

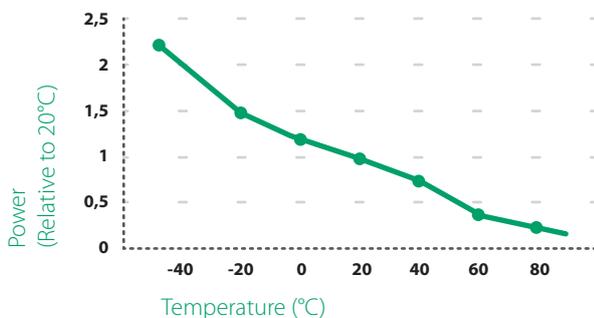
ROTAID

PTC AED CABINET HEATER

The ROTAID - PTC AED cabinet heater is a self-limiting, earth-shielded heater with a build in controller. This heater is based on a robust heater technology with a proven track record from many years in automotive applications. The heating circuit is not only relying on one continuous circuit. The heater consists of several hundred parallel PTC paste-heating elements that ensure long lasting performance even if the circuits are locally damaged for some reason.



POSITIVE TEMPERATURE CONTROL



PTC (Positive Temperature Control) refers to the characteristic of the unique PTC paste used to generate the heat in the ROTAID – PTC AED cabinet heater. The resistance in the heat generating paste will increase with temperature to such an extent that it is limiting the power efficiently above 30 °C. This means that the heater will give more power when needed at low temperatures and less power as the temperature increases.

This feature of the PTC paste adds an extra safety to the product that eliminates the risk of overheating. It still requires a temperature controller to give the needed heat and temperature into the AED cabinet. The nature of the PTC heating elements will give the heater slightly different characteristics than a conventional fixed wattage heater. The start power will be higher but will fall quite quickly to some point along the power curve. The final value depends on the surface temperature as well as the temperature measured in the control unit that is directly placed on the left bottom corner of the heating element. This controller regulates the power supply by switching on and off depending on its measurement. For easy installation the heater is equipped with an adhesive backside for easy installation in the AED cabinet. Additional holes are placed for additional fixation of the heating element to the backside of the AED cabinet.

TECHNICAL SPECIFICATIONS

Max. element temp. °C, (°F)	70 (158)
Min. element temp. °C, (°F)	-50 (-58)
Resistance tolerance	± 20%
Rated voltage	230
Wattage	65 @ 20°C surface
Approvals/standards	NEMKO-CE (IEC 60335-1)
Other	Possible substrates: PET
Self adhesive backside	Yes
Connection wire	3 meters
Thermostat controller	Yes

THERMOSTATIC CONTROLLER FUNCTION

>10 C°	Off
10-7 C°	Max 50 % on time with increasing power 5% every 10 seconds
7-2 C°	Max 100 % on time with increasing power 5% every 10 seconds
< 2 C°	100 % power on.