DL3 Data sheet

19“ Load resistence

Description

The Infotech DL3 load resistance is a device for assessing the infrastructural performance capacity in data centers. It was developed to stress test fully-equipped power supply and air cooling systems.

Mechanical assembly

The load resistance is designed for fitting in 19“server racks. A 4HE front cover serves as a basis for housing in which all electrical components are installed.
The housing consists of two elements.

Front cover	Contains all components
Housing with heating channel	Encases all components and provides for a directed air flow over the heating element

Functioning

Through the openings at the front two ventilating fans take in air. The air flow will be conducted into a heating channel containing a heating element. In this fashion air will be warmed up and expelled at the end of the heating channel.

Handling

An electrical connection is established by connecting a (Schuko??/safety) power plug to an appropriate socket. Ideally the server should be attached to the same sockets later on.

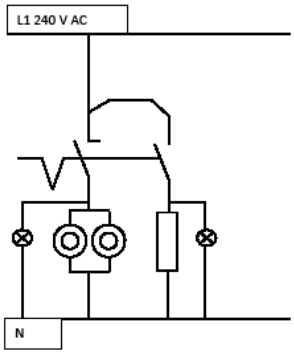
Located at the front part is a two stage rotary switch. Stage 1 activates the fans, stage 2 additionally triggers the heating element. Two control lights indicate the chosen operational mode. For activation the rotary switch must be turned over position one into position two. The fans are activated and the heating process starts.

At the end of utilization it is necessary to conduct the residual heat out of the housing. By switching the rotary switch back into position one (deactivation of heating element, ventilation remains active) the interior housing temperature is reduced to a designated level.

Security advice

During operation the external sides of the heating channel heat up considerably. Touching is to be avoided. After utilization cooling is to be initiated. Don't leave the device unattended.

Circuit diagram:



Environmental conditions / operating temperature

The recommended temperature in server rooms is usually about 20-25° C.

Venting temperature max	140 °C after 10 minutes in 10 cm distance
Surface temperature max	90°C after 15 minutes operating
Cooling process surface temperature about 30°C	at least 15 minutes

Electrical circuit values

Nominal voltage	230 V AC
Rated output	3044 W (3 KW)
Protective measures	protective earthing
Cable cross-section supply line	3 x 2,5 mm²

Measurements

Length	1110 mm
Width	481 mm
Height	175 mm 4 height units
Weight operational condition	12,00 kg
Length of connection cable	1,5 mtr

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