

nVent HOFFMAN Thermoelectric Coolers



COMPRESSOR-FREE AIR CONDITIONING FOR SMALL INDOOR OR OUTDOOR ENCLOSURES

RUGGED, VERSATILE AND COMPACT

Thermoelectric coolers provide effective, reliable operation in demanding and small-space environments where conventional cooling methods are not feasible. By removing heat around critical components within an enclosure, this solution assures equipment protection by improving the lifespan and reliability of your project's electrical components.



Type 3R/4
IP65   

KEY FEATURES

- **13 standard models** with and without sheet metal shroud for enclosure integration flexibility
- **Peltier effect cooling capacities** from 60 to 200 W (nominal); (204 to 682 BTUs/Hr)
- **Broad operating temperature range** of -40 to 55° C (-40 to 131° F)
- **DC powered** operation for 24 V and 48 V applications
- **Filterless design** reduces maintenance requirements
- **Refrigerant-free**; requires no compressor

APPLICATIONS INCLUDE:

- Pole-mounted enclosures
- Telecommunication battery cabinets
- Industrial enclosures
- Security systems



Thermoelectric temperature controller



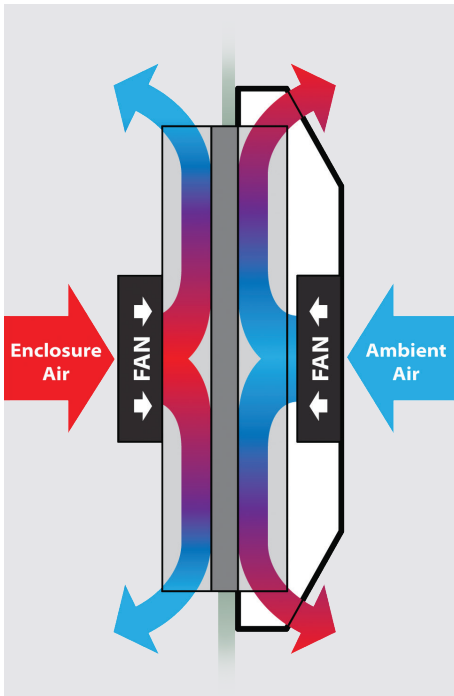
Thermoelectric condensate manager

TWO KEY OPTIONAL ACCESSORIES INCLUDE:

- **Thermoelectric temperature controller** provides PWM regulation of cooling and heating output, allowing the user to control temperatures automatically
- **Thermoelectric condensate manager** protects electronics from potential condensate buildup by discharging liquids through a vent drain that maintains Type 4 or Type 4X integrity of the enclosure

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WHAT IS THE PELTIER EFFECT?

Thermoelectric cooling is created by running electricity through two adjacent materials. The Peltier effect occurs as heat is transferred to one side of the device, effectively cooling the other side. By applying more power, more cooling is created on one side of the device and additional heat on the other, which may be dissipated or utilized for heating.

The major advantages of the thermoelectric cooler versus conventional refrigerant systems include greater mechanical simplicity with no moving parts or liquids, a smaller footprint and

less maintenance. Ideal for climate control applications in Compact spaces to maintain a consistent temperature, thermoelectric coolers provide effective, reliable operation in demanding environments.

**RELIABLE
OPERATION IN
DEMANDING AND
SMALL-SPACE
ENVIRONMENTS**

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