



GUIDE SPECIFICATION

MICRO DATA CENTRE MODEL: DXN E-2



GENERAL SUMMARY

This specification describe the requirements of the Micro Data Centre product. The system is a fully self contained integrated solution. It includes all the necessary components, UPS, battery, power management, ventilation cooling, cabinet, and monitoring to form a complete standalone solution for the mission critical IT equipment.

PRODUCT SPECIFICATION

1. Overall Parameters

1. The overall dimension of micro data Centre indoor unit is: 600mm(width) * 1100mm(depth) * 1590mm(height).
2. The power input is: 220V/1Phase/50Hz-60Hz.
3. The available space is 17RU.
4. The available power is 3kVA.
5. The available cooling is 2.5kW.

2. Cabinet System

1. The loading capacity of the cabinet is 1300kg.
2. The size of each cabinet is 600mm(width) * 1100mm(depth) * 24U(height).
The color is RAL9005.
3. The cabinet is fully enclosed to protect equipment from dust and moisture up to IP42. The front door of the cabinet is reinforced glass providing thermal and acoustic insulation. The cabinet comes with solid split rear doors as standard.
4. The locking of cabinet is basic type with keys.
5. The cabinet comes with wheels and level feet.

3. Power System

1. The UPS is high efficiency 3kVA double conversion Delta RT with internal battery.
2. The UPS mounting type is rack mount, and height is 2RU.
3. The UPS power input is 220V/1Ph/50Hz-60Hz.
4. The product includes a power management module. The power managment module works as power distribution, protection, metering and management. It's built in with manual bypass for UPS system. Detail specification is referred within the wiring diagram.
5. The PDU is basic type, and OU vertical installation. The power output sockets are C13*8Pcs.

4. Cooling System

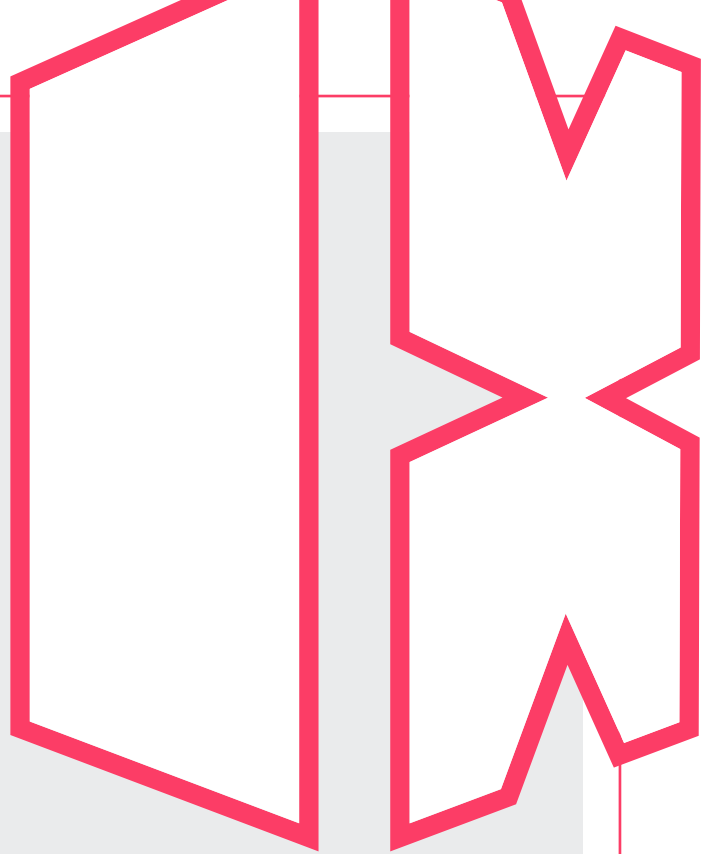
1. The cooling is packaged DX type, and total cooling capacity is 2.5kW.
2. The cooling power input is 220V/1Ph/50Hz-60Hz.
3. The cooling system indoor unit is Top mount packaged with evaporator and condenser.
4. The compressor system is hermetic rotary type.
5. The cooling capacity is adjustable by HGBP(hot gas by pass) technology.
6. The evaporator fan is EC fan type. The condenser fan is EC fan type.
7. The connection between indoor and outdoor unit is quick connection type.
8. Emergency ventilation method is via the front and rear door during over temperature.

5. Monitoring System

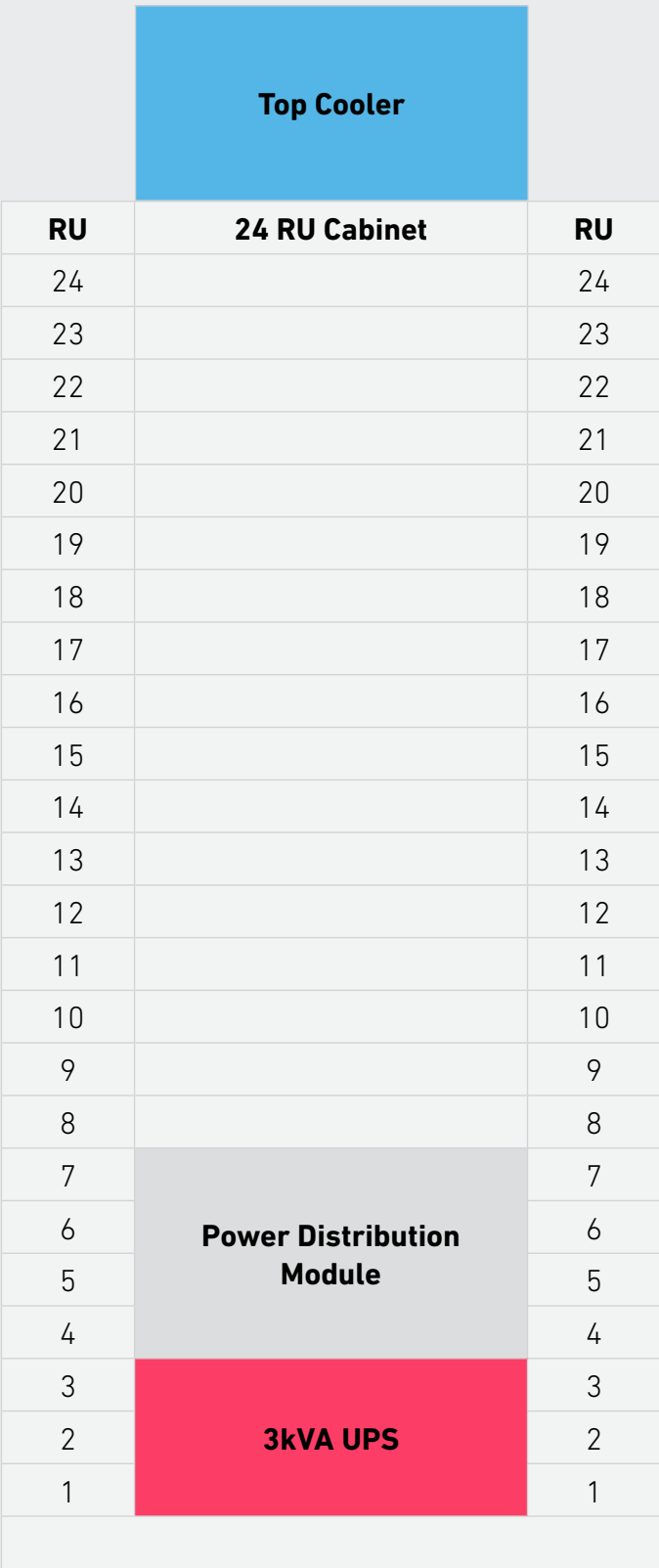
1. The display of monitoring system is 10" touch type.
2. The monitoring is mounted on the front door occupying no IT space.
3. The monitoring sensors include temperature, humidity, smoke, leak detection and door status.
4. The management of UPS includes display of UPS working mode, UPS alarms, UPS input power parameters, UPS output power parameters.
5. The management of cooling includes display of cooling operation working mode, cooling alarms, and setting of target temperature and humidity, control by return or discharge, and ON/OFF unit.
6. Monitoring function supports calcuation of power usage and calculation of system PUE.

6. Fire Extinguishing System(optional)

1. The fire system is rack mount, and height is 1U.
2. The extinguisher gas is FM200, and volume is 2L.
3. The extinguishing trigger method is temperature sensing and burst through fire tube.



7. Product Layout





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