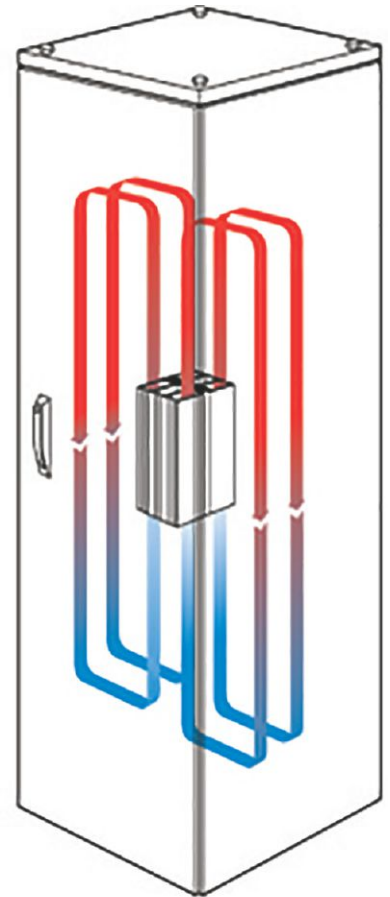


The resistance heaters help prevent the formation of condensation and help guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.

Insulated PTC heaters



Large range of power levels

- 2 versions: By natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.



Easy installation and connection

- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.



Innovating design



Safety

- The protection helps prevent direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70°C.



Models with fan

- The heaters equipped with a fan help ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

High thermal efficiency

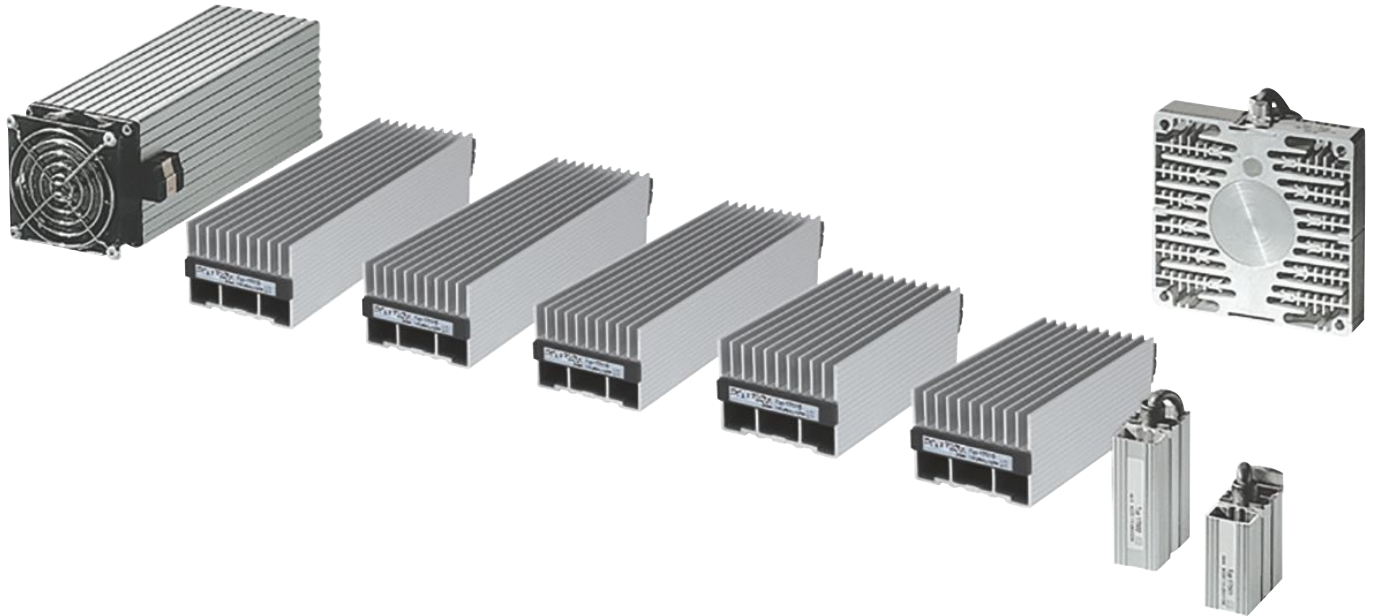
- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.



Certifications

- CE marking.
- Range compliant with UL and VDE.

Aluminium PTC heaters



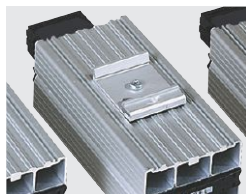
Models with fan

- Models of 250 to 400 W with fan.



Connection cables

- The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.



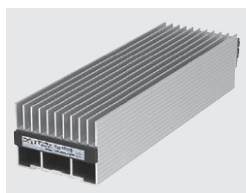
Quick fixing

- The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.



Connection terminal boards

- Heaters with a power of more than 20 W are equipped with a connection terminal board.



Resistance heaters equipped with a PTC-type sensor

The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient). Thanks to these heaters:

- The surface temperature stabilises at 75°C when the ambient temperature is -5°C.
- Power consumption is reduced.

Improved convection

- The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.

Large range of power levels

- 8 power levels, from 10 W to 400 W.

Insulated PTC resistance heaters

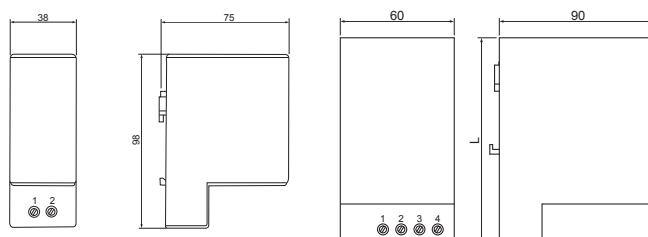


NSYCR10WU2C



NSYCR50WU2C

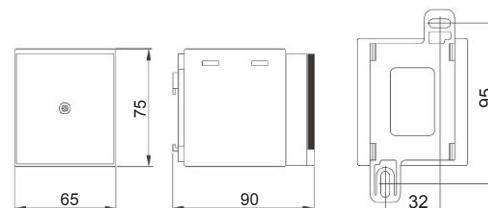
- Compact resistance heater helping prevent the formation of condensation or frost.
- Designed to help ensure good natural convection and high thermal efficiency.
- Material: Extruded aluminium body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on [page 602](#) and [603](#)) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40...+70°C; -10...+158°F
- Surface temperature: <70°C, except for the top protection grille
- Ingress protection rating: IP20
- Certifications: VDE and UL, Cover: UL 94 V-0 plastic, Class II (double insulated)
- Mounting: By clip on a 35 mm DIN rail



Characteristics	Heating power at 0°C (W)	Voltage (V)	Electric connection	References
Insulated PTC resistance heater	10	12-24V	2 poles, 2.5 mm ²	NSYCR10WU1C
Insulated PTC resistance heater	10	110-250V	2 poles, 2.5 mm ²	NSYCR10WU2C
Insulated PTC resistance heater	20	12-24V	2 poles, 2.5 mm ²	NSYCR20WU1C
Insulated PTC resistance heater	20	110-250V	2 poles, 2.5 mm ²	NSYCR20WU2C
Insulated PTC resistance heater	50	12-24V	4 poles, 2.5 mm ²	NSYCR50WU1C
Insulated PTC resistance heater	50	110-250V	4 poles, 2.5 mm ²	NSYCR50WU2C
Insulated PTC resistance heater	50	270-420V	4 poles, 2.5 mm ²	NSYCR50WU3C
Insulated PTC resistance heater	100	12-24V	4 poles, 2.5 mm ²	NSYCR100WU1C
Insulated PTC resistance heater	100	110-250V	4 poles, 2.5 mm ²	NSYCR100WU2C
Insulated PTC resistance heater	100	270-420V	4 poles, 2.5 mm ²	NSYCR100WU3C
Insulated PTC resistance heater	150	110-250V	4 poles, 2.5 mm ²	NSYCR150WU2C

Insulated ventilated PTC heaters

- Compact resistance heater helping prevent the formation of condensation or frost.
- Designed to help ensure good natural convection and high thermal efficiency.
- Material: Extruded aluminium body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on [page 602](#) and [603](#)) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40...+70°C; -10...+158°F
- Surface temperature: Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)
- Ingress protection rating: IP20
- Certifications: VDE and UL, Cover: UL 94 V-0 plastic, Class II (double insulated)
- Mounting: By clip on a 35 mm DIN rail



Characteristics	Heating power at 0°C (W)	Voltage (V)	Electric connection	References
Insulated ventilated PTC heater	177	230 AC / 50-60 HZ	2 poles, 2.5 mm ²	NSYCR170W230VVC



NSYCR170W230VVC

Aluminium PTC heaters

- Extruded aluminium body.
- Surface temperature limited to 75°C when the ambient temperature is -5°C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Conditions of use:

- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit



NSYCR10WU1



NSYCR250W115V

Characteristics	Power (W)	Voltage (V)	References
Aluminium PTC heater	10	12-24 DC	NSYCR10WU1
Aluminium PTC heater	10	110-250 AC	NSYCR10WU2
Aluminium PTC heater	20	12-24 DC	NSYCR20WU1
Aluminium PTC heater	20	110-250 AC	NSYCR20WU2
Aluminium PTC heater	20	270-420 AC	NSYCR20WU3
Aluminium PTC heater	55	12-24 DC	NSYCR55WU1
Aluminium PTC heater	55	110-250 AC	NSYCR55WU2
Aluminium PTC heater	55	270-420 AC	NSYCR55WU3
Aluminium PTC heater	90	12-24 DC	NSYCR100WU1
Aluminium PTC heater	90	110-250 AC	NSYCR100WU2
Aluminium PTC heater	90	270-420 AC	NSYCR100WU3
Aluminium PTC heater	150	12-24 DC	NSYCR150WU1
Aluminium PTC heater	150	110-250 AC	NSYCR150WU2
Aluminium PTC heater	150	270-420 AC	NSYCR150WU3
Aluminium PTC heater with fan	250	115 AC	NSYCR250W115VV
Aluminium PTC heater with fan	250	230 AC	NSYCR250W230VV
Aluminium PTC heater with fan	400	115 AC	NSYCR400W115VV
Aluminium PTC heater with fan	400	230 AC	NSYCR400W230VV
Resistive heater	200	115 AC	NSYCRS200W115V
Resistive heater	200	230 AC	NSYCRS200W230V

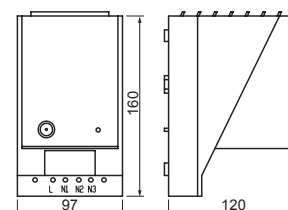
Thermofan



NSYCRP1W120VTV

Combination of a resistance heater and an axial motor to help ensure uniform heating of the enclosure.

- Fixing by clip on a DIN rail.
- Thermostat adjustable from 0...+60°C.
- Visual operation indicator.



Characteristics	Power (W)	Voltage (V)	References
Thermofan	350/550	120 AC	NSYCRP1W120VTV
Thermofan	350/550	230 AC	NSYCRP1W230VTV

Fixing accessories



NSYCRAF



NSYCRAFD

Characteristics	Supply	References
Fixing accessories	Set of 5 studs	NSYCRAF
Fixing accessories	Set of 5 studs and DIN rail	NSYCRAFD