

# Thermoelectric Coolers Indoor/Outdoor



Thermoelectric Coolers minimize downtime and component loss by removing heat around critical components within an enclosure. These compact, low-profile coolers using the Peltier effect allow for cooling of small indoor and outdoor enclosures. No condensers, compressors or filters are required making it a reliable solution for demanding low-maintenance environments and low noise.

Operates on the Peltier effect for cooling or heating

## INDUSTRY STANDARDS

UR, cUR Recognized; Type 12, 3R, 4, 4X; File No. SA6453

CE

IP 65

## FEATURES

Operates on the Peltier effect for cooling or heating

Contains no refrigerant, making it earth friendly

Filterless design reduces maintenance requirements

Compressor-free air conditioning for demanding indoor and outdoor applications

Prewired with simple terminal block for easy wiring connections

Shrouded and unshrouded models included in standard packages

Operating temperature range -40 C (-40 F) to 55 C (131 F)

Partial recess mount

DC Powered operation for 24V and 48V applications

Low profile design allows for mounting vertically and horizontally on any enclosure to avoid interference with internal components

## SPECIFICATIONS

Table 1/3

| Catalog Number | Height | Width | Depth | Nominal Voltage | Nominal Capacity Btu/h | Nominal Capacity Watts |
|----------------|--------|-------|-------|-----------------|------------------------|------------------------|
| TE090624010    | 236mm  | 128mm | 176mm | 24V             | 178Btu/h               | 52W                    |
| TE090624011    | 236mm  | 128mm | 176mm | 24V             | 178Btu/h               | 52W                    |

| CatalogNumber | Height | Width | Depth | Nominal Voltage | Nominal Capacity Btu/h | Nominal Capacity Watts |
|---------------|--------|-------|-------|-----------------|------------------------|------------------------|
| TE090624020   | 230mm  | 123mm | 176mm | 24V             | 178Btu/h               | 52W                    |
| TE121024010   | 305mm  | 157mm | 189mm | 24V             | 321Btu/h               | 94W                    |
| TE121024011   | 305mm  | 157mm | 189mm | 24V             | 321Btu/h               | 94W                    |
| TE121024020   | 300mm  | 153mm | 188mm | 24V             | 321Btu/h               | 94W                    |
| TE121048010   | 305mm  | 157mm | 189mm | 48V             | 321Btu/h               | 94W                    |
| TE121048020   | 300mm  | 153mm | 188mm | 48V             | 321Btu/h               | 94W                    |
| TE162024010   | 405mm  | 187mm | 185mm | 24V             | 567Btu/h               | 166W                   |
| TE162024011   | 405mm  | 187mm | 185mm | 24V             | 567Btu/h               | 166W                   |
| TE162024020   | 400mm  | 180mm | 184mm | 24V             | 567Btu/h               | 166W                   |
| TE162048010   | 405mm  | 187mm | 185mm | 48V             | 567Btu/h               | 166W                   |
| TE162048020   | 400mm  | 180mm | 184mm | 48V             | 567Btu/h               | 166W                   |

| Table 2/3      |            |             |                       |                     |               |            |
|----------------|------------|-------------|-----------------------|---------------------|---------------|------------|
| Catalog Number | Voltage DC | Max Current | Operating Temperature | Material            | Finish        | Color      |
| TE090624010    | 18V        | 4.4A        | -40 to 55°C           | Mild Steel          | Powder Coated | Light Gray |
| TE090624011    | 18V        | 4.4A        | -40 to 55°C           | Stainless Steel 304 | Brushed #4    |            |
| TE090624020    | 18V        | 4.4A        | -40 to 55°C           | Aluminum            | Anodized      |            |
| TE121024010    | 18V        | 8.5A        | -40 to 55°C           | Mild Steel          | Powder Coated | Light Gray |
| TE121024011    | 18V        | 8.5A        | -40 to 55°C           | Stainless Steel 304 | Brushed #4    |            |

| CatalogNumber | Voltage DC | Max Current | Operating Temperature | Material            | Finish        | Color      |
|---------------|------------|-------------|-----------------------|---------------------|---------------|------------|
| TE121024020   | 18V        | 8.5A        | -40 to 55°C           | Aluminum            | Anodized      |            |
| TE121048010   | 40V        | 4.4A        | -40 to 55°C           | Mild Steel          | Powder Coated | Light Gray |
| TE121048020   | 40V        | 4.4A        | -40 to 55°C           | Aluminum            | Anodized      |            |
| TE162024010   | 18V        | 14.7A       | -40 to 55°C           | Mild Steel          | Powder Coated | Light Gray |
| TE162024011   | 18V        | 14.7A       | -40 to 55°C           | Stainless Steel 304 | Brushed #4    |            |
| TE162024020   | 18V        | 14.7A       | -40 to 55°C           | Aluminum            | Anodized      |            |
| TE162048010   | 40V        | 7.6A        | -40 to 55°C           | Mild Steel          | Powder Coated | Light Gray |
| TE162048020   | 40V        | 7.6A        | -40 to 55°C           | Aluminum            | Anodized      |            |

Table 3/3

| Catalog Number | Color Code | Thickness | Quick Ship |
|----------------|------------|-----------|------------|
| TE090624010    | RAL 7035   | 1.52mm    | No         |
| TE090624011    |            | 1.52mm    | No         |
| TE090624020    |            | 1.52mm    | No         |
| TE121024010    | RAL 7035   | 1.52mm    | No         |
| TE121024011    |            | 1.52mm    | No         |
| TE121024020    |            | 1.52mm    | No         |
| TE121048010    | RAL 7035   | 1.52mm    | No         |
| TE121048020    |            | 1.52mm    | No         |
| TE162024010    | RAL 7035   | 1.52mm    | No         |

| Catalog Number | Color Code | Thickness | Quick Ship |
|----------------|------------|-----------|------------|
| TE162024011    |            | 1.52mm    | No         |
| TE162024020    |            | 1.52mm    | No         |
| TE162048010    | RAL 7035   | 1.52mm    | No         |
| TE162048020    |            | 1.52mm    | No         |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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