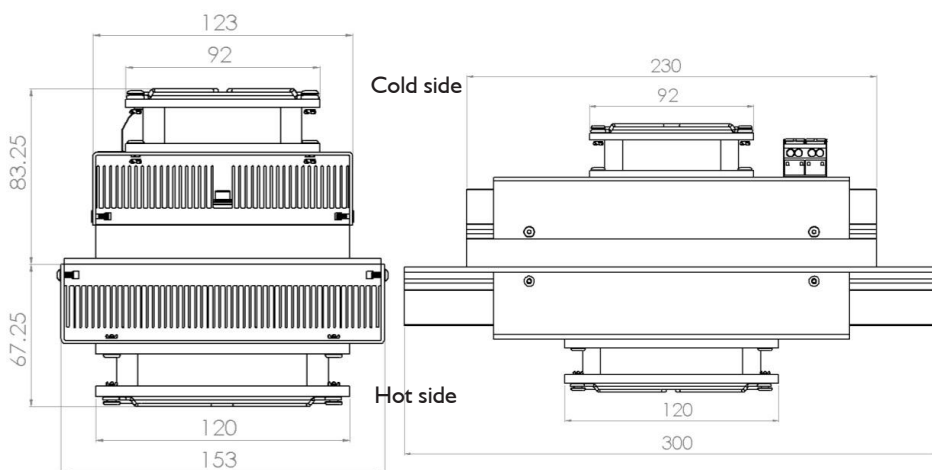
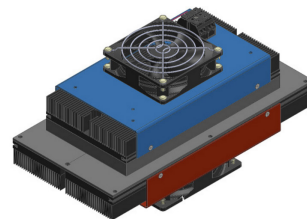


# AR-AR-100-24

## AIR TO AIR THERMOELECTRIC ASSEMBLY

The Air-to-Air Thermoelectric cooling assemblies are compact devices that can be used to cool down objects through convection. Heat is pumped from one side of the thermoelectric assembly (i.e. cold side) by Peltier thermoelectric modules and dissipated from the other side of the assembly (i.e. hot side) to the environment through the use of bespoke heat sinks and highly efficient DC fans. The thermoelectric modules, whose reliability and maintenance-free operation has been proven by the years, are carefully selected for each assembly in order to ensure the best cooling performance and minimise power consumption.



### Notes:

1. All dimensions are in mm.
2. Thermally conductive interface material is applied on thermoelectric modules' surfaces for more efficient heat transfer.
3. The assembly, with its current configuration, is for indoor use only.

### Features

- Reliability
- Compact design
- Excellent Control over Temperature
- DC operation (12V or 24V nominal voltage input)
- Thermoelectric modules with high Coefficient of Performance (COP)
- RoHS compliant

### Applications

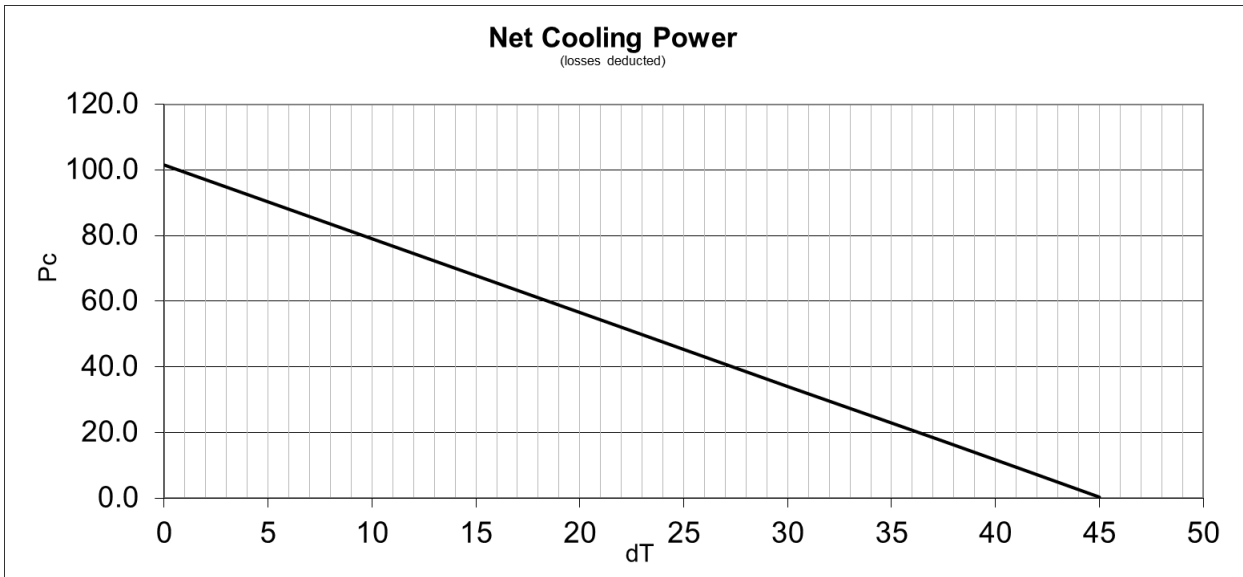
Electronics' Cabinets, Medical Instrumentation, Analytical Diagnostics, Industrial Automation, Food and Beverage Cooling, Laser Systems' Cooling.

### CHARACTERISTICS

Maximum Cooling Power $P_{cmax}$	[W]	101.5
Nominal Voltage	[V]	24
Maximum Voltage	[V]	30
Nominal Current	[A]	5.86
Start-up Current	[A]	8.05
Power Input	[W]	140.64
Operating Temperature	[°C]	-10 to +50
Weight	[KG]	4
Performance Tolerance	[%]	± 10
L10 of fans at 70°C	[hrs]	29711 (hot side fan) / 33434 (cold side fan)

# AR-AR-100-24

## Performance Curve



## LOCATION AND DIMENSIONS OF MOUNTING HOLES

