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PRODUCT BROCHURE



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HEAT LOAD

EMULATORS AND
SPACE HEATERS

DATA CENTRE TESTING... NO PROBLEM



INTRODUCTION

At Heatload we recognise that commissioning and Integrated Systems Testing of a new data centre is one of the last activities. Often the project has over run in terms of time and budget. Our customers need us to rapidly deploy (and remove at the end) a cost effective, reliable product that simulates the design IT load.

We are the leading provider of server emulators and heat load units used exclusively for testing data centres, ICT rooms and other clean spaces.

We are based in the UK with a partner network serving Europe. We provide services globally on a rental or sales basis; we can ship to site or provide a fully managed installation service.

Heatload has a rental capacity of over 100MW of heat load to provide load to all sizes of data centres from small ITECs Hyperscale Datacentres.

SERVER EMULATORS

RACK MOUNTED EMULATORS

There are three single phase rack mounted server emulator offerings. All units are 3u high and fit in a stand 19" IT Rack. Units are supplied with a 1.5m lead with a C20 plug for connection to customer power strips with 16Amp C19 outlets; 2kw units can be supplied with an adapter to connect to C13 outlet. We can create loads in a single rack of more than 50kw. Our emulators were designed in partnership with a leading mechanical and electrical consultants and end users.

MK4 3.5kw emulator

The most powerful server emulator to date. The 4th generation of HeatLoad emulator is capable of producing a maximum of 3.5KW per unit. The MK4 unit enables customers to switch between settings of fan only, 50%, 75%KW and 100% capacity. With the lowest Delta-T in the range, the MK4 will provide the most accurate replication of a server in terms of airflow and temperature rise.



MK3 2kw Emulator

The Mk3 server emulator is a customer favourite because of its compatibility with a much broader selection of power distribution units. MK3 units can be connected to C13, C19, UK 3Pin and CEE7 sockets. The emulator can be switched between fan only, 50%, and 100% capacity.



SERVER EMULATORS

MK2 2kw Emulator

An early vision of what became the MK3 unit. The Delta-T is higher than either of the MK3 or MK4 models, it still has a capacity of 2KW per unit. As with the MK3 emulator, the MK2 can be switched between fan only, 50% and 100% capacity and be connected to C13, C19, UK 3Pin and CEE7 sockets.



SERVER EMULATORS



RACK MOUNTED EMULATORS

Description			
Model	MK2 - USHD60	MK3 - USHD120	MK4 - USHD250
Type	Emulator	Emulator	Emulator
Mounting	Rack mounted	Rack mounted	Rack mounted
Maximum Capacity - Packaged Load Bank	2000 W / 8.5A	2000 W / 8.5A	3500 W / 16A
Load Steps	2 / 1000(50%)-2000(100%) W	2 / 1000(50%)-2000(100%) W	3 / 1750(50%)-2625(75%)-3500(100%) W
Temp Rise / Delta-T	15 to 30°C (depending on load setting)	9 to 18°C (depending on load setting)	6.5, 10 or 13°C (depending on load setting)
Voltage Ranges (Continuous Operation)	210-230 VAC	210-230 VAC	210-230 VAC
Frequency	50Hz	50Hz	50Hz
Phases	Single Phase	Single Phase	Single Phase
Wires	1x3-Core 1.5m 1.5mm Power Cable	1x3-Core 1.5m 1.5mm Power Cable	1x3-Core 1.5m 1.5mm Power Cable
Voltage Tolerance (Short Term Operation)	Nominal + / -5%	Nominal + / -5%	Nominal + / -5%
Load Element Tolerance	Nominal + / -10%	Nominal + / -10%	Nominal + / -10%
Elements	Nickel Chrome Alloy Resistive Wire	Nickel Chrome Alloy Resistive Wire	Nickel Chrome Alloy Resistive Wire
Insulation Grade	Conform to BS 6231 Type CK	Conform to BS 6231 Type CK	Conform to BS 6231 Type CK
Auxiliary Supply Type	Temporary / Test	Temporary / Test	Temporary / Test
Auxiliary Supply Voltage Range	220-240V / 1ph 50Hz	220-240V / 1ph 50Hz	220-240V / 1ph 50Hz
Auxiliary Rating	16A	16A	16A
Auxiliary Connection Type	C20	C20	C20
Control			
Control	Rocker Switches Fan Only, 50% & 100% Power Indicator Neon	Rocker Switches Fan Only, 50% & 100% Power Indicator Neon	Rocker Switches Fan Only, 50%, 75% & 100% Power Indicator Neon
Protection	Over temperature protection thermostat	Over temperature protection thermostat	Over temperature protection thermostat
Misc.			
Connection	C20 Connector	C20 Connector	C20 Connector
Cooling Method	Tangential Fan - Forced Air Convection	Tangential Fan - Forced Air Convection	Tangential Fan - Forced Air Convection
Exhaust Air Temperature (Approx.)	Ambient + 15°C-30°C	Ambient + 10°C-18°C	Ambient + 6.5°C, 10°C & 16°C
Air Flow (Approx.)	60L / S	120L / S	250L / S
Emergency Thermal Cutout	42°C (No Reset)	42°C (No Reset)	82°C (No Reset)
Load Switching Type	Resistive	Resistive	Resistive
Load Switching Contactor Type	N/A - Circuit Protection Remote	N/A - Circuit Protection Remote	N/A - Circuit Protection Remote
Rated Maximum Ambient Temperature Operation	Nominal 45°C	Nominal 45°C	Nominal 45°C
Rated Minimum Ambient Temperature Operation	Nominal -10°C	Nominal -10°C	Nominal -10°C
Rated Maximum Ambient Humidity	95% RH - Non Condensing	95% RH - Non Condensing	95% RH - Non Condensing
Altitude Rating	< 2500 m Above Sea Level	< 2500 m Above Sea Level	< 2500 m Above Sea Level
Enclosure	Zinc-Coated steel with Powder coated	Zinc-Coated steel with Powder coated	Zinc-Coated steel with Powder coated
Minimum Inlet Clearance	300mm	300mm	300mm
Minimum Outlet Clearance	300mm	300mm	300mm
IP Rating	IP20	IP20	IP20
Lifting & Movement	1 Person Lift	1 Person Lift	1 Person Lift
Physical Dimensions			
	Value	Unit	IT Compliance
Depth	250	mm	
Width	290/490	mm	19" IT Rack Compatible
Height	132	mm	3u
Total Weight	3.5	KG	
Suitability	For environmental testing at rack level, where a higher delta-t is acceptable e.g. power testing		
	Value	Unit	IT Compliance
Depth	250	mm	
Width	410/490	mm	19" IT Rack Compatible
Height	132	mm	3u
Total Weight	5	KG	
Suitability	For environmental testing at rack level, where a delta-t close to that of the IT equipment is required.		
	Value	Unit	IT Compliance
Depth	250	mm	
Width	450/490	mm	19" IT Rack Compatible
Height	132	mm	3u
Total Weight	7.5	KG	
Suitability	For environmental testing at rack level, where a delta-t close to that of the IT equipment is required.		

TEMPORARY IT RACKS

NO IT RACKS... NO PROBLEM

For Data Centres that do not have the IT racks installed at the time of commissioning or the Integrated Systems Test (IST) we can provide temporary racks to install rack mounted heat load and server emulators into.

Using temporary racks makes it possible to accurately recreate the final layout of the data centre without the capital outlay and logistics of installing 100% of the racks. This makes for a much more realistic test.

Racks are supplied with casters to make moving easier. To prevent air recirculation within racks that are not fully populated, temporary blanking is installed.

33U Rack Dimensions:

Width 547mm
Depth 435mm
Height 1618mm



30U Rack Dimensions:

Width 550mm
Depth 440mm
Height 1480mm

This rack can be extended to 42U



FLOOR STANDING HEATERS



10KW STACKABLE & 20KW TOWER FLOOR STANDING EMULATORS

Both units are modular; the 10kw unit has three 3.5kw 16A 250l/s emulators. The 20kw has six of the same modules. Each module is capable of operating in fan only mode, fan +33%, 67% & 100% load. The delta-t is exceptionally low, especially if operating in reduced heat modes. Both units are to simulate an 800mm IT rack.

10kw are stacked on site on a castor assembly and have six single phase 16Amp connections. 20kw are a single unit with integrated castors and have three single phase 32Amp connections. Both can be directly connected to customer supplies or using our power distribution, giving options as to the final connection. 10kw can be stacked three high and a 10kw can be mounted on top of a 20kw; creating 30kw stacks (bracing must be installed).



FLOOR STANDING HEATERS



10KW STACKABLE & 20KW TOWER FLOOR STANDING EMULATORS SPECIFICATIONS

Description				
Model	HO750LPS STACK UNIT 10kW	HO750LPS MKIII 20kW		
Type	Emulator	Emulator		
Mounting	Floor standing/ stackable	Floor standing		
Maximum Capacity - Packaged Load Bank	10000 w/ 46.23 A	20000 w/ 90A		
Load Steps	3 Units, 33%,67% &100%	6 Units,33%,67% &100%		
Temp Rise / Delta-T	4.5, 8.5 or 12.5 °C (depending on load setting)	4.5, 8.5 or 12.5 °C (depending on load setting)		
Voltage Ranges (Continuous Operation)	220-240 VAC	220-240 VAC		
Frequency	50Hz	50Hz		
Phases	X3 1PH/ STACK UNIT	X3 1PH/ STACK UNIT		
Wires	3/ 16A	3/ 32A Inlets		
Voltage Tolerance (Short Term Operation)	Nominal + / -5%	Nominal + / -5%		
Load Element Tolerance	Nominal + / -10%	Nominal + / -10%		
Elements	Kanthal Resistive Wire	Kanthal Resistive Wire		
Insulation Grade	Conform to BS 6231 Type CK	Conform to BS 6231 Type CK		
Auxiliary Supply Type	Temporary / Test	Temporary / Test		
Auxiliary Supply Voltage Range	220-240V / 1ph/ 50Hz	220-240V / 1ph/ 50Hz		
Auxiliary Rating	X3 - 16A	X3 - 32A		
Auxiliary Connection Type	X3 - 16A Commando Type Connector	X3 - 32A Commando Type Connector		
Control				
Control	Rocker Switches (Fan Only, 33%,67% &100%) B25750 E26 D34Power Indicator Neon	Rocker Switches (Fan Only, 33%,67% &100%) B25750 E26 D34Power Indicator Neon		
Protection	Over temperature protection thermostat	Over temperature protection thermostat		
Misc.				
Load Connections	16A Commando Type Connector	32A Commando Type Connector		
Cooling Method	Tangential Fan - Forced Air Convection	Tangential Fan - Forced Air Convection		
Exhaust Air Temperature (Approx.)	Ambient + 6.5 °C, 10 °C &16 °C	Ambient + 6.5 °C, 10 °C &16 °C		
Air Flow (Approx.)	750L /S	1500L /S		
Emergency Thermal Cutout	82 °C (No Reset)	82 °C (No Reset)		
Load Switching Type	Resistive	Resistive		
Load Switching Contactor Type	N/A- Circuit Protection Remote	N/A- Circuit Protection Remote		
Rated Maximum Ambient Temperature Operation	Nominal 45 °C	Nominal 45 °C		
Rated Minimum Ambient Temperature Operation	Nominal -10 °C	Nominal -10 °C		
Rated Maximum Ambient Humidity	95% RH - Non Condensing	95% RH - Non Condensing		
Altitude Rating	< 2500 m Above Sea Level	< 2500 m Above Sea Level		
Enclosure	Zinc-Coated steel with powder coated exhaust RAL5002 Satin Ultramarine Blue	Zinc-Coated steel		
Minimum Inlet Clearance	300mm	300mm		
Minimum Outlet Clearance	300mm	300mm		
IP Rating	IP20	IP20		
Lifting & Movement	2 Person Lift / X2 Lifting Handles / Mountable to trolley	2 Person Lift		
Physical Dimensions				
	Value	Unit	Value	Unit
Depth	405	mm	405	mm
Width	804	mm	805	mm
Height	665	mm	1320	mm
Total Weight	415	KG	65	KG
Suitability	For environmental testing at rack level but the customer racks are not installed, where a delta-t close to that of the IT equipment is required.			

IMMERSION EMULATORS

10&20 KW SINGLE PHASE SERVER IMMULATOR™

You've heard of Server Emulators, now the first of it's kind in the commercial market... The Immulator! A heat load for testing commissioning immersion cooling units.

The Immulator has been designed and tested with leading manufacturers of immersion cooling systems and fluid manufacturers.

The load can be increased in increments of 2kw. Operating the units at 50 or 60Hz makes no difference to their performance. Our Immulators are supplied with mounting brackets to install into either 19" or 21" immersion systems. The brackets are adjustable to accommodate differing depth of cooling fluid. Both Immulators occupy 4u of space.



IMMERSION EMULATORS



10&20KW SINGLE PHASE SERVER IMMULATOR™ SPECIFICATIONS

Description	10kw immulator	20kw immulator		
Model	ILB10KW - (Immersive Load Bank 10KW)	ILB20KW - (Immersive Load Bank 20kW)		
Type	Immersion Emulator	Immersion Emulator		
Mounting	19" / 21" Rack Mounted	19" / 21" Rack Mounted		
Maximum Capacity - Packaged Load Bank	10KW	20 kW		
Load Steps	2KW, 2KW, 2KW, 2KW, 2KW	2kW, 2kW, 2kW, 2kW, 2kW, 2kW, 2kW, 2kW,		
Temp Rise / Delta-T	Not applicable	Not applicable		
Voltage Ranges (Continuous Operation)	210-230 VAC	230V AC		
Phases	1PH	1PH		
Frequency	50Hz	50 Hz		
Wires	X5 C13 Power Inlet - (L, N + E)	X10 C13 Power Inlet - (L, N + E)		
Voltage Tolerance (Short Term Operation)	Nominal + / - 5%	Nominal + / - 10%		
Load Element Tolerance	Nominal + / - 10%	Nominal + / - 10%		
Elements	Nickel Chrome Alloy Resistive Wire	Nickel Chrome Alloy Resistive Wire		
Insulation Grade	Conform to BS 6231 Type CK	Conform to BS 6231 Type CK		
Auxiliary Supply Type	N/A	N/A		
Auxiliary Supply Voltage Range	N/A	N/A		
Auxiliary Rating	N/A	N/A		
Auxiliary Connection Type	N/A	N/A		
Control				
Control	C13 Power Inlet Rocker Switches	C13 Power Inlet Rocker Switches		
Protection	Over temperature protection thermostat (70° C+/-3	Over temperature protection thermostat (70°C +/-		
Misc.				
Load Connections	C13 Connector	C13 Connector		
Cooling Method	Natural Convection (Dielectric fluid)	Natural Convection (Dielectric fluid)		
Exhaust Air Temperature (Approx.)	TBC	TBC		
Air Flow (Approx.)	N/A	N/A		
Load Switching Type	Resistive	Resistive		
Load Switching Contactor Type	N/A - Circuit Protection Remote	N/A - Circuit Protection Remote		
Rated Maximum Ambient Temperature Operation	Nominal +85° C	Nominal +85°C		
Rated Minimum Ambient Temperature Operation	Nominal -10° C	Nominal -10°C		
Rated Maximum Ambient Humidity	95% RH - Non-Condensing	95% RH - Non-Condensing		
Altitude Rating	< 2500m Above Sea Level	< 2500 m Above Sea Level		
Enclosure	Zinc - coated steel	Zinc-coated steel		
Minimum Inlet Clearance	0mm - Coolant must circulate	0mm - Coolant must circulate		
Minimum Outlet Clearance	0mm - Coolant must circulate	0mm - Coolant must circulate		
IP Rating	IP20	IP20		
Lifting & Movement	1 Person lift	1 Person Lift		
Physical Dimensions				
	Value	Unit	Value	Unit
Depth	436	mm	436	mm
Width	153	mm	153	mm
Height	754	mm	754	mm
Total Weight	11.55 (Nominal)	KG	15.25 (Nominal)	KG

SPACE HEATERS



3-PHASE FLOOR STANDING LOAD BANKS/ SPACE HEATERS

3-phase floor standing heat load banks provide predictable electrical and heat loads. This enables the testing of the electrical and cooling systems in a controlled environment.

The intended use of a data centre may be all rack mounted, all floor standing or a mixed IT load. The data centre may be a hosting or colocation site, where racks will be deployed at a later date after testing completes.

Our floor standing units include 15 and 22kw models are ideal for this environment. Both units can be switched fan only, 50% or 100% load.

To improve the test environment we advise constructing temporary containment walls, to separate the cold and hot aisles. Typically, this is constructed with Unistrut and Correx.

Additional or bespoke power cables can be supplied including 'Open' power cables to allow direct connection to site distribution or PDUs.



SPACE HEATERS



3-PHASE FLOOR STANDING LOAD BANKS/ SPACE HEATERS SPECIFICATIONS

Description				
Model	Inelco Dania 15kw	Inelco Dania 22kw		
Type	Heater	Heater		
Mounting	Floor standing	Floor standing		
Maximum Capacity - Packaged Load Bank	15000 W / 25A	22000 W / 32A		
Load Steps	Fan- 7.5 kW (50%) - 15kW (100%)	Fan- 11kW (50%) - 22kW (100%) W		
Temp Rise / Delta-T	18.5 to 37°C (depending on load setting)	15 to 29.5°C (depending on load setting)		
Voltage Ranges (Continuous Operation)	400-430 VAC	400-430 VAC		
Frequency	50Hz	50Hz		
Phases	3-Phase	3-Phase		
Wires	1x5-Core 5G4 or 5G6 (4mm or 6mm) Power Cable 5m to 30m	1x5-Core 5G4 or 5G6 (4mm or 6mm) Power Cable 5m to 30m		
Voltage Tolerance (Short Term Operation)	Nominal + / -5%	Nominal + / -5%		
Load Element Tolerance	Nominal + / -10%	Nominal + / -10%		
Elements	Stainless Steel	Stainless Steel		
Insulation Grade				
Auxiliary Supply Type	Temporary / Test	Temporary / Test		
Auxiliary Supply Voltage Range	400-430V / 3ph/ 50Hz	400-430V / 3ph/ 50Hz		
Auxiliary Rating	32A	32A		
Auxiliary Connection Type	32A TPN+E Commando Type Male Bulkhead	32A TPN+E Commando Type Male Bulkhead		
Control				
Control	Rotary Switches Fan Only, 50% & 100%	Rotary Switches Fan Only, 50% & 100%		
Protection	Over temperature protection thermostat	Over temperature protection thermostat		
Misc.				
Load Connections	32A TPN+E Commando Type	32A TPN+E Commando Type		
Cooling Method	Tangential Fan - Forced Air Convection	Tangential Fan - Forced Air Convection		
Exhaust Air Temperature (Approx.) Delta-T	Ambient + 20°C-40°C	Ambient + 15°C-30°C		
Air Flow (Approx.)	360 L/S	660 L/S		
Emergency Thermal Cutout	126°C	126°C		
Load Switching Type	Resistive	Resistive		
Load Switching Contactor Type	N/A- Circuit Protection Remote	N/A- Circuit Protection Remote		
Rated Maximum Ambient Temperature Operation	Nominal 40°C +/-10%	Nominal 40°C +/-10%		
Rated Minimum Ambient Temperature Operation	Nominal -10°C	Nominal -10°C		
Rated Maximum Ambient Humidity	95% RH - Non Condensing	95% RH - Non Condensing		
Altitude Rating	< 2500 m Above Sea Level	< 2500 m Above Sea Level		
Enclosure	Zinc-Coated steel with Powder coated	Zinc-Coated steel with Powder coated		
Minimum Inlet Clearance	750mm	750mm		
Minimum Outlet Clearance	750mm	750mm		
IP Rating	IP44	IP44		
Lifting & Movement	1 Person Lift	1 Person Lift		
Physical Dimensions				
	Value	Unit	Value	Unit
Depth	350	mm	350	mm
Width	440	mm	440	mm
Height	600	mm	600	mm
Total Weight	16.03	KG	27.34	KG
Suitability	For environmental testing at room level, where a higher delta-t is acceptable. 3-phase, power connection required, so can be connected to final power outlet, busbar etc. or temporary power distribution. Strongly recommended that containment between cold and hot aisles is implemented to ensure temperature tolerance not exceeded.			

SPACE HEATERS

SINGLE PHASE FLOOR STANDING LOAD BANKS / SPACE HEATERS

Single phase, floor standing heat load units offer predictable electrical and heat loads. This allows the testing of the electrical and cooling systems in a controlled environment.

Our floor standing units are ideal for offices, trading rooms, plant rooms, laboratories etc.

Units can be connected to a variety of power outlets including C13, C19, UK 3-PIN, CEE7 and single phase commando sockets.

Our floor standing units include 2kw and 3kw. Both units can be switched fan only, 50% or 100% load.



SPACE HEATERS



SINGLE PHASE FLOOR STANDING LOAD BANKS / SPACE HEATERS SPECIFICATIONS

Description				
Model	Kingavon BB-FH207		Kingavon BB-FH206	
Maximum Capacity - Packaged Load Bank	2000 W / 8.5A		3000 W / 12.75A	
Voltage Ranges (Continuous Operation)	210-230 VAC		210-230 VAC	
Frequency	50Hz		60Hz	
Phases	Single Phase		Single Phase	
Wires	1x3-Core 1.5m 1.5mm Power Cable		1x3-Core 1.5m 1.5mm Power Cable	
Number of Steps / Load Step Resolution	2 / 1000 W		2 / 1500 W	
Voltage Tolerance (Short Term Operation)	Nominal + / -5%		Nominal + / -5%	
Load Element Tolerance	Nominal + / -10%		Nominal + / -10%	
Elements				
Insulation Grade				
Auxiliary Supply Type	Temporary / Test		Temporary / Test	
Auxiliary Supply Voltage Range	220-240V / 1ph / 50Hz		220-240V / 1ph / 50Hz	
Auxiliary Rating	16A		16A	
Auxiliary Connection Type	C20		C20	
Control				
Control	Rotary Switches (Fan Only, Heat 1, (50%) Heat		Rotary Switches (Fan Only, Heat 1, (50%) Heat	
Protection	Over temperature protection thermostat		Over temperature protection thermostat	
Misc.				
Load Connections	C20 Connector		C20 Connector	
Cooling Method	Tangential Fan - Forced Air Convection		Tangential Fan - Forced Air Convection	
Exhaust Air Temperature (Approx.)				
Air Flow (Approx.)				
Load Switching Type	Resistive		Resistive	
Load Switching Contractor Type				
Rated Maximum Ambient Temperature Operation	Nominal 40°C +/-10%		Nominal 40°C +/-10%	
Rated Minimum Ambient Temperature Operation	Nominal -10°C		Nominal -10°C	
Rated Maximum Ambient Humidity	95% RH - Non Condensing		95% RH - Non Condensing	
Altitude Rating	< 2500 m Above Sea Level		< 2500 m Above Sea Level	
Enclosure	Powder coated		Powder coated	
Minimum Inlet Clearance	300mm		300mm	
Minimum Outlet Clearance	300mm		300mm	
IP Rating	IP24		IP24	
Lifting & Movement	1 Person Lift		1 Person Lift	
Physical Dimensions				
	Value	Unit	Value	Unit
Depth	210	mm	210	mm
Width	195	mm	195	mm
Height	340	mm	340	mm
Total Weight	4.5	KG	4.5	KG
Suitability	For environmental testing at room level, where a higher delta-t is acceptable e.g. offices, ITEC rooms, meeting rooms etc. single phase, small power connection, so can be connected			



POWER SUPPLY

TEMPORARY POWER
DISTRIBUTION

DATA CENTRE TESTING... NO PROBLEM



INTRODUCTION

We offer a variety of solutions to connect the heat load to the building's power distribution.

The most effective way to test the power distribution within a Data Centre is to connect the heat load directly to the final power distribution installed in the customer racks. In rack mounted environments where the power strips are installed, connections could be CE7, UK 3-Pin, C13 or C19 outlets.

In floor standing environments the final power connection is likely to be single or 3-phase commando type socket.

Bespoke cables can be manufactured on request. All HeatLoad 3-phase units require 32Amp 5-pin commando type sockets. We can provide adapters to connect single phase units to single phase or 3-phase outlets.



3 PHASE POWER DISTRIBUTION



630A PDU'S

We stock temporary 630A Power Distribution Units (PDUs) that facilitate the distribution of power to our 250A PDUs from larger customer supplies. This is achieved using our 95mm Cable Sets, which can extend up to 25 meters in length. We provide 240mm Cable Sets to connect our 630A PDUs to the building's power supply.

630AMP Power Distribution Board

Connection: 700/800A PowerLock Connection; with 630A isolator

Output: 3 x 500A PowerLock Connections; each with 250A isolator

Dimensions: 1300mm high x 1300mm wide x 500mm deep

Weight: 190kg



3 PHASE POWER DISTRIBUTION



TEMPORARY 250A PDU'S

For Data Centres that do not have the power distribution installed during commissioning or the Integrated Systems Test (IST) we can provide temporary 250A PDUs, which are compatible with all of our heat load units. We offer two variants:

- 250 3PH Event Distribution Board
- 250A Schneider distribution Isobar board

250 3PH Event Distribution Board

Connection: Powerlock Drain Set - 250A 4-Pole isolator

Output: 10 x 32A 400V 5 Pin IP44 Panel Socket - 40A 3 Pole Type C MCB

Dimensions: 725mm (h) x 520mm (w) x 400mm (d)

Weight: 41kg

Maximum Load: 150kw



3 PHASE POWER DISTRIBUTION



Schneider 250A PDU's

We currently stock two Isobar 250A PDU's variants:

8 Way Schneider ACTI9 ISOBAR Power Distribution Board

Connection: PowerLock Connection or 10mm Lug with M8 Fixing; 250A Isolator

Output: 8 x 32A TPN+E Sockets (40A MCB)

Dimensions: 94cm(h) x 47cm(w) x 15cm(d)

Stand Height: 60cm

Weight: 40kg (50kg including Stand)

Maximum load: 150kw

10 Way Schneider ACTI9 ISOBAR Power Distribution Board

Connection: PowerLock Connection or 10mm Lug with M8 Fixing; 250A MCCB

Output: 10 x 32A TPN+E Sockets (40A MCB)

Dimensions: 110cm(h) x 47cm(w) x 15cm(d)

Stand Height: 60cm

Weight: 50kg (60kg including Stand)

Maximum load: 150kw



SMALLER POWER DISTRIBUTION



POWER CONVERSION OPTIONS

3 Phase Splitter

32amp 3-Phase 5-Pin Commando to three, 32Amp single phase 3-pin sockets.



Single phase distribution board

32amp Single Phase 3-Pin Commando to two or three, single phase C19 sockets, with 0.25M leads.



3 - Phase 32A distribution Board

Designed to be installed in customer temporary IT racks, occupying 6U of space for laying on top of 10kw floor standing emulators. 32A 3-Phase incoming supply and 9 x C19 outlets (three per phase) protected by 20A MCB's.



3 - Phase 32A distribution Board

Designed to be installed in customer temporary IT racks, occupying 6U of space. 32A 3-Phase incoming supply and 9 x C19 outlets (three per phase) protected by 20A MCBs.



SMALLER POWER DISTRIBUTION



CABLE SETS



5G6 3-Phase Extension Leads

32amp 5-Pin 3-Phase extension 5, 10 and 15m extension leads.



3G6 Single Phase Extension Leads

32amp 3-Pin Single Phase extension 2.5 and 5m extension leads.



Singe Phase 16Amp Commando to C19

To allow all rack mounted emulators and floor standing units to be connected to 16A commando outlets.



c14 to c19

To allow 2kw rack mounted emulators and 2kw floor standing units to be connected to 10A C13 outlets.



uk 3-pin to c19

To allow 2kw rack mounted emulators and+ floor standing units to be connected

We have standardised the power connection for all single phase heaters and server emulators with a single C20 16Amp plug. Adapter cables are available to connect to customer distribution:



MONITORING

TEMPORARY MONITORING
SOLUTIONS

DATA CENTRE TESTING... NO PROBLEM

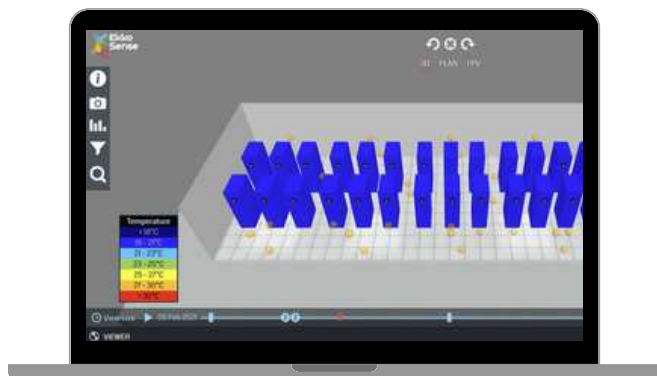
INTRODUCTION

During the commissioning and IST process of a Data Centre facility it is critical that the temperature and humidity is recorded to identify any issues. Using Ekkosense's software we can build a virtual Data Hall and configure temperature sensors to specific locations.

We've consolidated the components for an Ekkosense monitoring solution into a single 25U rack.

Each Rack includes:

- 100 x Thermal & Humidity Ekkosensors (We can add more for larger facilities).
- 1 x 4G Modem to transmit the data to the Ekkosense cloud portal.
- 1 x Ekkolink Local Data Storage (to consolidate data locally for automated upload to the cloud and to buffer data in the event of a network outage).
- 4 x EkkoHub Units (to increase coverage across larger Data Halls).



DATA CENTRE TESTING... NO PROBLEM



EKKOSENSE PORTAL

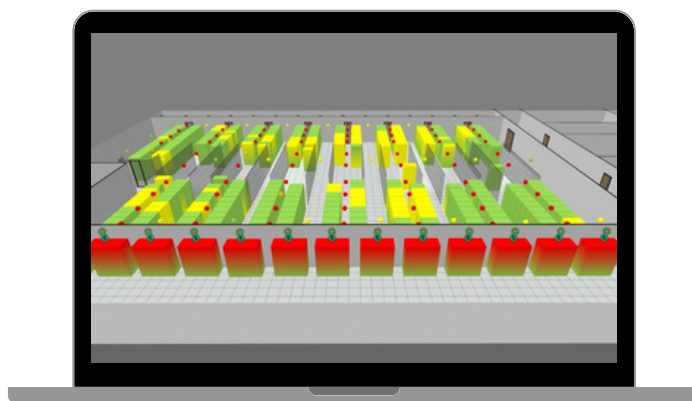
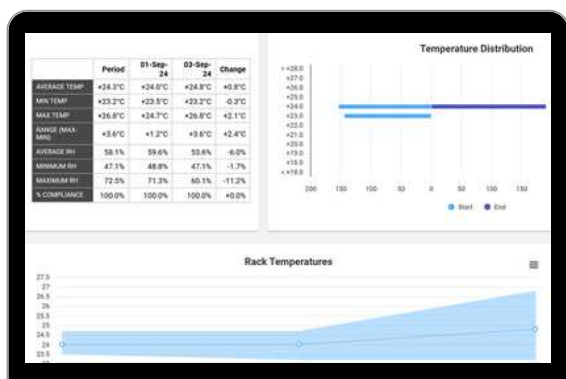
The Ekkosense software portal can be accessed anywhere in the world by laptop, PC, smartphone or tablet device. You can monitor your IST remotely and on multiple devices simultaneously.

Heatload will create a virtual live data hall that can be accessed 24/7 to monitor and gather results from your test with your own personal login

Temperature alerts can be set up to email alerts when exceeding custom temperature ranges

Reports can be generated for custom periods at any point during the test, highlighting:

- Temperature distribution
- Temperature
- Humidity
- Cooling capacity and performance
- Cooling load



OUR SERVICES



PREPARATIONS

Prior to their dispatch, all our equipment undergoes visual, PAT and/or phase testing. Typically it is only necessary to PAT test equipment every 6 months, however we test our equipment before every test to ensure that it is fully functional. Once tested the equipment is carefully packed and packed onto pallets or a dedicated vehicle.

DELIVERY/COLLECTION

Depending on the location of the project and the number of units required, our expert team will organise delivery through either one of our vehicles, pallet service or a dedicated vehicle.



INSTALLATION

Our professional team can install the equipment for you. The advantage of using our operatives is that they have installed thousands of heat load units over the years and can reduce the installation time considerably. All of our operatives carry CSCS cards, first aid trained and attend regular toolbox to ensure that they work in a safe manner.

ADDITIONAL OPTIONS

In order to provide the full package, we offer a number of additional products and services such as; temperature/humidity monitoring solutions, temporary correx blanking, temporary racks, a variety of distribution options and more.



OUR SERVICES

CONTACT US



GIVE US A CALL

You can contact us directly through our head office landline which is accessible 24 hours a day, 365 days a year.

+44(0)1243 575106

VISIT OUR WEBSITE

Search 'Heatload' into your search engine to discover information on our products and services in a greater depth. Once you have a rough idea of the package you are looking for take advantage of our simplistic quotation tool, which you'll find in our 'Get A Quote' page.



WWW.HEATLOAD.CO.UK



SEND US AN EMAIL

We understand that every project is unique and tailoring your perfect solution may take some information going back and fourth. Contact us directly via our enquiries email.

ENQUIRIES@HEATLOAD.CO.UK