Optimum Micro Data Centre

The Micro Data Centre (MDC) is a compact unit which includes all the cooling, security and power supply options required for 19" Server Racks. This self-contained solution offers a convenient and cost-effective option, without compromising on features or performance.

The system consists of the Facilities Rack which contains all of the cooling, controls and power management. Additional equipment racks are added to create the size of system required depending on IT density and power load. For higher power systems and where redundancy is required, the Slave Rack provides additional cooling and UPS capabilities.

- Complete solution – just add servers
- Scalable – with a low cost per kW
- Quick to install and commission – minimising disruption to your business
- Environmentally independent – with no heat transfer to the installation environment
- Exceptional efficiency – with PUE values as low as 1.21*
- Futureproof – allowing rack densities to be increased as needs change
- Secure – with remote monitoring and access control
- Standard system available in 36U, 42U and 48U heights, with a footprint of 600 x 1200 mm per rack.
- Full airflow management including blank panels.

Ordering Information	
F1/10-360612-AGL	MDC Facilities Rack 10kW 36U 14U equipment space
E1/0-360612-AGL	MDC Equipment Rack 36U equipment space
S1/10-360612-AGL	MDC Slave Rack 10kW 36U 18U equipment space
F1/10-420612-AGL	MDC Facilities Rack 10kW 42U 20U equipment space
E1/0-420612-AGL	MDC Equipment Rack 42U equipment space
S1/10-420612-AGL	MDC Slave Rack 10kW 42U 22U equipment space
F1/10-480612-AGL	MDC Facilities Rack 10kW 48U 26U equipment space
E1/0-480612-AGL	MDC Equipment Rack 48U equipment space
S1/10-480612-AGL	MDC Slave Rack 10kW 48U 26U equipment space

MDC Facilities Rack:

Intelligent Control Hub.

- Full monitoring of power, temperature of supply and return air, door open/closed status
- Control of air flow alarm set points and UPS.
- Alarms for out of parameter conditions (zero volt relay contact)
- LED status lighting, provides instant visual confirmation of facility rack condition.
- Built in touch screen user interface with built in web browser.
- Remote access and control via smartphone, tablet or computer with web browser (requires network connection)

Power

- 1 x 10 KVA UPS managed by Intelligent Control Hub
- 1 x Intelligent multi way power strip with 16 Amp plug input and multi C13, C19 and 13 amp sockets
- Strip consumption monitoring and reporting via Intelligent Control Hub.

Cooling

- DX (direct expansion) system
- 1 x 10 kW includes external compressor unit and 30m of semi flexible hosing for quick installation
- Cooling directly controlled via Intelligent Control Hub

Security

- Electronic, RFID swipe card on front door
- Rear door electronic slave lock.
- Door ajar contact alarms.
- Access control has alarms and remote access, monitoring and access log reporting via Intelligent Control Hub.

Rack

- Steel Construction Frame in Ash Grey
- Load rating 1500 kgs
- Dimensions: Heights: 36, 42 and 48U, Width: 600 mm Depth: 1200 mm
- Adjustable 19 inch mounting angles
- Glass front door
- Solid steel rear door and solid steel side panels
- Cable and infrastructure entry through top, bottom or rear of rack.
- All doors panels are with quick release hinges/fittings
- Full airflow management.
- Fitted with heavy duty castors (2 locking, 2 non locking), levelling feet and castor cover plates.

MDC Equipment Rack

Connection to Intelligent Control Hub

- Temperature sensors
- LED status lighting, provides instant visual confirmation of facility rack condition.

Security

- Electronic, RFID swipe card on front door
- Rear door electronic slave lock.
- Door ajar contact alarms.
- Access control has alarms and remote access, monitoring and access log reporting via Intelligent Control Hub.

Power

- 1 x Intelligent multi way power strip with 16 Amp plug input and multi C13, C19 and 13 amp sockets
- Strip consumption monitoring and reporting via Intelligent Control Hub.

Rack

- Steel Construction Frame in Ash Grey
- Load rating 1500 kgs
- Dimensions: Heights: 36, 42 and 48U, Width: 600 mm Depth: 1200 mm
- Adjustable 19 inch mounting angles
- Glass front door
- Solid steel rear door
- Cable and infrastructure entry through top, bottom or rear of rack.
- All doors panels are with quick release hinges/fittings
- Full airflow management.
- Fitted with heavy duty castors (2 locking, 2 non locking), levelling feet and castor cover plates.
- Baying kit to connect to Facilities Rack

MDC Slave Rack:

Connection to Intelligent Control Hub

- Temperature sensors
- LED status lighting, provides instant visual confirmation of facility rack condition.

Power

- 1 x 10 KVA UPS managed by Intelligent Control Hub
- 1 x Intelligent multi way power strip with 16 Amp plug input and multi C13, C19 and 13 amp sockets
- Strip consumption monitoring and reporting via Intelligent Control Hub.

Cooling

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Rack

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- Dimensions: Heights: 36, 42 and 48U, Width: 600 mm Depth: 1200 mm
- Adjustable 19 inch mounting angles
- Glass front door
- Solid steel rear door
- Cable and infrastructure entry through top, bottom or rear of rack.
- All doors panels are with quick release hinges/fittings
- Full airflow management.
- Fitted with heavy duty castors (2 locking, 2 non locking), levelling feet and castor cover plates.
- Baying kit to connect to adjacent rack