX4840SS-240             | ATEX4840SS-24VDC           | ATEX4840SS-24VDC           | ATEX4840SS-24VDC           | ATEX4840SS-24VDC           | 2,800     | 821   | 82              |
| N/A                         | ATEX4750SS                   | ATEX4850SS                 | ATEX4850SS-240             | ATEX4850SS-24VDC           | ATEX4850SS-24VDC           | ATEX4850SS-24VDC           | ATEX4850SS-24VDC           | 3,400     | 997   | 84              |
| N/A                         | ATEX4760SS                   | ATEX4860SS                 | ATEX4860SS-240             | ATEX4860SS-24VDC           | ATEX4860SS-24VDC           | ATEX4860SS-24VDC           | ATEX4860SS-24VDC           | 4,000     | 1,171 | 84              |
| N/A                         | ATEX4770SS                   | ATEX4870SS                 | ATEX4870SS-240             | ATEX4870SS-24VDC           | ATEX4870SS-24VDC           | ATEX4870SS-24VDC           | ATEX4870SS-24VDC           | 4,800     | 1,406 | 84              |
| N/A                         | ATEX4780SS                   | ATEX4880SS                 | ATEX4880SS-240             | ATEX4880SS-24VDC           | ATEX4880SS-24VDC           | ATEX4880SS-24VDC           | ATEX4880SS-24VDC           | 5,600     | 1,641 | 85              |

\*Cooling capacity at 100 PSIG (6.9 BAR) supply pressure.

| Accessories and Components |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| Model #                    | Description                                                                      |
| 902380                     | ATEX Solenoid, IP65, 1/4 NPT, 120V/60HZ                                          |
| 902381                     | ATEX Solenoid, IP65, 1/4 NPT, 240V/60HZ                                          |
| 902382                     | ATEX Solenoid, IP65, 1/4 NPT, 24VDC                                              |
| 9017                       | Thermostat only 24V-240V, 50/60 Hz                                               |
| 9001                       | Automatic Drain Filter Separator, 1/4 NPT, 65 SCFM (1,841 SLPM)                  |
| 9004                       | Automatic Drain Filter Separator, 1/4 NPT, 43 SCFM (1,359 SLPM)                  |
| 9032                       | Automatic Drain Filter Separator, 1/2 NPT, 90 SCFM (2,549 SLPM)                  |
| 9027                       | Oil Removal Filter for all ATEX Systems, 7-24 SCFM (198-680 SLPM), 1/4 NPT       |
| 9005                       | Oil Removal Filter for all ATEX Systems, 15-37 SCFM (425-1,048 SLPM), 3/8 NPT    |
| 9006                       | Oil Removal Filter for all ATEX Systems, 50-150 SCFM (1,416-4,248 SLPM), 3/4 NPT |