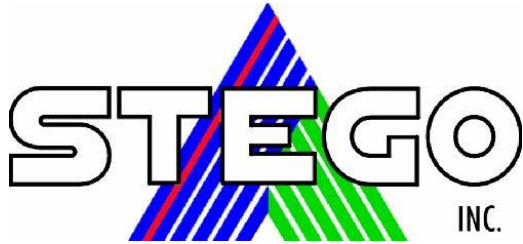




Thermal Management Products for Enclosures

Capabilities Presentation



Thermal Management Products for Enclosures

- Established in 1980
- HQ in Schwäbisch Hall, Germany
- Plants – Germany, France, Brazil & USA
- Sales Offices – Italy, Poland, Spain, Sweden & UK
- Global presence in over 52 countries



Thermal Management Products for Enclosures

Primary Markets:

- Electrical & Electronic Controls
- Power Generation (Windpower)
- Telecom & M2M
- Transportation (ITS, Enforcement & Parking)
- Kiosk & ATM
- Security
- Petrochemical & Mining



Thermal Management Products for Enclosures

KT 011 Thermostat



Thermostatic control of 20mA to 15A loads

- NC (red dial)
- NO (blue dial)
- °F or °C scale
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

ZR 011 Dual Thermostat



Thermostatic control of two separate loads

- NC (red dial)
- NO (blue dial)
- Two functions/one device
- °F or °C scale
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

FTS 011 & FTO 011 Thermostat



Tamperproof Thermostatic Control

- NC (red), NO (blue)
- °F or °C
- Fixed set point
- Cost-effective
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

FTD 011 Dual Thermostat



Tamperproof Dual Thermostat

- NC (red) & NO (blue)
- Two functions/one device
- °F or °C
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

FZK 011 Thermostat



Thermostatic control of either NC or NO load

- 1 pole/double throw
- NC or NO in 1 device
- °F or °C scale
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

ET 011 Electronic Thermostat



Thermostatic control of 24VDC loads

- 16A DC capacity
- 1 pole/double throw
- NC or NO in 1 device
- °F or °C scale
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

SM 010 Electronic Relay



Suitable for 48 & 24 VDC loads

- 16A DC capacity
- 1 pole/double throw
- NC or NO in 1 device
- °F or °C scale
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

ETF 012 Hygrotherm



Control Condensation & Temperature

- 50 – 90% RH H-stat
- °F or °C scale T-stat
- NC or NO in 1 device
- Function indicating LED's
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

MFR 012 Hygrostat



Adjustable Condensation Control

- 35-95% RH
- NC or NO in 1 device
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

KFR 012 Hygrostats



Tamperproof Condensation Control

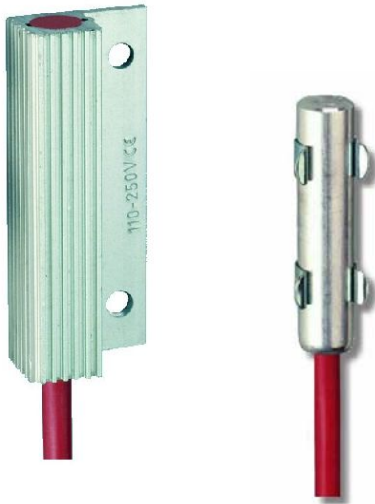
- Two fixed-point models
- 50 or 65% RH
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

RC 016 & RCE 016 Heaters



5-13W PTC Heaters

- Small form factor
- AC or DC
- Self-regulating
- Screw mount





Thermal Management Products for Enclosures

HGK 140 Heaters



10-30W PTC Heater

- AC or DC
- Self-regulating
- DIN rail mount





Thermal Management Products for Enclosures

HG 140 Heaters



15-150W PTC Heater

- AC and DC
- Self-regulating
- DIN rail mount
- Quick connect terminals





Thermal Management Products for Enclosures

CSK 060 Heaters

NEW



20W PTC Heaters

- AC and DC
- Self-regulating
- Double-insulated
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

CS 060 Heaters

NEW



50-150W PTC Heaters

- AC and DC
- Self-regulating
- Double-insulated
- DIN rail mount
- Touch-safe screw terminals





Thermal Management Products for Enclosures

CSF 060 Heaters

NEW



50-150W PTC Heaters

- With integral fixed point T-stat
- AC and DC
- Self-regulating
- Double-insulated
- DIN rail mount





Thermal Management Products for Enclosures

HVL 031 Fan Heater



100-400W Fan Heater

- 5 models
- DIN rail mount
- Touch-safe screw terminals
- Available w/o fan
- Built-in overheat protection





Thermal Management Products for Enclosures

HGL 046 Fan Heaters



250 & 400W Fan Heater

- AC & DC
- DIN rail mount
- Touch-safe screw terminals
- Built-in overheat Protection





Thermal Management Products for Enclosures

CR 027 Fan Heater



400 - 650W Fan Heater

- Integral t-stat
- PTC technology
- DIN rail mount
- Touch-safe screw terminals
- Built-in overheat Protection





Thermal Management Products for Enclosures

CR 030 Fan Heater



700 & 950W Fan Heater

- Integral t-stat or h-stat
- Foot mount
- Double-insulated design
- Built-in overheat Protection





Thermal Management Products for Enclosures

CR 130 Fan Heater



700 & 950W Fan Heater

- Integral t-stat or h-stat
- DIN rail/panel mount
- Double-insulated design
- Built-in overheat Protection





Thermal Management Products for Enclosures

REx 011 Thermostat



Explosion Proof Thermostat

- ATEX certified
E Ex d IIC T6
- 15° or 25°C switch-off temperature
- DIN rail mount





Thermal Management Products for Enclosures

CREx 020 Heater



Explosion Proof Heater

- ATEX certified
E Ex d IIC T4 or T5
- 50W or 100W
- DIN rail mount





Thermal Management Products for Enclosures

SL 025 Lights



Slimline Lights

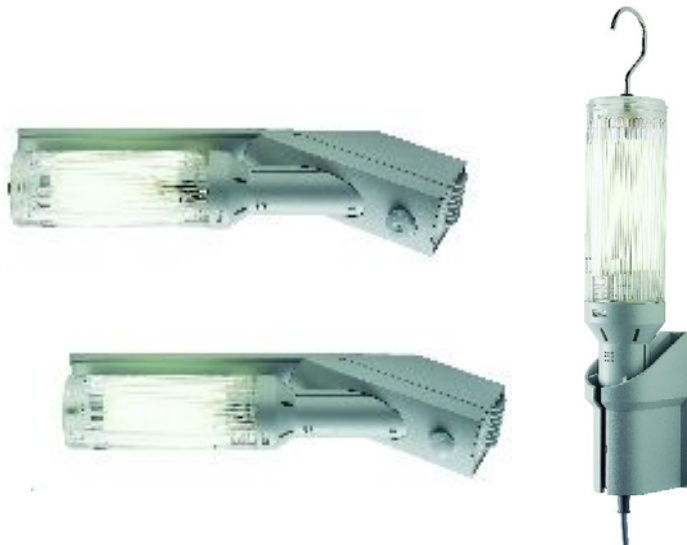
- Electronic ballast
- Integrated receptacle available
- On/off switch or motion detector
- Energy saving lamp





Thermal Management Products for Enclosures

DL 025 Lights



Lights & Work Lamps

- Fixed mounted or work light
- On/off switch or motion detector
- Energy saving lamp





Thermal Management Products for Enclosures

KL 025 Lights



DIN Rail Mount Light

- DIN rail or magnet mount
- On/off switch
- Integral receptacle
- Energy saving lamp





Thermal Management Products for Enclosures

FF 018 Fans & EF 118 Vents



12 – 118 CFM Fans

- High CFM
- Low noise
- Single side mount
- AC & DC available
- EMC version available





Thermal Management Products for Enclosures

FF 018 Fans & EF 118 Vents



176 & 323 CFM Fans

- High CFM
- Low noise
- Single side mount
- AC & DC available
- EMC version available





Thermal Management Products for Enclosures

FF 01821 Fans & Vents



Outdoor Fans & Vents

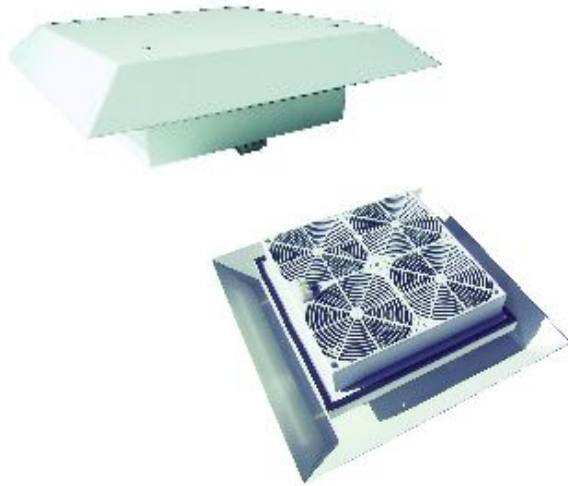
- 12 CFM
- Low noise
- Single side mount
- AC & DC available
- Integral air flow monitors available





Thermal Management Products for Enclosures

RFF 018 Pagoda Fans & Vents



Pagoda Top Fans & Vents

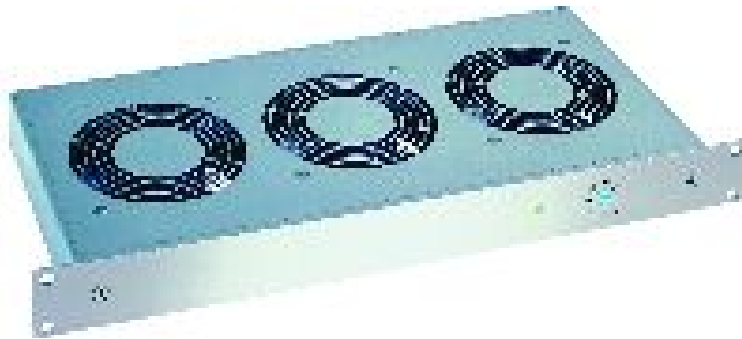
- 294 CFM fan
- Low noise
- Minimum ingress
- AC & DC available
- Four fan redundancy





Thermal Management Products for Enclosures

LE 019 19" Fan Trays



286-1016 CFM 19" Fan Trays

- 3, 6 & 9 fan models
- Low noise
- Integral t-stat available
- Function indicator LED
- AC & DC available
- Brushed aluminum or painted faceplates





Thermal Management Products for Enclosures

LC 013 Air Flow Monitor



Fan Status Indication

- Small form factor
- Easy installation
- Available integral to finger guards or universal mount





Thermal Management Products for Enclosures

DA 084 Vent Plug



3R Pressure Equalization

- IP 45 rated
- Passive ventilation
- Small size
- Easy to install





Thermal Management Products for Enclosures

DA 284 & DA 284S Vent Plugs



4X Pressure Equalization

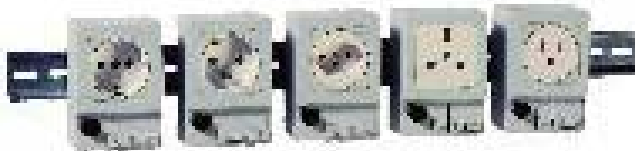
- IP 66 rated
- Semi-permeable membrane
- 1200L/hr air volume
- Plastic or 316L SS





Thermal Management Products for Enclosures

SD 035 Receptacles



DIN Rail Mount Receptacles

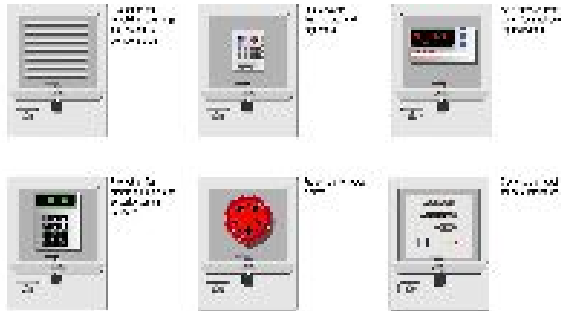
- 5 worldwide standards
- Push terminals
- Fusible or non-fused
- East to install
- Durable ABS plastic





Thermal Management Products for Enclosures

MA 086 Protective Cover



Multi-use Latch Access Cover

- Weather resistant
- UV & impact resistant
- Locking door
- Variety of uses





Thermal Management Products for Enclosures

STEGO Fix



Self-adhesive Mounting Aid

- Use as DIN rail
- Use to mount DIN rail
- VHB adhesive
- 1.1 lb. load capacity





Thermal Management Products for Enclosures



stands for:



Quality+Reliability+Innovation+Service=

