



Thermal Edge Inc.TM

TEMPERATURE CONTROL SOLUTIONS FOR ELECTRICAL ENCLOSURES

UL LISTED ENCLOSURE AIR CONDITIONERS

FULLY INTEGRATED CONDENSATE EVAPORATION PACKAGE
PROGRAMMABLE DIGITAL CONTROLLER
THERMAL EXPANSION VALVE
NARROW DESIGN TO FIT ONTO A 12" ENCLOSURE
ENERGY EFFICIENCY - LOW RUNNING AMPS



Get the Edge... Get Thermal Edge

TEMPERATURE CONTROL SOLUTIONS FOR ELECTRICAL ENCLOSURES





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 pre-cools 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**

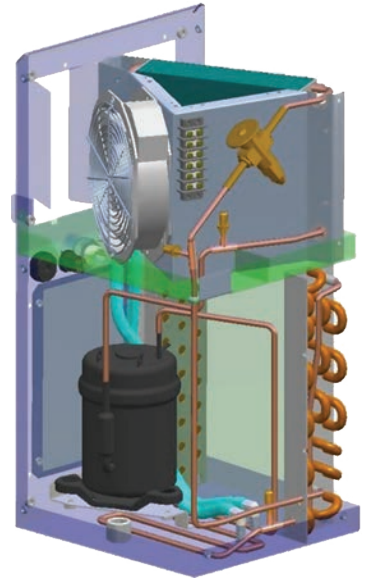
THERMAL EXPANSION VALVE CONTROLS THE FLOW

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

- Smallest 2000 BTUH available
- Active Condensate Evaporation is standard
- Fits on a 7" or 10" deep enclosure
- Available in NEMA Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 120V, 230V



- 1000 BTUH
- 2000 BTUH



NE SERIES AIR CONDITIONERS

- Active Condensate Evaporation is standard
- Fits on a 12" deep enclosure
- Available in NEMA Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 120V, 230V, 480V



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



TM SERIES AIR CONDITIONERS

- Top Mounted Enclosure Air Conditioners
- Active Condensate Evaporation is standard
- Available in NEMA Types 12, 4, 4X
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 120V, 230V, 480V



- 6000 BTUH
- 8000 BTUH



HC SERIES AIR CONDITIONERS

- Active Condensate Evaporation is standard
- Available in NEMA Types 12, 4, 4X and Hazardous Environment applications
- Fully programmable digital controller with temperature and pressure monitors for a **smarter** air conditioner
- 120V, 230V, 480V



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





AIR CONDITIONER PRODUCT LINE

Model	BTU/Hour	Voltage/ Phase/Hz	Running Amps	Maximum Ambient Temp	Maximum Integrated Heat (Watts)	H x W x D	Ship Weight
NE010126	1,000	120/1/60	2.69	125°F	NA	22" x 11.8" x 8.5"	65
NE010236	1,000	230/1/60	1.99	125°F	NA	22" x 11.8" x 8.5"	67
CS011D48	1,000	48 VDC	3.7	125°F	NA	17" x 7" x 7"	43
CS011126	1,000	120/1/60	2.7	131°F	350	17" x 7" x 7"	45
NE015126	1,500	120/1/60	3.44	125°F	NA	22" x 11.8" x 8.5"	65
NE015236	1,500	230/1/60	2.67	125°F	NA	22" x 11.8" x 8.5"	67
NE020126	2,000	120/1/60	3.76	125°F	1000	32" x 11.8" x 9.5"	79
NE020236	2,000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	86
NE020486	2,000	480/1/60	0.93	125°F	1000	38" x 11.8" x 9.5"	113
CS020126	2,000	120/1/60	3.36	131°F	500	20" x 10" x 10"	58
CS020236	2,000	230/1/60	2.0	131°F	500	20" x 10" x 10"	63
NE030126	3,000	120/1/60	5.15	125°F	1000	32" x 11.8" x 9.5"	80
NE030236	3,000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	86
NE030486	3,000	480/1/60	1.51	125°F	1000	38" x 11.8" x 9.5"	113
NE040D48	4,000	48 VDC	22.3	131°F	NA	35.27" x 11.8" x 9.5"	120
NE040126	4,000	120/1/60	5.53	125°F	1000	32" x 11.8" x 9.5"	80
NE040236	4,000	230/1/60	3.07	125°F	1000	32" x 11.8" x 9.5"	86
NE040486	4,000	480/1/60	1.51	125°F	1000	38" x 11.8" x 9.5"	113
NE050126	5,000	120/1/60	7.26	125°F	1000	36" x 11.8" x 15.1"	111
NE050236	5,000	230/1/60	3.76	125°F	1000	36" x 11.8" x 15.1"	106
NE050486	5,000	480/1/60	1.44	125°F	1000	44.63" x 11.8" x 15.1"	150
NE060126	6,000	120/1/60	7.83	125°F	1000	36" x 11.8" x 15.1"	111
NE060236	6,000	230/1/60	4.8	125°F	1000	36" x 11.8" x 15.1"	112
NE060486	6,000	480/1/60	1.8	125°F	1000	44.63" x 11.8" x 15.1"	156
TM061126	6,000	120/1/60	10.6	131°F	1000	15.6" x 26.3" x 20.2"	163
TM061236	6,000	230/1/60	6.0	131°F	1000	15.6" x 26.3" x 20.2"	163
TM061486	6,000	480/1/60	3.0	131°F	1000	15.6" x 26.3" x 20.2"	206
NE080126	8,000	120/1/60	7.83	125°F	1000	36" x 11.8" x 15.1"	117
NE080236	8,000	230/1/60	4.8	125°F	1000	36" x 11.8" x 15.1"	118
NE080486	8,000	480/1/60	1.8	125°F	1000	44.63" x 11.8" x 15.1"	156
TM081126	8,000	120/1/60	11.2	131°F	1000	15.6" x 26.3" x 20.2"	163
TM081236	8,000	230/1/60	7.0	131°F	1000	15.6" x 26.3" x 20.2"	163
TM081486	8,000	480/1/60	3.5	131°F	1000	15.6" x 26.3" x 20.2"	206
HC101126	10,000	120/1/60	19.4	131°F	1500	48" x 15.9" x 15.1"	182
HC101236	10,000	230/1/60	8.2	131°F	1500	48" x 15.9" x 15.1"	186
HC101486	10,000	480/1/60	3.93	131°F	1500	57.6" x 15.9" x 15.1"	275
HC121126	12,000	120/1/60	19.4	131°F	1500	48" x 15.9" x 15.1"	185
HC121236	12,000	230/1/60	8.2	131°F	1500	48" x 15.9" x 15.1"	183
HC121486	12,000	480/1/60	3.93	131°F	1500	57.6" x 15.9" x 15.1"	280
HC151236	15,000	230/1/60	11.3	131°F	1500	48" x 15.9" x 15.1"	190
HC151486	15,000	480/1/60	5.41	131°F	1500	57.6" x 15.9" x 15.1"	290
HC201236	20,000	230/1/60	15.3	131°F	1500	56.1" x 23" x 15"	225
HC201486	20,000	480/1/60	7.7	131°F	1500	65.7" x 23" x 15"	380

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**



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 1, Division 2 Groups B, C & D applications
- 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

AT THERMAL EDGE, WE UNDERSTAND YOUR ENVIRONMENT AND THE ISSUES THAT YOUR ENVIRONMENT CREATES FOR YOUR ELECTRICAL ENCLOSURES AND SYSTEMS. EVERYTHING WE BUILD HAS BEEN DESIGNED AND TESTED TO MEET YOUR STRICT REQUIREMENTS FOR QUALITY AND DURABILITY.

FOOD & BEVERAGE, PAPER & PULP, CHEMICAL, GAS, CEMENT OR TELECOM, THERMAL EDGE HAS A SYSTEM TO HANDLE THE PROBLEM OF CONTROLLING THE ENVIRONMENT OF YOUR SENSITIVE AND IMPORTANT OPERATING SYSTEMS.



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

USE THE ETM CALCULATOR AND PRODUCT RECOMMENDER TO FIND THE RIGHT COOLING CAPACITY AND PRODUCTS FOR YOUR APPLICATION
<http://thermal-edge.com/enclosure-temperature-management-calculator>

CONTACT US TODAY FOR TEMPERATURE CONTROL SOLUTIONS FOR YOUR ELECTRICAL ENCLOSURES

888-580-0202

EMAIL: THERMALINFO@THERMAL-EDGE.COM

All information subject to change without notice.



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