



The Avtron Model 3164 are resistive, AC load banks designed for moveable, outdoor installation when up to 1600 kW of electrical load is required.

Capacity Ratings (kW)

Product Code	3 Ph Loading							1 Ph Loading						Control Circuit
	208V	220V	230V	380V	400V	440V	480V	120V	127V	230V	240V	254V	277V	
3164-1600-DBAB-B2AX	433	484	529	1444	1600	-	-	95	106	349	380	426	506	380-420V 50Hz 3 Ph
3164-1600-HAAD-B2AX	300	336	367	1003	1111	1344	1600	66	74	242	264	296	352	380-420V 50Hz 3 Ph 440-480V 60Hz 3 Ph

Load Step Resolution	1kW (using SIGMA II)
Overall Tolerance	±2.5% total capacity

Performance & Operation

Short Circuit Rating	10kA
Load Duration	100% load, continuous at rated Voltage. 10% above rated Voltage for short periods. ¹
Connection Options	Bus Bar: M12 single hole lug, 12 per phase, 4 x PE, 1 x N.
Instrumentation Accuracy	Class 0.5
Insulation Voltage - Power Circuit	1000V DC
Control Platform	SIGMA II

¹ short period is defined as 1 hour in 12.

Fan & Control Circuit

Fan & Control Circuit Consumption	50Hz - Nominal - 20A, 60Hz - Nominal - 30A
Connection External/Internal	External: 32A 3ph + PE plug and socket conforming to IEC 60309-2 Internal: From supply on test
Recommended Protection	50Hz - 25A aM style fuse or equivalent, 60Hz - 32A aM style fuse or equivalent

Design

Construction	2mm 'Zintec' steel, folded and welded to form a monocoque construction.
Elements	Stainless steel, non-finned sheathed elements
Finish	Grey RAL7042 - C3 Finish (ISO12944)
Lifting	4 point lift / Forklift pocket
Height	2552mm
Width	1760mm
Length	2418mm
Weight	2000kg

Environmental

Ambient Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Degree of Protection	Design of electrical enclosures to IP54
Operating Humidity	90% relative humidity, non-condensing
Operating Altitude	1000m ASL
Required Airflow (@50Hz)	10m³/sec
Required Airflow (@60Hz)	12m³/sec
Average Air Temperature Rise	135°C at outlet
Hot Air Exhaust	Vertical
Noise Level	79dBA ±3dBA @ 50Hz, 3 meters from load bank at 90° to airflow direction

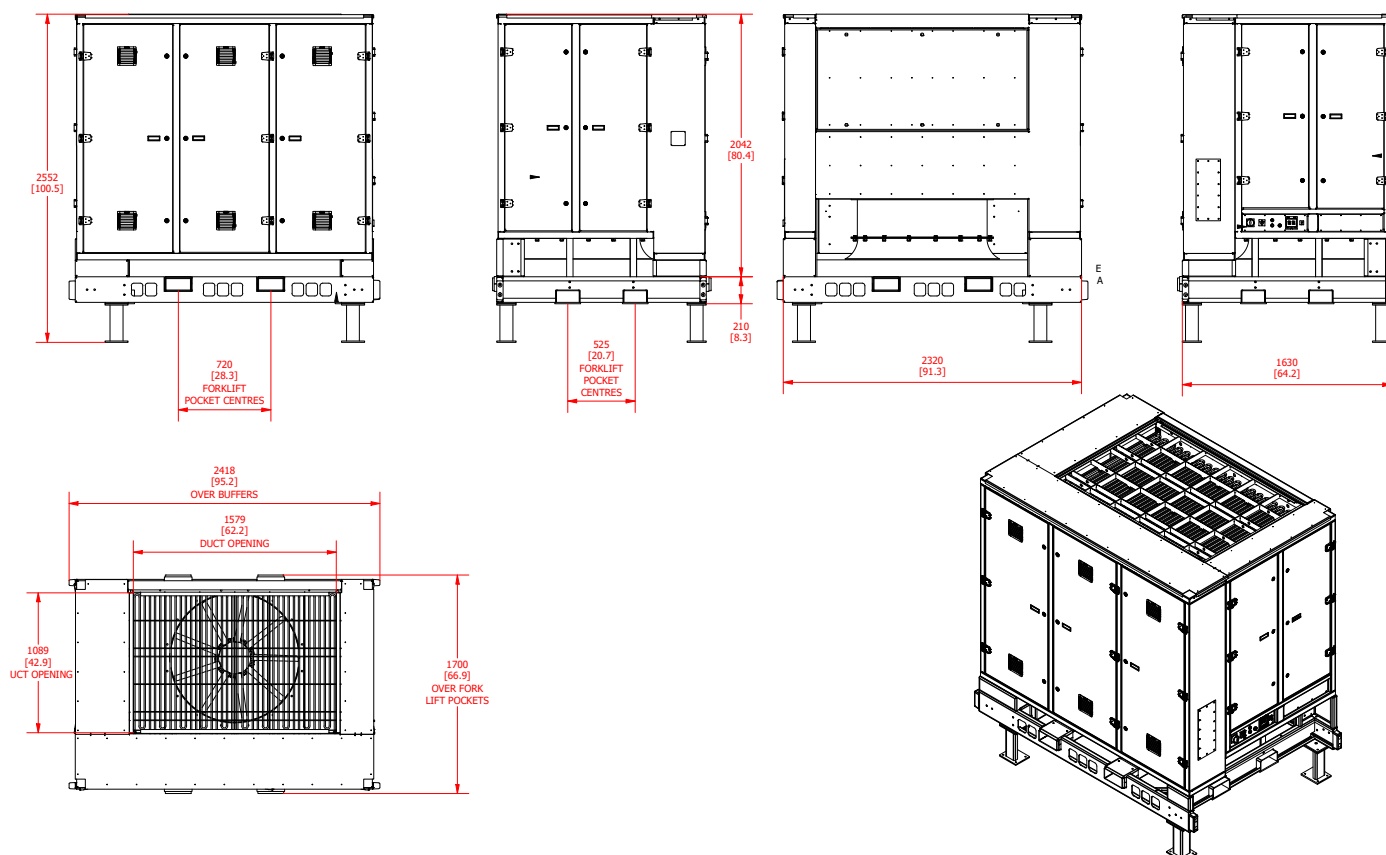
Standards & Compliance

Standards	  
Warranty	12 months

Optional Accessories

PVC Cover	PR01552
SIGMA LT Hand-held Control	EI02603
Trailer mount	-

Outline Drawing / Connection Diagram



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