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EXCALIBUR
ENCLOSURES
VENTILATION



Excalibur Ventilation Solutions

C O N T E N T S

VENTILATION SYSTEMS & CLIMATE CONTROL



CONTROL THE CLIMATE.

Excalibur Ventilation by Phoenix EMS delivers high-performance heating and cooling solutions engineered for the harsh demands of industrial and mining environments. Built to protect critical electrical infrastructure, the Excalibur range includes roof-mounted fans, wall-mounted air conditioners, enclosure heaters, and replacement filters—each designed for efficiency, durability, and ease of installation.

With advanced features like smart inverter control, wide temperature tolerance, IP-rated protection, and energy-saving designs, Excalibur ensures reliable climate control to extend equipment life and maintain safe operating conditions. Proudly backed by Phoenix EMS, Excalibur represents a trusted standard in Australian industrial ventilation.



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Excalibur Wall Mounted Air Conditioner 500W

Features

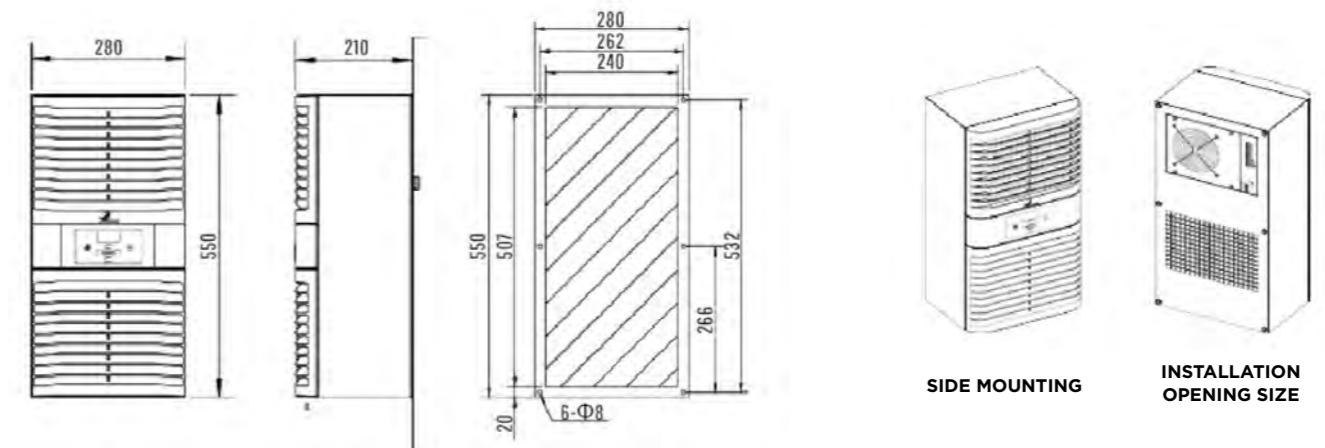
- Smart inverter control ensures a 40% reduction in energy consumption.
- Comprehensive isolation—dust proof, oil proof, mist proof moisture proof.
- Compact design, compatible with industry-standard models. Adjustable temperature range: -15 to +55°C.
- LCD display for easy parameter setting and alarm checks.
- MODBUS communication with power-on START-UP function.
- Nano coating provides anti-corrosion capabilities.
- Optional smoke, access control, and flooding alarms.
- Over 10 years of uninterrupted operation (24/7/365).



Selection table

Model No.	PVAVC050
Height/Width/Depth	550x280x210
Weight: kg	<17
Installation Mode	Outdoor (side mounting)
Working Temperature	-15 - +55
Noise Level	65
IP protection class	IP54
Refrigerant	R134a
Refrigerating capacity 135/135	500-550
Input power @135/L35	260-280
Input current @L35/L35	1.3-1.35
Rated Voltage	1-,220,50/60

Dimensions



INDUSTRIAL AIR COOLED AIR CONDITIONERS

Excalibur Wall Mounted Air Conditioners deliver reliable, energy-efficient cooling for industrial enclosures, with smart inverter control for up to 40% energy savings. Designed for harsh environments, they offer full protection against dust, oil, mist, and moisture, with nano coating for corrosion resistance. Compact and compatible with industry standards, features include a wide -15°C to +55°C temperature range, LCD display, MODBUS communication, and optional smoke, access, and flood alarms—built for over 10 years of continuous operation.



INDUSTRIAL AIR COOLED AIR CONDITIONER

Excalibur Wall Mounted Air Conditioner 1000-2000W



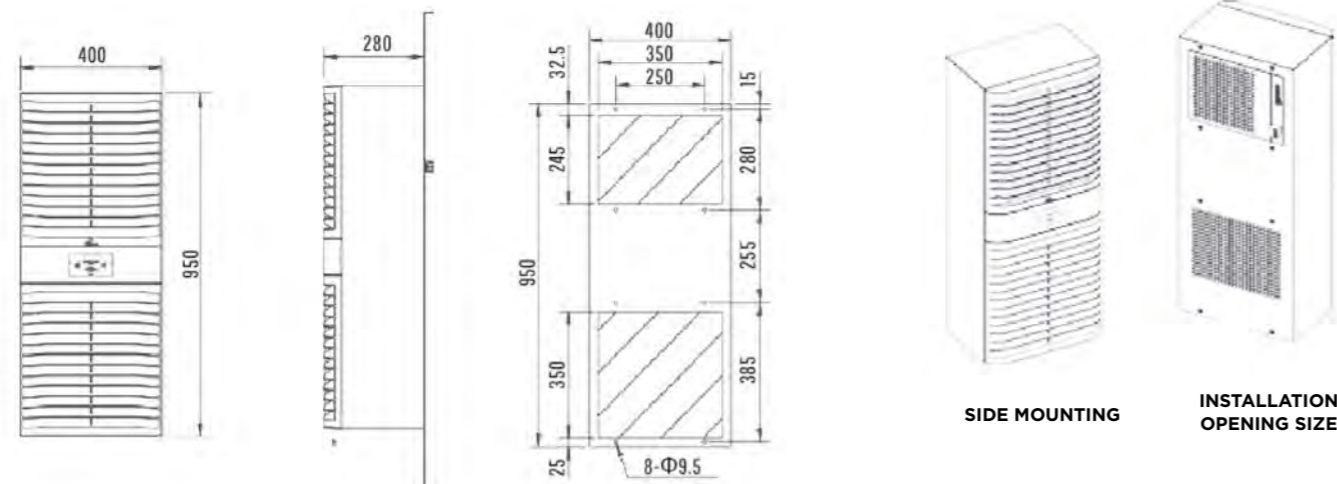
Features

- Smart inverter control ensures a 40% reduction in energy consumption.
- Comprehensive isolation—dust proof, oil proof, mist proof moisture proof.
- Compact design, compatible with industry-standard models. Adjustable temperature range: -15 to +55°C.
- LCD display for easy parameter setting and alarm checks.
- MODBUS communication with power-on START-UP function.
- Nano coating provides anti-corrosion capabilities.
- Optional smoke, access control, and flooding alarms.
- Over 10 years of uninterrupted operation (24/7/365).

Selection table

Model No.	PVAVC100	PVAVC150	PVAVC200
Height/Width/Depth	950x400x280	950x400x280	950x400x280
Weight: kg	<41	<41	<41
Installation Mode	Outdoor (side mounting)	outdoor (side mounting)	outdoor (side mounting)
Working Temperature	-15 - +55	-15 - +55	-15 - +55
Noise Level	65	65	65
IP protection class	IP54	IP54	IP54
Refrigerant	R134a	R134a	R134a
Refrigerating capacity 135/135	1100-1300	1500-1700	2000-2100
Input power @135/L35	540-680	750-900	1000-1200
Input current @L35/L35	2.5 - 3.2	3.5 - 4.2	4.6 - 5.7
Rated Voltage	1-,220,50/60	1-,220,50/60	1-,220,50/60

DIMENSIONS



INDUSTRIAL AIR COOLED AIR CONDITIONER

Excalibur Wall Mounted Air Conditioner 4000W



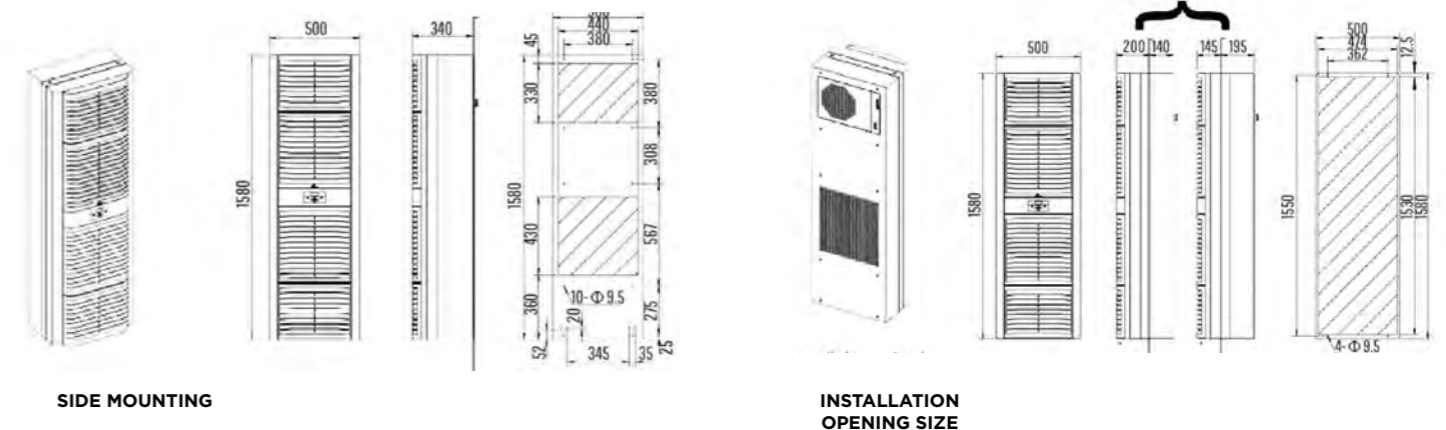
Features

- Smart inverter control ensures a 40% reduction in energy consumption.
- Comprehensive isolation—dust proof, oil proof, mist proof moisture proof.
- Compact design, compatible with industry-standard models. Adjustable temperature range: -15 to +55°C.
- LCD display for easy parameter setting and alarm checks.
- MODBUS communication with power-on START-UP function.
- Nano coating provides anti-corrosion capabilities.
- Optional smoke, access control, and flooding alarms.
- Over 10 years of uninterrupted operation (24/7/365).

Selection table

Model No.	PVAVC400
Height/Width/Depth	1580x500x340
Weight: kg	89
Installation Mode	Side mounting / door mounting
Working Temperature	-15 - +55
Noise Level	65
IP protection class	IP54
Refrigerant	R134a
Refrigerating capacity 135/135	4000-4500
Input power @135/L35	1900-2600
Input current @L35/L35	3.1 - 4.2
Rated Voltage	3-,380,50/60
Air switch	3,10

DIMENSIONS



TOP MOUNTED COOLING UNIT



TOP MOUNTED COOLING UNITS

Designed for medium-sized electrical cabinets, this roof-mounted unit delivers efficient, reliable cooling for Australian conditions. With zero condensed water discharge, self-adjusting thermostat, and real-time temperature display, it ensures precise control and optimal airflow. Compact and low-maintenance, it enhances space efficiency while providing powerful thermal performance.

TOP MOUNTED COOLING UNIT

Excalibur Roof Mounted Air Conditioners 680W, 825W

Features

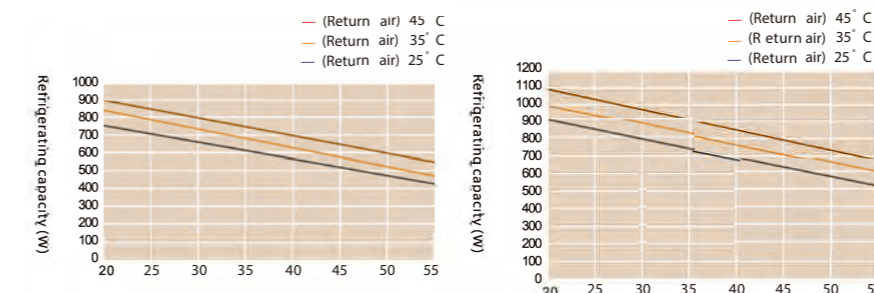
- Efficient cooling for industrial enclosures
- Enhances the space management and efficiency of your enclosure setup.
- Suitable for medium-sized electric cabinets.
- Zero Condensed Water Discharge:
- Self-Adjustable Thermostat
- Provides real-time display of cabinet temperature.
- Allows for precise temperature control and monitoring.
- Optimizes air circulation within the cabinet.
- Ensures superior performance and efficient cooling.
- Reliable enclosure Air Conditioner designed for Australian climate to ensure



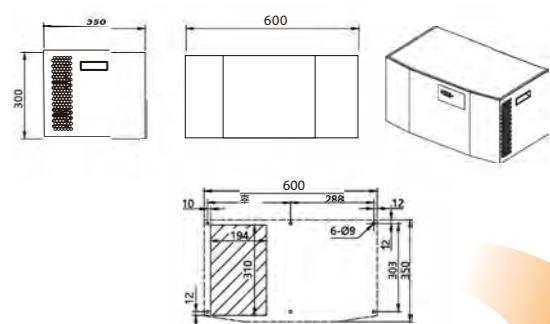
Selection Table

Model No.	PVARC680T	PVARC825T
Factory ID No.	30200010	30200011
Dimensions) (WxHxD)	600 x 300 x 350mm	
Refrigeration Data (L35/L35)	680W	825W
Cooling Capacity (ISO/35)	540W	620W
Refrigerant	R134a	
Temperature Setting	(adjustment range is from)+20°C(+68 °F)to)+40°C(+104 °F), (factory set)+35°C(+95°F)	
Air Volume, internal Circuit	290m ³ /h	
Air Volume, external Circuit	400m ³ /h	
Condensate Discharge	(with condensate discharge hose)	
Refrigerant Quantity	300g	
Rated voltage	AC 230V	
Rated frequency	50Hz	
Range of operation	207-253V	
Power consumption at L35/35	473W	
Rated current at L35/35)	2.3A	
Starting current at L35/35	10.2A	
Connection	plug-in connector	
weight	25kg	27kg
Fitting position	Top-of-Rack	
Housing	Galvanized sheet steel/power electroplating paint; the stainless steel cover is available on request	
Color	RAL 7035	
Security parameter	DIN 31001	
Protection Level	biggest environmental temperature: 55°C, Maximum relative humidity 80%, L35/L35(EN 814)	
Protection Level	IP 54	
(Approval)	CE	

PERFORMANCE CURVE



DIMENSIONS



TOP MOUNTED COOLING UNIT

Excalibur Roof Mounted Air Conditioners 1100W, 1500



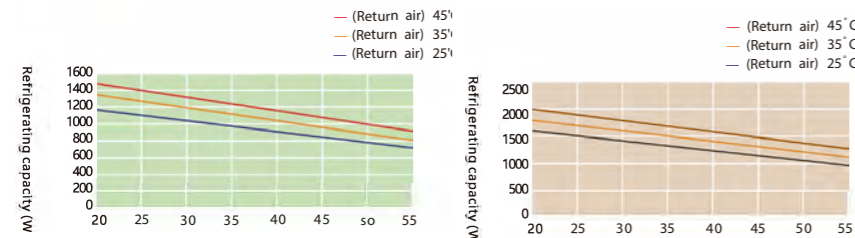
Features

- Efficient cooling for industrial enclosures
- Enhances the space management and efficiency of your enclosure setup.
- Suitable for medium-sized electric cabinets.
- Zero Condensed Water Discharge:
- Self-Adjustable Thermostat
- Provides real-time display of cabinet temperature.
- Allows for precise temperature control and monitoring.
- Optimizes air circulation within the cabinet.
- Ensures superior performance and efficient cooling.
- Reliable enclosure Air Conditioner designed for Australian climate to ensure

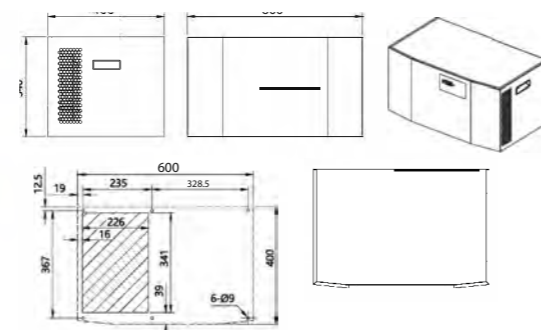
Selection table

Model No.	PVARC1100T	PVARC1500T
Factory ID No.	30200012	30200013
Dimensions) (WxHxD)	600 x 340 x 400mm	
Refrigeration Data (L35/L35)	1100W	1500W
Cooling Capacity (ISO/35)	850W	1200W
Refrigerant	R134a	
Temperature Setting	(adjustment range is from)+20°C(+68 °F)to+40°C(+104 °F), (factory set)+35°C(+95°F)	
Air Volume, internal Circuit	380m ³ /h	420m ³ /h
Air Volume, external Circuit	500m ³ /h	550m ³ /h
Condensate Discharge	(with condensate discharge hose)	
Refrigerant Quantity	850g	
Rated voltage	AC 230V	
Rated frequency	50Hz	
Range of operation	207-253V	
Power consumption at L35/35	689W	
Rated current at L35/35)	3.1A	
Starting current at L35/35	16.2A	
Connection	plug-in connector	
weight	36kg	38kg
Fitting position	Top-of-Rack	
Housing	Galvanized sheet steel/power electroplating paint; the stainless steel cover is available on request	
Color	RAL 7035	
Security parameter	DIN 31001	
Protection Level	biggest environmental temperature: 55°C, Maximum relative humidity 80%, L35/L35(EN 814)	
Protection Level	IP 54	
(Approval)	CE	

PERFORMANCE CURVE



DIMENSIONS



TOP MOUNTED COOLING UNIT

Excalibur Roof Mounted Air Conditioners 2000W, 2500W



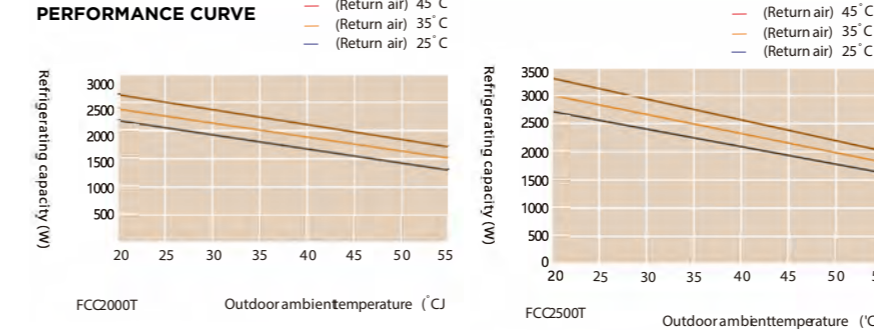
Features

- Efficient cooling for industrial enclosures
- Enhances the space management and efficiency of your enclosure setup.
- Suitable for medium-sized electric cabinets.
- Zero Condensed Water Discharge:
- Self-Adjustable Thermostat
- Provides real-time display of cabinet temperature.
- Allows for precise temperature control and monitoring.
- Optimizes air circulation within the cabinet.
- Ensures superior performance and efficient cooling.
- Reliable enclosure Air Conditioner designed for Australian climate to ensure

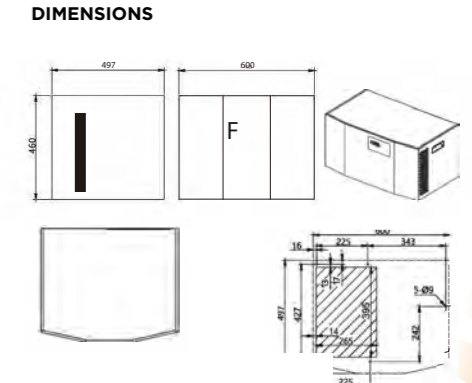
Selection table

Model No.	PVARC2000T	PVARC2500T
Factory ID No.	30200014	30200015
Dimensions) (WxHxD)	600 x 460 x 497 mm	
Refrigeration Data (L35/L35)	2000W	2500W
Cooling Capacity (ISO/35)	1500W	2000W
Refrigerant	R134a	
Temperature Setting	(adjustment range is from)+20°C(+68 °F)to+40°C(+104 °F), (factory set)+35°C(+95°F)	
Air Volume, internal Circuit	500m ³ /h	540m ³ /h
Air Volume, external Circuit	900m ³ /h	1000m ³ /h
Condensate Discharge	(with condensate discharge hose)	
Refrigerant Quantity	1000g/1050g	
Rated voltage	AC 230V	
Rated frequency	50Hz	
Range of operation	207-253V	
Power consumption at L35/35	828W	957W
Rated current at L35/35)	3.6 A	4.2 A
Starting current at L35/35	21.6A	25.2A
Connection	plug-in connector	
weight	54kg	56kg
Fitting position	Top-of-Rack	
Housing	Galvanized sheet steel/power electroplating paint; the stainless steel cover is available on request	
Color	RAL 7035	
Security parameter	DIN 31001	
Protection Level	biggest environmental temperature: 55°C, Maximum relative humidity 80%, L35/L35(EN 814)	
Protection Level	IP 54	
(Approval)	CE	

PERFORMANCE CURVE



DIMENSIONS



TOP MOUNTED COOLING UNIT 3200W



Excalibur Roof Mounted Air Conditioners

Features

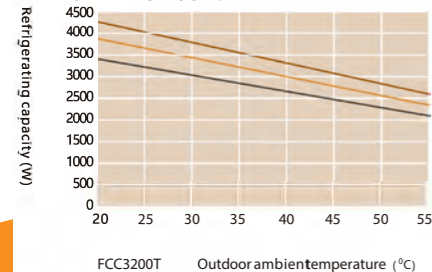
- Efficient cooling for industrial enclosures
- Enhances the space management and efficiency of your enclosure setup.
- Suitable for medium-sized electric cabinets.
- Zero Condensed Water Discharge:
- Self-Adjustable Thermostat
- Provides real-time display of cabinet temperature.
- Allows for precise temperature control and monitoring.
- Optimizes air circulation within the cabinet.
- Ensures superior performance and efficient cooling.
- Reliable enclosure Air Conditioner designed for Australian climate to ensure



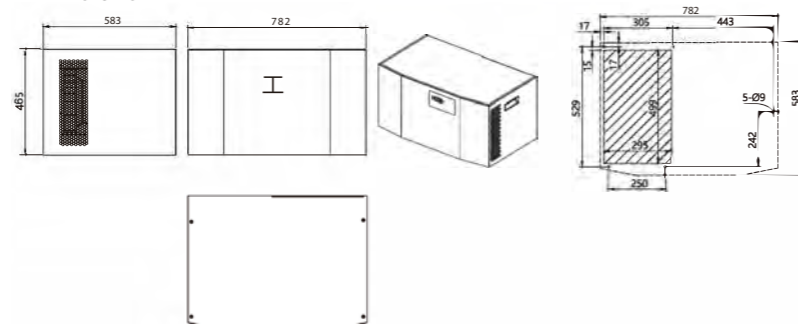
Selection Table

Model No.	PVARC3200T
Factory ID No.	30200012
Dimensions (WxHxD)	782 x 465 x 583mm
Refrigeration Data (L35/L35)	3200W
Cooling Capacity (ISO/35)	2500W
Refrigerant	R134a
Temperature Setting	(adjustment range is from)+20°C(+68 °F)to)+40°C(+104 °F), (factory set)+35°C(+95°F)
Air Volume, internal Circuit	1150m ³ /h
Air Volume, external Circuit	1750m ³ /h
Condensate Discharge	(with condensate discharge hose)
Refrigerant Quantity	11 00g
Rated voltage	230VAC/380VAC
Rated frequency	50Hz
Range of operation	207 -253V /342-41 BV
Power consumption at L35/35	1335W/1310W
Rated current at L35/35)	6.0N3.3A
Starting current at L35/35	34.1N30.8A
Connection	plug-in connector
weight	70 kg
Fitting position	Top-of-Rack
Housing	Galvanized sheet steel/power electroplating paint; the stainless steel cover is available on request
Color	RAL 7035
Security parameter	DIN 31001
Protection Level	biggest environmental temperature: 55°C, Maximum relative humidity 80%, L35/L35(EN 814)
Protection Level	IP 54
(Approval)	CE

PERFORMANCE CURVE



DIMENSIONS



INDUSTRIAL AIR COOLED AIR CONDITIONER



INDUSTRIAL FILTERS & FILTER FANS

The Excalibur Ventilation Unit by Phoenix EMS is purpose-built for efficient control cabinet ventilation. Available in both 230VAC and 24VDC options, it features quick and simple mounting for hassle-free installation. Its compact design saves space with minimal external dimensions, while versatile mounting compatibility ensures easy integration into various setups. Finished in RAL7035 and rated IP54, it delivers reliable protection against dust and water ingress in demanding industrial environments.

INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units (Full Range)



Features

- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



Filter Unit Selection Table

Exit Filter	DESCRIPTION	DIMENSIONS	OPTIONAL MATCHING FAN
PVA000BPB	Exit Filter	109X109mm	PVA500BPB, PVA524BPB
PV1000BPB	Exit Filter	150x150mm	PV1600BPB, PV1524BPTB
PVB000BPB	Exit Filter	204x204mm	PVB500BPB, PVB1524BPB
PV2000BPB	Exit Filter	250x250mm	PV2300BPB, PV2500BPB
PV3000BPB	Exit Filter	325x325mm	PV3500BPB, PV3600BPB



INDUSTRIAL FILTER UNIT

INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units (Full Range)



Features

- Voltage: 230VAC and 24VDC options.
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



Filter With Fan Selection Table

FILTER FANS	DESCRIPTION	AIR THROUGHPUT	UNIMPEDED AIRFLOW	VOLTAGE	DIMENSIONS	MATCHING FILTER
PVA500BPB	Filter with Fan	24 m3/h	35 m3/h	230VAC	109X109mm	PVA000BPB
PVA524BPB	Filter with Fan	24 m3/h	35 m3/h	24VDC	109X109mm	PVA000BPB
PV1600BPB	Filter with Fan	50 m3/h	67 m3/h	230VAC	150X150mm	PV1000BPB
PV1524BPTB	Filter with Fan	50 m3/h	67 m3/h	24VDC	150X150mm	PV1000BPB
PVB500BPB	Filter with Fan	85 m3/h	120 m3/h	230VAC	204X204mm	PVB000BPB
PVB1524BPB	Filter with Fan	85 m3/h	120 m3/h	24VDC	204X204mm	PVB000BPB
PV2300BPB	Filter with Fan	120 m3/h	240 m3/h	230VAC	250X250mm	PV2000BPB
PV2500BPB	Filter with Fan	170 m3/h	265 m3/h	230VAC	250X250mm	PV2000BPB
PV3500BPB	Filter with Fan	360 m3/h	600 m3/h	230VAC	325X325mm	PV3000BPB
PV3600BPB	Filter with Fan	500 m3/h	800 m3/h	230VAC	325X325mm	PV3000BPB



INDUSTRIAL FILTER UNIT WITH MATCHING FAN



INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units PVA500BPB, PVA524BPB



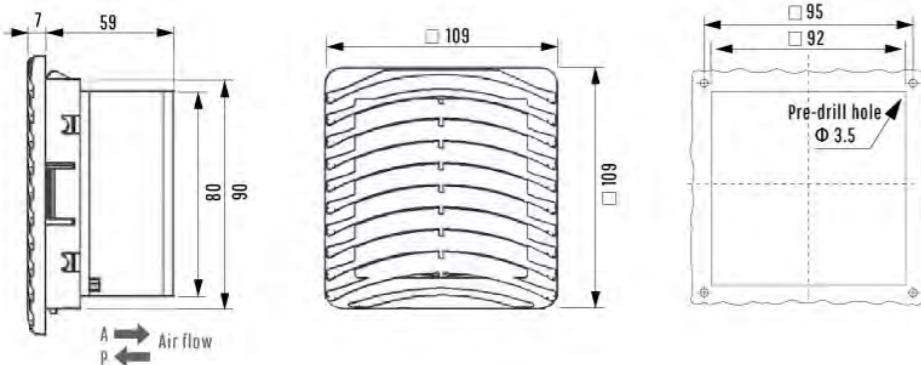
Features

- Voltage: 240VAC and 24VDC options.
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54

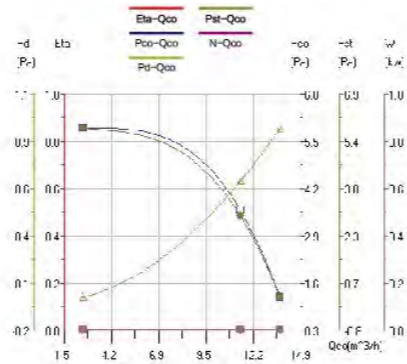
Filter And Fan Unit Specifications

Model No.	PVA500BPB	PVA524BPB
Rated operating voltage V	220V-240VAC	24VDC
Frequency Hz	50/60	-
Air throughput,unimpeded air flow	35m3/h	35m3/h
Air throughput with Exit filter including standard filter mat	24/27m3/h	24/27m3/h
Axial fan	Self-starting shaded pole motor	DC motor
Rated current max.	0.08-0.07A	0.4A
Rated Power	13W	9.6w DC
Noise level	35dB(A)	35dB(A)
Operating temperature range	-30°C - +70 °C	-30°C - +70 °C
Model No. Exit filter	PVA000BPB	
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)	
Air flow direction	Air-in as default; air-out optional	
Protection Level	IP54	

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units PV1600BPB, PV1524BPTB



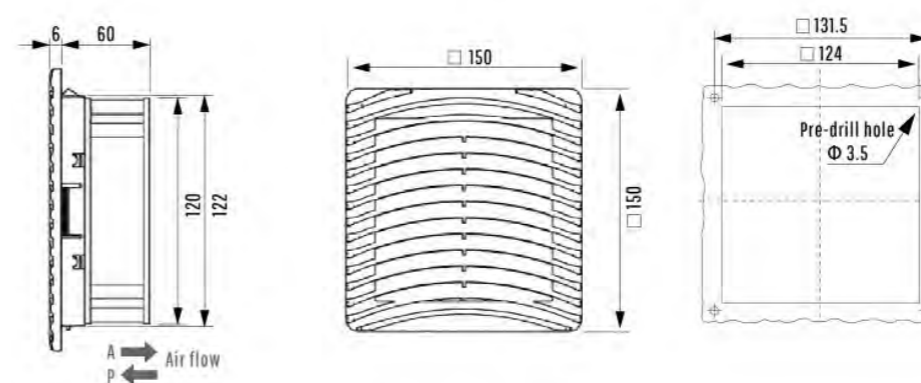
Features

- Voltage: 240VAC and 24VDC options.
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54

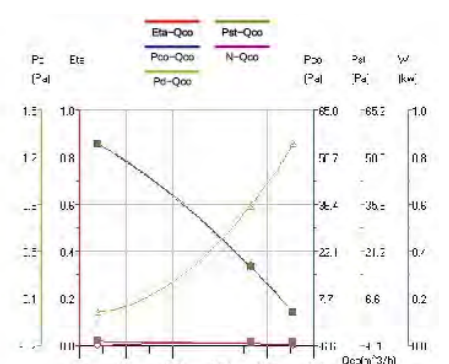
Filter And Fan Unit Specifications

Model No.	PV1600BPB	PV1524BPTB
Rated operating voltage V	220V-240VAC	24VDC
Frequency Hz	50/60	-
Air throughput,unimpeded air flow	67m3/h	67m3/h
Air throughput with Exit filter including standard filter mat	55/70m3/h	55/70m3/h
Axial fan	Self-starting shaded pole motor	DC motor
Rated current max.	0.14-0.1A	0.43A
Rated Power	22W	7.2W
Noise level	45db/a	45db/a
Operating temperature range	-30°C - +70 °C	-30°C - +70 °C
Model No. Exit filter	PV1000BPB	
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)	
Air flow direction	Air-in as default; air-out optional	
Protection Level	IP54	

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units PVB500BPB PVB1524BPB



Features

- Voltage: 240VAC and 24VDC options.
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



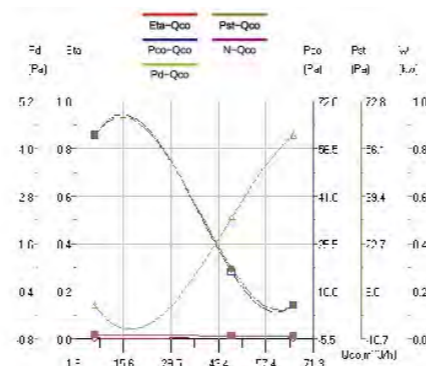
Filter and fan unit specifications

Model No.	PVB500BPB	PVB1524BPB
Rated operating voltage V	220V-240V	24VDC
Frequency Hz	50/60	-
Air throughput, unimpeded air flow	120m ³ /h	120m ³ /h
Air throughput with Exit filter including standard filter mat	85-100m ³ /h	85-100m ³ /h
Axial fan	Self-starting shaded pole motor	DC motor
Rated current max.	0.14-0.1A	0.43A
Rated Power	22W	7.2W
Noise level	41/42dB(A)	41dB(A)
Operating temperature range	-30°C - +70 °C	-30°C - +70 °C
Model No. Exit filter	PVB000BPB	
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)	
Air flow direction	Air-in as default; air-out optional	
Protection Level	IP54	

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTERS / FILTERFANS

Excalibur Filter Units PV2300BPB



Features

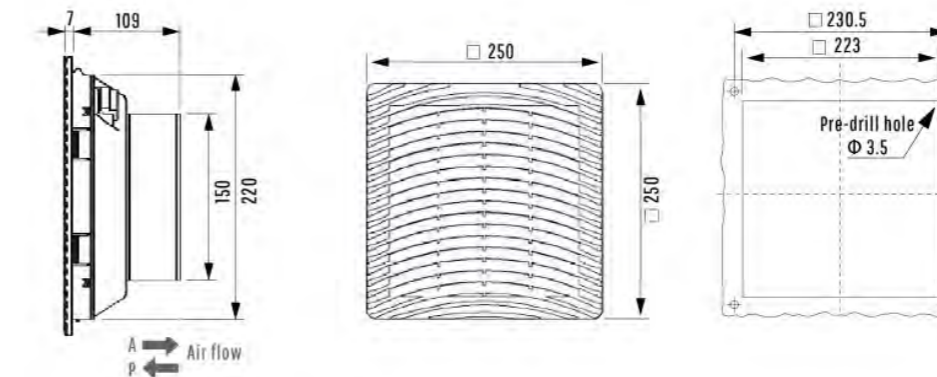
- Voltage: 240VAC
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



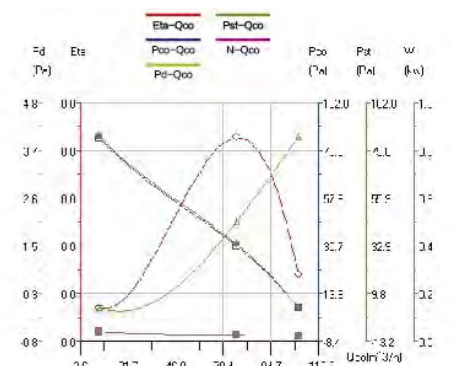
Filter and fan unit specifications

Model No.	PV2300BPB
Rated operating voltage V	220V-240V
Frequency Hz	50/60
Air throughput, unimpeded air flow	240m ³ /h
Air throughput with Exit filter including standard filter mat	120/150m ³ /h
Axial fan	Self-starting shaded pole motor
Rated current max.	0.24A/0.22A
Rated Power	38W
Noise level	50dB(A)
Operating temperature range	-30°C - +70 °C
Model No. Exit filter	PV2000BPB
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)
Air flow direction	Air-in as default; air-out optional
Protection Level	IP54

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTERS / FILTERFANS



Excalibur Filter Units PV2500BPB

Features

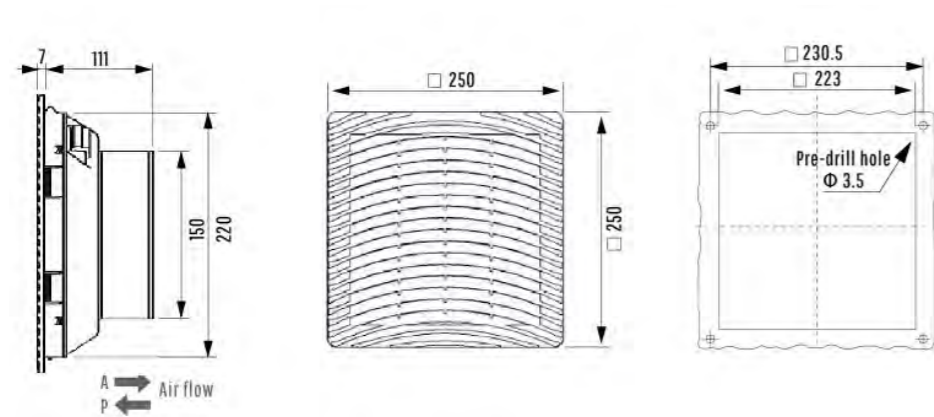
- Voltage: 240VAC
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



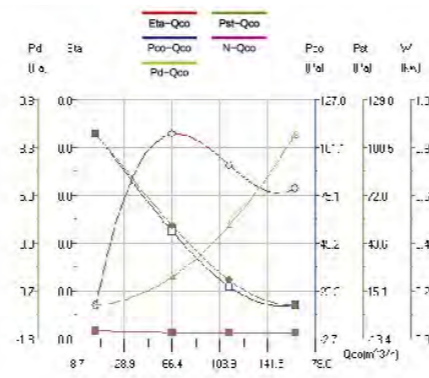
Filter And Fan Unit Specifications

Model No.	PV2500BPB
Rated operating voltage V	220V-240V
Frequency Hz	50/60
Air throughput,unimpeded air flow	265m ³ /h
Air throughput with Exit filter including standard filter mat	170/230m ³ /h
Axial fan	Self starting shaded pole motor
Rated current max.	0.30A/0.28A
Rated Power	46W
Noise level	52dB(A)
Operating temperature range	-30°C - +70 °C
Model No. Exit filter	PV2000BPB
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)
Air flow direction	Air-in as default; air-out optional
Protection Level	IP54

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTERS / FILTERFANS



Excalibur Filter Units PV3500BPB

Features

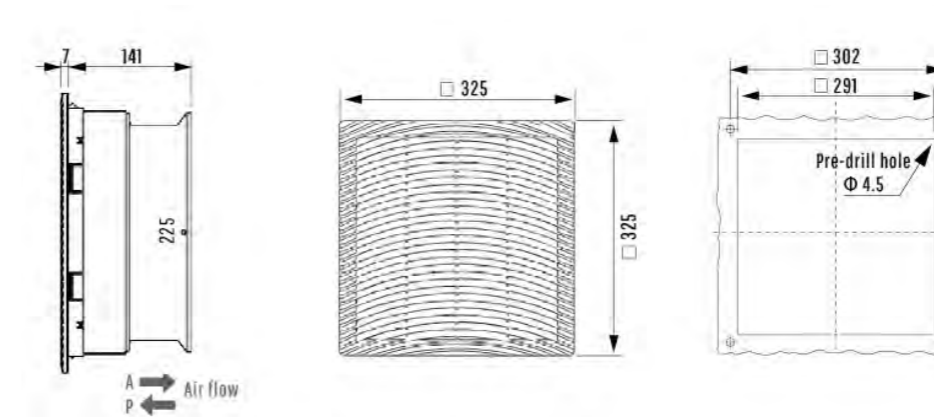
- Voltage: 240VAC
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



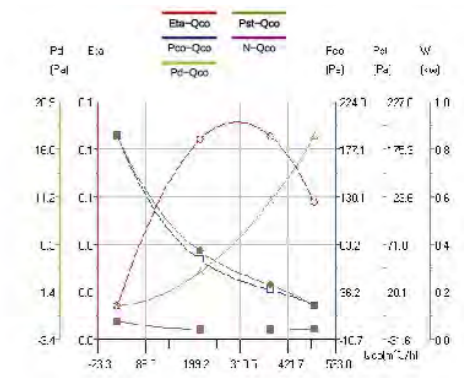
Filter And Fan Unit Specifications

Model No.	PV3500BPB
Rated operating voltage V	220V-240V
Frequency Hz	50/60
Air throughput,unimpeded air flow	600m ³ /h
Air throughput with Exit filter including standard filter mat	360/490m ³ /h
Axial fan	Capacitor operator
Rated current max.	0.29A
Rated Power	63W
Noise level	59dB(A)
Operating temperature range	-30°C - +70 °C
Model No. Exit filter	PV3000BPB
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)
Air flow direction	Air-in as default; air-out optional
Protection Level	IP54

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



INDUSTRIAL FILTER FAN

Excalibur Filter Units PV3600BPB



Features

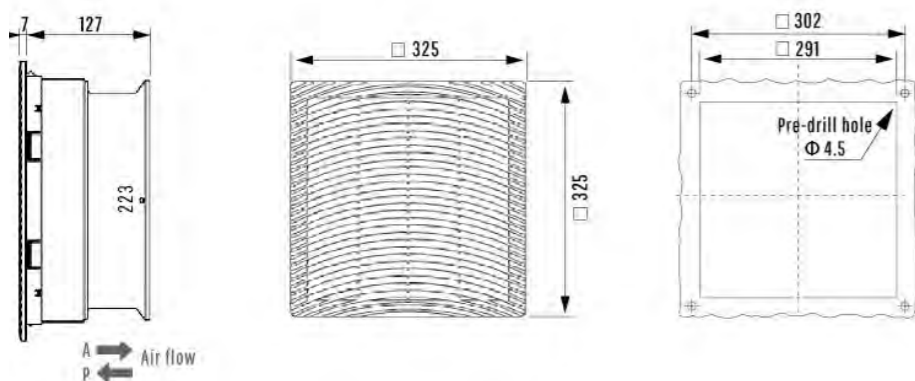
- Voltage: 240VAC
- Quick and simple mounting for hassle-free installation.
- Cabinet Ventilation: Tailored for ventilating control cabinets and enclosures.
- Space-Saving: Compact size with small external dimensions
- Versatile Mounting: Compatible with various setups
- RAL7035
- IP Rating: IP54



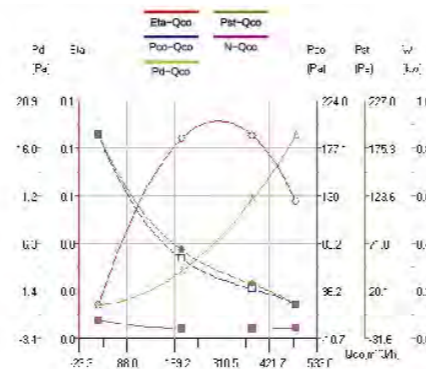
FILTER AND FAN UNIT SPECIFICATIONS

Model No.	PV3600BPB
Rated operating voltage V	220V-240V
Frequency Hz	50/60
Air throughput, unimpeded air flow	800m ³ /h
Air throughput with Exit filter including standard filter mat	500/600m ³ /h
Axial fan	Capacitor operated
Rated current max.	0.65A
Rated Power	52W
Noise level	59dB(A)
Operating temperature range	-30°C - +70 °C
Model No. Exit filter	PV3000BPB
Material	Made of injection-moulded thermoplastic, customizable flame retardant material (UL94-40)
Air flow direction	Air-in as default; air-out optional
Protection Level	IP54

DIMENSIONS



CHARACTERISTICS OF STATIC PRESSURE



**LED LIGHTING
FOR MINING
& INDUSTRY**

ROOF TOP VENTILATION



ROOF TOP VENTILATION

The Phoenix Roof Top Ventilation Fan is designed to efficiently extract hot air from electrical enclosures, supporting natural convection to reduce heat build-up and prevent hot spots. Installed at the top of the enclosure, it works in conjunction with filtered air inlets to promote effective airflow while maintaining internal cleanliness. The unit features integrated filters to prevent dust and moisture ingress, with the system designed to pressurise the enclosure and minimise the risk of contaminants entering. With a low-profile design, IP54 protection as standard (upgradable to IP55), and easy filter maintenance access, the Phoenix Roof Top Ventilation Fan is a high-quality solution for demanding industrial environments.

ROOF TOP VENTILATION

Excalibur Roof Top Ventilation Fan



Features

- Enclosure roof top ventilation fan
- Efficiently Vents High Heat Loads
- Centrifugal Fan Design
- Compatible with Industrial Filter Unit Range



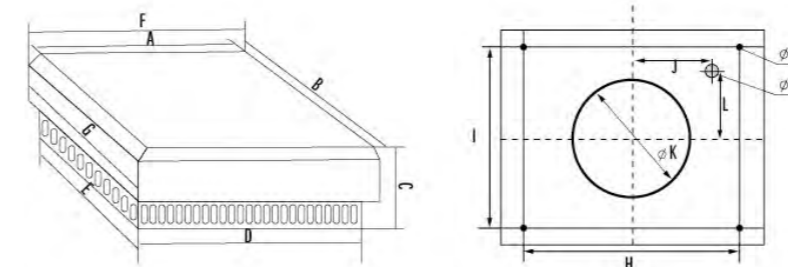
Specifications

MODEL NO.	UNIT	PNTORRO600BF	PNTORRO860BF	PNTORRO1250BF
Rated voltage	V	230	230	230
Rated frequency	Hz	50/60	50/60	50/60
Air flow, Ventilation freely	m ³ /h	570-620	860-900	1200-1340
Axle flow blower		Capacitance electromotion	Capacitance electromotion	Capacitance electromotion
Rated current	A	0.34-0.26	0.40-0.38	0.88-0.60
Rated Power	W	75-58	90-85	200-135
Noise level	dB(A)	62-64	73-74	69-71
Operating temperature range	C	-10-+55	-10-+55	-10-+60
Colour	RAL	RAL 7035	RAL 7035	RAL 7035
Protection Category		IP54 standard, IP55 plus precision filter mat, IP56 plus precision filter mat and protective cover.		

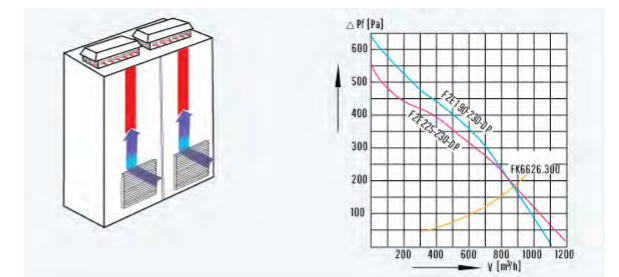
The quantity and size of the wind inlet filter can be decided according to the concrete requirement

Type	A/B	C	D/E	F/G	H/I	J	ΦK	Φ1	Φ2	L
PNTORRO600BF	270	130	267	310	226.8	98.4	195	7.8	15	97
PNTORRO860BF	270	130	267	310	226.8	98.4	195	7.8	15	97
PNTORRO1250BF	270	130	267	310	226.8	98.4	195	7.8	15	97

DIMENSIONS



POWER SPECIFIC PROPERTY CURVE





HEATERS

Excalibur Enclosure Heaters are designed to provide reliable, energy-efficient heating for control cabinets and electrical enclosures. Featuring a durable aluminium profile body, they deliver even heat distribution through a natural chimney effect. With dynamic warm-up and a wide voltage range, these heaters adapt to varying conditions while built-in temperature limiting ensures safe operation. Quick to install with clip fixing, Excalibur heaters offer an easy, space-saving solution to prevent condensation and maintain optimal internal temperatures.

Excalibur Enclosure Heaters 15W

Features

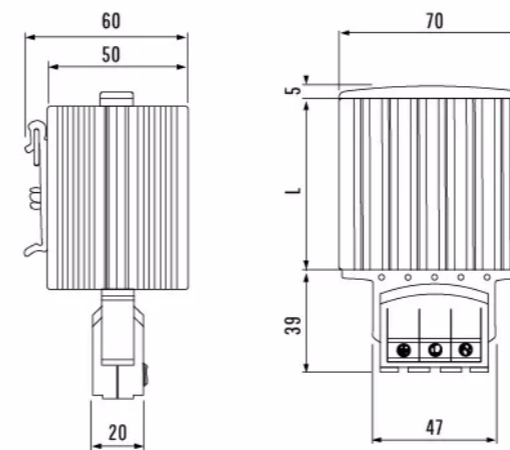
- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation



Specifications

MODEL NO.	PVSHT15W
Operating voltage	110-250V AC/DC
Heating Capacity	15W
Inrush Current max.	1.5W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1(earthed)
Certificate	CE
Length (mm)	70
Weight (kg)	0.25

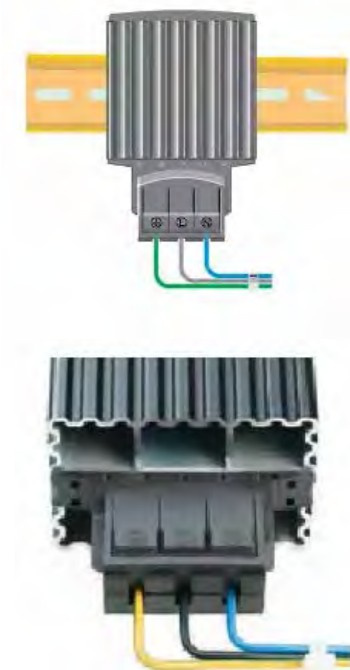
DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



HEATERS

Excalibur Enclosure Heaters 30W

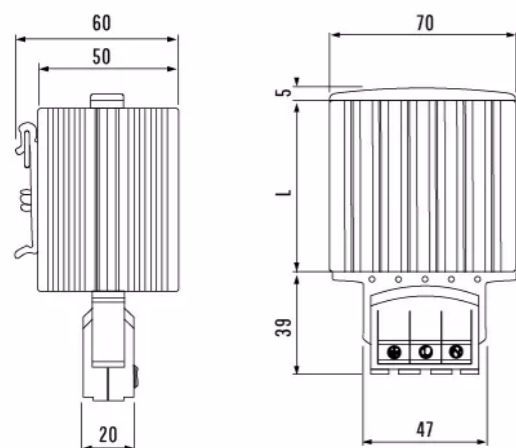
Features

- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Specifications

MODEL NO.	PVSHT30W
Operating voltage	110-250V AC/DC
Heating Capacity	30W
Inrush Current max.	2.5W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1(earthed)
Certificate	CE
Length (mm)	70
Weight (kg)	0.25

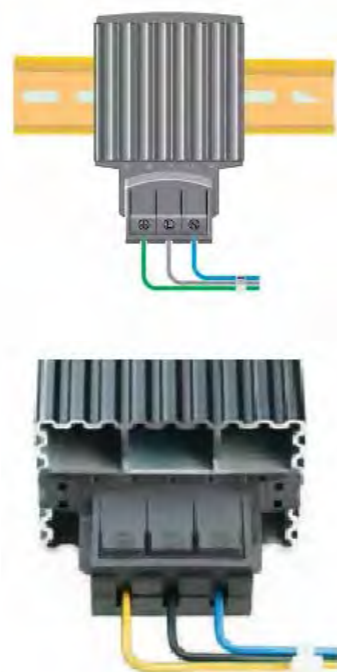
DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



HEATERS

Excalibur Enclosure Heaters 45W

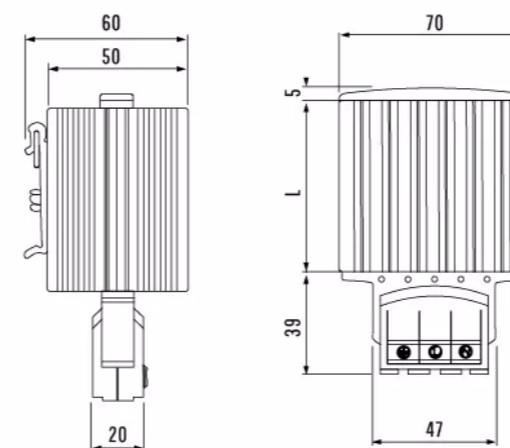
Features

- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Specifications

MODEL NO.	PVSHT45W
Operating voltage	110-250V AC/DC
Heating Capacity	45W
Inrush current max.	3.0W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1(earthed)
Certificate	CE
Length (mm)	70
Weight (kg)	0.25

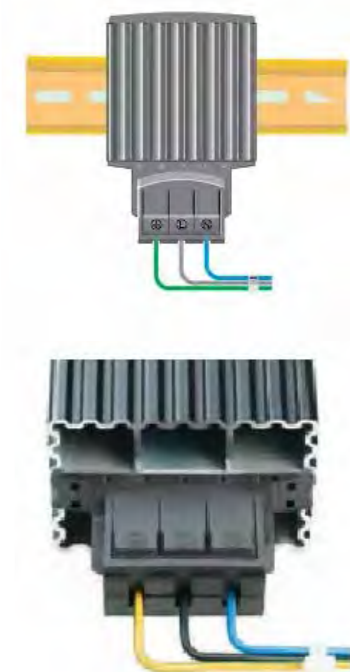
DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



HEATERS

Excalibur Enclosure Heaters 60W

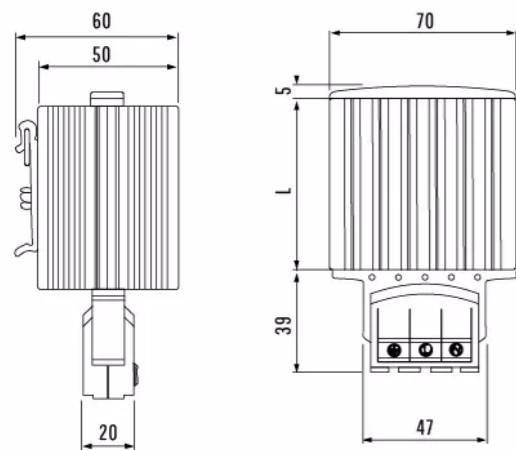
Features

- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Specifications

MODEL NO.	PVSHT60W
Operating voltage	110-250V AC/DC
Heating Capacity	60W
Inrush Current max.	3.5W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1(earthed)
Certificate	CE
Length (mm)	70
Weight (kg)	0.25

DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



HEATERS

Excalibur Enclosure Heaters 75W

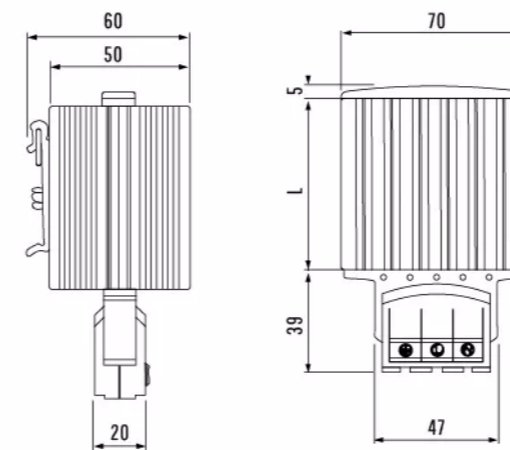
Features

- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

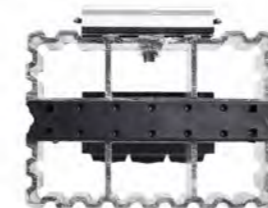
Specifications

MODEL NO.	PVSHT75W
Operating voltage	110-250V AC/DC
Heating Capacity	75W
Inrush Current max.	3.5W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1(earthed)
Certificate	CE
Length (mm)	70
Weight (kg)	0.25

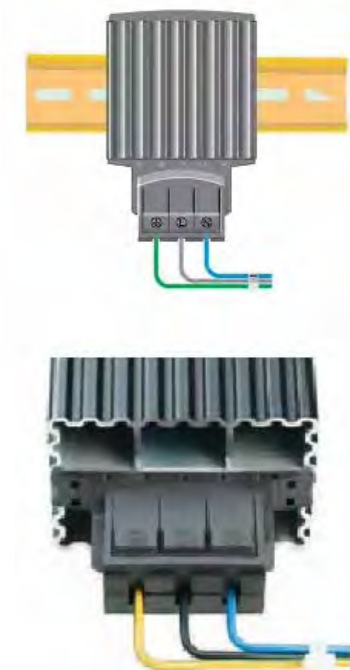
DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



HEATERS

Excalibur Enclosure Heaters 100W

Features

- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Specifications

MODEL NO.	PVSHT100W
Operating voltage	110-250V AC/DC
Heating Capacity	100W
Inrush Current max.	4.5W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1 (earthed)
Certificate	CE
Length (mm)	140
Weight (kg)	0.40



HEATERS

Excalibur Enclosure Heaters 150W

Features

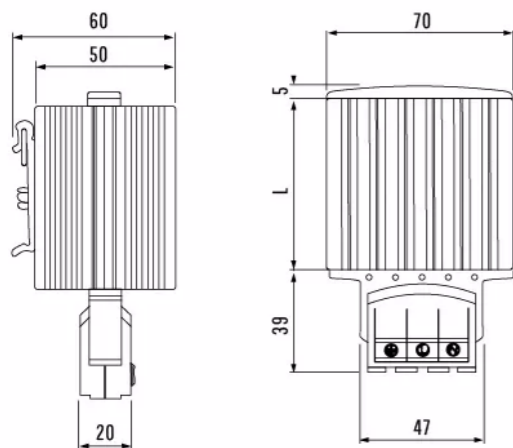
- Pressure clamp connectors
- Dynamic warm up
- Wide voltage range
- Aluminium profile heater body creates a chimney effect even heating
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

Specifications

MODEL NO.	PVSHT150W
Operating voltage	110-250V AC/DC
Heating Capacity	150W
Inrush Current max.	9W
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	Extruded aluminium profile, anodised
Connection casing	3 pressure clamps for stranded wire 0.5-1.5mm ² , (with wire and ferrule) and rigid wire 0.5-2.5mm ² , plastic according to UL94 V-0, black
Mounting	Clip for 35mm DIN rail, EN 50022
Fitting position	Vertical
Operating/Storage temperature	-4570°C (-49 +158°F)
Protection type/Protection class	IP20/1 (earthed)
Certificate	CE
Length (mm)	140
Weight (kg)	0.40



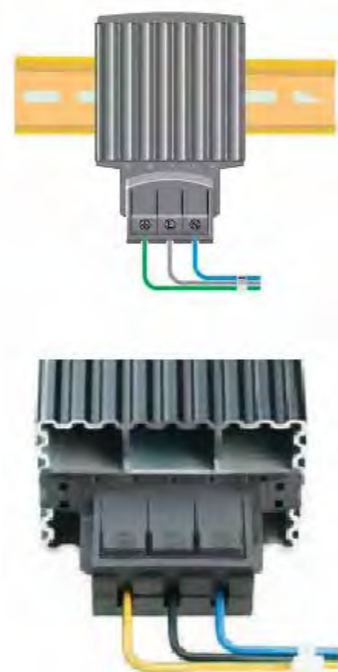
DIMENSIONS



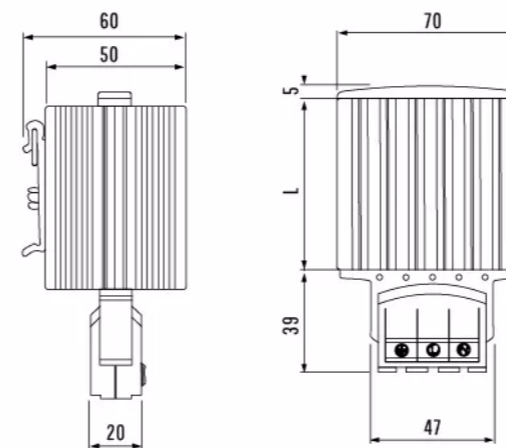
PROFILE VIEW



CONNECTION DIAGRAMS



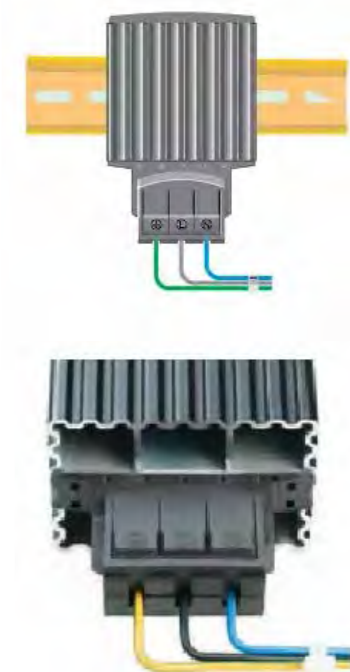
DIMENSIONS



PROFILE VIEW



CONNECTION DIAGRAMS



THERMOSTATS



THERMOSTATS

The Phoenix Roof Top Ventilation Fan is designed to efficiently extract hot air from electrical enclosures, supporting natural convection to reduce heat build-up and prevent hot spots. Installed at the top of the enclosure, it works in conjunction with filtered air inlets to promote effective airflow while maintaining internal cleanliness. The unit features integrated filters to prevent dust and moisture ingress, with the system designed to pressurise the enclosure and minimise the risk of contaminants entering. With a low-profile design, IP54 protection as standard (upgradable to IP55), and easy filter maintenance access, the Phoenix Roof Top Ventilation Fan is a high-quality solution for demanding industrial environments.

THERMOSTATS

Excalibur Enclosure Heaters PVHTR2



Features

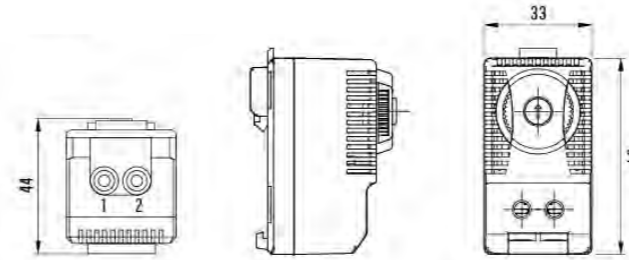
- Thermostat (normally closed)
- Large setting range
- Simple to mount
- High switching performance



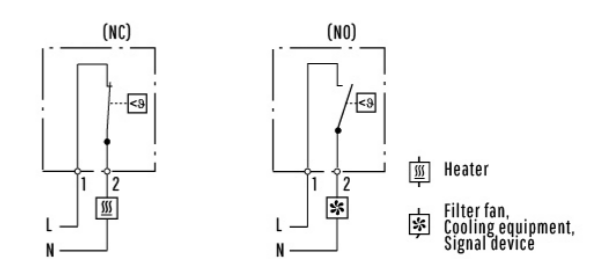
Specifications

MODEL NO.	PVHTR2
Temperature range	0-+60 °C
NC (Normally closed)	When the temperature reaches the set value, open circuit
NO (Normally open)	When the temperature exceeds the set value action, closed circuit
Switch temperature difference	7K (+4K tolerance)
Sensor element	Thermostatic bi-metal Snap-action
Contact type	<10m ohm (Incidental connection line) >100,000 cycles
Contact resistance Service life	250VAC,10(2)A, 120VAC,15(2)A, 30WDC at 24VDC to 72VDC
Max. Switching capacity Connection	2-pole terminal, clamping torque 0.5Nm max.:rigid wire 2.5mm2, stranded wire (with wire end ferrule) 1.5mm2
Casing	Plastic according to UL94 V-0, light grey
Installation	35mm DIN Installation guide
Dimensions	64 x 33 x 44mm
Weight	41.5g
fitting position	Variable
Operating/Storage temperature	-20-+80 °C
Protection type	IP20
Approvals	CE

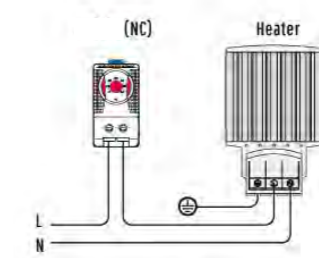
DIMENSIONS



CONNECTION DIAGRAMS



EXAMPLES OF CONNECTION



THERMOSTATS

Excalibur Enclosure Heaters PVHTV2

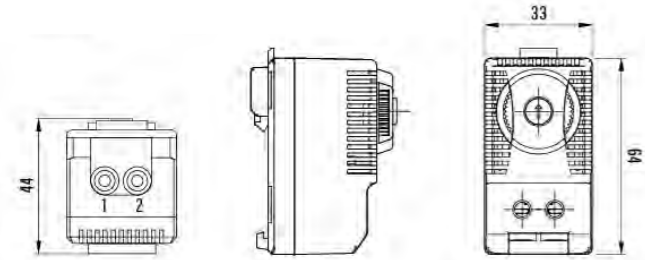
Features

- Thermostat (normally open)
- Contact maker for regulating filter fans and heat exchangers or for switching signal device when temperature limit has been exceeded
- Large setting range
- Simple to mount
- High switching performance

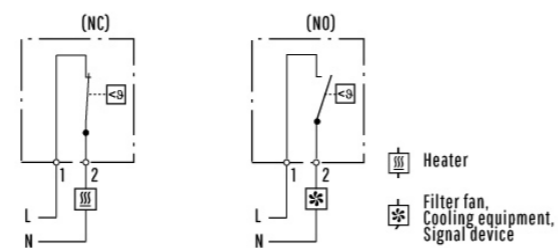
Specifications

MODEL NO.	PVHTV2
Temperature range	0-+60 °C
NO (Normally open)	When the temperature exceeds the set value action, closed circuit
Switch temperature difference	7K (+4K tolerance)
Sensor element	Thermostatic bi-metal Snap-action
Contact type	<10m ohm (Incidental connection line) >100,000 cycles
Contact resistance Service life	250VAC,10(2)A, 120VAC,15(2)A, 30WDC at 24VDC to 72VDC
Max. Switching capacity Connection	2-pole terminal, clamping torque 0.5Nm max.:rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Casing	Plastic according to UL94 V-0, light grey
Installation	35mm DIN Installation guide
Dimensions	64 x 33 x 44mm
Weight	41.5g
fitting position	Variable
Operating/Storage temperature	-20-+80 °C
Protection type	IP20
Approvals	CE

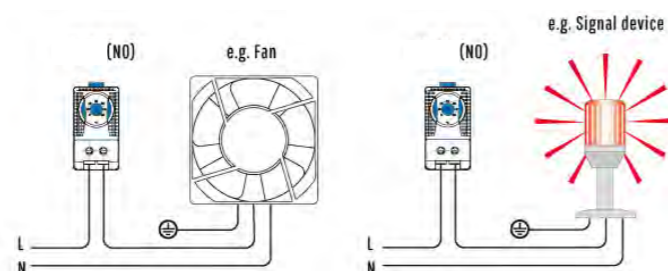
DIMENSIONS



CONNECTION DIAGRAMS



EXAMPLES OF CONNECTION



MANUFACTURED BY PHOENIX EMS



PHOENIX ISO-CONNECT

VISIBLE BREAK ISOLATORS
ENCLOSED ISOLATORS
CHANGEOVER PANELS
DECONTACTOR STATIONS
BATTERY ISOLATION ENCLOSURES
PUSHBUTTON STATIONS
LOCAL CONTROL STATIONS



ENCLOSURE OVERVIEW



STAINLESS STEEL ENCLOSURES



STAINLESS STEEL
WALL MOUNT



STAINLESS STEEL
FLANGE MOUNT



STAINLESS STEEL
SLOPED ROOF



STAINLESS STEEL
SLOPED ROOF
PLUS (GLAND PLATE)



STAINLESS STEEL
HEAVY DUTY
SLOPED ROOF



STAINLESS STEEL
TERMINAL BOX



STAINLESS STEEL
TERMINAL BOX
SLOPED ROOF



STAINLESS STEEL
PUSH BUTTON
STATION



STAINLESS STEEL
PUSH BUTTON STATION
SLOPED ROOF



STAINLESS STEEL
FLOOR STANDING

STAINLESS STEEL ENCLOSURES



STAINLESS STEEL
MINING EXTREME
SINGLE DOOR



STAINLESS STEEL
MINING EXTREME
DOUBLE DOOR

MILD STEEL ENCLOSURES



MILD STEEL
WALL MOUNT



MILD STEEL
TERMINAL BOX



MILD STEEL
1000V



PMJ1000V ENCLOSURES AND
ROLLOVER PROTECTION

ACCESSORIES



ENCLOSURE ACCESSORIES
Inner Door Kits, Plan Pockets,
Earth Strap Kit, Door Stays,
Wall Mounting Brackets,
Louvre Plates, Canopies

NON-METALLIC ENCLOSURES



NON-METALLIC
ABS SCREW TYPE
CLEAR



NON-METALLIC
ABS SCREW TYPE
GREY



NON-METALLIC
ABS HINGED DOOR
CLEAR



NON-METALLIC
ABS HINGED DOOR
GREY



NON-METALLIC POLYESTER
GRP LATCH & HINGE TYPE
Inner doors, Mounting pans Available

VENTILATION SYSTEMS & CLIMATE CONTROL



WALL MOUNTED
AIR CONDITIONERS



ROOF MOUNTED
AIR CONDITIONERS



FILTER UNITS &
FILTER FANS



ROOF
MOUNTED
FANS



THERMOSTATS
& HEATERS

LED LIGHT OVERVIEW



CONVEYOR & BULKHEAD LIGHTS



ILLUMINATOR



CYCLOPS



EXPLORER



HUNTER

HIGH-POWER FLOODLIGHTS



PHOENIX PLUS



RAIDER SERIES



HAWK 2

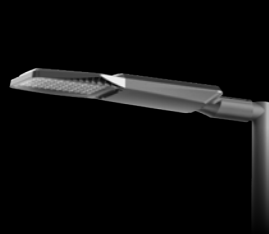


HAWK JNR



PHOENIX
CHALLENGER

AREA LIGHTING



CRUSADER



FLIGHT SERIES

LED BATTENS WEATHERPROOF



EAGLE



FALCON



KESTREL



TEXL



INHIBITOR

STRIP LIGHTING



THUNDERBIRD

TUNNEL/CONVEYOR/PLANT LIGHTS



ILLUMINATOR
EXTREME



PHOENIX
MASTER

LED HIGH & LOW BAYS



GUARDIAN



HARRIER EXTREME



HARRIER PLUS



ROVER

LINEAR LIGHTS



RAPTOR

EXIT LIGHTING



RUNNING
MAN I, II & III

WALL PACK LIGHTS



SCOUT

MOBILE MACHINERY



SPHINX 27-120

SOLAR LED



SOLARNATOR



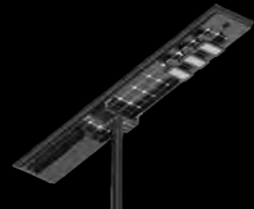
SOLAR SYSTEMS
AND VALUE ADD
SOLUTIONS



APOLLO



GALACTIC PLUS



GALACTIC MAX

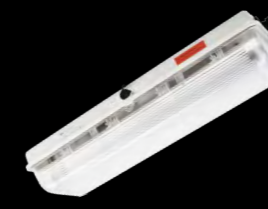
HAZARDOUS AREA



CONDOR SERIES



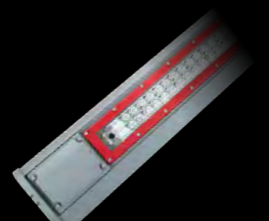
CHIEF



FALCON X



DEFENDER



WARRIOR



UNRIVALED
ENGINEERING &
MANUFACTURING
SOLUTIONS

