

# EdgeRack 5M Series Cabinet

## SMART COOLING & EFFICIENT UPS POWER DRIVES THE ENCONNEX EDGERACK 5M SERIES

The EdgeRack 5M Series by Enconnex is designed to deliver the optimum cooling and power capability, in an all-in-one secure enclosed cabinet for today's IT and Edge demands.

This secure integrated all-in-one cabinet is designed to deliver up to 5kW of cooling capacity for your IT equipment, and also allows the user to configure the system with the addition of the industry leading Enconnex Lithium Ion AC6000 UPS delivering 6kW of output power in a 2U form factor, and can be further configured by adding the Enconnex PDU's for optimal efficiency, configuration, and total cost of ownership.

The industry leading Rack Cooling Unit (RCU) has the capacity to deliver up to 5kW of cooling within a compact 10U footprint, which eliminates the need for external condensers, split Direct Expansion (DX) cooling systems, and costly building work. This allows the end-user total flexibility on the location and application, whether its a legacy IT equipment refresh or a new Edge installation. The EdgeRack 5M Series is ideal for IT Rooms, Retail Stores, Remote Edge Sites, IT Labs, Medical Institutions and Educational facilities.

The industry leading design of the EdgeRack 5M has the flexibility to be installed in almost any location as the design allows for a plug and play, with minimal set-up and configuration.

### SMART COOLING:

The smart design of the RCU has a low current draw on start-up and normal running operation and requires a 1P 20A breaker. Using a dedicated 20A breaker for the RCU's power source will prevent: Faults caused by other equipment in the room and their ability to affect the RCU's power. Surge current from the RCU's compressor affecting other equipment in the room.

**DO NOT Plug the EdgeRack into a UPS:**

Most UPS systems are not designed to handle compressor surge current.

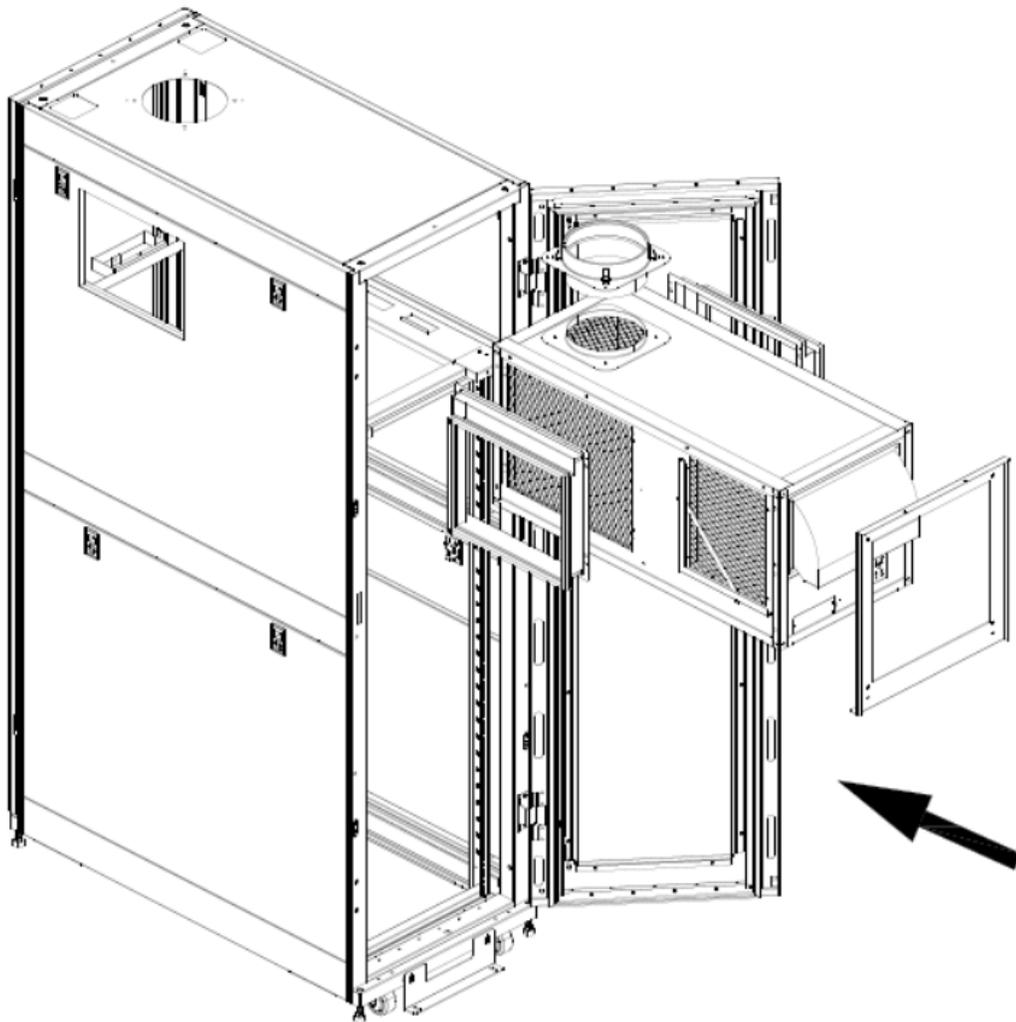
Running the RCU on the battery backup will greatly reduce runtime for IT equipment also on the UPS.



Figure 1 - EdgeRack 5M Series

## RCU INSTALLATION

**Figure 2:** illustrates how the (RCU) Rack Cooling Unit is installed to the top of the cabinet using the first 10U of usable IT space, together with custom side panels for air-intake, and roof exhaust for the removal of heat from the cabinet.

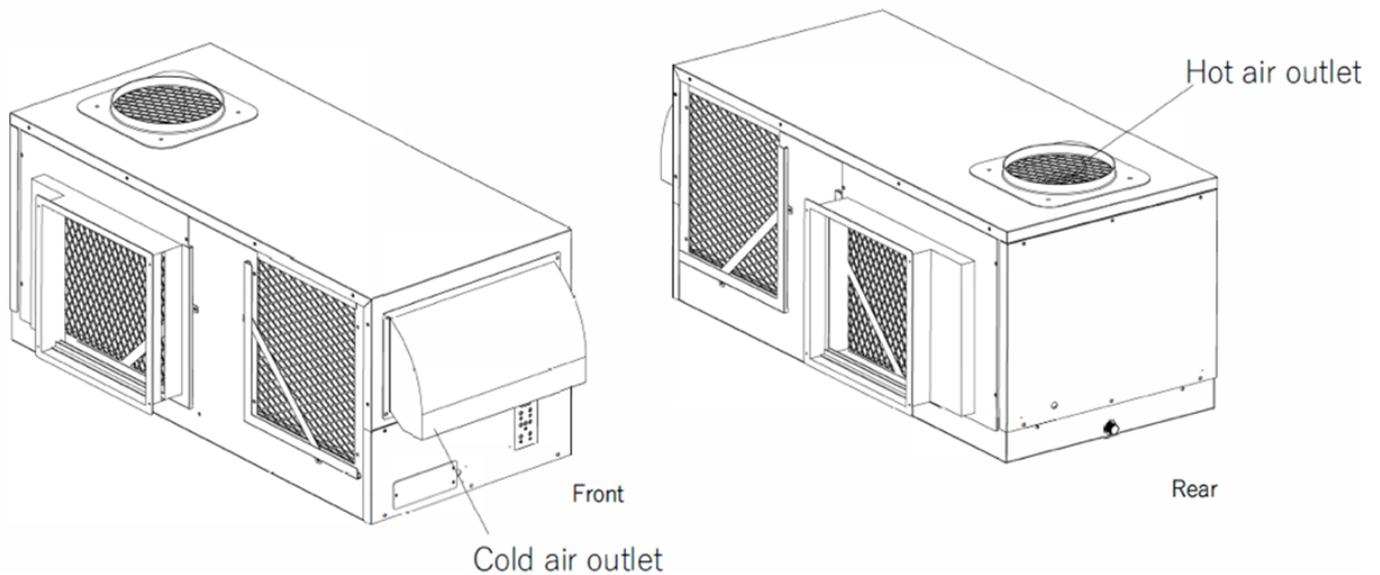


*Figure 2 - EdgeRack RCU Installation Guide*

The all-in-one integrated cabinet with a smart design of 5kW cooling capacity eliminates the needs for external condensers, split DX systems, and costly building works, which reduces the overall capital costs of the installation and optimises the customers budget due to its smart efficient design.

## RACK COOLING UNIT

**Figure 3:** illustrates the cold air outlet at the front of RCU inside the server rack to deliver the required cooling to your IT equipment, and hot air outlet is located on the roof to remove the excess heat from the cabinet. The cold air is forced down the front of your IT equipment, and through to the rear of the server rack and hot air is exhausted through the hot air outlet at the top of the server rack.



*Figure 3 - Rack Cooling Unit*

The EdgeRack smart cabinet solution is ideal for most applications from small to medium offices, retail outlets and remote edge computing locations, with plexi-glass doors, and sound dampening walls and roof panels, this all-in-one cabinet can be installed in most suitable locations with a smart cooling capacity of up to 5kW.

To enhance and fully configure the 5kW cooling capacity of the EdgeRack 5M for efficient power and back-up, add the Enconnex AC6000 Lithium Ion UPS to the EdgeRack, delivering 6kW output power in just a 2U form factor.

## THE ENCONNEX AC6000 UPS FOR EFFICIENT POWER

The Enconnex AC6000 Li-Ion UPS is a single-phase UPS, providing up to 6kVA/6kW of uninterruptable power in a small 2U form factor. It combines an efficient Line-Interactive topology and industrial-grade Li-Ion battery pack, allowing for up to 12 minutes of runtime at 50% load (3kVA/3kW), up to 6 minutes of runtime at full load (6kVA/6kW), and a fast recharge time to 90 percent battery pack capacity in less than 1 hour.



### Smart Communication

- Supports Serial & SNMP
- Remote HTTP dashboard
- Supports IPv4 and IPv6
- Multifunction LCD panel
- Reports critical performance metrics

### Cost of Ownership

- No battery replacement necessary
- ROI in as little as 2 years
- Operational savings using “peak shave” feature

## A BATTERY FOR LIFE

