DATASHEET

AWC8063

Common Name: 68.9" x 27.5" (HxW) Telecom Equipment Cabinet with Free Air Cooling (LHS)

Height	Width	Depth	Volume
68.9"	27.5"	27.9"	30.4 cu ft
1750mm	700mm	710mm	872 liters

PRODUCT INFORMATION

This cabinet is intended to house telecommunication equipment for Streetworks applications. Mounting brackets provide secure and ergonomic attachment directly to ground. A fan array promotes free air-flow for temperature control. When used with an AWC8062 Pole Surround Enclosure, the AW8063 is positioned to the left hand side (LHS) of the AWC8062.

APPLICATION

Alpha Wireless Telecom cabinets provide housing telecommunication equipment required for Streetwork applications. This telecom enclosure can be used with a monopole and canister antenna to provide an aesthetically pleasing solution that are physically closer to the user. Closer proximity to users is required for higher speed / higher capacity communications.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015

FEATURES

- IP Rated Telecom Enclosure
- Extended interior equipment chamber supports multiple RRU's, PSU's, and other telecom infrastructure.
- Weather-resistant, UV-stabilized powder-coated exterior finish.
- Range of options depending on requirements such as cabinet sensors and temperature control options.
- Lock on front door for security.

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

ALPHA WIRELESS

AWC8063

TECHNICAL SPECIFICATION

Mechanical Specifications

Specification	Unit	Description
Dimensions (HxWxD)	mm (in)	1750 (68.9) x 700 (27.5) x 710 (27.9)
Packing Size (LxWxD)	mm (in)	1850 (72.8) x 800 (31.5) x 800 (31.5)
Net Weight	kg (lb)	96 (211)
Shipping Weight	kg (lb)	113 (249)
Internal Dimensions	mm (in)	1365 (53.7) x 612 (24.1) x 620 (24.4)
Internal Equipment Racking	-	Vertical Rails to enable equipment mounting
Materials	-	Aluminium and Stainless Steel
Insulation Construction	-	40mm sandwich between internal and external walls.
Insulation Material	-	Extruded Polystyrene (XPS)
Insulation Rating	-	Thermal resistance 1.25 (m^2k) / w (EN13164)
Access	-	Front Access via Doors
Installation	-	Ground Installation on Concrete Plinth
Ingress Protection	IP Rating	IP55
Rack Space	-	EIA 19" with 30U usable space
Paint	-	100 micron thickness polyester
Colour (Walls and Doors)	RAL	RAL7035 Grey
Colour (Roof)	RAL	RAL7035 Grey
Door Lock Specification	-	Single Key Lock per door to European profile (DIN)
Cables Access and Routing	-	Underfloor space of 240mm via floor panels
Temperature Control	-	Air Ventilation via fans x 2
Location of Fans	-	In ceiling of cabinet
Voltage of Fans	-	Minus 48 Volts DC
Fan Air Capacity	m^3/hour	540m^3 per hour x 2
Ventilation Air Inlet	-	Louvres located in front door panel
Ventilation Air Inlet Filter	-	Louvres and Particulate Filter
Ventilation Air Outlets	-	Louvres located in ceiling eaves and rear panel
Ventilation Air Outlet Filter	-	Louvres only
Turbine Control	-	See equipment and custom options section
Security Rating	IK	IK-10

ALPHA WIRELESS

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TECHNICAL SPECIFICATION

Cabinet Customisation by Supplier

Additional components / system can be added to the basic cabinet depending on requirements.

Option Matrix	A	B	C	D	E
AC Electrical	Surge Protection	Recloser Protection	AC Breakers	n/a	Not Supplied
DC Electrical	Electronic Controller	-48V DC Power Supply	DC Breakers	n/a	Not Supplied
Temperature Control	Electronic Controller	Temperature Sensors	Thermistor Switch	Air Conditioning	Not Supplied
Cabinet Controls	Electronic Controller	Door Open Sensor	Smoke Sensor	n/a	Not Supplied
Remote Monitoring	Electronic Controller	n/a	n/a	n/a	Not Supplied

Description of Options

Option	Description
Surge Protection	Used to limit surges generated by lightning to an acceptable level for telecom and sensitive lighting equipment.
Recloser Protection	Enables automatic re-connection (re-closing) after a temporary electrical fault. Avoids unnecessary site visits to restore manual circuit breakers and expensive site outages.
AC Breakers	Prevents excessive current to AC equipment.
DC Breakers	Prevents excessive current to DC equipment.
-48V DC Power Supply	Various options depending on requirements.
Electronic Controller	Various options ranging from local cabinet control of temperature to remote cabinet monitoring and reporting of all sensors.
Temperature Sensor	Used to measure internal cabinet temperatures and trigger response.
Thermistor Switch	Alternative option to using Electronic Controller to activate fan cooling through use of temperature switch to activate cooling fans at a set temperature.
Air Conditioning	Used to cool incoming air when external air temperature is too warm to cool cabinet through ventilation alone.
Door Opening Sensor	Used with Electronic Controller for remote reporting of a door opening.
Smoke Sensor	Used with Electronic Controller for remote reporting of a potential fire hazard.

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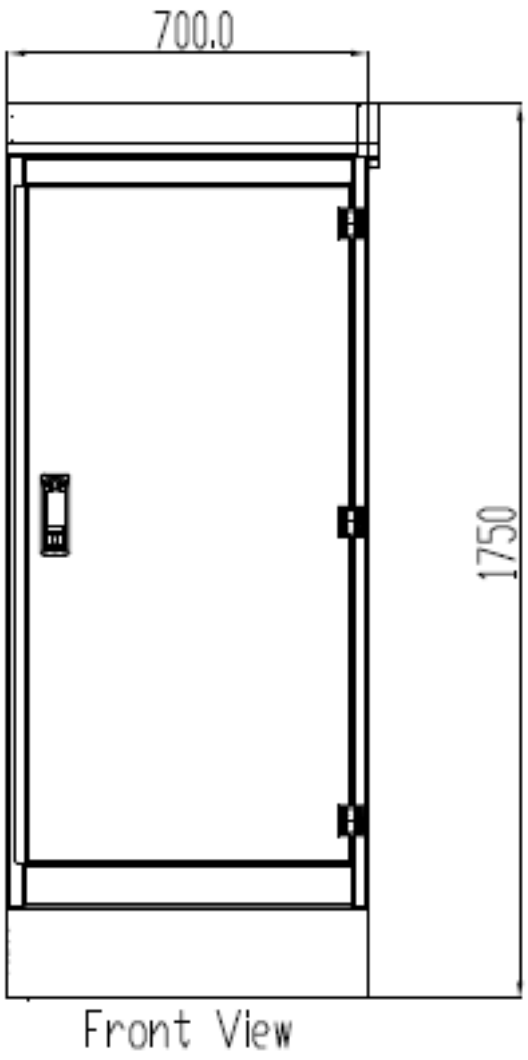
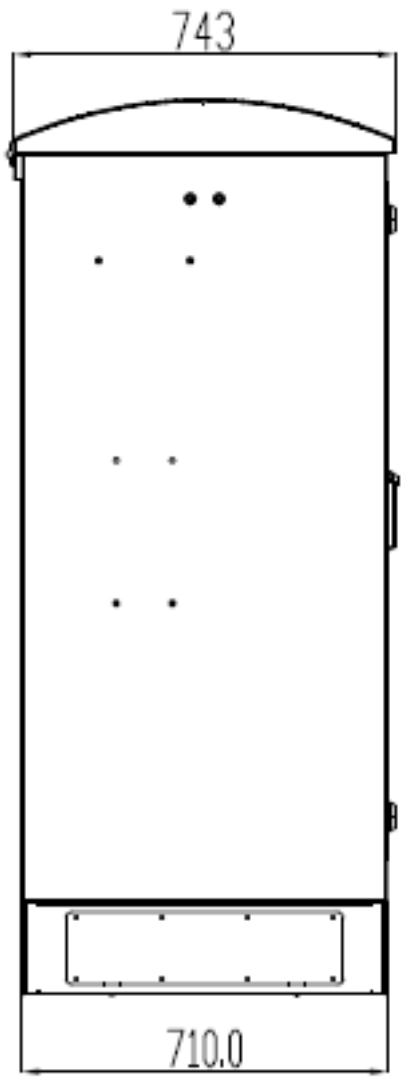
TECHNICAL SPECIFICATION

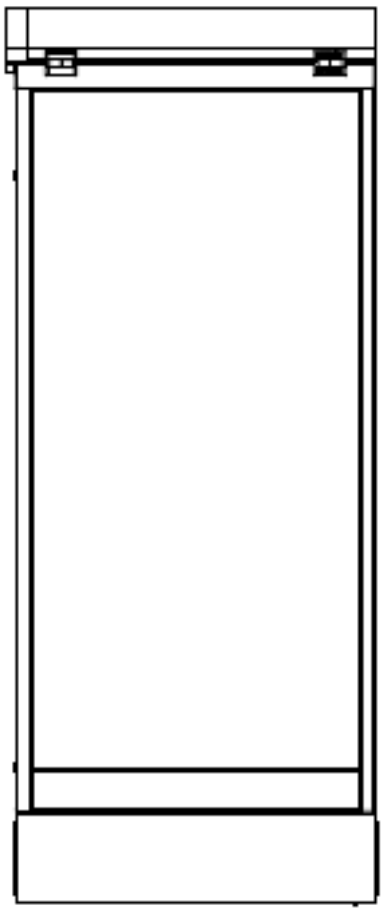
Outline Drawings

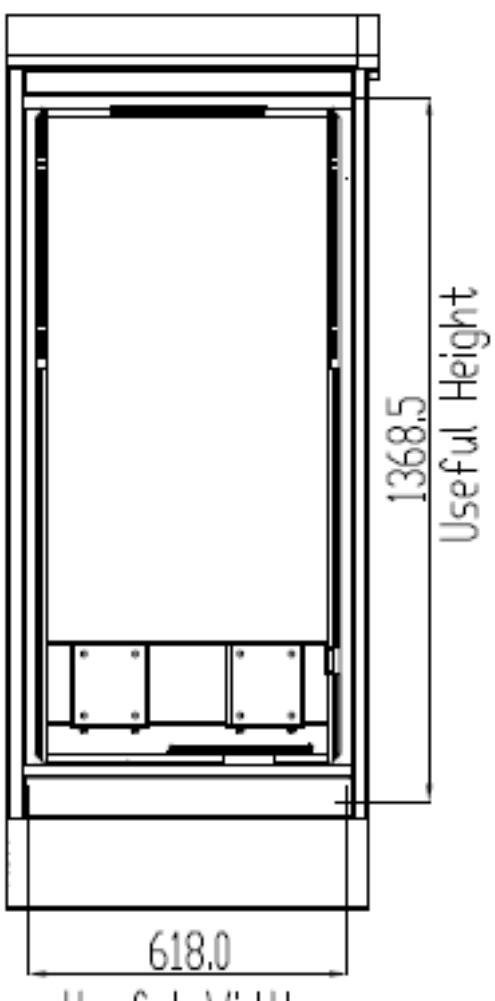


Front View

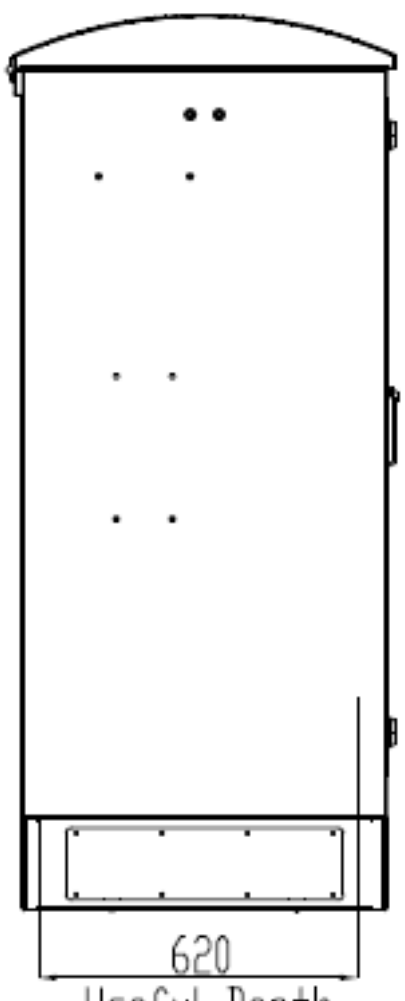


Side View

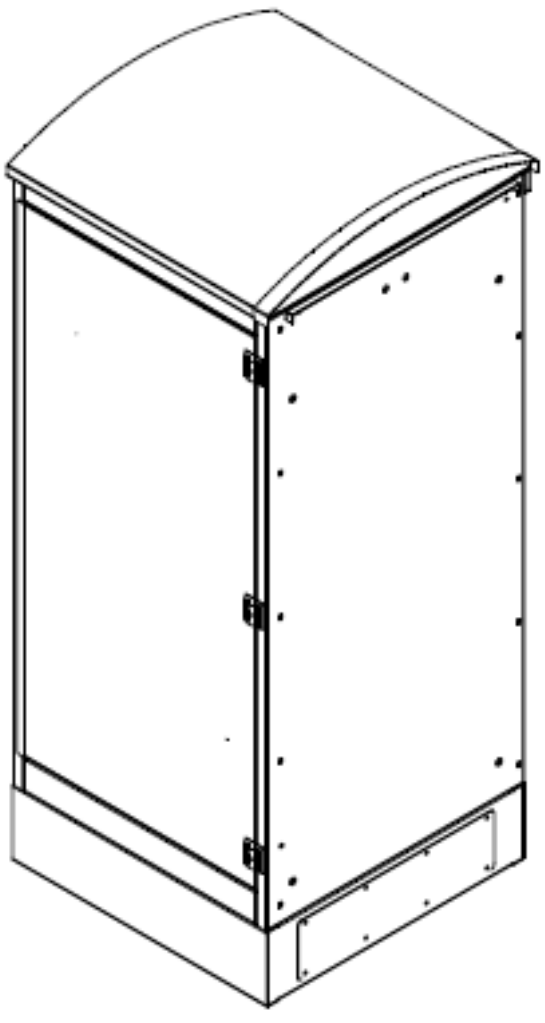

Rear View



Useful Width



Useful Depth


Perspective View

AWC8063

TECHNICAL SPECIFICATION

Site Configuration Options

Picture on left showing single AWC8061 Cabinet.

This single cabinet can be used as a modular building block to create a site using several cabinets joined together to create space for additional equipment.

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TECHNICAL SPECIFICATION

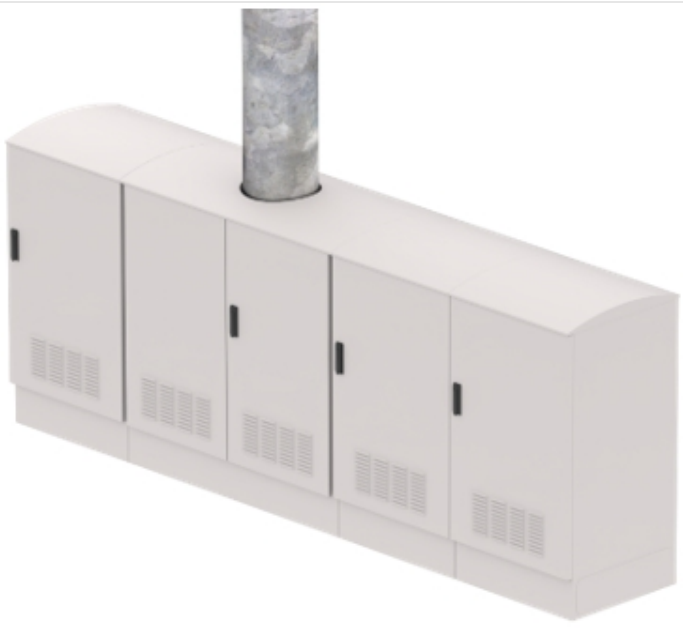
Site Configuration Options

Picture showing three products from left to right:
AWC8060 Telecom Cabinet with Air Conditioned Cooling.
Air Conditioner is fitted to the door.

AWC8062 Pole Surround Enclosure.
The Pole Surrounding Enclosure is used to integrate the base of a Monopole with the equipment cabinets. The AWC8062 is fitted with free air cooling capability to allow equipment to be installed in this space.

AWC8063 Telecom Cabinet with Free Air Cooling.
Cool air is drawn in through the louvres on the front door, passed through the equipment and is vented at the top of the cabinet.

RF Feeder Cables that supply the Antenna at the top of the pole pass out of the pole within the AW8062 Pole Surround Enclosure and are routed into the AWC8061 and AWC8063 Equipment Cabinets.



Picture on left showing a single AWC8063 Cabinet to the left of the AWC8062 Pole Surround Enclosure and two AWC8061 Cabinets positioned to the right of the Pole Surround Enclosure.

This modular cabinet system allows for the provision of additional equipment space with minimal custom design changes.

Depending on requirements, the number of cabinets can be scaled to match equipment capacity needs for the site.

AWC8063

Ordering Info

Order Code - Enclosure	Description
AWC8060	68.9" x 27.5" (HxW) Telecom Equipment Cabinet with Air Conditioning (LHS).
AWC8061	68.9" x 27.5" (HxW) Telecom Equipment Cabinet with Free Air Cooling (RHS).
AWC8062	68.9" x 50.4" (HxW) Telecom Pole Surround Enclosure with Free Air Cooling.
AWC8063	68.9" x 27.5" (HxW) Telecom Equipment Cabinet with Free Air Cooling (LHS).

Customisation Options

The Order Codes shown above are for equipment cabinet without any customised options.
Individual customisation order code options will be incorporated into the AWC80XX order code by the addition of an order code suffix.

Enquiries

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