

### THERMOELECTRIC COOLERS for harsh environments

Climate controlled enclosures

- > Sandstorm protection
- > For harsh environments
- > 24VDC | 220VAC Power supply
- > Ecological cleanliness



Thermoelectric Coolers or Thermoelectric Assemblies are designed to remove heat around critical components within an enclosure with IP66 protection category. These is a thermoelectric air conditioner using the Peltier effect.

The main advantages of Thermoelectric Coolers over conventional compressor are:

- it can be controlled electronically;
- it is easily reversible when the current is reversed;
- it can work in harsh environments;

Thermoelectric Assembly NSBon-42 is fundamentally different from standard air-to-air coolers. Based on the calculations, a special design of ambient heat sink was created, which made it possible to remove ambient (external) fans.

External fans are the weakest link in any air-to-air cooler. They are constantly exposed to extreme ambient conditions and often fail for this reason, after that the cooling process of the internal heat sink stops.

The NSBon-42 design is 100% protected against sand, dust and water. Even a sandstorm will not disable the NSBon-42 cooler itself and equipment that it cools.

#### Technical Data

Operating voltage: 24VDC; 220VAC	Sand, dust and water protection is 100%
Cooling Capacity: 200W	Without external fans outside
Operating Temp.: -40 to +70°C	Connection: Terminal
Dimensions: 500x214x208 mm	Fitting position: Variable
Weight: depends on the model	Protection category: IP66 / NEMA4



#### Ordering Information

NSBon-42

Thermoelectric Coolers. Series SandStorm\_DC, 24VDC. NSBox Cooling