



The Performance Leader in Thermoelectric Technology

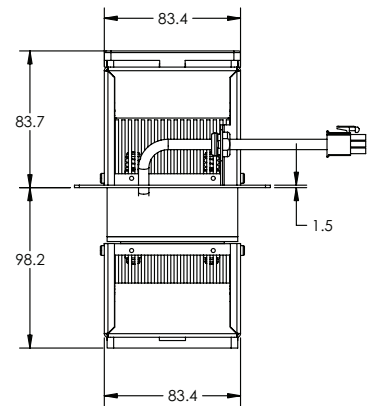
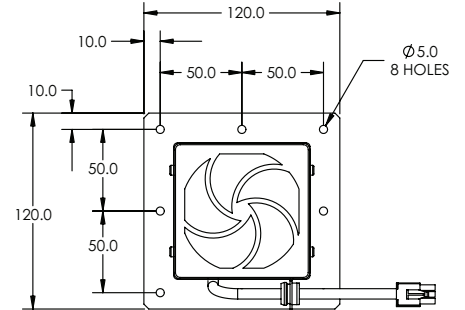
ISO 9001:2000

A22 Thermoelectric Air-to-Air Cooler



Features: This is our smallest cooler. Compact in size, the A22 can accommodate enclosures having 1 inch (25.4mm) of insulation without compromising interior airflow. Incorporating our high-performance Z-Max® thermoelectric module with the added moisture protection of Z-Coat™, this unit offers robust construction that will provide years of service. The A22 has the lowest power consumption of any of the Tellurex coolers, yet packs unparalleled capacity in a small footprint. Easy to install, the unit comes pre-wired for connection to a Tellurex power supply, controller, or both.

Capacity Rating:	22 Watts, 77 BTU/HR, @25°C ambient, 0°C DeltaT
Exposure:	Only an 85 mm cube is exposed after installation
Applications:	Enclosure cooling & heating (or both with the appropriate controller)
Power:	12 VDC, 6A, 72W (@25°C)
Weight:	1370 grams (3.0 lbs.)
Ambient Operating Range:	-10°C to 70°C:
Materials:	Powder coated frame, anodized aluminum heat sinks, stainless steel fasteners
Mounting:	85mm opening hole, through-mount, gasketed, and mounts in any position (condensation may need consideration in certain applications)
Connections:	Pre-wired w/connector for Tellurex power supply and controller, RTD temperature sensor provided standard (10K@25°C)
Maintenance:	Virtually maintenance-free (air filter cleaned occasionally)
Enclosure:	NEMA 12



Note: All dimensions in mm

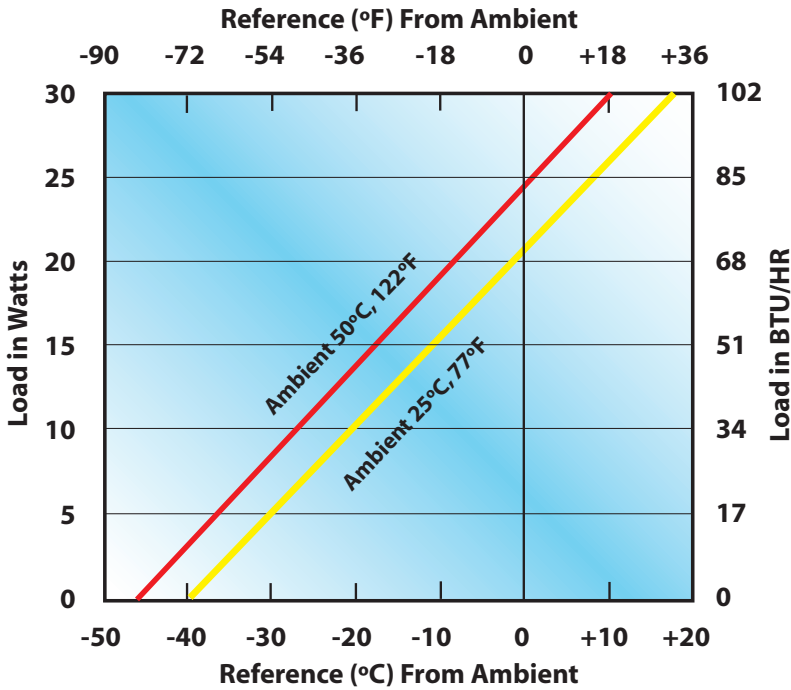


Power Supplies and Controllers for the A22

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

A22 Thermoelectric Air-to-Air Cooler Performance



Proper temperature monitoring and control can be applied to any well-insulated enclosure. Temperature control can either cool, or heat, or be idle, when a Tellurex controller is used.

Some applications require heating or cooling only, while others require a “no control” band where cooling or heating only occurs above or below that band. Whatever your application, Tellurex can supply controllers for every need.

Tellurex A22 Air-to-Air Cooling Engine Performance Graph

Using the performance graph

Example:

If an enclosure 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.

