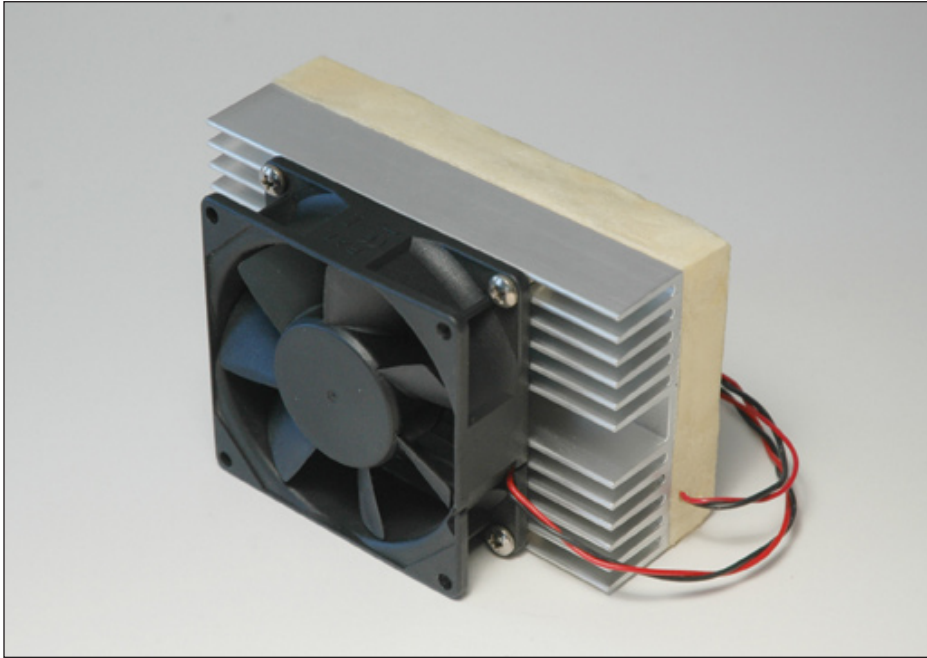




The Performance Leader in Thermoelectric Technology

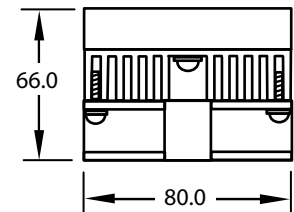
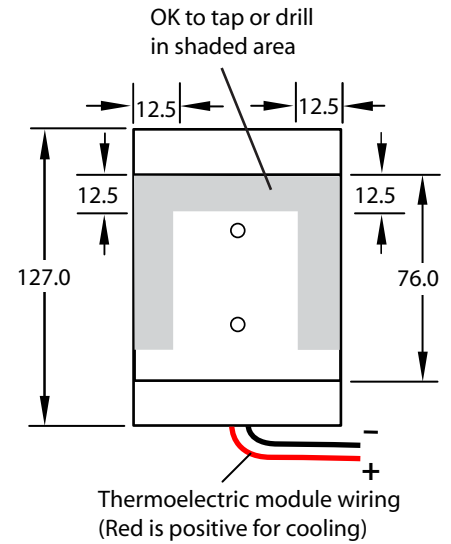
ISO 9001:2000

## PK1 Thermoelectric Cold Plate



**Features:** This is our smallest cold plate, ready to use as an educational tool or prototype component. A fully integrated thermoelectric cooling assembly is complete with a cold plate, heat sink, and fan, and is powered by a C1-1.0-127-1.27 Z-Max® module. You can either heat or cool by changing current direction. A built-in thermal switch protects the unit from overheating. The PK1 cooler is shipped without wire connectors or internal temperature sensor.

<b>Capacity Rating:</b>	17 Watts, 58 BTU/Hr@25°C Ambient, 0°C Delta T
<b>Dimensions:</b>	127mm (5") x 80mm (3.15") x 66mm (2.6") tall
<b>Applications:</b>	Prototypes, contact cooling, or learning the technology
<b>Power:</b>	12 VDC, 4A (@25°C)
<b>Weight:</b>	584 grams (1 lb. 5 oz.)
<b>Ambient Operating Range:</b>	-10°C to 70°C:
<b>Materials:</b>	Extruded aluminum heat sink, brushless 12 VDC fan, 76mm (3") x 76mm (3") aluminum cold/hot plate (see block layout if drilling into cold/hot plate is necessary)
<b>Mounting:</b>	Any orientation, contact cooling (ensure fan has clearance for air flow)
<b>Connections:</b>	Shipped without wire connectors or internal temp sensor
<b>Maintenance:</b>	Maintenance-free
<b>Enclosure:</b>	NEMA 12



**Note:** All dimensions in mm

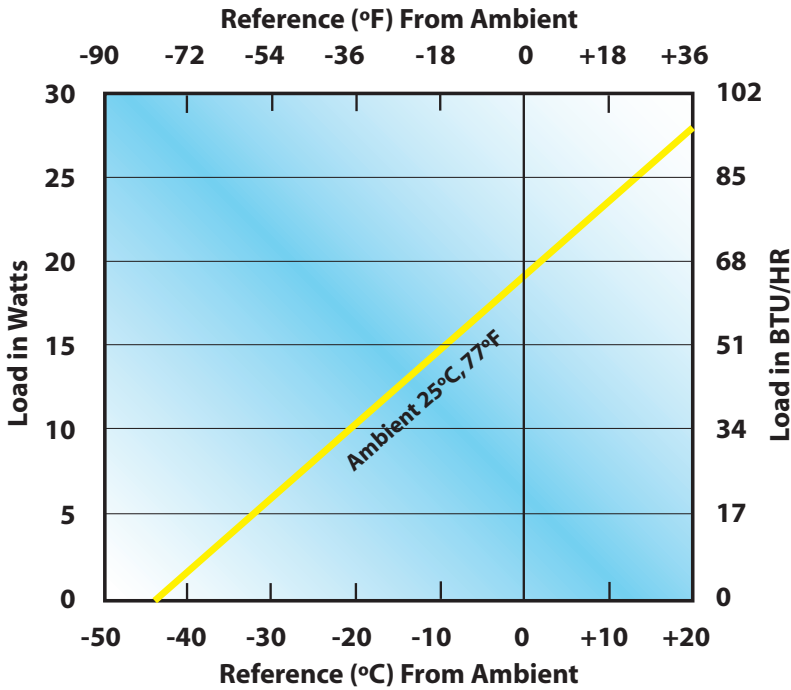


### Optional PK1 Power Supplies and Controllers

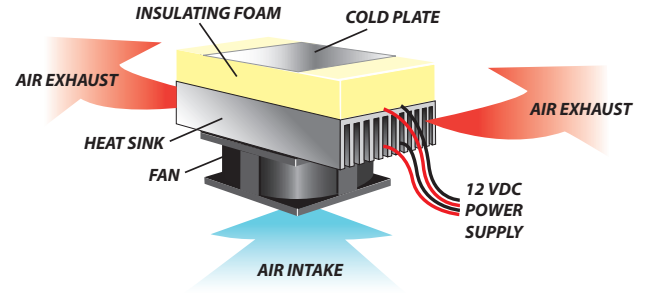
**Power Supplies**  
 PS-12-6  
 PS-12-12

**Temperature Controllers**  
 TTC-12-6F  
 TTC-12-12F  
 TTC-12-18G  
 TC-24-12A  
 TC-24-12G

# PK1 Thermoelectric Cold Plate



Tellurex PK1 Cold Plate Cooler Performance Graph



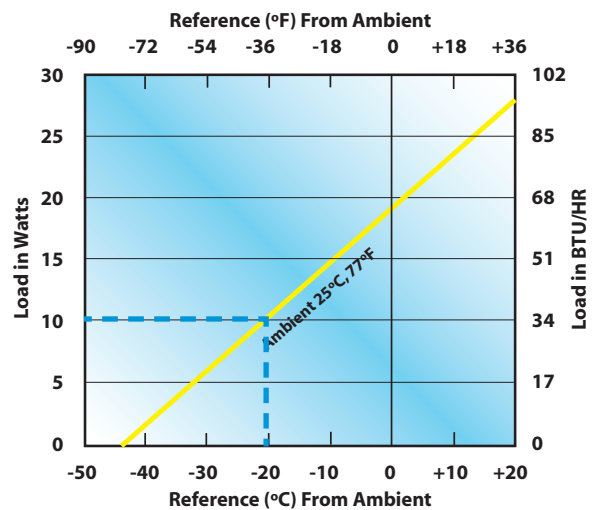
PK1 Cooler Operation Illustration

## Using the performance graph

### Example:

If an surface is to be kept at 20°C below Ambient (with Ambient @25°C), follow the -20°C Ambient line “up” until it intersects with the 25°C Ambient line, then follow a horizontal line to the Y axis on the Watts side. The Load in Watts= 10W (34 BTU/HR).

**Note:** If you want to work in °F, use the top scale and the Load in BTU/HR side of the graph.



Tellurex PK1 Cold Plate Cooler Performance Graph