

Application

The heaters are necessary in order to prevent failures or corrosion caused by excessively low temperatures or high humidity inside the enclosure. Such conditions are likely when the ambient temperature is low and the equipment inside the enclosure is not powered or fails to dissipate enough heat to keep enclosure temperature above the minimum threshold. The outdoor enclosures are nearly always in such conditions.

Safety

Surface temperature is limited via a PTC. This ensures safe working and a self-adjusted heating power. All heaters are Class I except series WID..BL0T and WID..ZX0P heaters which are Class II.

Quick assembly

Assembly is quick and simple. All units are designed for click-in assembly on 35 mm DIN bar EN 50022.

Long life

The fanned heaters feature fans with motor pin on bearing. These heaters provide a high volumetric efficiency and quality and their life is approximately 50.000 working hours with an ambient temperature of 25°C.

Flexible supply voltage

The WID heater series in the catalogue feature the following powers:

- 110-250 V AC/DC WID..ZX0X
WID..ZX0P
- 230 V 50/60 Hz WID..BL0C
WID..BL0T

Wide range

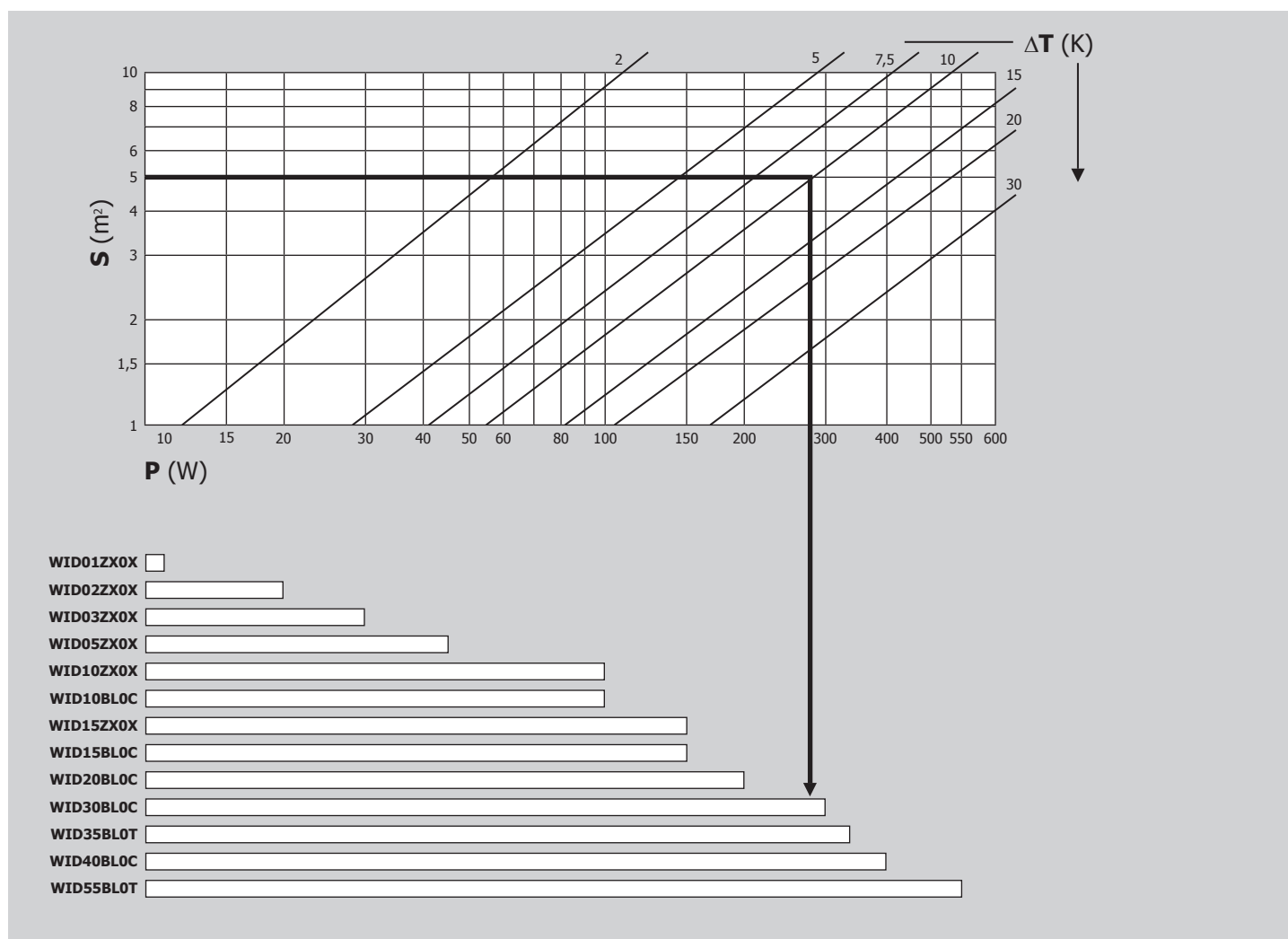
Compact, reliable and a high performance, the WID heater series covers a range of powers going from 45 to 550 W and are available in four types:

- WID..ZX0X Standard
- WID..ZX0P Protected surface
WID..BL0C Ventilated compact
- WID..BL0T Ventilated with built-in thermostat

Special products

On request and for substantial quantities, voltages that are not given in the catalogue can also be available.

Anticondensate heaters selection diagram



P = Heating capacity
S = Enclosure surface
ΔT = Temperature difference

Example:

Enclosure surface 5 m²
Temperature difference 10 K
Heating capacity 280 W

Unit chosen
WID30BL0C o WID-35BL0T

Heating capacity **10 - 550 W**



Application tips

- To ensure optimum temperature control the heaters must be controlled by either a thermostat or humidistat (see Accessories)
- To ensure maximum efficiency the heaters must be installed at the bottom of the enclosure with the flow air aimed upward and the fan and electrical connection at the bottom. A minimum clearance of 50 mm must be left under and over the heater.
- All electrical components made with a thermoplastic material must be kept at least 50 mm away from the heater. If the enclosure is very big it is advisable to install several heaters, distributed evenly, instead of just a single but more powerful heater. The heating effect is better distributed this way.

Characteristics	M.U.	WID05ZX0X	WID10ZX0X	WID15ZX0X
Heating capacity*	W	45	100	150
Power supply	V ~ Hz	110-250 V AC/DC	110-250 V AC/DC	110-250 V AC/DC
Dimensions HxWxD	mm	107x70x50	182x70x50	262x70x50
Max. current	A	3,5	4,5	9
Heating element	-	PTC self-regulated	PTC self-regulated	PTC self-regulated
Electrical connection	-	3-pole terminal board	3-pole terminal board	3-pole terminal board
Protection class IEC	-	I	I	I
Protection level EN60529	-	IP20	IP20	IP20
Radiator	-	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Mounting on clip for DIN bar	mm	35	35	35
Weight	Kg	0,3	0,5	0,7
Conformity	-	CE	CE	CE

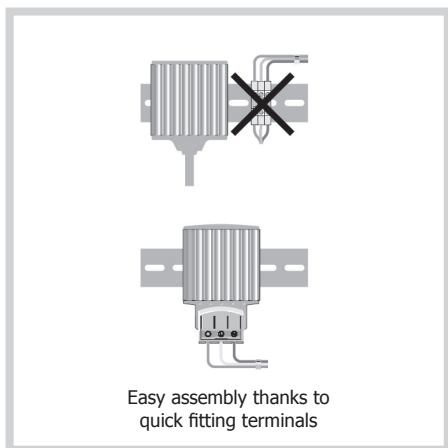
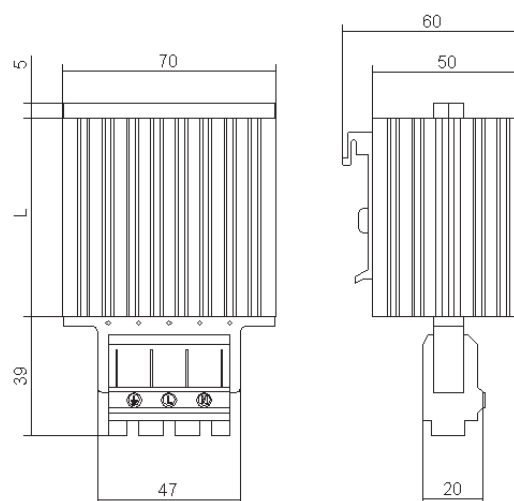
* At ambient temperature 20°C

Accessories/Options	
0-60°C thermostat, NC 10A	AAWTC10
10-60°C thermostat, 10A change-over contact	AAWTS10
RH 35-95% humidistat, 5A change-over contact	AAWHS10



Dimensions

	L mm
WID05ZX0X	65
WID10ZX0X	140
WID15ZX0X	220



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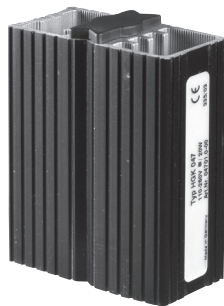
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Characteristics	M.U.	WID01ZX0X	WID02ZX0X	WID03ZX0X
Heating capacity*	W	10	20	30
Power supply	V ~ Hz	110-250 V AC/DC	110-250 V AC/DC	110-250 V AC/DC
Dimensions HxWxD	mm	61x50x25	71x50x25	81x50x25
Max. current	A	1	2,5	3
Heating element	-	PTC self-regulated	PTC self-regulated	PTC self-regulated
Electrical connection	-	Cable L = 0,3 m	Cable L = 0,3 m	Cable L = 0,3 m
Protection class IEC	-	I	I	I
Protection level EN60529	-	IP54	IP54	IP54
Radiator	-	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Mounting on clip for DIN bar	mm	35	35	35
Weight	Kg	0,1	0,2	0,2
Conformity	-	CE	CE	CE

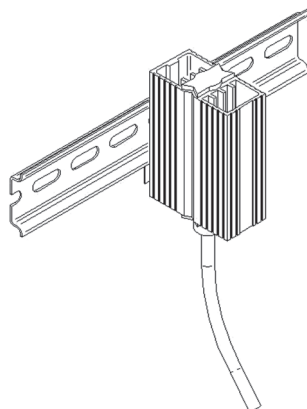
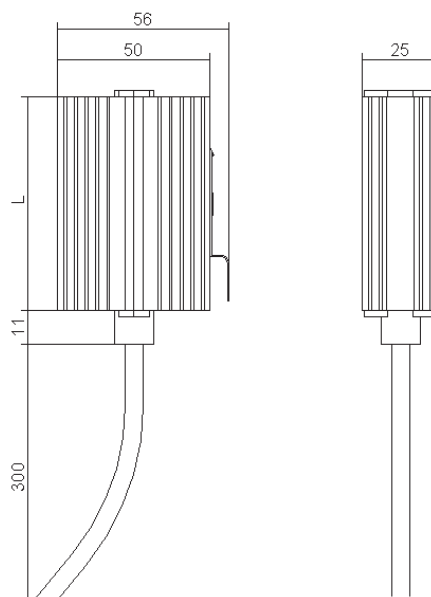
* At ambient temperature 20°C

Accessories/Options	
0-60°C thermostat, NC 10A	AAWTC10
10-60°C thermostat, 10A change-over contact	AAWTS10
RH 35-95% humidistat, 5A change-over contact	AAWHS10



Dimensions

	L mm
WID01ZX0X	50
WID02ZX0X	60
WID03ZX0X	70



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WID05-15ZX0P

ANTI-CONDENSATION HEATERS WITH PROTECTED SURFACE



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Characteristics	M.U.	WID05ZX0P	WID10ZX0P	WID15ZX0P
Heating capacity*	W	50	100	150
Power supply	V ~ Hz	110-250 V AC/DC	110-250 V AC/DC	110-250 V AC/DC
Dimensions HxWxD	mm	110x60x90	110x60x90	150x60x90
Max. current	A	2,5	4,5	8
Heating element	-	PTC self-regulated	PTC self-regulated	PTC self-regulated
Electrical connection	-	4-pole terminal board	4-pole terminal board	4-pole terminal board
Protection class IEC	-	II	II	II
Protection level EN60529	-	IP20	IP20	IP20
Casing	-	Plastic UL94 V-0	Plastic UL94 V-0	Plastic UL94 V-0
Mounting on clip for DIN bar	mm	35	35	35
Weight	Kg	0,3	0,3	0,45
Conformity	-	CE	CE	CE

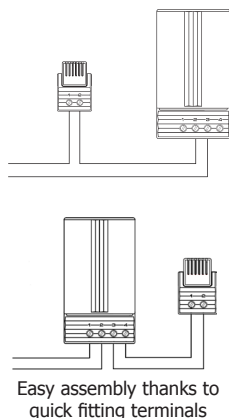
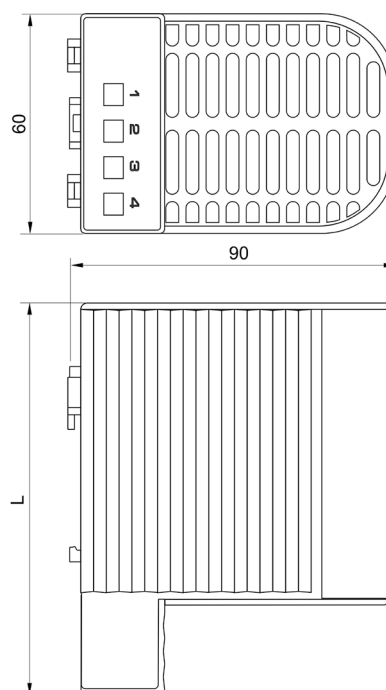
* At ambient temperature 40°C

Accessories/Options	
0-60°C thermostat, NC 10A	AAWTC10
10-60°C thermostat, 10A change-over contact	AAWTS10
RH 35-95% humidistat, 5A change-over contact	AAWHS10



Dimensions

	L mm
WID05ZX0P	110
WID10ZX0P	110
WID15ZX0P	150



Characteristics	M.U.	WID10BLOC	WID15BLOC	WID20BLOC	WID30BLOC	WID40BLOC
Heating capacity	W	100	150	200	300	400
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Dimensions HxWxD	mm	112x80x47	112x80x47	151x119x47	151x119x47	151x119x47
Heating element	-	Highly efficient heating cartridge	Highly efficient heating cartridge	Highly efficient heating cartridge	Highly efficient heating cartridge	Highly efficient heating cartridge
Fan	Capacity	m³/h	35	35	108	108
	Support	-	Bearings	Bearings	Bearings	Bearings
Life at 25°C	h	50.000	50.000	50.000	50.000	50.000
	-	For a failure on the fan	For a failure on the fan	For a failure on the fan	For a failure on the fan	For a failure on the fan
Electrical protection	-	For a failure on the fan	For a failure on the fan	For a failure on the fan	For a failure on the fan	For a failure on the fan
Air outlet temperature*	°C	45	45	45	45	45
Heating element electrical connection	-	3-pole terminal board	3-pole terminal board	3-pole terminal board	3-pole terminal board	3-pole terminal board
Fan electrical connection	-	2-pole terminal board	2-pole terminal board	2-pole terminal board	2-pole terminal board	2-pole terminal board
Protection class IEC	-	I	I	I	I	I
Protection level EN60529	-	IP20	IP20	IP20	IP20	IP20
Radiator	-	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Mounting on clip for DIN bar	mm	35	35	35	35	35
Weight	Kg	0,6	0,6	0,9	0,9	0,9
Conformity	-	CE	CE	CE	CE	CE

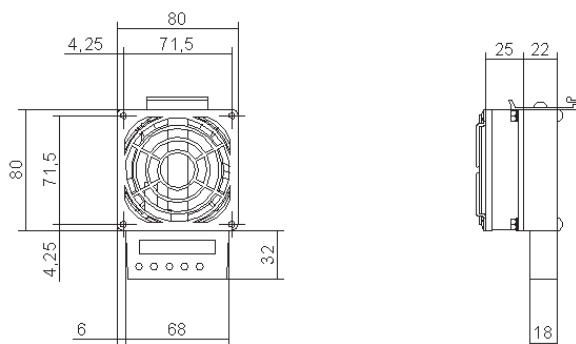
* 50 mm above the element

Accessories/Options	
0-60°C thermostat, NC 10A	AAWTC10
10-60°C thermostat, 10A change-over contact	AAWTS10
RH 35-95% humidistat, 5A change-over contact	AAWHS10

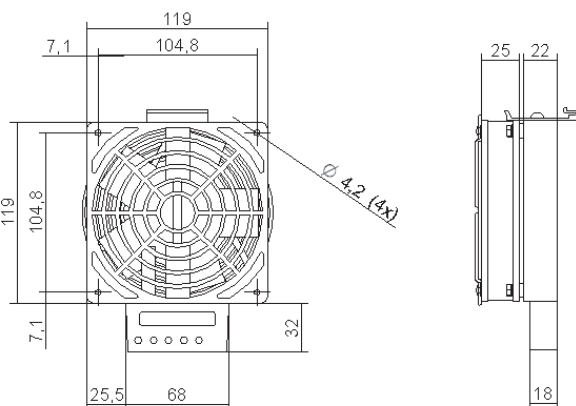


Dimensions

WID10BLOC
WID15BLOC



WID20BLOC
WID30BLOC
WID40BLOC



Breakdown of the fan-heater unit

WID..BL0T FANNED ANTICONDENSATE HEATERS WITH THERMOSTAT



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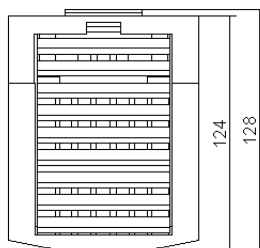
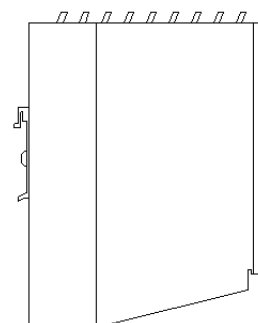
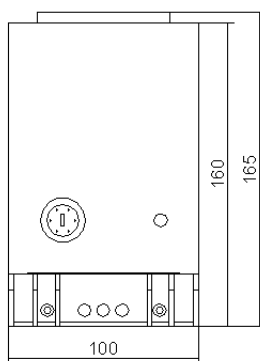
Characteristics	M.U.	WID35BL0T	WID55BL0T	
Heating capacity*	W	350	550	
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	
Max. current	A	11	13	
Dimensions HxWxD	mm	165x100x128	165x100x128	
Heating element	-	PTC self regulated	PTC self regulated	
Fan	Capacity	m³/h	35	45
	Support	-	Bearings	Bearings
	Life at 25°C	h	50.000	50.000
Electrical protection	-	For a failure on the fan	For a failure on the fan	
Temperature limits	°C	0-60	0-60	
Electrical connection	-	2-pole terminal board	2-pole terminal board	
Protection class IEC	-	II	II	
Protection level EN60529	-	IP20	IP20	
Mounting on clip for DIN bar	mm	35	35	
Weight	Kg	0,9	1,1	
Conformity	-	CE	CE	

* At ambient temperature 20°C

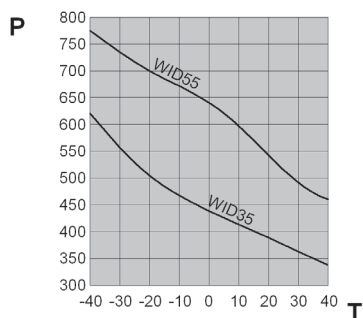
Accessories/Options	
10-60°C thermostat, 10A change-over contact	AAWTS10
RH 35-95% humidistat, 5A change-over contact	AAWHS10



Dimensions



Performances



P = Heating capacity (W)
T = Temperature (°C)

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