



Thermal Edge Inc.

TEMPERATURE CONTROL SOLUTIONS FOR ELECTRICAL ENCLOSURES



50 Hz Enclosure Air Conditioners



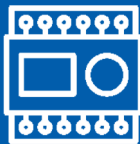
**Efficient and economical cooling
from 1,000 to 20,000 BTUH**

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 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**

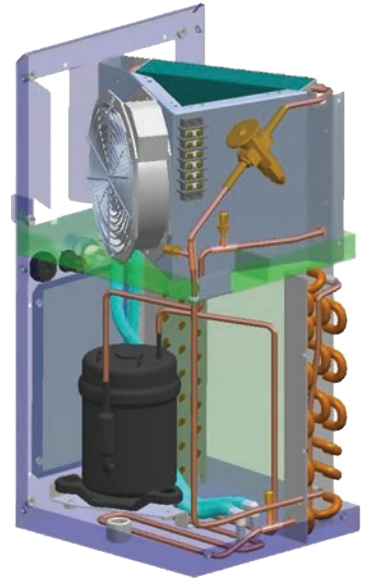
THERMAL EXPANSION VALVE CONTROLS THE FLOW

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



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.



NE SERIES AIR CONDITIONERS

- 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

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



CS SERIES AIR CONDITIONERS

- 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

- 1000 BTUH
- 2000 BTUH



HC SERIES AIR CONDITIONERS

- 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

- 8,000 BTUH
- 10,000 BTUH
- 12,000 BTUH
- 20,000 BTUH



1800 Hurd Drive, Irving, Texas 75038

50 Hz 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
CS011105	1000	100/1/50	2.7	125°F	350	17" x 7" x 7"	31
NE010105	1000	100/1/50	2.3	131°F	NA	22" x 11.8" x 8.5"	53
NE010205	1000	200/1/50	1.9	131°F	NA	22" x 11.8" x 8.5"	53
NE015105	1500	100/1/50	2.4	125°F	NA	22" x 11.8" x 8.5"	53
NE015205	1500	200/1/50	1.9	125°F	NA	22" x 11.8" x 8.5"	53
CS020235	2000	230/1/50	1.7	131°F	500	20" x 10" x 10"	49
NE020105	2000	100/1/50	5.2	125°F	1000	32" x 11.8" x 9.5"	65
NE020235	2000	230/1/50	1.7	125°F	1000	32" x 11.8" x 9.5"	65
NE020385	2000	380/1/50	1.4	125°F	1000	38" x 11.8" x 9.5"	99
NE020405	2000	400/1/50	1.3	125°F	1000	38" x 11.8" x 9.5"	99
NE020415	2000	415/1/50	1.25	125°F	1000	38" x 11.8" x 9.5"	99
NE030105	3000	100/1/50	5	125°F	1000	32" x 11.8" x 9.5"	66
NE030205	3000	200/1/50	3.07	125°F	1000	38" x 11.8" x 9.5"	99
NE030385	3000	380/1/50	1.32	125°F	1000	38" x 11.8" x 9.5"	99
NE030405	2000	400/1/50	1.28	125°F	1000	38" x 11.8" x 9.5"	99
NE030415	2000	415/1/50	1.2	125°F	1000	38" x 11.8" x 9.5"	99
NE050237	5000	230/1/50-60	4.0 / 3.1	131°F	1000	44.63" x 11.8" x 15.1"	170
NE050235	5000	230/1/50	3.4	131°F	1000	36" x 11.8" x 15.1"	136
NE050385	5000	380/1/50	2.1	131°F	1000	44.63" x 11.8" x 15.1"	136
NE050405	5000	400/1/50	1.9	131°F	1000	44.63" x 11.8" x 15.1"	136
NE050415	5000	415/1/50	1.9	131°F	1000	44.63" x 11.8" x 15.1"	136
NE060237	6000	230/1/50-60	4.2 / 3.7	131°F	1000	44.63" x 11.8" x 15.1"	170
NE060235	6000	230/1/50	4	131°F	1000	36" x 11.8" x 15.1"	98
NE060385	6000	380/1/50	2.4	131°F	1000	44.63" x 11.8" x 15.1"	142
NE060405	5000	400/1/50	2.3	131°F	1000	44.63" x 11.8" x 15.1"	142
NE060415	5000	415/1/50	2.2	131°F	1000	44.63" x 11.8" x 15.1"	156
HC080235	8000	230/1/50	7.1	125°F	1000	48" x 15.9" x 15.1"	166
HC080385	8000	380/1/50	4.3	125°F	1000	57.6" x 15.9" x 15.1"	232
HC080405	8000	400/1/50	4.1	125°F	1000	57.6" x 15.9" x 15.1"	232
HC080415	8000	415/1/50	3.8	125°F	1000	57.6" x 15.9" x 15.1"	232
HC101235	10000	230/1/50	6.4	131°F	1500	48" x 15.9" x 15.1"	166
HC101385	10000	380/1/50	3.9	131°F	1500	57.6" x 15.9" x 15.1"	232
HC101405	10000	400/1/50	3.7	131°F	1500	57.6" x 15.9" x 15.1"	232
HC101415	10000	415/1/50	3.6	131°F	1500	57.6" x 15.9" x 15.1"	232
HC121235	12000	230/1/50	8.6	131°F	1500	48" x 15.9" x 15.1"	163
HC121385	12000	380/1/50	5.2	131°F	1500	57.6" x 15.9" x 15.1"	237
HC121405	12000	400/1/50	4.9	131°F	1500	57.6" x 15.9" x 15.1"	237
HC121415	12000	415/1/50	4.8	131°F	1500	57.6" x 15.9" x 15.1"	237

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

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
- Vibration Package allows for enclosure cooling on cranes, moving vehicles or other difficult locations
- Hazardous Location for Class I, Division 2 Groups A, B, C & D applications
- 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 - 6,000 BTUH
Fits 12" deep enclosure

High Capacity Series



8,000 - 20,000 BTUH
Fits 16" deep enclosure



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

(972) 580-0200 • www.thermaledge.com • thermalinfo@thermaledge.com



Brochure #8
2023-12-14