

1050 kW Load Bank

Our LSDR1050 model is developed to test and validate performance for an energy source of up to 1050 kW

Operating principle

Our load banks apply an adjustable electrical power to the tested source using resistive elements with high thermal stability.

The absorbed power is dissipated as heat, removed by a forced-ventilation cooling system that maintains operating conditions and ensures test continuity.

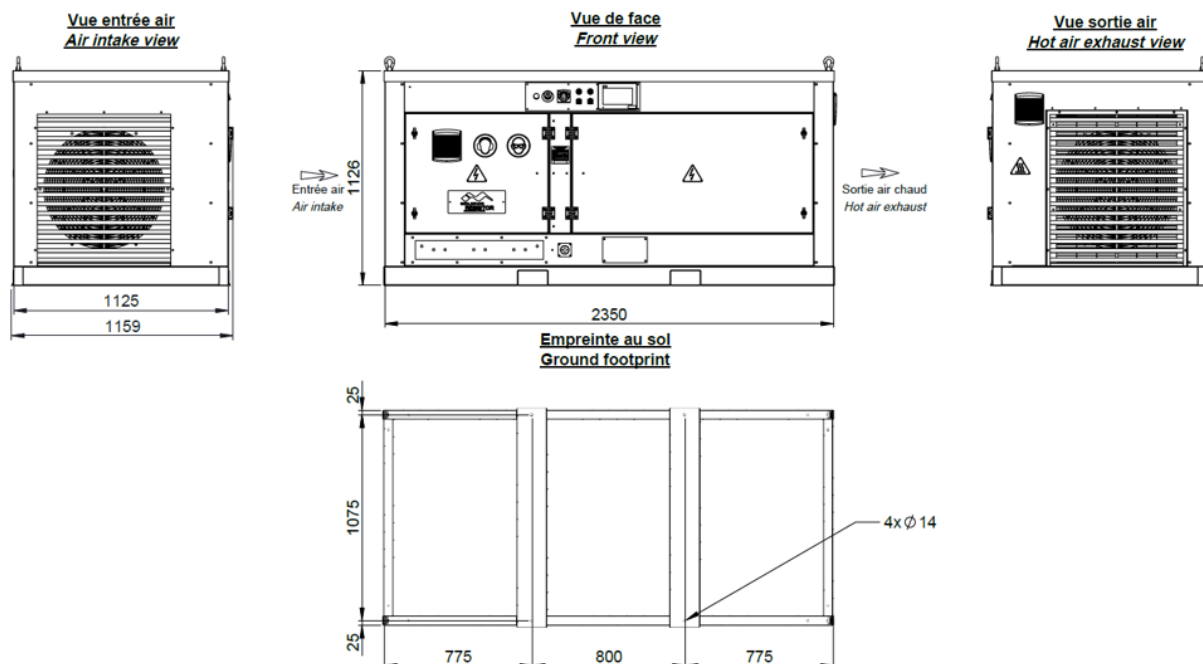
The load levels are segmented into switchable steps, allowing precise adjustment of the applied power and the execution of test sequences.



General Characteristics

Load Type	Resistive
Rated Power	1050 kW
Rated Voltage	400 Vac $\pm$ 3.75% 3-phase
Power Factor	1
Frequency	50 Hz
Resolution	1 kW

Height	1050 mm
Depth	1025 mm
Length	2350 mm
Mass ($\pm$5%)	750 kg
Cooling	1 Fan



Technical Specifications

The clean architecture of our load bank simplifies its installation and use.

Design	
Use	Indoor & Outdoor
Frame	Painted steel 100 µm
Casing	Galvanized steel 80µm Colour: Grey RAL7035
Handling	Fork pockets Lifting eyes

Cooling system	
Air extraction	Horizontal
Rated Power	11 kW
Air flow	18,600 m ³ /h
Average air T rise (in K)	≈ 180
Sound level at 1 m	97 dBA +/- 3dBA ⁽¹⁾

Resistive elements	
Technology	Expanded grid RD Finned stainless steel tube
Resistive Alloy	CrAl 20/5 Nickel-chromium 80/20
Element tolerance	+/- 5%
Temperature drift	< 2%

Protections	
Resistive elements	Fuse or circuit-breaker protection
Fan motor	Circuit-breaker protection
Safety devices	Air-flow detector Emergency stop

Control system

A simple interface for ease of use.

Control system		
Power ramp-up	3-pole AC contactors	
Resistive load control	Echo-B (Basic)	Echo-A (Advanced)
HMI	4.3" touchscreen	7" touchscreen
Manual mode	☒	☒
Cycle mode	☐	☒
Measurements (U, I, P, F, pf)	☐	☒
Data logging	☐	☒
Ballast mode	N/A	Option
Communication ModBus	Option	Option
Remote control	Control cable 100 m max	

Environmental Characteristics

Capable of operating in all environments.

Operating T°C	-15°C to +50°C
Storage T°C	-20°C to +70°C
Ambient Humidity	95% relative ⁽²⁾
Operating altitude	<1000 m

IP electrical enclosure	IP 54
IP air duct	IP 23

⁽¹⁾ Measured at 1 m from the bank, ½-spherical propagation of the equipment (Q=2)

⁽²⁾ Relative humidity, non-condensing

