



* Final design to be confirmed

The Avtron Model LC35 are liquid-cooled, resistive, AC load banks designed for moveable, indoor installations when up to 700 kW of electrical load is required.

Capacity Ratings (kW)

Product Code	3 Phase			Control Circuit	Power Connection Type	Liquid Connection Type
	380V	400V	415V			
	460kW	500kW	500kW	220-240V 50Hz	Powerlock	100mm Non Drip stainless steel couplings

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

Performance & Operation

Short Circuit Rating	5kA
Load Duration	100% load, continuous at rated Voltage. 10% above rated Voltage for short periods. ¹
Connection Options	Powerlock Quick connections
Instrumentation Accuracy	Class 0.5
Insulation Voltage - Power Circuit	1000V DC
Control Platform	RxMS

¹ short period is defined as 1 hour in 12.

Control Circuit

Control Circuit Consumption	Nominal 6A
Connection External/Internal	External: 16A 1ph + PE plug and socket conforming to IEC 60309-2 Internal: From supply on test
Recommended Protection	16AgG style fuse or equivalent

Design

Construction	2mm Zintec mild steel, folded and welded to form a modular construction
Elements	Immersion type Incoloy 800, non-finned sheathed elements
Finish	Grey RAL7012 - C3 Finish (ISO12944)
Lifting	Forklift pocket
Height	1253mm
Width	1150mm
Length	1646mm
Weight	800kg (Dry Weight), 1000kg (Wet Weight)

Environmental & Liquid

Ambient Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +70°C ²
Degree of Protection	All electrical enclosures to IP54
Operating Humidity	90% relative humidity, non-condensing
Operating Altitude	0-1000m
Flow	Minimum: 1.3 Litres Per Minute (LPM) per kW Maximum: 1150 LPM
Pressure	70 PSI [4.8 bar] Max Working Pressure 72 PSI [5 bar] Over Pressure Release Valve
Temperature	80°C Max. Water Outlet, 32°C Max. Temperature Differential
Sensors	Over Pressure, Over Temperature, Low Flow Rate (70 LPM Min) Protection, Leak Detection

²Battery life in the SIGMA LT control panel may be reduced if stored outside of 0°C to +30°.

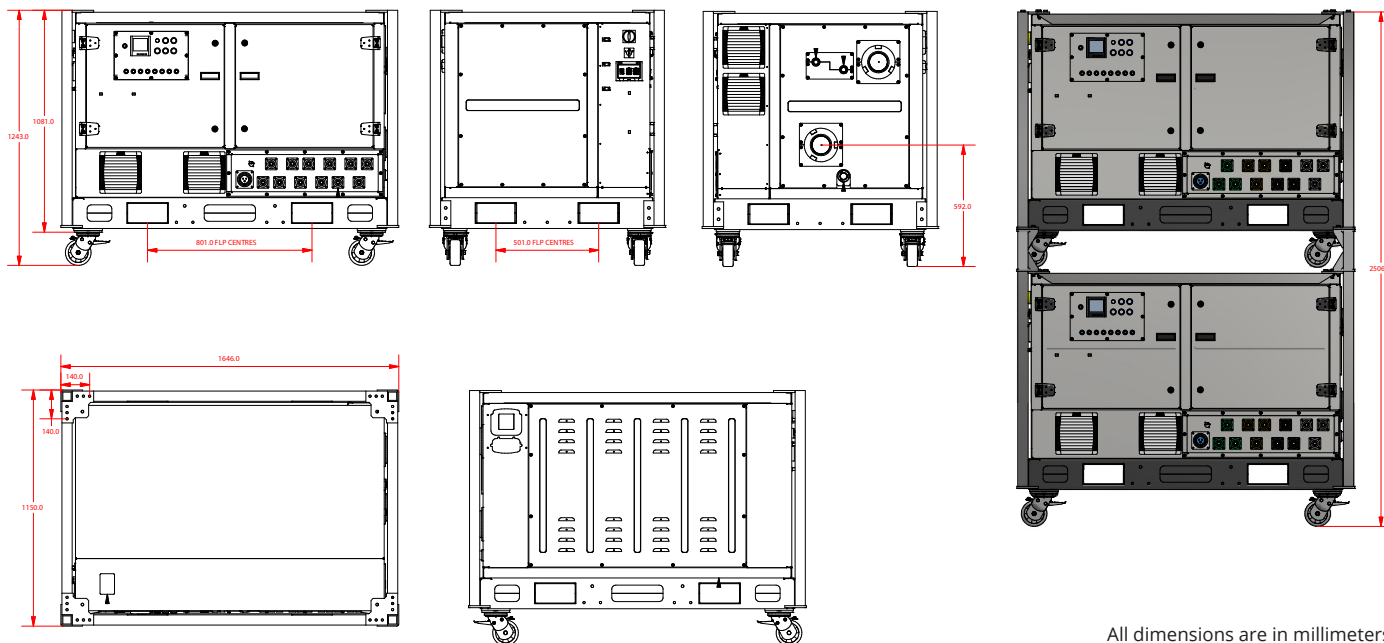
Standards & Compliance

Standards	  
Warranty	24 months

Optional Accessories

SIGMA LT Hand-held Control	EI02477
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Outline Drawing / Connection Diagram



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