



B&R Enclosures
WID SERIES - Anti-Condensation Heaters

brenclosures.com.au

WID Series

Anti-Condensation Heaters



- Designed to heat an enclosure without condensation being produced.
- Suitable for use in enclosures where low temperature or high humidity may cause condensation to form in the enclosure, damaging equipment.
- All heaters in this range will not overheat due to self-limiting from positive temperature co-efficient.
- Heating power ranges from 10W – 550W.
- Fan heaters have an expected lifetime of 50,000 hours.
- Available in either 110-250 V AC/DC or 230 V 50/60Hz.
- Thermostat or humidistat optional.
- All fans are bearing supported and rated for 100% duty cycle.
- Operating temperature 60°C.
- IP20 protection rating.
- All heaters in this range are DIN rail mountable.
- Other supply options available on request.
- Conformity, Approvals:
 - UL 94 V-0 (non-metal parts only)
- Manufactured from die cast aluminium / plastic.



Comes standard with:

- All fixings required for assembly to DIN rail.

ORDERING GUIDE

External Dimensions (mm)

Part Number	Description	Supply (V)	Heating Capacity (W)*	Height	Width	Depth
TX-WID05ZX0X	Standard heater, aluminium casing	110-250 AC/DC	45	109	70	50
TX-WID10ZX0X		110-250 AC/DC	100	184	70	50
TX-WID15ZX0X		110-250 AC/DC	150	264	70	50
TX-WID01ZX0P	Standard heater with plastic cover	110-250 AC/DC	10	99	38	79
TX-WID02ZX0P		110-250 AC/DC	20	99	38	79
TX-WID03ZX0P		110-250 AC/DC	30	99	38	79
TX-WID05ZX0P		110-250 AC/DC	50	110	60	90
TX-WID10ZX0P		110-250 AC/DC	100	150	60	90
TX-WID15ZX0P		110-250 AC/DC	150	150	60	90
TX-WID10BL0C	Fan Forced compact heater, plastic casing	230 AC 1ph	100	112	80	47
TX-WID15BL0C		230 AC 1ph	150	112	80	47
TX-WID20BL0C		230 AC 1ph	200	151	119	47
TX-WID30BL0C		230 AC 1ph	300	151	119	47
TX-WID40BL0C		230 AC 1ph	400	151	119	47
TX-WID35BL0T	Fan forced with thermostat and plastic casing	230 AC 1ph	350	165	100	128

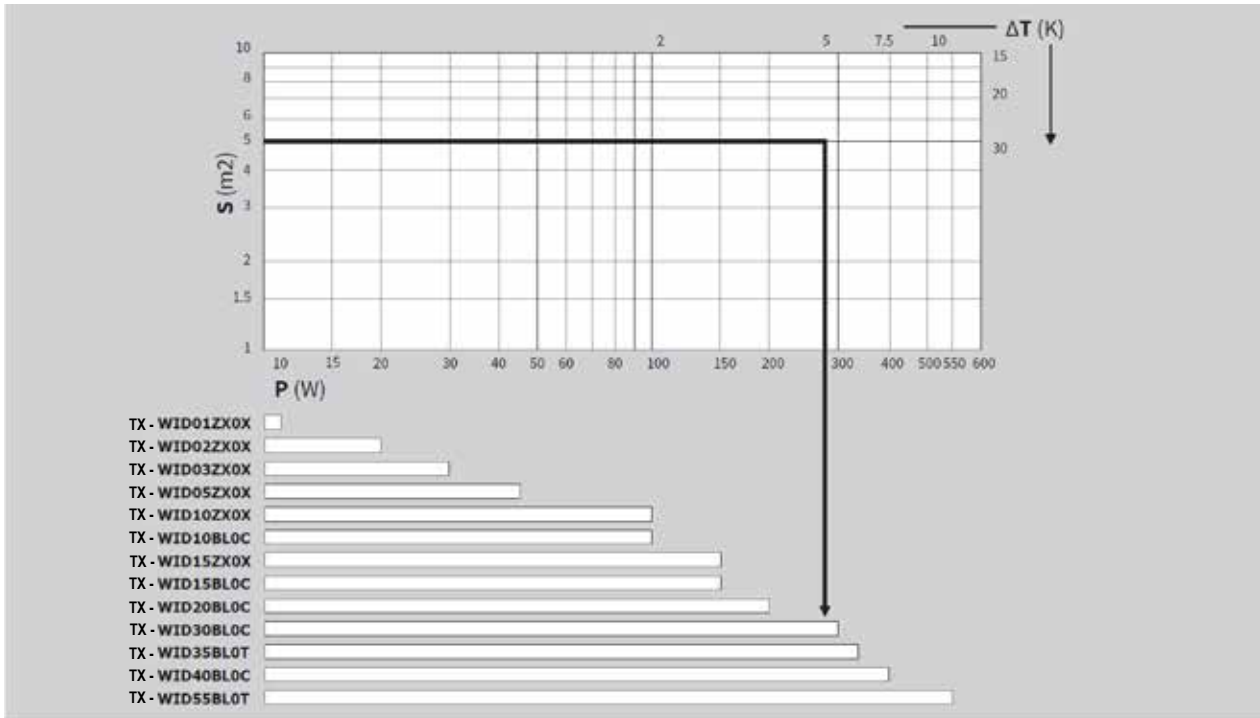
* Heating capacity at ambient of 20°C

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Anti-Condensation Heaters



SELECTION DIAGRAM



P = Heating power
 S = Cabinet surface area
 ΔT = Temperature differential

Example:

Cabinet surface area 5 m²
 Temperature differential 10 K
 Heating power 280W

} Unit chosen
WID30BL0C or
WID35BL0T



05 - 15ZX0X



05 - 15ZX0P



BL0C



BL0T

Accessories

General accessories for climate control products.

Thermostats

Extremely compact thermostat with quick snap-in installation and a wide adjustment range. It has either a normally closed (NC), normally open (NO) or a single pole single throw (SPST) contacts. Thermostats are mainly used to control the fans, heat exchangers or to indicate a maximum temperature signal as the contacts are potential free.

Part Number	Specification	Pack Qty
TX-AAWTC10	Bi-metal, Adjustable 0-60°C Contact: SP NC 10A/250VAC	1
TX-AAWTS10	Bi-metal, Adjustable 0-60°C Contact: SPDT 10A/250VAC	1
TX-AAFTO12	Bi-metal, Adjustable 0-60°C Contact: SP NO 10A/250VAC	1



TX-AAWTC10



TX-AAWTS10



TX-AAFTO12

Dual Thermostats

Dual element thermostats in a single housing having the same benefits as the single element versions but allow the control of two items within the enclosure. For example one thermostat with contact normally closed for the regulation of heating appliances and one thermostat with contact normally open for the regulation of fans with filters or heat exchangers.

Part Number	Specification	Pack Qty
TX-C16000385	TWIN Bi-metal, Adjustable 0-60°C Contact: SP NC/NC 10A/250VAC	1
TX-C16000386†	TWIN Bi-metal, Adjustable 0-60°C Contact: SP NO/NO 10A/250VAC	1
TX-C16000387†	TWIN Bi-metal, Adjustable -10°C-80°C Contact: SP NO/NO 10A/250VAC	1

† While Stocks Last



TX-C16000385

Gas Bulb Temperature Control Thermostat

Gas bulb temperature control thermostat, adjustable range between 20° and 46° C.

Part Number	Specification	Pack Qty
TX-C16000002	Gas bulb, Adjustable 20°C-46°C Contact: 2A / 250VAC 6.3 x 0.8mm FASTON connections 44x38x34mm	1



TX-C16000002

Accessories

General accessories for climate control products.



Small Plastic DIN Rail Accessory

For installing thermostats or other small devices inside enclosures. It is easy to apply with the anti-ageing adhesive strip which can support a continuous load up to 500 g. It can also be screw mounted to a panel.

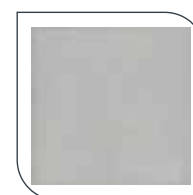
Part Number	Specification	Pack Qty
TX-AAWFT10	Thermostats and humidistat TX-AAWHS10, TX-AAWTC10, TX-AAWTS10, TX-C16000385, TX-C16000386, TX-C16000387	



Class EU5 Cloth Filters

The highly efficient class EU5 cloth filters are used in environments where there is very fine dust achieving up to 97% filtration. By using this kind of filter an IP54 protection level can be achieved. High efficiency cloth filters will restrict air flow rate and therefore fans should be over sized for the application. To maintain a high performance of these types of ventilating units it is necessary to periodically check how dirty the cloth filter is and, if necessary, change it with a new one.

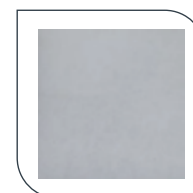
Part Number	Specification	Pack Qty
TX-AAFFH12	FAN12 & FIL12	10
TX-AAFFH25	FAN23-25-28 & FIL25	10
TX-AAFFH35	FAN35 & FIL35	10



Class EU4 Cloth Filters

These are standard class EU4 cloth filters for FAN units achieving up to 91% filtration. By using this kind of filter an IP44 protection level can be achieved. To maintain a high performance of these types of ventilating units it is necessary to periodically check how dirty the cloth filter is and, if necessary, change it with a new one. These filters are made in self-extinguishing synthetic fibres with a very close mesh and a progressive filtering strength. Using these filters efficiency reaches 91%.

Part Number	Specification	Pack Qty
TX-AAFFN12	FAN12 & FIL12	10
TX-AAFFN25	FAN23-25-28 & FIL25	10
TX-AAFFN35	FAN35 & FIL35	10



Metal Air Filters

All air conditioners are designed to be highly robust and very low in maintenance however in extreme dusty conditions the cooling units can be fitted with metal air filters to ease maintenance cycles. Compared to the polyurethane foam filters, metal filters are not as aggressive but are easier to clean and maintain. Due to their all aluminium construction they are very robust and can be cleaned with most degreasing detergents again and again.

Part Number	Used with	Pack Qty
TX-AADFM12	DEK12-15-20	1
TX-AAEFM04	EGO04	1
TX-AAEFM06	EGO06	1
TX-AAEFM10	EGO08-10	1
TX-C15000164	EGO12-16-20	1
TX-C15000172	DEK04	1
TX-C15000174	DEK08	1



Accessories

General accessories for climate control products.

Polyurethane Air Filters

All airconditioners are designed to be highly robust and very low in maintenance however if the ambient air is highly contaminated (containing particles or aerosols) a filter can be installed behind the intake grille in the space left for it. These filters are made from a polyurethane foam which has excellent mechanical and chemical resistance characteristics.



Part Number	Used with	Pack Qty
TX-AADFP12	DEK12-15-20	5
TX-AADFP30	DEK30-40	5
TX-AAEFP04	EGO04	5
TX-AAEFP06	EGO06	5
TX-AAEFP10	EGO08-10	5
TX-C15000163	EGO12-16-20	5
TX-C15000171	DEK04	5
TX-C15000173	DEK08	5

Humidistats

An alternative method for controlling humidity is using a humidistat with a heater. The dew point inside an enclosure is relative to the humidity and temperature difference between the inside and outside of the enclosure. Heating the internal of the enclosure in high humidity applications will reduce condensation.



Part Number	Specification	Pack Qty
TX-AAWHS10	Adjustable 35-95%RH Contact: SPDT 10A/250VAC	1

Electronic Thermostat

The microprocessor based controller is designed to be suitable for refrigerating applications providing easy set point adjustment, alarm outputs and inputs with an external LED display showing internal temperature.



Part Number	Specification	Pack Qty
TX-C16000259	Power supply: 230Vac ±10%, 50/60Hz Inputs: 1 NTC probe Digital input: free voltage contact Relay outputs: Temperature control output 1: SPDT 12A 250Vac, Alarm output 2: SPST 5A 250Vac Operating temperature: 0-60 °C	1

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