



Enclosure Solutions

Products for Effective  
Thermal Management

**HellermannTyton**



# XT Series - Thermal Management

## FILTER FANS RAL7035 – IP54

### A range of ventilation products for use in switchboards and controls panels.

With temperature playing a major role in reducing the life expectancy of devices such as VSC drives, PLC's, soft starters and telecommunication equipment, it is imperative that effective thermal management processes are considered for the protection of process control and power distribution systems within enclosed cabinets.

The air flow direction is from the outside towards the inside of the enclosure. If needed, the user can easily reverse the direction by simply re-assembling the fan in the opposite way.

Installation is fast thanks to the simple square cut out

on the enclosure panel and to the snap in fixing system where no screws are required.

The snap in fixing system can be used on panels with a thickness in the range of 1.2mm to 2.4mm. For different thicknesses fixing can still be done with the screw kit which is included in each pack for this purpose.

The special configuration of the grill, the self adhesive gasket and the filter mat ensure IP54 protection degree.

An external cowl for increased protection to allow IP55 according to EN60529/10.91 is also available.



XTALFAA500BP



XTALFA1600BP



XTALFA2300BP



XTALFA2500BP



XTALFA3500BP

| Part No        | Airflow mt per hour | Dimensions H x W x D  | Power Supply     |
|----------------|---------------------|-----------------------|------------------|
| XTALFAA500BP   | 24 m/hr             | 114mm x 114mm x 57mm  | 230v ac 50/60 Hz |
| XTALFAA5010BP  | 24 m/hr             | 114mm x 114mm x 57mm  | 110v ac 50/60 Hz |
| XTALFAA5024BPT | 24 m/hr             | 114mm x 114mm x 57mm  | 24v dc 50/60 Hz  |
| XTALFA1600BP   | 55 m/hr             | 150mm x 150mm x 77mm  | 230v ac 50/60 Hz |
| XTALFA1610BP   | 55 m/hr             | 150mm x 150mm x 77mm  | 110v ac 50/60 Hz |
| XTALFA1624BPT  | 55 m/hr             | 150mm x 150mm x 77mm  | 24v dc 50/60Hz   |
| XTALFA2300BP   | 105 m/hr            | 250mm x 250mm x 111mm | 230v ac 50/60 Hz |
| XTALFA2310BP   | 105 m/hr            | 250mm x 250mm x 111mm | 110v ac 50/60 Hz |
| XTALFA2324BPT  | 105 m/hr            | 250mm x 250mm x 111mm | 24v dc 50/60 Hz  |
| XTALFA2500BP   | 230 m/hr            | 250mm x 250mm x 119mm | 230v ac 50/60 Hz |
| XTALFA2510BP   | 230 m/hr            | 250mm x 250mm x 119mm | 110v ac 50/60 Hz |
| XTALFA2524BPT  | 230 m/hr            | 250mm x 250mm x 119mm | 24v dc 50/60 Hz  |
| XTALFA3500BP   | 500 m/hr            | 325mm x 325mm x 151mm | 230v ac 50/60 Hz |
| XTALFA3510BP   | 500 m/hr            | 325mm x 325mm x 151mm | 110v ac 50/60 Hz |



# XTSeries

## FILTER and GRILL

| Part No     | Overall Dimensions<br>H x W x D | For use with                   |
|-------------|---------------------------------|--------------------------------|
| XTALFAA000G | 114mm x 114mm x 17mm            | XTALFAA500BP                   |
| XTALFA1000G | 150mm x 150mm x 28mm            | XTALFA1600BP                   |
| XTALFA2000G | 250mm x 250mm x 30mm            | XTALFA2300BP &<br>XTALFA2500BP |
| XTALFA3000G | 325mm x 325mm x 30mm            | XTALFA3500BP                   |



XTALFAA000G



XTALFA1000G



XTALFA2000G



XTALFA3000G

## THERMOSTATS

Compact thermostats for din rail mounting to control ventilation and heating devices.

|         |            |         |                  |              |
|---------|------------|---------|------------------|--------------|
| XTTHV02 | N/O Vent ● | 0/+60°C | din rail mounted | 120V/230V AC |
| XTTHR02 | N/C Heat ● | 0/+60°C | din rail mounted | 120V/230V AC |

XTTHV02



XTTHR02



## HEATERS

Application: Enclosure heaters are often necessary to prevent failures or corrosion caused by low temperature or high humidity inside the enclosure. Such conditions are likely to occur when 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.

Outdoor enclosures, for instance, are almost always in such conditions.

Safety: According to the type of heater, surface temperature is limited either by a PTC or by an over temperature safety switch. This allows a safe operation and a self-adjusted heating power. All are class II protection, IP20 EN60529.

| Part No   | Watts | Dimensions H x W x D | Power Supply      | Max Current |
|-----------|-------|----------------------|-------------------|-------------|
| XTSHT25W  | 25W   | 90mm x 50mm x 80mm   | 110-250V AC or DC | 2A          |
| XTSHT50W  | 50W   | 110mm x 50mm x 80mm  | 110-250V AC or DC | 2A          |
| XTSHT75W  | 75W   | 160mm x 50mm x 80mm  | 110-250V AC or DC | 4A          |
| XTSHT100W | 100W  | 110mm x 90mm x 80mm  | 110-250V AC or DC | 4A          |



## ACCESSORIES

### XTFINRIP – Door Panel Light Switch 1N/O + 1N/C

- IP65
- Dimensions: 91mm x 31mm x 39mm
- Power supply 230V(400v) AC15

### XTFINSTAFF – Light Switch Bracket

- For use in the above Light switch

### XTLAMPSP22MAG – Magnetic Lamp

- 230V supply
- 11 watt lamp magnetic fixing
- Dimensions: 95mm x 43mm x 268mm

### XTCUFF10B – Cover for IP55 Protection

- Dimensions: 195mm x 255mm x 55mm
- For use with XTALFAA500BP & XTALFA1600BP

### XTCUFF20B – Cover for IP55 Protection

- Dimensions: 325mm x 425mm x 60mm
- For use with XTALFA2300BP & XTALFA2500BP

### XTCUFF30B – Cover for IP55 Protection

- Dimensions: 410mm x 540mm x 110mm
- For use with XTALFA3500BP



# XT Series - Thermal Management

## FILTER FANS



| Part No         | Air flow mt per hour | Dimensions H x W x D  | Power supply |
|-----------------|----------------------|-----------------------|--------------|
| NSYCVF38M230PF  | 38 m/hr              | 137mm x 117mm x 49mm  | 230v         |
| NSYCVF85M230PF  | 85 m/hr              | 170mm x 150mm x 62mm  | 230v         |
| NSYCVF165M230PF | 165 m/hr             | 268mm x 248mm x 104mm | 230v         |
| NSYCVF300M230PF | 300 m/hr             | 268mm x 248mm x 116mm | 230v         |
| NSYCVF850M230PF | 850 m/hr             | 336mm x 316mm x 162mm | 230v         |

## FILTER & GRILL



| Part No      | For use with                       | Overall size         |
|--------------|------------------------------------|----------------------|
| NSYCAG92LPF  | NSYCVF38M230PF                     | 137mm x 117mm x 13mm |
| NSYCAG125LPF | NSYCVF85M230PF                     | 170mm x 150mm x 15mm |
| NSYCAG223LPF | NSYCVF165M230PF<br>NSYCVF300M230PF | 268mm x 248mm x 18mm |
| NSYCAG291LPF | NSYCVF850M230PF                    | 336mm x 316mm x 18mm |

## THERMOSTATS



|           |                  |           |   |
|-----------|------------------|-----------|---|
| NSYCCOTH0 | N/O thermostat ● | 0 - +60°C | Control a fan or alarm                  |
| NSYCCOTHC | N/C thermostat ● | 0 - +60°C | Control a resistance heater or an alarm |

## HEATERS



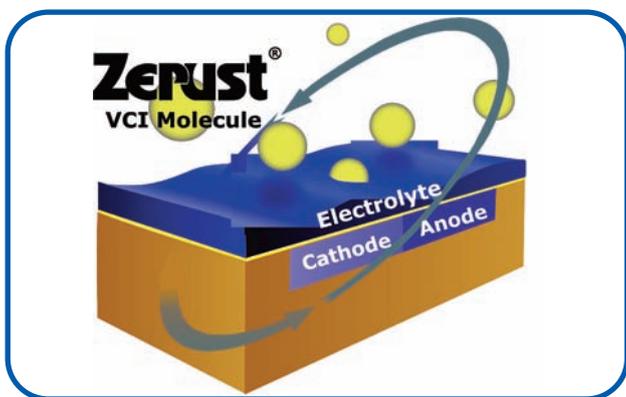
| Part No     | Watts | Power supply |
|-------------|-------|--------------|
| NSYCR10WU2  | 10W   | 110V/250 AC  |
| NSYCR20WU2  | 20W   | 110V/250 AC  |
| NSYCR55WU2  | 55W   | 110V/250 AC  |
| NSYCR100WU2 | 90W   | 110V/250 AC  |



# XT Series - Thermal Management

## HOW ZERUST® DIFFUSER PRODUCTS WORK

Zerust® ICT® diffusers are easy to use corrosion protection products that contain patented Zerust® corrosion inhibiting technology. They come in different formats to meet specific protection needs. They all emit powerful corrosion inhibiting molecules into an enclosure that settle on metal surfaces and protect them from corrosion. Use them to protect ferrous and non-ferrous metal such as iron, steel, copper, zinc and solder.



How the ZERUST® protective molecules suppress corrosion:

1. They passivate the electron flow between the anodic and cathodic areas on the metal surfaces.
2. They may also form a hydrophobic layer that prevents water and moisture from direct contact with the metal therefore acting as an electrolyte.
3. They may regulate the pH value of the electrolyte.

### Features:

- Proven corrosion protection
- Easy to use
- Non toxic and odourless
- Fits restricted spaces
- Does not leave residue on electrical contact surfaces

### Benefits:

- Reduce corrosion incidences
- Improve equipment reliability
- Reduce need for inspection and rework
- Save money and resources

### Application Examples:

- Protect electrical connections in enclosures
- Protect an entire control room from corrosion



| Product Code | Volume of Protection                       | Radius of Protection | Duration of Protection | Adhesive Backing |
|--------------|--|----------------------|------------------------|------------------|
| VC1-1 (5)    | 4.2ft <sup>3</sup> (0.12 m <sup>3</sup> )  | 1ft (0.3m)           | 1 year                 | Yes              |
| VC1-1        | 4.2ft <sup>3</sup> (0.12 m <sup>3</sup> )  | 1ft (0.3m)           | 1 year                 | Yes              |
| VC2-1        | 33.5ft <sup>3</sup> (0.95 m <sup>3</sup> ) | 2ft (0.6m)           | 1 year                 | Yes              |
| VC2-2        | 33.5ft <sup>3</sup> (0.95 m <sup>3</sup> ) | 2ft (0.6m)           | 2 years                | Yes              |
| VC6-1        | 905ft <sup>3</sup> (25.63 m <sup>3</sup> ) | 6ft (1.8m)           | 1 year                 | No               |
| VC6-2        | 905ft <sup>3</sup> (25.63 m <sup>3</sup> ) | 6ft (1.8m)           | 2 years                | No               |

# XS Series



# XP Series

## The Complete Enclosure *Solution* Provider



**XS1000**  
STEEL/WALL



**XS2000**  
STEEL FLOOR  
STANDING



**XS3000**  
STEEL TERMINAL



**XP2000**  
GRP FLOOR  
STANDING



**XP3000**  
GRP/POLYCARB  
TERMINAL BOXES



**XP4000**  
PLASTIC  
JUNCTION BOXES



**XS4000**  
STEEL JUNCTION



**XS5000**  
19" SYSTEMS



**XS1000**  
CUSTOMISED



**XP1000**  
GRP WALL



**XP5000**  
DISTRIBUTION  
BOXES



**XP1000**  
CUSTOMISED

## Customised Enclosures



For more information about our full range please contact us.

The Complete *Solution* Provider



### Customised Solutions – A Different Design to Suit all Types of Needs

HellermannTyton offer the possibility of customising metallic cabinets to adapt to each installation. Its versatile manufacturing process permits the production of any type of cabinet at very competitive prices and with very short lead times.

We also offer the facility to customise GRP enclosures (minimum order quantities apply)

Sizes, shapes, dies, colours can all be manufactured with high quality materials that satisfy the technical and quality parameters demanded by the market.

Cabinets can be painted in any colour of the RAL chart subject to minimum quantities and delivery times.

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