



The 8300 is a 10 foot ISO containerized resistive reactive load bank with capacities up to 3300kVA and a wide option of voltages. Equipped with SIGMA control enabling multiple options for testing, networking and data acquisition.

Capacity Rating (kVA @ 0.8pf)

Product Code	3ph Loading (kVA @ 0.8pf)					Control Circuit
	380V 50Hz	400V 50Hz	415V 50Hz	440V 60Hz	480V 60Hz	
8300-3300-HAAD-B2AX	2068kVA 1654kW 1241kVAr	2291kVA 1832kW 1375kVAr	2466kVA 1970kW 1480kVAr	2770kVA 2216kW 1662kVAr	3300kVA 2640kW 1980kVAr	380-420V 50Hz 440-480V 60Hz

Load Step Resolution	1kW / 5kVAr
Overall Tolerance	±2.5% total capacity

¹ Sigma will NOT allow +10% over voltage operation – max short term over V +6%

Performance & Operation

Short Circuit Rating	10kA
Load Duration	100% load, continuous at rated Voltage. 10% above rated Voltage for short periods.
Connection Options	Bus Bar: M12 single hole lug, 6 per phase, 5 x PE, 1 x Instrumentation Neutral.
Instrumentation Accuracy	Class 0.5
Insulation Voltage - Power Circuit	1000V DC
Control Platform	SIGMA II

² Short period is defined as 1 hour in 12.

Fan & Control Circuit

Connection External/Internal	63A 3ph, + PE plug and socket conforming to IEC 60309-2 From supply on test
Fan & Control Circuit Consumption	50A Nominal (60Hz)
Recommended Protection	63A aM style fuse or equivalent (60Hz)

Design

Construction	10ft ISO style container
Elements	Stainless steel, non-finned sheathed elements
Inductors	Iron core, Vacuum impregnated with insulating varnish (Insulation class H)
Finish	Grey RAL7042 - C3 Finish (ISO12944)
Lifting	4 point lift via x4 corner ISO castings / Forklift pocket
Height	2591mm
Width	2438mm
Length	2991mm
Max Weight	9000kg

Environmental

Ambient Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Degree of Protection	All electrical enclosures to IP55
Operating Humidity	90% relative humidity, non-condensing
Operating Altitude	1000m ASL
Required Airflow (@50Hz)	14m3/sec
Required Airflow (@60Hz)	17.5m3/sec
Average Air Temperature Rise	146°C at duct outlet (50Hz) / 138°C at duct outlet (60Hz)
Hot Air Exhaust	Vertical
Noise Level	85dBA ±3dBA @ 50Hz

³ Battery life in the SIGMA LT control panel may be reduced if stored outside of 0°C to +30°.

⁴ Taken 3 meters from load bank at 90° to airflow direction

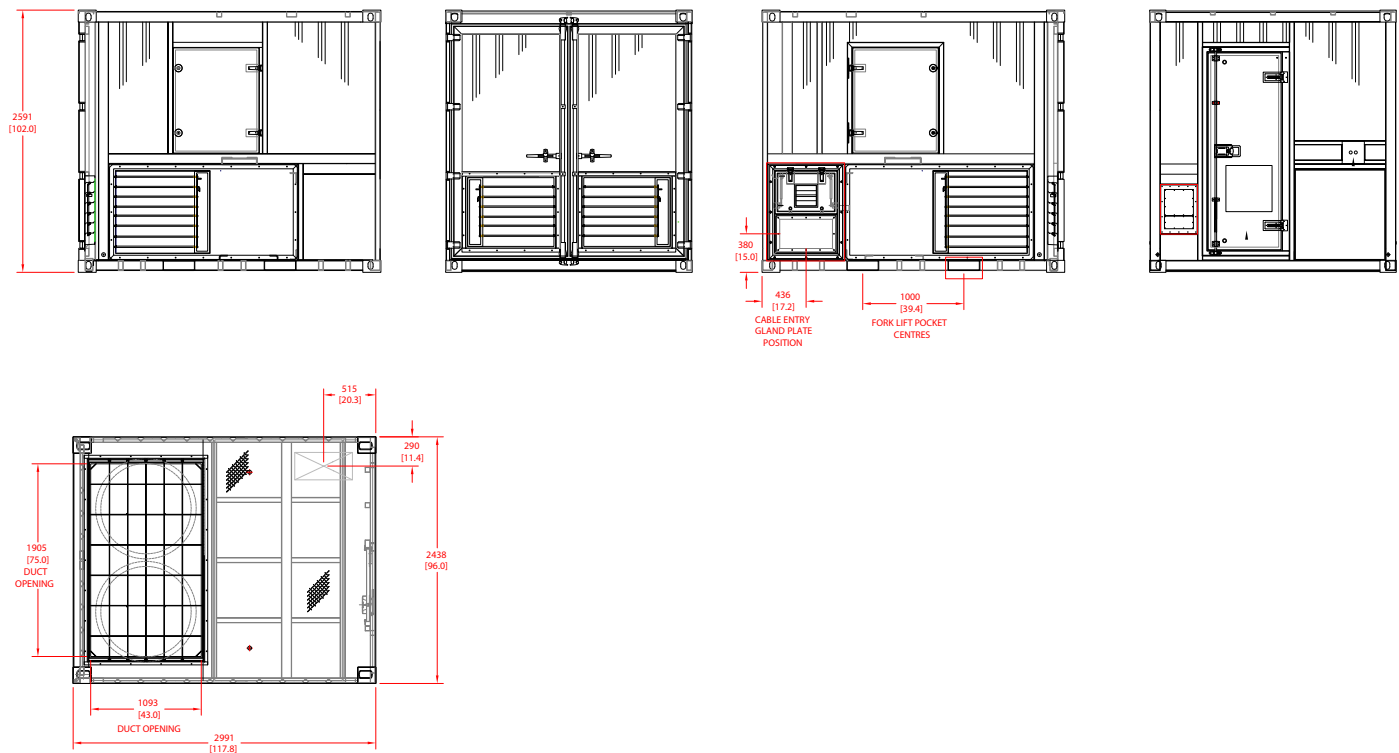
Standards & Compliance

Standards	  
Warranty	24 months

Optional Accessories

Sigma Handheld and 10m Lead	EI02603
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Outline Drawing / Connection Diagram



All dimensions are in millimeters.
Specifications subject to change without notice.