


ipamm

Intelligent Plenum Air Management Module



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iPAMM Cooling Innovation

Designed for higher density applications Intelligent Plenum Air Management Module (iPAMM) has maximum cooling and efficiency in mind. The iPAMM uses intelligently controlled fans to direct cooling air from the bottom of top vents to the front plenum of a rack. When implemented with SRA solutions range of thermal management products the iPAMM eliminates hot and cold air mixing within the cabinet. Improved cooling performance can result in significant savings on operational expenditures.

The iPAMM is available in two models tailored to suit existing cooling infrastructure. When under-floor cooling is available use the bottom-mounted iPAMM. The top-mounted model is suited to server rooms where the whole room is cooled or cool air can be ducted directly into the top of the rack.



SCEC Compatible & Compliant

The original iPAMM disrupted the high-density SCEC rack market with its patented technology allowing higher densities than competitor racks. The iPAMM Version 2 retains all of the benefits of the original in a more compact design. The SRA Solutions iPAMM provides outstanding results for all server rack performance metrics: energy efficiency, reliability, security and price. The iPAMM is a patented air management system which has been engineered and manufactured entirely in Australia and is a proven product used by the Australian Defence Force both domestically and internationally.

The iPAMM is available in Class B and Class C SCEC endorsed models when installed as per the manufacturer's instructions.



Hot or Cold Air Separation

The iPAMM can deliver 550l/s of cold air directly into the front of the rack using two German engineered backward curved EC fans. This can support heat loads of up to 12kW with a ΔT of less than 20°C. Fan speeds are controllable using the serial or web interface and the unit can be monitored via SNMP so the performance can be tuned to maximise cooling efficiency.

The iPAMM is ideal for high density requirements where existing cooling infrastructure is sub-optimal.

These environments are typically characterised by:

- Low underfloor pressure
- Restricted underfloor airflow
- Lack of hot/cold aisles
- Lack of containment
- Datacentre Hotspots

The iPAMM is designed to provide reliable service for critical data-centre applications. iPAMM is dual-corded to help with balancing power and the inbuilt dual auto-transfer switches will even accommodate the loss of power from one power source. High reliability fans utilise brushless motors and are rated to have a MTBF of 55000 hours.

Electrical Safety and RoHS Compliance

SRA solutions takes safety seriously. iPAMM models have been tested and certified to AS/NZS 60950 and all components are RoHS compliant.

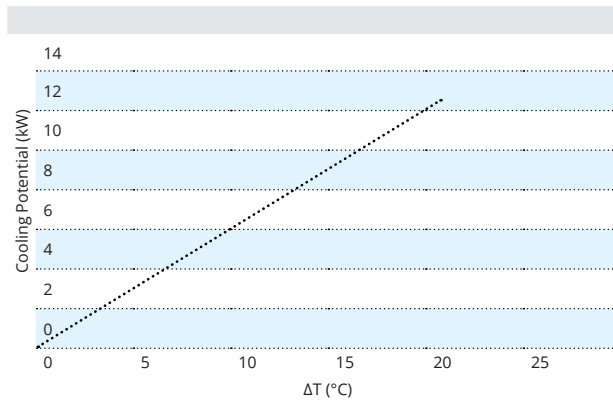


Up to 12kW High Density Rack Variable Air Evacuation

Technical Characteristics

Electrical Characteristics	Nom Max Apparent Power Nominal Voltage Nominal Maximum Current	690 VA 230 VAC 3.0A
Available Plug Types	IEC C14 Australian 3-Pin Plug	-
Airflow	Volumetric Airflow	550 l/s
Serial Console	Baud Rate Data Bits Parity Bits Stop Bits Ethernet Ip Version SNMP Version	57600 bps 8 N 1 10baseT IPv4 v1
RMS Interfaces	NMS Compatibility	APS ISX IBM Tivoli HP Openview Groundworks Open Source Zenoss NetSNMP Environet
Fan Information	MTBF Nom Max RPM	55000 hrs 4300 rpm

Theoretical Cooling Potential



iPAMM v2 - Specifications

Available Colours:

Mannex Black

Model: Top or Bottom Mount
 Material: 1.9mm Zinc Anneal steel
 Finish: Textured electrostatic powder coat - corrosion resistant
 Colours: Mannex Black (custom colours available)
 Weight: 28kg

Product Specifications:

Dimensions	Height	Width	Depth
External	520mm	500mm	125mm
Packaging	575mm	555mm	240mm

Technical Specifications:

Part ID	Model	Colour	Mount
128478	Bottom Mount	Mannex Black	Bottom*
128928	Top Mount	Mannex Black	Top*
130260	iPAMM Filter	-	-

* Mounting hardware included -

- 4 x cable ties
- 1 x thumb securing screw 10 x M6x16 fasteners
- 10 x M6 washers
- 4 x 8g tek screw
- 4 x M5 button screw

More Information

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racks

power

cooling

security

managing

monitoring