

ClimaSys Resistance heaters **Selection guide**



Insulated resistance heaters

	Reference	Power W	Voltage	Type of connection	
				Terminal block	Cable
	87504	10	12-36 DC	X	
	87501	10	110-250 AC	X	
	87512	21	12-36 DC	X	
	87502	21	110-250 AC	X	
	87518	55	12-36 DC	X	
	87506	55	110-250 AC	X	
	87521	55	270-420 AC	X	
	87523	102	12-36 DC	X	
	87509	102	110-250 AC	X	
	87528	102	270-420 AC	X	
	87536	147	12-36 DC	X	
	87515	147	110-250 AC	X	
	87540	147	270-420 AC	X	

Insulated resistance heaters with fan

	Reference	Power W	Voltage	Type of connection	
				Terminal block	Cable
	87555	177	230 AC	X	

Thermofans

	Reference	Power (W)	Voltage	Type of connection	
				Terminal block	Cable
	17571	400/550	120 AC	X	
	17526	400/550	230 AC	X	

Resistance heaters

	Reference	Power W	Voltage	Type of connection	
				Terminal block	Cable
	17504	10	12-36 DC		X
	17501	10	110-250 AC		X
	17512	20	12-36 DC		X
	17502	20	110-250 AC		X
	17510	20	270-420 AC	X	
	17518	55	12-36 DC	X	
	17506	55	110-250 AC	X	
	17521	55	270-420 AC	X	
	17523	90	12-36 DC	X	
	17509	90	110-250 AC	X	
	17528	90	270-420 AC	X	
	17536	150	12-36 DC	X	
	15515	150	110-250 AC	X	
	17540	150	270-420 AC	X	

Resistance heaters with fan

	Reference	Power W	Voltage	Type of connection	
				Terminal block	Cable
	17570	250	115 AC	X	
	17531	250	230 AC	X	
	17581	400	115 AC	X	
	17554	400	230 AC	X	
	17572	200	115 AC	X	
	17555	200	230 AC	X	

Fixing accessories

	Reference		Description	
	21432		Set of 5 studs	
	21431		Set of 5 studs, DIN rails and screws	

1
Ventilation systems

2
Air-air exchangers

3
Air-water exchangers

4
Cooling units

5
Resistance heaters

6
Control devices

7
Calculation and selection aid software

10 W and 20 W insulated resistance heaters



General characteristics

- Compact resistance heater which prevents the formation of condensation and ice.
- Designed for a better natural convection and a high thermal performance.
- Extremely compact resistance heater.
- Extruded aluminium body.
- Features a plastic cover UL94 V0, light grey, to avoid direct contact with the aluminium radiator.
- Surface temperature limited to 70 °C.
- Fitted with an insulated cable.
- Double insulated.
- PTC technology range.
- Quick attachment by clips into 35 mm DIN rail.
- Certifications compliant with UL and VDE and EC Marking.

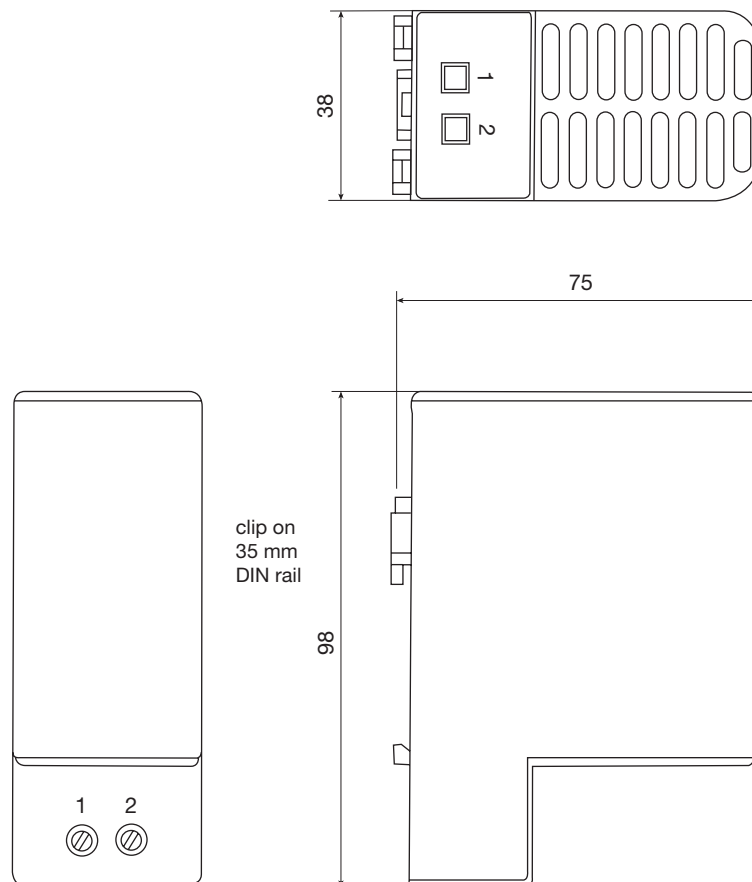
Usage conditions

- The resistance heaters should be used with a hygrometer switch or a thermostat (thermostat 87561 or 87558, hygostat 87560) to control temperature or humidity within the enclosure.
- The enclosure should be sealed to prevent the entry of external air.
- An electrical protection device should be installed on the supply side of the unit.

Characteristics	Reference			
	87501	87504	87502	87512
Power at 0°C	10W		20W	
Voltage	AC/DC 110-250V	AC/DC 12-36V	AC/DC 110-250V	AC/DC 12-36V
Technology	PTC			
Surface temperature	<70°C, except for grill for higher protection			
Electrical connection	Insulated cable			
Quick attachment	By clips into 35 mm DIN rail (EN 50022)			
Cover	Plastic UL94 V0			
Operating position	Vertical			
Operating temperature	-40...+70°C -10...+158°F			
Degree of protection IP	Class II IP 20 (double insulated)			
Certifications	Compliant with VDE and UL on request			

Dimensions

Reference	L (mm)
87501	98
87502	98



55 W - 100 W – 147 W insulated resistance heaters



General characteristics

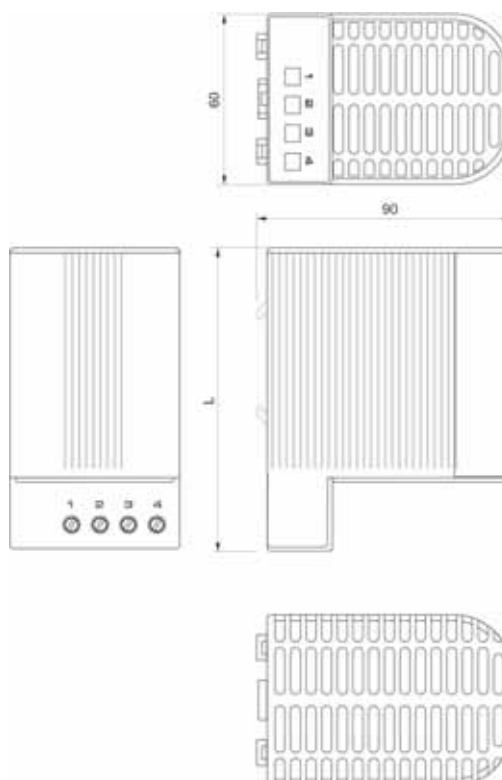
- Compact resistance heater which prevents the formation of condensation and ice.
- Designed for a better natural convection and a high thermal performance.
- Extremely compact resistance heater.
- Extruded aluminium body.
- Features a plastic cover UL94 V0, light grey, to avoid direct contact with the aluminium radiator.
- Surface temperature limited to 70 °C.
- Fitted with an insulated cable 2.5 mm².
- Double insulated.
- PTC technology range.
- Quick attachment by clips into 35 mm DIN rail (EN 50022).
- Certifications compliant with UL and VDE and EC Marking.

Usage conditions

- The resistance heaters should be used with a hygrometer switch or a thermostat (thermostat 87561 or 87558, hygostat 87560) to control temperature or humidity within the enclosure.
- The enclosure should be sealed to prevent the entry of external air.
- An electrical protection device should be installed on the supply side of the unit.

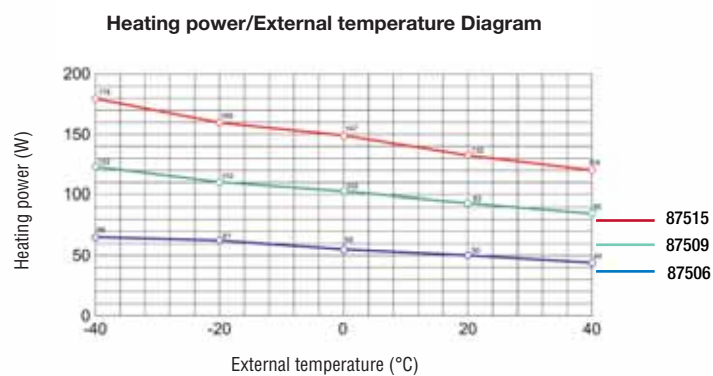
Characteristics	Reference								
	87506	87518	87521	87509	87523	87528	87515	87536	87540
Power at 0°C	55 W			102 W			147 W		
Voltage	AC/DC 110-250V	AC/DC 110-250V	AC/DC 270-420V	AC/DC 110-250V	AC/DC 12-36V	AC/DC 270-420V	AC/DC 110-250V	AC/DC 12-36V	AC/DC 270-420V
Technology	PTC								
Surface temperature	<70 °C, except for grill for higher protection								
Electrical connection	Four-pole terminal for 2.5 m²								
Quick attachment	By clips into 35 mm DIN rail (EN 50022)								
Cover	Plastic UL94 V0								
Operating position	Vertical								
Operating temperature	-40...+70°C				-10...+158°F				
Degree of protection IP	Class II IP 20 (double insulated)								
Certifications	Compliant with VDE and UL on request								

Dimensions



Reference	L (mm)
87506	110
87509	110
87515	150

Performances diagram



177 W

**General characteristics**

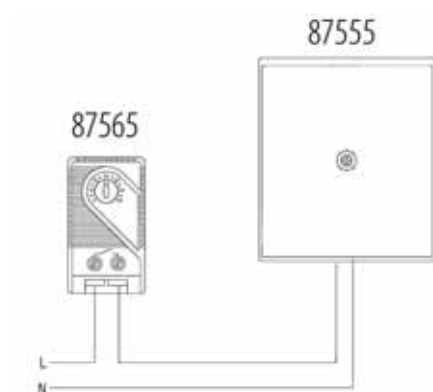
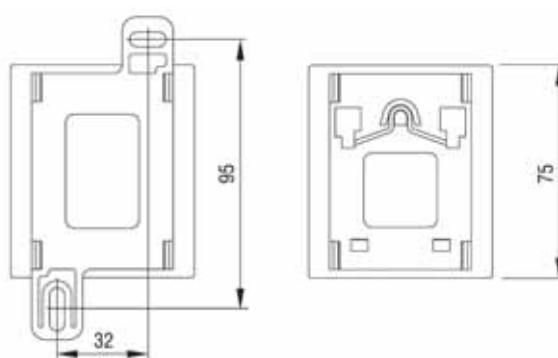
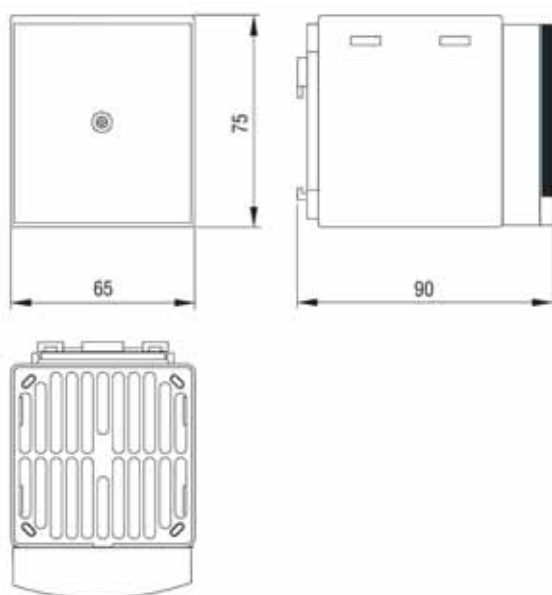
- Compact resistance heater which prevents the formation of condensation and ice.
- Designed for a better natural convection and a high thermal performance.
- Extremely compact resistance heater.
- Extruded aluminium body.
- Features a plastic cover UL94 V0, light grey, to avoid direct contact with the aluminium radiator.
- Surface temperature limited to 70 °C.
- Fitted with an insulated cable 2.5 mm².
- Double insulated.
- PTC technology range.
- Quick attachment by clips into 35 mm DIN rail (EN 50022).
- Certifications compliant with UL and VDE and EC Marking.

Usage conditions

- The resistance heaters should be used with a hygrometer switch or a thermostat (thermostat 87561 or 87558, hygrostat 87560) to control temperature or humidity within the enclosure.
- The enclosure should be sealed to prevent the entry of external air.
- An electrical protection device should be installed on the supply side of the unit.

Characteristics	Reference
	87555
Power at 0°C	177 W
Voltage	AC 230 V; 50-60 Hz
Technology	PTC
Surface temperature	50 °C max. in the enclosure, 100 °C over grill for higher protection (for an external temperature of 20 °C/68 °F)
Service life	40,000 h at 40 °C
Air flow	13.8 m ³ /h
Electrical connection	Two-pole terminal for 2.5 m ²
Quick attachment	By clips into 35 mm DIN rail (EN 50022)
Cover	Plastic UL94 V0
Operating position	Vertical
Operating temperature	-40...+70 °C -10...+158 °F
Degree of protection IP	Class II IP 20 (double insulated)
Certifications	Compliant with VDE and UL on request

Dimensions



1
Ventilation systems

2
Air-air exchangers

3
Air-water exchangers

4
Cooling units

5
Resistance heaters

6
Control devices

7
Calculation and selection
aid software