

Datacentre Load Bank

90l/sec 2kW Rack Mounted

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Mafi Mushkila Ltd
www.mafi-mushkila.co.uk



Heat Load Unit – Front Air Intake

Technical Specification:

Input: 240v 50Hz Single Phase
Heater power: 1kW/2kW (switched)
Fan Motor power: 10W
Volume Airflow: 90.2l/s
Measured Δt / temperature differential: 18°C
Typical Velocity: 2.8m/second
Internal Thermostat: 42°C

Dimensions:

Height: 13.1cm (EIA 210C 3u)
Width: 48.2cm (to fit EIA 310C 19" rack)
Depth: 23.9cm
Weight: 4kg



Heat Load Unit – Rear Exhaust

A new datacentre is designed and expected to run continuously for the duration of its design life. To achieve this level of reliability it is necessary to thoroughly test the infrastructure before it goes into production. It is necessary to mimic the characteristics of the IT equipment as possible.

Using actual servers to complete the tests is not possible for a variety of reasons; cost of filling the datacentre with servers, potential for damage to IT equipment and the time it would take to reset servers after each test. During testing it is vital to have fixed, predictable loads.

The safest and most economic way is to use a heat load bank; this provides electrical load and produces a heat load. These loads allow the testing of the electrical and cooling systems in a controlled environment.

The Mafi Mushkila heat loads are designed to be mounted into any industry standard 19-inch IT racks; each 2kW unit occupies 3U of rack space. A simulated load of 2kW to 28kW (42U rack) or 30kW (47U rack) can be achieved. Loads of up to 1.2MW can be simulated from stock; larger loads are subject to manufacturing lead times.

Units are supplied with C20 power connection within the rear of the unit; C14, C20, 3-pin 13Amp or 16Amp commando power cables are available. Power distribution from either 32Amp or 63Amp single phase distribution is available.

Units can be supplied on a rental only service or a fully managed service where Mafi Mushkila will install, manage the load banks for the duration of the testing and de-install at the end of the test. Temporary blanking plates can also be installed.

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Datacentre Testing.
No problem