Thermal Edge Inc.

TEMPERATURE CONTROL SOLUTIONS FOR ELECTRICAL ENCLOSURES

UL Listed Enclosure Air Conditioners

Efficient and economical cooling from 1,000 to 20,000 BTUH

Engineered and manufactured to endure the most difficult of environments and applications. Thermal Edge air conditioners will exceed environmental requirements in applications like Steel, Food Processing, Petro-Chemical, Cement, Paper and Pulp and Plastics. All products are available in UL types 12, 4 and 4X. Hazardous locations options are available.

Condensate Evaporation Package

Drip-free condensation removal is not an option, it is standard on every air conditioner. No drain tube is needed.

Programmable Digital Controller

Programmable set point and temperature controls, visible error and/or alarm messaging, and system protection.

Energy Efficient Operation

Thermal Expansion Valves balance the refrigerant flow to maximize efficiency over a wide temperature and load range

5 YEARS

Industry Leading 5-Year Warranty

Thermal Edge products are warranted to be free of defects in workmanship, materials and components

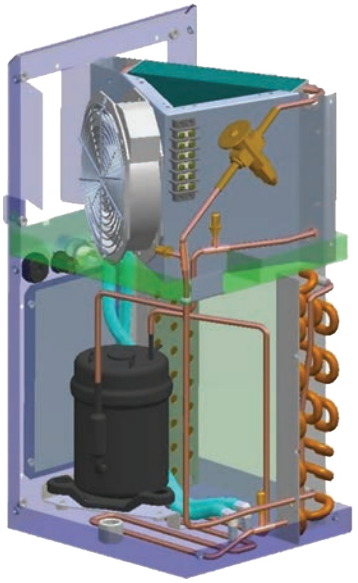
Thermal Edge Inc.™

What Makes an Air Conditioner a Thermal Edge Air Conditioner?

There are three critical features that make a Thermal Edge Enclosure Air Conditioner different from any other line of air conditioners. **Standard on Every Unit:**

Drip-free Condensate Removal is Not Optional

Water is the by-product of every air conditioner. At Thermal Edge we understand that a puddle next to your sensitive electronic enclosure may be a problem. We eliminate this messy problem by changing the troublesome water back into a vapor and venting it out of your way. That means no puddles, stains or mess near your electrical enclosure, control system or production line. In addition, our condensate evaporation system precools the refrigerant which lowers the running amps and thus lowers your energy usage.



Condensate Evaporation Is Standard On Every Unit... **No Drain Tube is Needed**

Thermal Expansion Valve Controls the Flow

Thermal Expansion Valves balance and modulate the refrigerant flow to the heat load by sensing the temperature of the refrigerant leaving the evaporator.

With Thermal Edge, You Have a Smarter Enclosure Air Conditioner

Digital, Programmable Controller:

- Fully programmable
- Built in alarms and alerts
- Will operate heating & cooling
- Standard on every air conditioner
- Ethernet, Modbus RTU and Ethernet/IP communication options
- Remote controller option places controller inside cabinet

CS Series Air Conditioners

- Industry leading 5-Year Workmanship Warranty
- Smallest 2000 BTUH available
- Active Condensate Evaporation is standard
- Fits on a 7” or 10” deep enclosure
- Available in UL Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 115V, 230V, 48VDC in 1000 BTUH

- 1000 BTUH
- 2000 BTUH

NE Series Air Conditioners

- Industry leading 5-Year Workmanship Warranty
- Active Condensate Evaporation is standard
- Fits on a 12” deep enclosure
- Available in UL Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 115V, 230V, 460V, 48VDC in 4000 BTUH

- 1000 BTUH
- 1500 BTUH
- 2000 BTUH
- 3000 BTUH
- 4000 BTUH
- 5000 BTUH
- 6000 BTUH
- 8000 BTUH

TM Series Air Conditioners

- Industry leading 5-Year Workmanship Warranty
- Top Mounted Enclosure Air Conditioners
- Active Condensate Evaporation is standard
- Available in UL Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 115V, 230V, 460V

- 6000 BTUH
- 8000 BTUH

HC Series Air Conditioners

- Industry leading 5-Year Workmanship Warranty
- Active Condensate Evaporation is standard
- Available in UL Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 115V, 230V, 460V

- 10,000 BTUH
- 12,000 BTUH
- 15,000 BTUH
- 20,000 BTUH

1800 Hurd Drive, Irving, Texas 75038

Thermal Edge Inc.™

AIR CONDITIONER PRODUCT LINE

Model	BTU/Hour	Voltage/ Phase/Hz	Running Amps	Maximum Ambient Temp	Maximum Integrated Heat (Watts)	H x W x D	Unit Weight
CS011D48	1000	48 VDC	3.5	131°F	NA	17" x 7" x 7"	31
CS011126	1000	120/1/60	2.7	131°F	350	17" x 7" x 7"	31
NE010126	1000	120/1/60	3.44	125°F	NA	22" x 11.8" x 8.5"	51
NE010236	1000	230/1/60	2.67	125°F	NA	22" x 11.8" x 8.5"	53
NE015126	1500	120/1/60	3.44	125°F	NA	22" x 11.8" x 8.5"	51
NE015236	1500	230/1/60	2.67	125°F	NA	22" x 11.8" x 8.5"	53
CS020126	2000	120/1/60	4.1	131°F	500	20" x 10" x 10"	44
CS020236	2000	230/1/60	2	131°F	500	20" x 10" x 10"	49
NE020D48	4000	48 VDC	5.7	131°F	NA	35.27" x 11.8" x 9.5"	103
NE020126	2000	120/1/60	3.3	134°F	1000	32" x 11.8" x 9.5"	60
NE020236	2000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	72
NE02S486	2000	480/1/60	0.87	134°F	1000	32" x 11.8" x 15.1"	94
NE020486	2000	480/1/60	0.87	134°F	1000	38'' x 11.8'' x 9.5''	94
NE030D48	4000	48 VDC	8.7	131°F	NA	35.27" x 11.8" x 9.5"	103
NE030126	3000	120/1/60	4.86	140°F	1000	32" x 11.8" x 9.5"	70
NE030236	3000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	72
NE03S486	3000	480/1/60	1.28	140°F	1000	32" x 11.8" x 15.1"	103
NE030486	3000	480/1/60	1.28	140°F	1000	38'' x 11.8'' x 9.5''	103
NE040D48	4000	48 VDC	17.5	131°F	NA	35.27" x 11.8" x 9.5"	103
NE040126	4000	120/1/60	6.76	125°F	1000	32" x 11.8" x 9.5"	70
NE040236	4000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	72
NE04S486	4000	480/1/60	1.69	125°F	1000	32" x 11.8" x 15.1"	103
NE040486	4000	480/1/60	1.69	125°F	1000	38'' x 11.8'' x 9.5''	103
NE050126	5000	120/1/60	6.14	140°F	1000	36" x 11.8" x 15.1"	97
NE050236	5000	230/1/60	3.76	140°F	1000	36" x 11.8" x 15.1"	92
NE050486	5000	480/1/60	1.9	140°F	1000	44.63" x 11.8" x 15.1"	136
NE060126	6000	120/1/60	7.83	125°F	1000	36" x 11.8" x 15.1"	97
NE060236	6000	230/1/60	4.8	125°F	1000	36" x 11.8" x 15.1"	98
NE060486	6000	480/1/60	2.4	125°F	1000	44.63" x 11.8" x 15.1"	142
TM061126	6000	120/1/60	10.6	131°F	1000	15.6" x 26.3" x 20.2"	111
TM061236	6000	230/1/60	6	131°F	1000	15.6" x 26.3" x 20.2"	111
TM061486	6000	480/1/60	2.9	131°F	1000	15.6" x 26.3" x 20.2"	154
NE080126	8000	120/1/60	7.83	125°F	1000	36" x 11.8" x 15.1"	102
NE080236	8000	230/1/60	4.8	125°F	1000	36" x 11.8" x 15.1"	103
NE080486	8000	480/1/60	2.4	125°F	1000	44.63" x 11.8" x 15.1"	142
TM081126	8000	120/1/60	11.6	131°F	1000	15.6" x 26.3" x 20.2"	111
TM081236	8000	230/1/60	7	131°F	1000	15.6" x 26.3" x 20.2"	111
TM081486	8000	480/1/60	3.5	131°F	1000	15.6" x 26.3" x 20.2"	154
HC101126	10000	120/1/60	19.4	131°F	1500	48" x 15.9" x 15.1"	162
HC101236	10000	230/1/60	8.2	131°F	1500	48" x 15.9" x 15.1"	166
HC101486	10000	480/1/60	4.1	131°F	1500	57.6" x 15.9" x 15.1"	232
HC121126	12000	120/1/60	19.4	131°F	1500	48" x 15.9" x 15.1"	167
HC121236	12000	230/1/60	8.2	131°F	1500	48" x 15.9" x 15.1"	163
HC121486	12000	480/1/60	4.1	131°F	1500	57.6" x 15.9" x 15.1"	237
HC151236	15000	230/1/60	9.93	140°F	1500	48" x 15.9" x 15.1"	170
HC151486	15000	480/1/60	5.21	140°F	1500	57.6" x 15.9" x 15.1"	247
HC20C236	20,000	230/1/60	12.47	140°F	1500	48" x 15.86" x 15.03"	170
HC20C486	20,000	480/1/60	6.3	140°F	1500	57.6" x 15.86" x 15.03"	247

ADVANTAGES

- Systems engineered to maintain lower running amps for higher efficiency
- Options and Accessories designed to solve critical applications such as Corrosive or Hazardous Environments
- Customer Service Reps answering your calls
- A website that is easy to navigate AND solutions that are easy to find
- Equipment tested to perform and built to last
- Units designed with our customers' applications and environments in mind

NO WATER DRIPS FROM THERMAL EDGE ENCLOSURE AIR CONDITIONERS

MADE IN AMERICA MATTERS...

(972) 580-0200

www.thermaledge.com • thermalinfo@thermaledge.com

Thermal Edge Inc.™

AIR CONDITIONER OPTIONS

- Electrostatic Coil Coating to protect from corrosion caused by a salt or chemical environment
- Integrated Heat Packages to provide total temperature control for your enclosure, not just from the heat of summer but from the cold of winter
- Dry Contact Options to allow the use of alarms, lights and notifications
- External Heat Control to support use of an externally mounted heater in the enclosure
- 316 Stainless Steel for applications where 304 is not suitable
- Hazardous Location for Class I, Division 2 Groups A, B, C & D applications, some models are ATEX zone 2
- Vibration Package allows for enclosure cooling on cranes, moving vehicles or other difficult locations
- 2" Deep Extended Filter Media for applications like flour, cement or coal when a standard filter will load too quickly
- Remote Controller Option to place our digital controller inside the electrical enclosure when the environment requires more security
- Redundant System Package for critical applications, when enclosure cooler failure is not an option. This system operates two air conditioners with specially programmed controllers that toggle the two units to operate them alternately to guarantee that your enclosure always stays at its required temperature and provide automatic backup
- The Universal Mounting Plate allows mounting the Thermal Edge Enclosure Air Conditioner onto an enclosure that formerly held a different air conditioner model

Compact Series

1,000 - 2,000 BTUH
Fits 7-10" deep enclosure

Narrow Edge Series

1,000 - 8,000 BTUH
Fits 12" deep enclosure

High Capacity Series

10,000 - 20,000 BTUH
Fits 16" deep enclosure

Top Mount Series

6,000 - 8,000 BTUH
Fits 21" deep enclosure

Thermal Edge Inc.™ 5-YEAR WARRANTY

Thermal Edge air conditioners can be built to operate on the voltage and frequency available wherever you need them.

CERTIFIED ISO 9001:2015 COMPANY

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Brochure #1
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