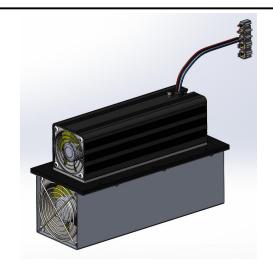


## Air-to- Air Thermoelectric Assembly

## 0000-AAT-085-24-00

Specifications:			
Cooling Power Qcmax (W)	82		
Running Current (A)	4.9		
Nominal Voltage (V)	24		
Max Voltage (V)	27		
Power Input (W)	118		
Operating Temperature (°C)	-10 to 52		
Weight (kg)	3.7		
MTBF (fans-hrs)	70,000		
Performance Tolerance	±10%		



#### **Features**

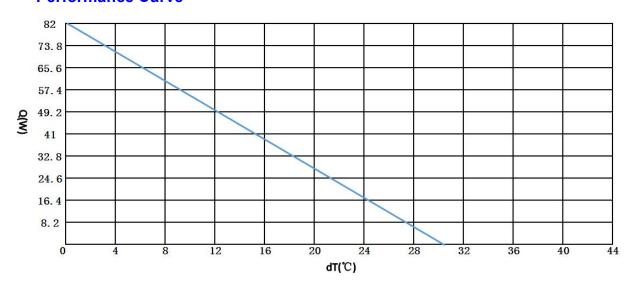
- · Compact design
- · Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

## **Applications**

- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- · Industrial instrumentation
- Food and beverage cooling

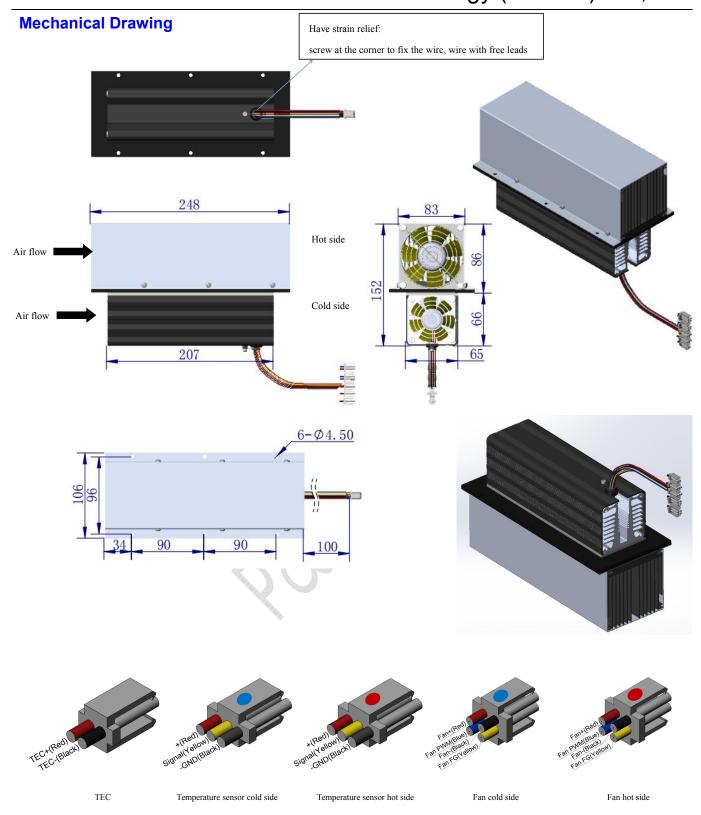
All products are manufactured in an ISO 9001:2008 & ISO/TS 16949:2009 certified facility and are designed to meet the cooling needs of many thermal management applications in the medical, analytical, industrial and telecom markets.

### **Performance Curve**





# P&N Technology (Xiamen) Co.,Ltd.



Wiring Schematic (Power Connector)

<sup>\*</sup> Remarks: This picture is just an example and that the real TE connectivity connectors will be used as shown in the table below.



# P&N Technology (Xiamen) Co.,Ltd.

object	wire type	color	terminal	receptacle housing	pole	plug housing
TEM +	- AWG #18	Red	TE Connectivity	TE Connectivity	1	TE Connectivity
тем -		Black	770985-3	172328-1	2	172328-1
FAN COLD SIDE +	- AWG #20	Red			1	
FAN COLD SIDE -		Black	TE Connectivity	TE Connectivity	2	TE Connectivity
FAN COLD SIDE PWM		Blue	770986-1	794939-1	3	794939–1
FAN COLD SIDE FG		Yellow			4	
FAN HOT SIDE +	- AWG #20	Red			1	
FAN HOT SIDE -		Black	TE Connectivity	TE Connectivity	2	TE Connectivity
FAN HOT SIDE PWM		Blue	770986-1	794939-1	3	794939–1
FAN HOT SIDE FG		Yellow			4	
Temperature sensor +		Red	mp c	mp o	1	mp. 0
Temperature signal	AWG #20	Yellow	TE Connectivity 770986-3	TE Connectivity	2	TE Connectivity
Temperature sensor -		Black	770960-3	172337-1	3	172557-1
Temperature sensor +		Red	TE Comment : ::	TIP Comment to	1	TTP Comment is to
Temperature signal	AWG #20	Yellow	TE Connectivity 770986-3	TE Connectivity	2	TE Connectivity
Temperature sensor -		Black	110900-3	112337-1	3	112331-1

## Temperature fuse:

There are temperature fuse on the hot side, Model S115, fusing temperature 115℃ with UL certification.

#### **Temperature sensor:**

There are temperature sensors on hot and cold heat sink side, Model LM35DZ (TO92).

#### Fan:

Fan with/without IP54 protection.

## **Installation and Service manual**

### **Installation:**

The TE assembly is mounted in a cabinet with "Hot side" mounted externally;

Suitable cabinet cutout is 209x67mm;

Recommended for general purposes: the TE assembly is fastened with 6XM4 machine screws,6XM4 flat washers so that the gasket material will seal off around the flange of the assembly.

#### Service:

Fan impellers and heat sinks must be cleaned on regular intervals to reduce risk for overheating and reduction of cooling function.

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