



ARE YOU PROVIDING SUFFICIENT COOLING FOR YOUR PANEL / ENCLOSURE?

We highly recommend making use of our Panel Cooling Solutions when purchasing any of the ATI Systems panels/enclosures.

Why make use of Panel Cooling (Cooling Electronics)?

Electronics running at a cool constant temperature assures plant availability and increases profit.

Factors affecting plant availability

- As electronics performance and wattage increases over the years, so do heat. Heat ruins electronics.
- Electronics need to run at a cool constant temperature in order to allow for optimal plant availability.
- Sufficient cooling extends the life of electronics.
- Too high temperatures void manufacturers' warranties and reduce the life expectancy of electronics.
- In case of closed loop cooling, contaminants are kept outside the panel.

When should I make use of panel cooling and what form of cooling should be used?

Air Conditioners should be used when,

1. The temperature inside the cabinet need to be cooler than the temperature outside of the cabinet and/or humidity control is desired inside the cabinet.
2. The air surrounding the cabinet is loaded with contaminants like dust, saturated oils and corrosive elements.

Heat Exchangers should be used when,

1. The enclosure housing the electronics is situated in an air-conditioned environment.
2. The air surrounding the cabinet is loaded with contaminants like dust, saturated oils and corrosive elements.

Filter Fans should be used when,

1. The temperature inside the cabinet is slightly higher than the temperature outside the cabinet.
2. The air surrounding the cabinet is suitable for the application.

Water-Cooled Air Conditioners should be used when,

1. The air surrounding the cabinet is very hot or loaded with contaminants.
2. Chilled water is available near the equipment.
3. Heat from the air conditioner condenser coil cannot be dissipated nearby the electronics cabinet.

Vortex Compressed Air Conditioners should be used when,

1. The air surrounding the cabinet is very hot, dirty or too corrosive to cool the electronics.
2. Compressed air is available near the equipment.
3. A normal air conditioner may not fit the space available.
4. A modest level of cooling is required (up to 2500 BTUs or 735 Watts per hour).

Industrial Cooling



GHV



GHF



TB

Filter fans including: Fan Grill Kit, Filter Matt, Mounting Templates, Seal

The unit allows a simple and cost effective solution for enclosure cooling. Designed for easy clip on mounting and made out of high resistance self extinguishing ABS UL94VO grade(RAL7035) they cover an air flow rate from 35m³/hr to 1100 m³/hr. They provide an IP54 protection degree. All the fans are mounted on ball bearings with MTBF of 40000 hours.

Part No.	Voltage	Size (H x W x D)	Air flow m/h
GHV1500220	230	152x152x89	67
GHV1500203	115	152x152x89	67
GHV2500220	230	250x250x134.4	190
GHV2500203	115	250x250x134.4	190
GHV2501203	115	250x250x110.5	370
GHV3000220	230	318x318x153.5	500
GHV3000203	115	318x318x153.5	500
GHV30P2220	230	318X318X163	990

Grill kit - Includes Grill Kit, Filter Mat, Mounting Templates, Seal

Part No.	Size (H x W x D)
GHF 15	152x152X50
GHF 25	250x250x55
GHF 30	318x318x42

Roof mounted Exhaust Fans - includes: Fan and Seal

The exhaust fan unit of the TB series together with the filter units GHF allows a simple and cost effective solution to enclosure cooling with high air flow rates. Designed for mounting on enclosure roof, made out of epoxy painted steel frame and equipped with high efficiency radial fans, they cover an air flow rate range from 575 m³/h to 2365 m³/h. They provide an IP44.

Part No.	Voltage	Size (H x W x D)	Air flow m/h
TB19000220	230	108x460x380	575
TB19000222	115	108x460x380	575
TB22000220	230	108x460x380	860
TB22000222	115	108x460x380	860
TB25000220	230	160x540x400	1450
TB35000220	230	300x600x550	2365

All **bold** items in stock.

Industrial Cooling

Extra slim indoor wall mounted air conditioners

- * Extra Slim door air conditioners suitable for door mounting
- * Designed for total recessed mounting
- * Self cleaning condenser
- * 3 Sizes
- * Cooling capacity 850-3000W
- * Digital thermostat EBB
- * Quick connections



EVE SLIM

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
EVE08A32206000	230	2	950 x 370 x 182	32	850
EVE11A32206000	230	2.8	1657 X 445 X 182	47	1050
EVE14A32206000	230	5	1657 X 445 X 182	50	1400
EVE20A32206000	230	5.5	1657 X 445 X 182	50	2000
EVE25A32206000	230	7.1	1664 X 492 X 223	75	2500
EVE30A32206000	230	8.5	1664 X 492 X 223	84	3000

All **bold** items in stock.

Industrial Cooling



CVE

Protherm side mounted panel air conditioners indoor range

Specifically developed for mounting on the wall or door of electronic enclosures. These air conditioners cover a cooling capacity range from 330W to 4000W. Most models are equipped with condensate dissipater (From EVE11)

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
CVE0300220	230	1.4	443x324x206	17	360
CVE05002208000	230	1.5	642x313x223	23	550
CVE08002208000	230	2.6	642x313x223	27	850
CVE11002208000	230	3.1	912x410x248	44	1100
CVE15002208000	230	3.9	912x410x248	46	1500
CVE20002208000	230	4.8	1005x409x263	48	2100
CVE30002208000	230	5.0	1217x511x347	75	3000
CVE40002208000	230	8.2	1217x511x347	80	4000



ETE

Protherm top mounted panel air conditioners indoor range

Specifically developed for mounting on the top of electronic enclosures. These air conditioners cover a cooling capacity range from 330W to 5200W. Most models are equipped with condensate dissipater and triple condensate protection system (from ETE09). The standard control is electromechanical, and as option an electronic system is available (EBB).

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
ETE0300220	230	1.4	180x476x324	17	330
ETE06012207000	230	2.2	335x600x325	29.5	600
ETE09012207000	230	3.2	335x600x325	31.5	900
ETE14002207000	230	5.2	450x600x400	48	1400
ETE20002207000	230	5.7	450x600x400	51.5	2000
ETE28002207000	230	7	480x800x450	74.5	2700
ETE41002207000	230	9	480x800x450	76.5	3800

All **bold** items in stock.

Common to all models is the self-cleaning, maintenance free condenser coil.

Industrial Cooling

Outdoor Air Conditioners

Technical features

- * Outdoor Air Conditioners for external mounting
- * Internal / external installation version
- * 3 sizes
- * Cooling Capacity 850-4000 W
- * Maintenance Free Air Conditioner - Self cleaning condenser



CVO

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
CV008002208000	230	2.6	634x314x235	27	850
CV015002208000	230	3.9	906x410x272	46	1500
CV020002208000	230	4.8	996x409x286	48	2100
CV040002208000	230	8.2	1211x511x356	80	4000

Industrial Cooling

Rack-ERE Panel Air conditioners

Technical features

- * Heat Exchanger Air/Air or Air/Water
- * Suitable to cool Rack 19"
- * Cooling Capacity 950W (Air/Air); 1500 or 2500W (Air/Water)
- * 7 rack unit - Air/Air version
- * 4 or 6 rack unit - Air/Water version
- * Power supply through PC plug

Specifically developed for mounting on a 19" rack Rack-ERE has a cooling output of 950 W. It uses a "selfcleaning" condenser coil which removes the necessity of the air-filter, avoiding the ordinary maintenance. The standard control is electromechanical. The power supply is through a PC plug.



ERE

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
ERE1000320	230	3	311 (7U)x482,6x579,5	36	950

Module side-mounted High Capacity Panel Air conditioners

The units are the best technical and cost effective solutions for cooling long arrays of enclosures where large cooling capacities are required. The cooling capacity is from 5800 W to 10 000 W. They are built into enclosure modules 600 mm and 800 mm deep. The units are mounted on the side of the enclosure air inlet can be on the side or on the top of the enclosure when an external top duct is provided. The standard control is electronic.



EVE

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
EVE60002606000	400-3-50/60	5.8	2000x600x383	100	5800
EVE80002606000	400-3-50/60	7	2000x800x383	110	8000
EVEA0002616000	400-3-50/60	7	2000x800x383	150	10000



EVE

Battery Coolers

Technical features

- * Designed for the air conditioning of the battery banks
- * EVE04 indoor / EVO04 outdoor
- * Cooling capacity L35L35 400W
- * Power supply 48 VDC
- * EVE04 Digital Thermostat / EVO04 Mechanical Thermostat



Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
EVE04002126000	48 Vdc	6.2	634x308x221	23	400
EVO0400212	48 Vdc	6.2	634x308x221	26	400

All **bold** items in stock.

Industrial Cooling - ATEX Rated

Explosion proof Air Conditioners

They are specifically designed to cool switchgear or analysis cabinets in Hazardous areas. All electromechanical components are certified ATEX, Zone II type Eex-d B or C. The standard housing is made with AISI304 stainless steel, and upon request AISI316. As options is available an Eex-d commandbox to control the air conditioner. Upon request other power supplies or temperature classes are available.



EVE



EVE

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Cooling Capacity Watts
EVE08EX200	230	5.9	1200x500x400	100	800
EVE20EX200	230	11.8	2000x800x550	190	2000
EVE41EX207	400	6.7	2000x800x550	190	4000
EVE60EX207	400	8.4	2000x800x550	200	5800

Industrial Cooling

Heat Exchangers

The air to water heat exchanger of the EXW series are the best solution when refrigerated water or water from a cooling tower is available. Cooling capacities from 870 W to 25000 W. Eight models for wall or door mounting and one for roof mounting the EXW series is the most complete range of solution. The unit from 12500 W are build into enclosure modules for installation on the side of enclosures arrays. There are versions for most common power supplies. The wall mounting units can be installed internally or externally with no need for mounting accessories. All units are equipped with the patented system for recovery and evacuation of condensate. The protection degree rating is IP 55 making EXW series the best approach when the enclosures are in aggressive ambient air.



EXW



EXW



EXW

Part No.	Voltage	Amps	Size (H x W x D)	Weight kg	Water Flow l/h	Water pressure drop kPa	Cooling Capacity Watts
EXW0600220	230	0.21	404x308x114	9	150	2	870
EXW1500220	230	0.36	925x400x205	20	150	30	2200
EXW2500220	230	0.38	925x400x205	21	500	63	3100
EXW5000220	230	0.95	1101x501x300	39	860	40	6700
EXWA000220	230	2.15	2000x800x400	90	1440	90	12500
EXWA001220	230	4x.32	1650x800x250	80	1800	110	12500
EXWA500220	230	0.78	2000x800x600	90	2520	121	17500
EXWB000220	230	1.56	2000x800x600	95	1800	65	25000

TOP MOUNTED

EXW15H0220	230	0.36	200x800x400	30	150	30	2200
EXW50H0220	230	0.95	255x905x509	39	860	30	6700

Liquid and Oil Chillers



Part No.	Type	Voltage	Flow L/min	Cooling Capacity Watts
WLA14	Liquid	230	3.1	1100
WLA20	Liquid	230	5.7	1900
WLA28	Liquid	230	7.1	2500
WLA41	Liquid	230	10	3500
WLA45	Liquid	230	13	4200
WLAB8	Liquid	400	84	29000
WLAC2	Liquid	400	92	32000
WLAC8	Liquid	400	120	41000
WLAD8	Liquid	400	147	51000
WLAG2	Liquid	400	200	72000
WLAH8	Liquid	400	260	90500
WLAJO	Liquid	400	270	96000
WLALO	Liquid	400	320	112000
WLAM7	Liquid	400	370	130000

Part No.	Type	Voltage	Flow L/min	Cooling Capacity Watts
WRA20	Liquid	230	5	1900
WRA35	Liquid	230	10	3600
WRA45	Liquid	230	14	4700
WRA58	Liquid	400	16	5600
WRA70	Liquid	400	21	7400
WRA85	Liquid	400	26	9000
WRA95	Liquid	400	30	10300
WRAA3	Liquid	400	37	12900
WRAA6	Liquid	400	45	16000
WRAA8	Liquid	400	54	18900
WRAB4	Liquid	400	70	24100
WRAB8	Liquid	400	84	29300
WRAC2	Liquid	400	92	33000
WRAC8	Liquid	400	120	41200
WRAD8	Liquid	400	147	51000
WRAH3	Liquid	400	238	83000
WRAJO	Liquid	400	284	99000
WRALO	Liquid	400	320	111000
WRAM7	Liquid	400	395	137000
WRAP5	Liquid	400	473	165000
WRATO	Liquid	400	570	199000



Industrial Cooling



Part No.	Type	Voltage	Flow m3/h	Cooling Capacity Watts
ORA20	Oil	230	1200	2100
ORA34	Oil	400	1800	3400
ORA43	Oil	400	1800	4300
ORA58	Oil	400	4100	5800
ORA70	Oil	400	4100	7000
ORA95	Oil	400	8000	10000
ORAA3	Oil	400	8000	13000
ORAA6	Oil	400	8000	16000



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