

Raycap

Custom Cabinet Solutions



About Raycap



Raycap is a privately-held technology solutions provider offering products and services that support and protect the world's critical telecommunications, energy, transportation and other infrastructure.

Since 1987 Raycap has built a worldwide organization with offices and production facilities throughout Europe and in North America. The company combines advanced engineering, superior product design, systems integration and manufacturing capability with a deep understanding of the needs of the customer to create unique technological solutions for mission-critical applications. It also offers engineering services such as custom product design and site surveys, as well as warehousing, logistics, customer training, and much more.

The company's comprehensive understanding of customer needs and the industries in which they operate is crucial to its ability to develop effective products and

solutions that integrate the latest technology with the highest quality of service.

The Raycap team of talented, highly experienced staff works together with customers to find the best-fit solutions. As a result, more than half of the products delivered are custom-built for unique customer applications and to their specifications. From rigorous internal and independent testing to a consultative customer-focused approach, Raycap is determined to deliver the highest quality products with responsiveness, innovation and agility.





RDIOC-40U23-3HVAC-B

Outdoor Cabinet for Active Equipment

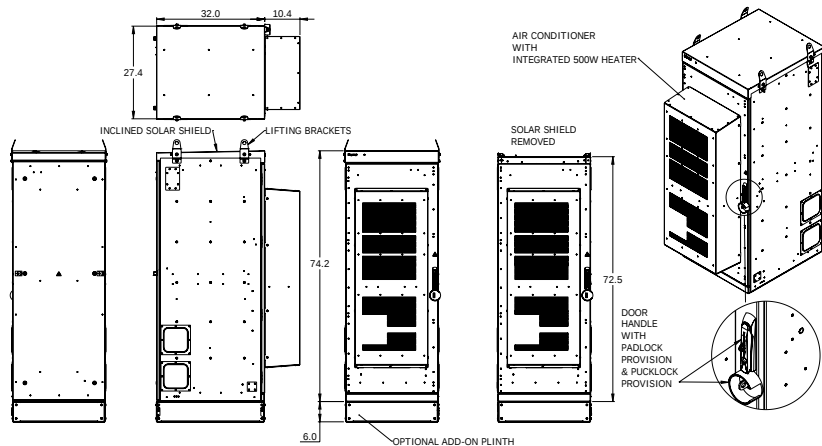


Raycap's cabinet solutions offer durable equipment protection to deliver maximum reliability for mobile networks. The cabinet systems are modular in design to enable easy installation and flexible operation for AC and DC power distribution.

- Single-bay outdoor cabinet (NEMA Type4 design)
- 2kW, 2.5kW, 3kW Air Conditioner
- Mechanically fastened, 1" thick rigid EPS insulation
- 40U of 23" rack space
- Swingout pad/puck-lockable front door
- Removable pad/puck-lockable rear hatch
- Durable powder-coated aluminum design
- Interior 16-position Main Ground Bar
- DC-powered interior lights
- GFCI-protected pre-wired outlet
- Various alarm sensors available

Environmental & Mechanical Specifications*

AC Distribution	
Configuration	Pre-wired GFCI outlet (4m cable length)
AC Input Characteristics	
Input Voltage	120VAC for GFCI
Frequency Range	60Hz
Input Current	15A for GFCI
Connections	
Alarm Block Connection	Push in terminals 24-12 AWG
Environmental	
Protection Class	NEMA Type 4
Shock Resistance	IK10 according to IEC 62262
Operating Temperature Range	5° to +131°F (-15° to +55°C)
Storage Temperature Range	-40° to +158°F (-40° to +70°C; refer to ETSI 300 019-1-1, Class 2.3)
Transport Temperature Range	-40° to +158°F (-40° to +70°C; based to ETSI 300 019-1-2, Class 2.3)
Noise	<65dBA @ 1m
Accessories	
Interior Lights	2x DC-Powered LED lights
Alarm Interface	Pre-wired terminal block with 20x push in terminals
Door Sensors	4
Thermostat	1
Cable Management	Slack storage tray with capacity > 130 ft. (3mm cable diameter), 19" cable strain relief bar
Water Drip Enclosure	N-Type connectors knockouts, cable gland
Mechanical	
Construction	Aluminum alloy (EN AW-5052 H32)
External Dimensions (H x W x D)	72.5" x 27.25" x 32" (not including solar shield and base) 80.4" x 27.25" x 32" (including solar shield and base)
Cabinet Base Included (H)	6"
Surface / Color	Powder coated light gray color
Total User Area	40U 23" rack-space
Locking Mechanism	4-point locking system for the front door
Cable Entry	6 blind plates, 2x cable glands for ground cables on cabinet floor
Insulation	1" thick EPS rigid insulation, mechanically fastened
Temperature Control	
Cooling System	RDIOC-40U23-3HVAC-B: 3kW DC Air Conditioner
Heater	0.5kW integrated to cooling systems and optional 1kW heater for expansion





RDIOC-40U23-HEX-B

Outdoor Cabinet for Active Equipment

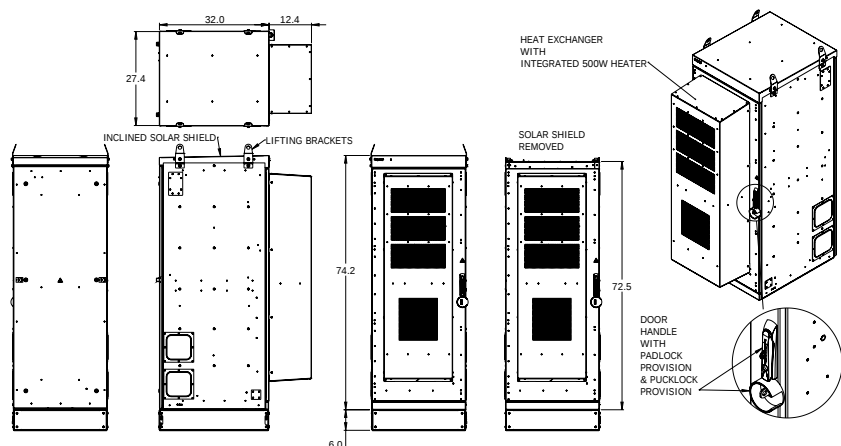


Raycap's cabinet solutions offer durable equipment protection to deliver maximum reliability for mobile networks. The cabinet systems are modular in design to enable easy installation and flexible operation for AC and DC power distribution.

- Single-bay outdoor cabinet (NEMA Type4 design)
- 255W/K Thermosiphon Heat Exchanger with integrated heaters 0.5kW
- 40U of 23" rack space
- Swingout pad/puck-lockable front door
- Removable pad/puck-lockable rear hatch
- Durable powder-coated aluminum design
- Interior 16-position Main Ground Bar
- DC-powered interior lights
- GFCI-protected pre-wired outlet
- Various alarm sensors available

Environmental & Mechanical Specifications*

AC Distribution	
Configuration	Pre-wired GFCI outlet (4m cable length)
AC Input Characteristics	
Input Voltage	120VAC for GFCI
Frequency Range	60Hz
Input Current	15A for GFCI
Connections	
Alarm Block Connection	Push in terminals 24-12 AWG
Environmental	
Protection Class	NEMA Type 4
Shock Resistance	IK10 according to IEC 62262
Operating Temperature Range	5° to +131°F (-15° to +55°C)
Storage Temperature Range	-40° to +158°F (-40° to +70°C; refer to ETSI 300 019-1-1, Class 2.3)
Transport Temperature Range	-40° to +158°F (-40° to +70°C; based to ETSI 300 019-1-2, Class 2.3)
Noise	<65dBA @ 1m
Accessories	
Interior Lights	2x DC-Powered LED lights
Alarm Interface	Pre-wired terminal block with 20x push in terminals
Door Sensors	4
Thermostat	1
Cable Management	Slack storage tray with capacity > 130 ft. (3mm cable diameter), 19" cable strain relief bar
Water Drip Enclosure	N-Type connectors knockouts, cable gland
Mechanical	
Construction	Aluminum alloy (EN AW-5052 H32)
External Dimensions (H x W x D)	72.5" x 27.25" x 32" (not including solar shield and base) 80.4" x 27.25" x 32" (including solar shield and base)
Cabinet Base Included (H)	6"
Surface / Color	Powder coated light gray color
Total User Area	40U 23" rack-space
Locking Mechanism	4-point locking system for the front door
Cable Entry	6 blind plates, 2x cable glands for ground cables on cabinet floor
Insulation	N/A
Temperature Control	
Cooling System	255W/K Thermosiphon Heat Exchanger
Heater	0.5kW integrated to cooling systems and optional 1kW heater for expansion





RRYOC-38U23-8000HEX

Outdoor Cabinet for Active Equipment



Raycap's outdoor cabinet system accommodates 38U of 23" rack space, DC power distribution unit, fiber management tray, 8kW Thermosiphon Heat Exchanger, various sensors and accessories and an alarm block.

- Single-bay outdoor cabinet (NEMA Type4 design)
- Mechanically fastened, 0,5" thick rigid EPS insulation
- 38U of 23" rack space
- Swingout pad/puck-lockable front and rear door
- Durable powder-coated aluminum design
- Interior 29-position Main Ground Bar
- DC-powered interior lights
- Various alarm sensors available

Environmental & Mechanical Specifications*

DC Distribution

Configuration	200A DC block, 200A PDU with up to 20x breakers
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Electrical Characteristics

Input Voltage	-39Vd.c to -58Vd.c.
Power Distribution Input Current	200A
Heat Exchanger Rated Current	40A (heating), 25A (cooling)

Connections

Alarm Block	Siemon prewired S66 block, M Series 4x50
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Mechanical

Construction	Aluminum alloy (EN AW-5052 H32)
External Dimensions (H x W x D) Including solar shield and plinth	80.7" x 30" x 32" (without cowling), 80.7" x 30" x 48.9" (with cowling)
Cabinet Plinth (Included)	6" H
Surface / Color	Powder coated cool-white color
Total User Area	38U 23" rack-space
Locking Mechanism	4-point locking system
Cable Entry	Knock-outs for 1.5", 2" and 2.5" Roxtec 4 Mini from 0.138" to 0.65"

Environmental

Protection Class	Type 4 per UL50E (with cowling)
Operating Temperature Range	-40°F to +114.8°F (-40°C to +46°C) with solar radiation
Noise	<65dBA @ 1.5m

Accessories

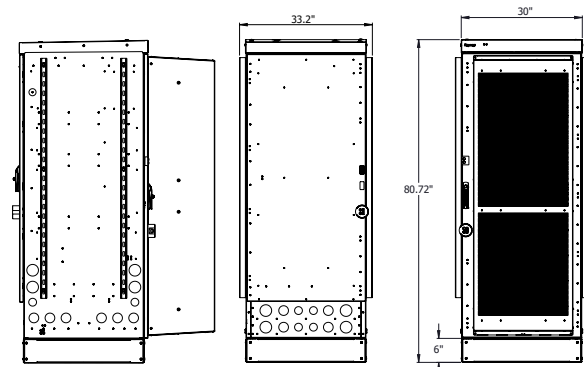
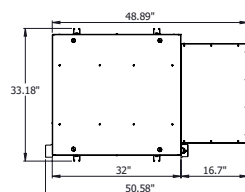
Interior Lights	2x DC-Powered LED lights , door switch controlled
Alarm Interface	Siemon prewired S66 block, M Series 4x50
Insulation	0.5" thick on internal walls
Included Sensors	4x Door Sensors, 6x NTC Temperature Sensors

Compliance

UL50E, Telcordia GR-487

Temperature Control

Cooling System	8kW Thermosiphon Heat Exchanger
Heater	1.5kW integrated to the Heat Exchanger unit





RRYOC-22U19-4000HEX

Outdoor Cabinet for Active Equipment



Raycap's outdoor cabinet system accommodates 22U of 19" rack space, DC power distribution unit, fiber management tray, 4kW Thermosiphon Heat Exchanger, various sensors and accessories and an alarm block.

- Single-bay outdoor cabinet (NEMA Type4 design)
- Mechanically fastened, 0.5" thick rigid EPS insulation
- 22U of 19" rack space
- Swingout pad/puck-lockable front door
- Durable powder-coated aluminum design
- Interior 10-position Main Ground Bar
- DC-powered interior lights
- Various alarm sensors available

Environmental & Mechanical Specifications*

DC Distribution

Configuration	100A DC block, 100A PDU with up to 12x breakers
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Electrical Characteristics

Input Voltage	-39Vd.c to -58Vd.c.
Power Distribution Input Current	100A
Heat Exchanger Rated Current	20A (heating), 9A (cooling)

Connections

Alarm Block	Siemon prewired S66 block, M Series 4x25
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Mechanical

Construction	Aluminum alloy (EN AW-5052 H32)
External Dimensions (H x W x D) Including solar shield and plinth	48.24" x 25.8" x 31.7"
Cabinet Plinth (Included)	5" H
Surface / Color	Powder coated cool-white color
Total User Area	22U 19" rack-space
Locking Mechanism	4-point locking system
Cable Entry	Knockouts for 1.5", 2" and 2.5" Roxtec 4 Mini from 0.138" to 0.65"

Environmental

Protection Class	Type 4 per UL50E (with cowling)
Operating Temperature Range	-40°F to +114.8°F (-40°C to +46°C) with solar radiation
Noise	<65dBA @ 1.5m

Accessories

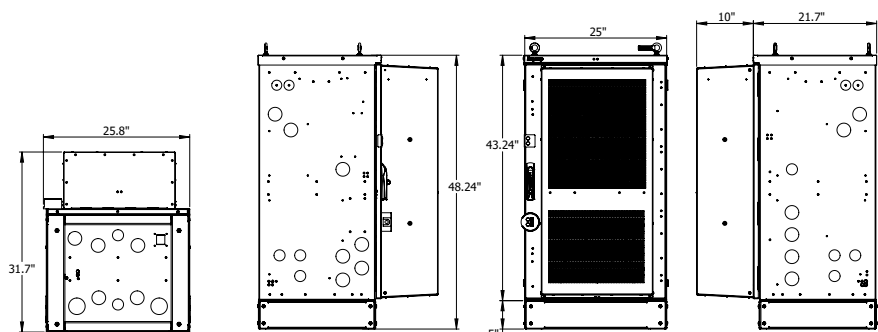
Interior Light	1x DC-Powered LED light, door switch controlled
Alarm Interface	Siemon prewired S66 block, M Series 4x25
Insulation	0.5" thick on internal walls
Included Sensors	2x Door Sensors, 4x NTC Temperature Sensors

Compliance

UL50E

Temperature Control

Cooling System	200W/K Thermosiphon Heat Exchanger
Heater	0.8kW integrated to the Heat Exchanger unit





RTPOC-00U19-AC01

Outdoor Cabinet for Active Equipment



The RTPOC-00U19-AC01 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations over existing cross connect cabinets in parallel with the hosting of active and passive telecom equipment.

Environmental & Mechanical Specifications*

Environmental

Protection Class	UL Type 3R
Operating Temperature	-13° to +131°F (-25° to +55°C)
Storage Temperature Range	-40° to +158°F (-40° to +70°C; based to ETSI 300 019-1-2, Class 2.3)
Transportation Temperature	-40° to +158°F (-40° to +70°C; based to ETSI 300 019-1-2, Class 2.3)
Noise	<65dBA @ 1m

Accessories

Interior Lights	2x 120 AC-Powered LED Lights
Alarm Interface	Pre-wired terminals block with 9 screw-down terminals
Door Sensors	2
Thermostat	2
Circuit Breakers	6 (100A, 12-80VDC)
Circuit Breaker Sensors	6
Flame Arrestor Valves	5 (1 per battery string)

Mechanical

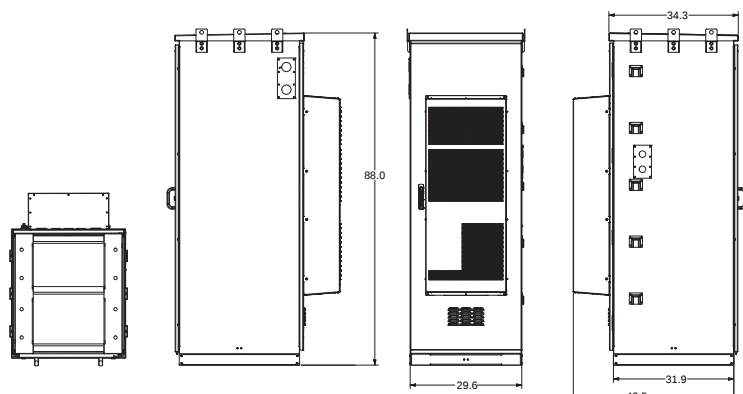
Construction	Alloy
External Dimensions	29.6" W x 42.6" D x 88" H (solar shield, HVAC & base included)
Cabinet Base Included (H)	3"
Surface/Color	Powder Coat, RAL 1013 – Oyster White
Total User Area	5x battery shelves (4 batteries per shelf)
Cable Entry	2 x cable gland plates for cable side wall entry
Insulation	0.5" thick EPS rigid insulation, mechanically fastened
Locking Mechanism	4-point locking system

Temperature Control

Cooling System	RHVAC-4195, -48VDC, 3kW DC Air Conditioner, Closed Loop
Heater	0.5kW integrated into cooling system, 5x 162.5W heating pad (1 per shelf)

Certifications

UL50, UL508A





RCAB-OD-9367

Outdoor Cabinet for
Active Equipment



The RCAB-OD-9367 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations over existing cross connect cabinets in parallel with the hosting of active and passive telecom equipment.

- Dual wall aluminum
- Robust design
- Modular design
- Easy installation process
- Panel profile technology
- Excellent heat dissipation
- 19" technology with moving frames
- Cooling capacity by using heat exchanger
- Customer specific integrations
- Left and right type available, depending on the installation site

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 55
Impact Protection	IK 10
Operating Temperature	-45 °C to +45 °C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25 °C to +55 °C (ES I 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1431 x 1690 x 575 mm
Reserved for PSU with DC Distribution	1U 19" (extra 1U for DC terminals)
Reserved for ODF	1U
Reserved for AC PDU	3U
Free User Space	10U 19"
Locking Mechanism	3-point Locking System
Doors	3 with Door Stopper and Document Holder 3 x Swivel Handle**, Separate Power Meter Compartment Door
Cable Entry	Bottom, Cable Glands in Equipment Compartment

Temperature Control

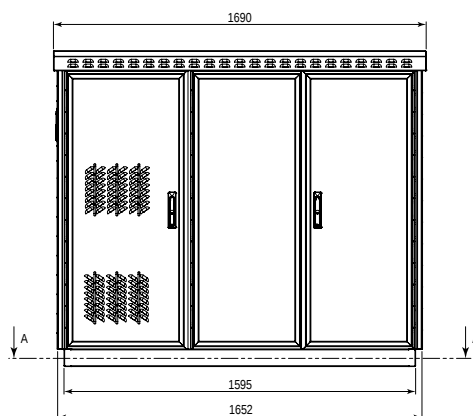
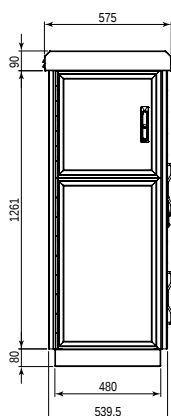
Cooling System	60 W/K Heat Exchanger
Heater	Included

Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-MFG24-3x19-EVU

Outdoor Cabinet for Active Equipment



The RCAB-MFG24-3x19-EVU is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations over existing cross connect cabinets in parallel with the hosting of active and passive telecom equipment.

- Double aluminum wall
- Integrated EVU compartment
- Easy installation process
- Cabinet parts are replaceable without service interruption
- Excellent passive heat conductivity
- Cooling system including heat exchanger
- 2x U-plate Cable Entries
- 3x19" Racks 21HE
- Customer Specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 54
Impact Protection	IK 10
Operating Temperature	-33 °C to +45 °C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33 °C to +45 °C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1607 x 2600 x 500mm
Locking Mechanism	3-point Locking System
Doors	3 with Door Stopper and Document Holder 2x Swing Handle**, 1x Internal Handle (Superposed Doors), Separate Power Meter Compartment Door
Plinth	Stainless Steel/Magnelis, 4 Adjustable Leveling Feet
Cable Entry	Bottom, Cable Glands in Equipment Compartment

Temperature Control

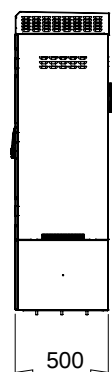
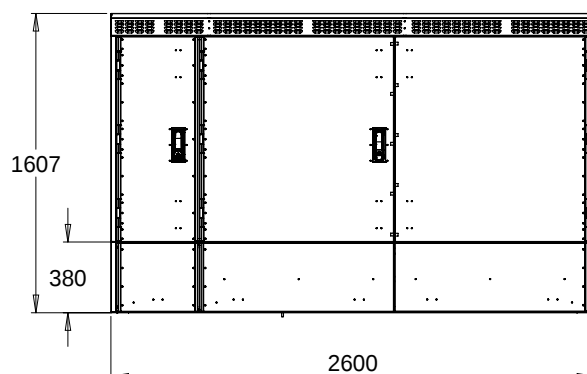
Cooling System	60 W/K Heat Exchanger
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Sensors

Sensors (Optional)	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-MFG28-2xETSI-2x19-HEX

Outdoor Cabinet for Active Equipment



The RCAB-MFG28-2xETSI-2x19-HEX-ACC is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations over existing cross connect cabinets in parallel with the hosting of active and passive telecom equipment.

- External aluminum walls
- Internal Steel Frame
- Robust design
- Cooling system including heat exchanger and optional cooling unit
- 2x U-plate Cable Entries
- 2x19" Racks 23HE
- 2xETSI Racks 23HE
- Customer Specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP54
Impact Protection	IK10
Operating Temperature	-33 °C to +45 °C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33 °C to +45 °C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40 °C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum Alloy and Steel Frame
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1801 x 3200 x 770mm
Locking Mechanism	3-point Locking System
Doors	3 with Door Stopper and 2x Document Holder, 1 Cooling Unit Hood Cover 2 x Swing Handle**, 1x Internal Handle (Superposed Doors)
Plinth	Stainless Steel/Magnelis
Cable Entry	Bottom, Cable Glands in Equipment Compartment

Temperature Control

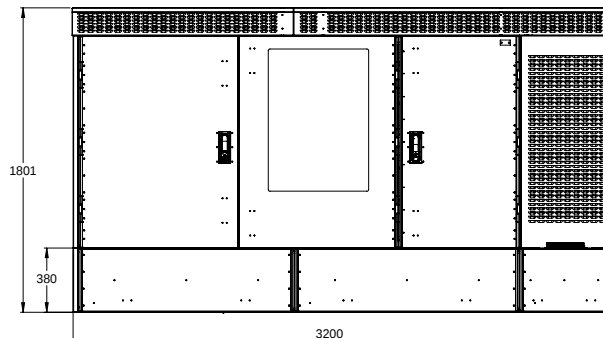
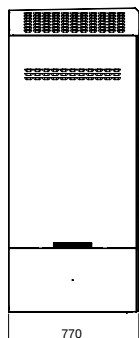
Cooling System	2x 60 W/K Heat Exchanger Air Condition
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Sensors

Sensors (optional)	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-7497

Outdoor Cabinet for Active Equipment



The RCAB-OD-7497 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations over existing cross-connect cabinets in parallel with the hosting of active and passive telecom equipment.

- External aluminum walls
- Steel Frame structure
- Robust and modular design
- Fan filter cooling
- Integrated EVU compartment
- 2x Internal aluminum frame for cable management
- 2x LED lights VAC/DC
- Customer Specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 54
Operating Temperature	-33 °C to +45 °C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33 °C to +45 °C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum Alloy and Steel Frame
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	2502 x 2093.5 x 697mm
Locking Mechanism	3-point Locking System
Doors	3 with Door Stopper and 3x Swing Handle**
Plinth	Magnelis Steel
Cable Entry	Bottom, Cable Glands in Equipment Compartment
Insulation	Acoustic Foam Panels (adhered to doors and side walls) Thermal Insulation Sheets 10mm (EVU side wall and rear walls)

Temperature Control

Cooling Systems	Air Filter
Heater	400W Fan Heater

Sensors

Sensors (optional)	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.

RCAB-OD-7502

Outdoor Cabinet for
Active & Passive
Equipment



The RCAB-OD-7502 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet can be configured as a battery cabinet, dedicated equipment only or combination of equipment and battery storage.

- Complete stainless steel structure
- Robust design
- RC4 security rating
- F30 fire resistance class
- Fan filter cooling
- Maximum 38 HE configuration
- Customer Specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP55
Security Certification	RC4
Fire Resistance Class	F30
Operating Temperature	-33 °C to +45 °C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33 °C to +45 °C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Stainless Steel
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	2240 x 800 x 870mm
Locking Mechanism	8-point locking system
Doors	1 with Door Stopper and Document Holder
Cable Entry	Bottom, Cable Glands in Equipment Compartment

Temperature Control

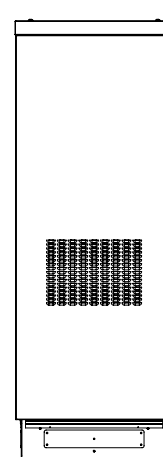
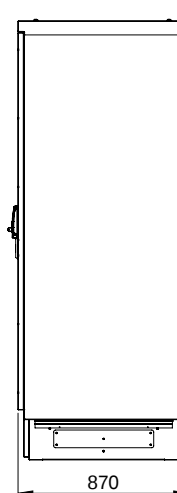
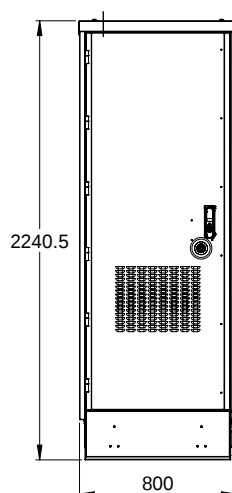
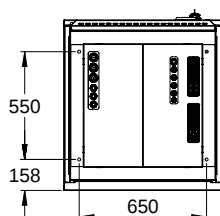
Cooling System	Free Fan Filter
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Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-6849

Outdoor Cabinet for Active Equipment



The RCAB-OD-6849 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. Due to its small dimensions, the cabinet is the ideal solution for installations in residential areas.

- Dual wall aluminum
- Robust design
- Modular design
- Easy installation process
- Panel profile technology
- Excellent heat dissipation
- 19" technology with moving frames
- Cooling capacity by using heat exchanger
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-45 °C to +45 °C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25 °C to +55 °C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1522 x 1198 x 444 mm
Reserved for PSU with DC Distribution	1U 19" (extra 1U for DC terminals)
Reserved for ODF	1U
Reserved for AC PDU	3U
Free User Space	10U 19"
Locking Mechanism	3-point Locking System
Doors	3 with Door Stopper and Document Holder 3 x Swivel Handle**, Separate Power Meter Compartment Door
Cable Entry	Bottom, Cable Glands

Temperature Control

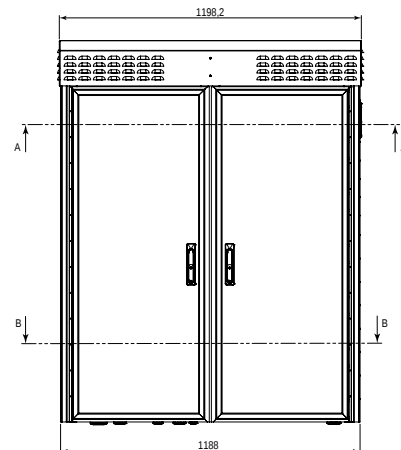
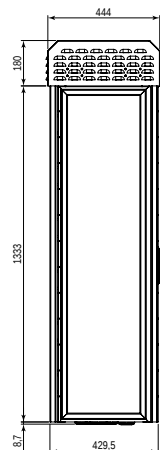
Cooling System	60 W/K Heat Exchanger
Heater	Included

Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-4535 MFG 8

Outdoor Cabinet for
Active & Passive
Equipment



The RCAB-OD-4535 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations hosting active and passive telecom equipment.

- Dual wall aluminum
- Robust design
- 100% Modular design
- Easy installation process
- Rack technology with moving frames
- Cabinet parts are replaceable without service interruption
- Excellent passive heat conductivity
- Cooling system including heat exchanger
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 54
Resistance Class	RC2 (EN 1627:2011)
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33°C to +45°C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum
Surface/Color	Powder Coated RAL 7035 (Color options available on request)
Dimensions (H x W x D)	1600 x 1000 x 500 mm
Racks	1 x Rack 19"/ETSI, 1-bay System for Disconnection Modules
Locking Mechanism	3-point Locking System
Doors	1 with Door Stopper and Document Holder 1 x Swivel Handle**
Cable Entry	1 x Split Cable Entry Plate With 8 Grommets (Optional Gland Configuration)
Plinth	Stainless Steel/Magnelis, 4 Adjustable Leveling Feet
Plastics	High Recyclable, Halogen Free
Specification Standards	TS 0273/96

Temperature Control

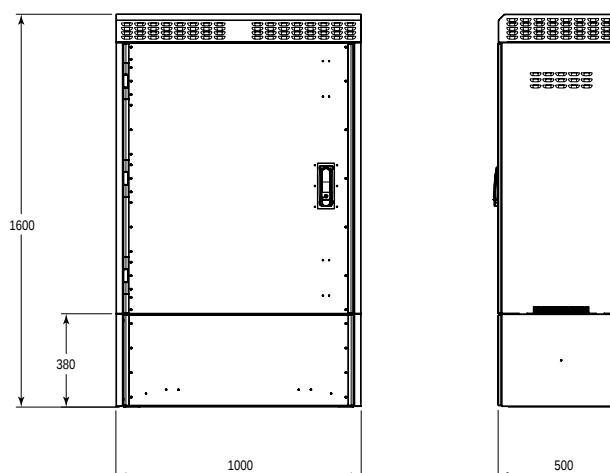
Cooling System	Heat Exchanger
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Sensors

Sensors Included	Door Alarm Contact, Temperature Sensor
Optional Sensors	Smoke Sensor, Flood Sensor

* Modifications to customer requests are possible.

** Locking mechanism available upon request.





RCAB-OD-7474 MFG 12

Outdoor Cabinet for
Active & Passive
Equipment



RCAB-OD-7474 is a modular double-wall multifunctional cabinet that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet with cooling technology is installed outdoors and due to its small dimensions the cabinet is the ideal solution for installations hosting active and passive telecom equipment in residential areas.

- Dual wall aluminum
- Robust design
- 100% modular design
- Easy installation process
- Cabinet parts are replaceable without service interruption
- Excellent passive heat conductivity
- Cooling system including heat exchanger
- Rack technology with moving frames
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 54
Resistance Class	RC2 (EN 1627: 2011)
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33°C to +45°C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum
Surface/Color	Powder Coated RAL 7035 (Color options available on request)
Dimensions (H x W x D)	1450 x 1400 x 500 mm / 1600 x 1400 x 500 mm
Racks	2 x Racks 19" / ETSI, (2 x 38SU), 3-bay System Mountable in Rack
Locking Mechanism	3-point Locking System
Doors	2 with Door Stopper and Document Holder 1 x Swivel Handle**
Cable Entry	1 x Split Cable Entry Plate with 14 Grommets (Optional Gland Configuration)
Plinth	Stainless Steel / Magnelis, 4 Adjustable Leveling Feet
Plastics	High Recyclable, Halogen Free
Specification Standards	TS 0273/96

Temperature Control

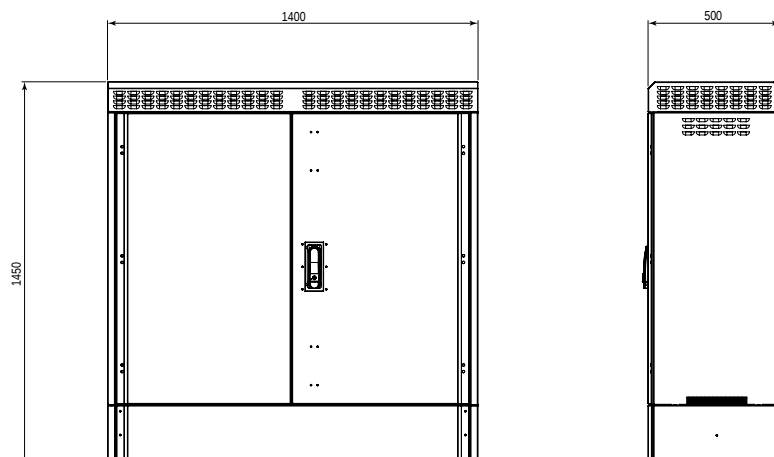
Cooling System	Heat Exchanger / Fan Filter System (Micro-LAT)
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Sensor

Sensors Included	Door Alarm Contact, Temperature Sensor
Optional Sensors	Smoke Sensor, Flood Sensor

* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-8040 MFG 15

Outdoor Cabinet for
Active & Passive
Equipment



RCAB-OD-8040 is a modular double-wall multifunctional cabinet that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet with cooling technology is the ideal solution for installations over existing cross connect cabinets in parallel with the hosting of active and passive telecom equipment.

- Double wall aluminum
- Robust design
- 100% modular design
- Easy installation process
- Cabinet parts are replaceable without service interruption
- Excellent passive heat conductivity
- Cooling system including heat exchanger
- Rack technology with mounting frames
- Left and right type available
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP 54
Resistance Class	RC2 (EN 1627: 2011)
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33°C to +45°C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum
Surface/Color	Powder Coated RAL 7035 (Color options available on request)
Dimensions (H x W x D)	1450 x 1700 x 500 mm
Racks	up to 2 x Racks 19"/ETSI, (2 x 38SU), 1 x Telecom Rack
Locking Mechanism	3-point Locking System
Doors	2 with Door Stopper and Document Holder 1 x Swivel Handle**
Cable Entry	1 x Universal Foam in MDF Area 1 x Split Cable Entry Plate with 14 Grommets in Rack Area (Optional Gland Configuration)
Plinth	Stainless Steel/Magnelis, 4 Adjustable Leveling Feet
Plastics	High Recyclable, Halogen Free
Specification Standards	TS 0273/96

Temperature Control

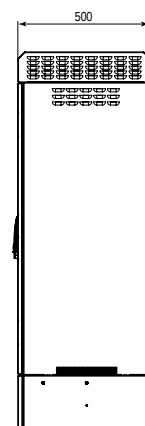
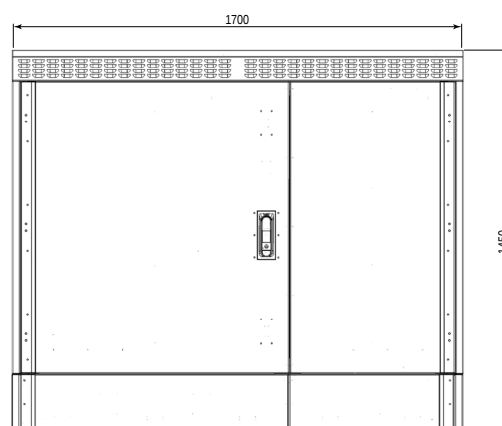
Cooling System	Heat Exchanger/Fan Filter System (Mini-LAT)
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Sensors

Sensors Included	Door Alarm Contact, Temperature Sensor
Optional Sensors	Smoke Sensor, Flood Sensor

* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-5306 MFG 18

Outdoor Cabinet for
Active & Passive
Equipment



RCAB-OD-5306 is a modular double-wall multifunctional cabinet that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet with cooling technology is installed outdoors and is the ideal solution for hosting demanding and sensitive active and passive equipment.

- Double wall aluminum
- Robust design
- 100% modular design
- Easy installation process
- Cabinet parts are replaceable without service interruption
- Excellent passive heat conductivity
- Cooling system including heat exchanger
- Rack technology with moving frames
- Left and right type available
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP54
Resistance Class	RC2 (EN 1627: 2011)
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-33°C to +45°C (ES 300 019-1-1, Class 1.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum
Surface/Color	Powder Coated RAL 7035 (Color options available on request)
Dimensions (H x W x D)	1600 x 2000 x 500 mm
Racks	MFG10 18 3 x Racks 19"/ETSI, (3 x 38SU), 3-bay System Mountable in Rack
	MFG10 18Ü 1 x Rack 19"/ETSI, (38SU) 1 x Triple Telecom Rack
Locking Mechanism	3-point Locking System
Doors	2 with Door Stopper and Document Holder
	1 x Swivel Handle**
Cable Entry	MFG10 18 1 x Split Cable Entry Plate with 21 Grommets in Rack Area
	MFG10 18Ü 1 x Universal Foam in the MDF Area, 1 x Split Cable Entry Plate with Grommets in the Telecom Rack Area (Optional Gland Configuration)
Plinth	Stainless Steel/Magnelis, 4 Adjustable Leveling Feet
Plastics	High Recyclable, Halogen Free
Specification Standards	TS 0273/96

Temperature Control

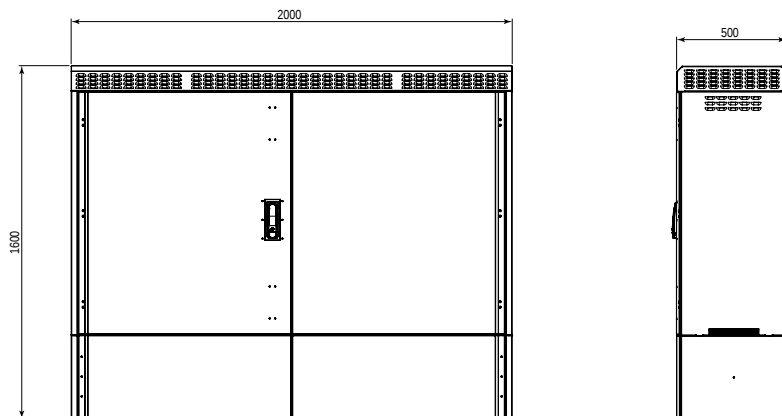
Cooling System	2 x Heat Exchanger/Fan Filter System (LAT)
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Sensors

Sensors Included	Door Alarm Contact, Temperature Sensor
Optional Sensors	Smoke Sensor, Flood Sensor

* Modifications according to customer's requests are possible.

** Locking mechanism available upon request.





RCAB-OD-2731
Outdoor Cabinet for
Active Equipment
Type C4



The RCAB-OD-2731 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations where lack of space is a challenge, both in urban and rural environments.

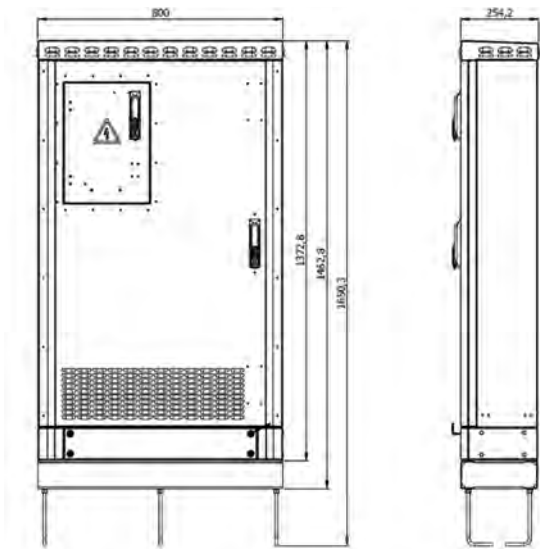
- Dual wall aluminum door, single wall aluminum shell
- Robust design
- Easy installation process
- Rotating mounting frame for the active equipment
- Separate power meter compartment with individual door
- Excellent passive heat conductivity
- Passive cooling system, taking advantage of the mounted active equipment's fan
- Customer specific integrations

Electrical, Environmental & Mechanical Specifications*

Environmental	
Protection Class	IP 55
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25°C to +55°C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4
Mechanical	
Construction	Aluminum
Surface/Color	Powder Coated RAL 7035, Anti-graffiti Paint Available
Dimensions (H x W x D)	1373 x 800 x 254 mm
AC PDU Mounting Space	3U
Active Equipment Mounting Space	Up to 3U 19"
Locking Mechanism	3-point Locking System
Doors	Single Door Stopper
	Separate Power Meter Compartment Door x Swivel Handle**
Cable Entry	Bottom: 1 x MG40, 1 x PG9, 1 x M20, 2 x Double Grommets
Main Distribution Frame	250 Pairs
Optical Distribution Frame	Box with 4 Fiber Terminations
Temperature Control	
Cooling System	Passive Assisted by Active Equipment's Fan
Sensors	
Sensors Included	Door Alarm Contact

* Modifications to customer requests are possible.

** Locking mechanism available upon request.





RCAB-OD-7049

Outdoor Cabinet for
Active Equipment
Type AC1



The RCAB-OD-7049 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations in residential areas.

- Dual wall aluminum
- Robust design
- Modular design
- Easy installation process
- Single phase AC configuration
- Built-in alarm and monitoring
- Solid profile technology
- Excellent heat dissipation
- Cooling system including heat exchanger
- Built to ETSI specification standards
- Customer specific integrations

Electrical, Environmental & Mechanical Specifications*

Environmental

Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25°C to +55°C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1376 x 969 x 443 mm
Reserved for PSU	1U 19"
Reserved for AC PDU	3U 19"
Free User Space	11U 19"
Locking Mechanism	3-point Locking System
Doors	4-Front & Auxillary Equipment, Power Box & Battery Compartment
Cable Entry	Bottom
Battery Space (H x W x D)	2+2 Batteries 460 x 314 x 180 mm
Plinth	Hot Dip Galvanized Steel

Temperature Control

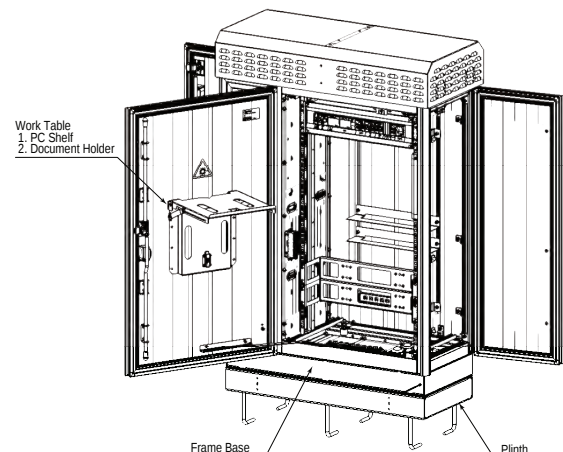
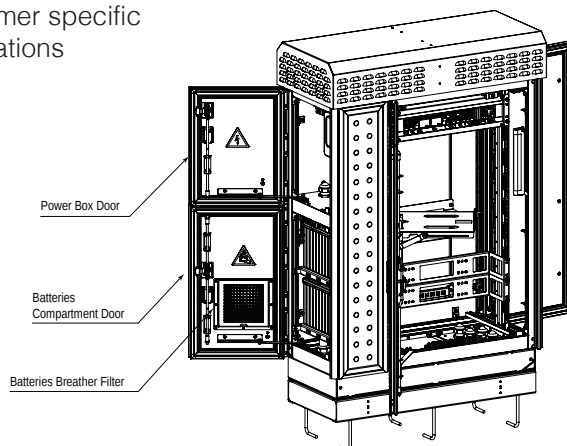
Cooling System	55W/K Heat Exchanger
Controller Model	RDC-9320-E32A-48

Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications to customer requests are possible.

** Locking mechanism available upon request.





RCAB-OD-1657

Outdoor Cabinet for
Active Equipment



The RCAB-OD-1657 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations hosting active and passive telecom equipment.

- Dual wall aluminum
- Robust design
- Modular design
- Easy installation process
- Panel profile technology
- Excellent heat dissipation
- 19" technology with moving frames
- Cooling capacity by using heat exchanger
- Customer specific integrations

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP55
Impact Protection	IK 10
Operating Temperature	-45 °C to +45 °C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25 °C to +55 °C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4

Mechanical

Construction	Double Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1295 x 790 x 650 mm
Reserved for PSU with DC Distribution	1U 19"
DC to AC Inverter	400W Included
AC PDU	Included
MDF	Space for 20 x 10 LSA PLUS, 2 x 64 Split Modules
Free User Space	6U 19"
Locking Mechanism	3-point Locking System
Doors	1 with Door Stopper, Swivel Handle
Cable Entry	Bottom

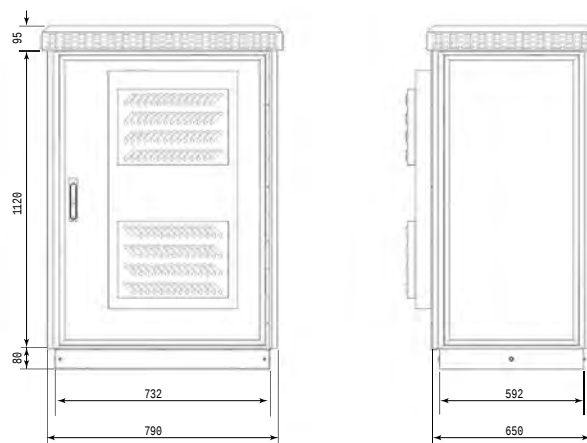
Temperature Control

Cooling System	Heat Exchanger
Heater	Included

Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications to customer requests are possible.





RCAB-OD-1171

Outdoor Cabinet for
Active Equipment



The RCAB-OD-1171 is an outdoor cabinet system that provides maximum protection of customer's equipment against vandalism and extreme weather conditions. This cabinet is the ideal solution for installations of active & passive telecom equipment.

- Dual wall aluminum
- Robust design
- Modular design
- Easy installation process
- Panel profile technology
- Excellent heat dissipation
- ETSI technology with moving frames
- Cooling capacity by using heat exchanger
- Customer specific integrations
- Left and right type available, depending on the installation site

Environmental & Mechanical Specifications*

Environmental

Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-45 °C to +45 °C (ES 300 019-1-4, Class 4.1 E)
Storage Temperature	-25 °C to +55 °C (ES 300 019-1-1, Class 1.2)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)
Earthquake	Zone 4

Mechanical

Construction	Double Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1503 x 1770 x 637 mm
Reserved for PSU with DC Distribution	5U
Reserved for ODF	1U
Reserved for AC PDU	3U
Free User Space	2 x 24U Rack
Locking Mechanism	3-point Locking System
Doors	4 with Door Stopper and Document Holder 4 x Swivel Handle
Cable Entry	Bottom

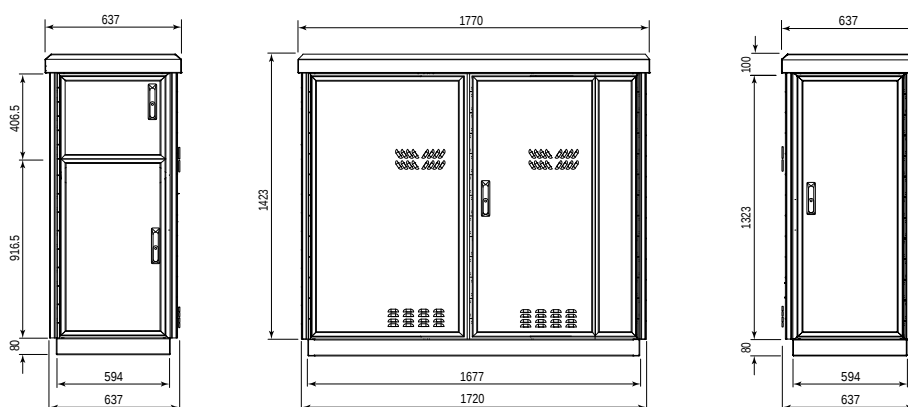
Temperature Control

Cooling System	Heat Exchanger
Heater	Included

Sensors

Sensors Included	Door Alarm Contact, Smoke Sensor, Temperature Sensor, Flood Sensor
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* Modifications to customer requests are possible.





RCAB-OD-2734-FTTH

Outdoor Passive Cabinets for FTTH Applications

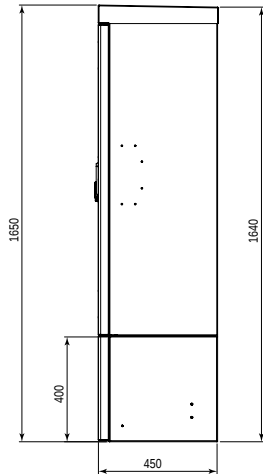
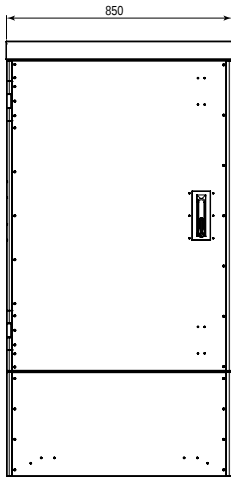


The RCAB-OD-2734-FTTH is an outdoor cabinet system designed to enable smooth operation, flexibility and scalability. This cabinet is a highly reliable solution that effectively supports FTTH networks.

- Aluminum construction
- Robust design
- Modular design
- Easy installation process
- Panel bended technology
- 120° door opening with 3-point locking system
- Connections for up to 4 drop 48FO cable installatons
- Document holder
- Feeder cable storage area
- Excellent fiber management
- Neat insertion, sealing and mechanical interception of micro ducts

Environmental & Mechanical Specifications

Environmental	
Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-33 °C to +45 °C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-40 °C to +70 °C (ES 300 019-1-1, Class 2.3)
Transportation Temperature	-40 °C to +70 °C (ES 300 019-1-2, Class 2.3)
Mechanical	
Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1650 x 849 x 450 mm
Cabinet Base Included (H)	400 mm
Locking Mechanism	3-point Locking System
Cable Entry	Bottom
Microtube Drop Cable Entrance	48 Drop Baseplate
Feeder Cable Entrance	2 Cable Glands
Splice/Patch Subtracks	2 x 4U Subtracks & 1 x 1U Subtrack
Splitter Shelves Capacity	3U up to 12 Splitters (1:2, 1:4, 1:8, 1:16, 1:32)





RCAB-OD-2736-FTTH

Outdoor Passive Cabinets for FTTH Applications



The RCAB-OD-2736-FTTH is an outdoor cabinet system designed to enable smooth operation, flexibility and scalability. This cabinet is a highly reliable solution that effectively supports FTTH networks.

- Aluminum construction
- Robust design
- Modular design
- Easy installation process
- Panel bended technology
- 120° door opening with 3-point locking system
- Connections for up to 96 drop cable installatons
- Document holder
- Feeder cable storage area
- Excellent fiber management
- Neat insertion, sealing and mechanical interception of micro ducts

Environmental & Mechanical Specifications

Environmental

Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-40°C to +70°C (ES 300 019-1-1, Class 2.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1670 x 1200 x 415 mm
Cabinet Base Included (H)	400 mm
Locking Mechanism	3-point Locking System
Cable Entry	Bottom
Microtube Drop Cable Entrance	96 Drop Baseplate
Feeder Cable Entrance	2 Cable Glands
Splice/Patch Subtracks	4 x 4U Subtracks & 1 x 2U Subtrack
Splitter Shelves Capacity	2 x 3U up to 24 Splitters (1:2, 1:4, 1:8, 1:16, 1:32)





RCAB-OD-9258-FTTH

Outdoor Passive Cabinets for FTTH Applications



The RCAB-OD-9258 is an outdoor cabinet system which is designed especially for installation in FTTH networks. The system allows connections of up to 48 point-to-point and up to 192 connections.

- Aluminum construction
- Robust design
- Modular design
- Easy installation process
- Panel bended technology
- 120° door opening with 3-point locking system
- Connections for up to 72 microtube drops and 2 feeder cables
- Document holder and laptop tray
- Feeder cable storage area
- Excellent fiber management
- Neat insertion, sealing and mechanical interception of micro ducts

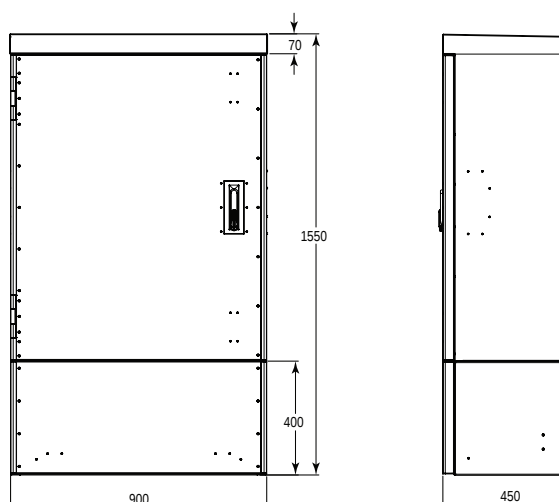
Environmental & Mechanical Specifications

Environmental

Protection Class	IP55
Impact Protection	IK10
Operating Temperature	-33°C to +45°C (ES 300 019-1-4, Class 4.1)
Storage Temperature	-40°C to +70°C (ES 300 019-1-1, Class 2.3)
Transportation Temperature	-40°C to +70°C (ES 300 019-1-2, Class 2.3)

Mechanical

Construction	Aluminum Alloy
Surface/Color	Powder Coated RAL 7035
Dimensions (H x W x D)	1550 x 900 x 450 mm
Cabinet Base Included (H)	400 mm
Locking Mechanism	3-point Locking System
Cable Entry	Bottom
Microtube Drop Cable Entrance	72 x 7 mm Drop Baseplate
Feeder Cable Entrance	2 x 14 mm Cable Glands
Splice Capacity	6 SE Feeder Trays 24 SC PtP Connection Trays 48 SC Drop Cable Trays
Patch Capacity	Path Panel: 48 SC/APC Feeder Connections 192 SC/APC Drop Connections
Splitter Shelves Capacity	10 Splitters (1:8, 1:16, 1:32, 1:62, 2:8, 2:16, 2:32)





RHEX-9790

Heat Exchanger for
Outdoor Cabinet



Raycap's Heat Exchanger solutions ensure that active electronic equipment installed in outdoor cabinets are cooled properly, are isolated from dust and dirt and keep the noise level low.

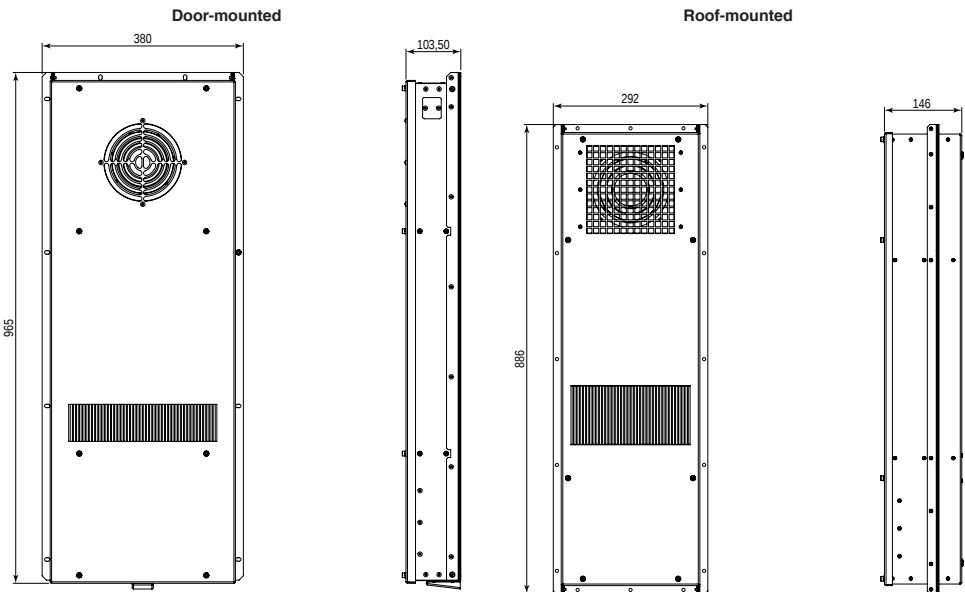
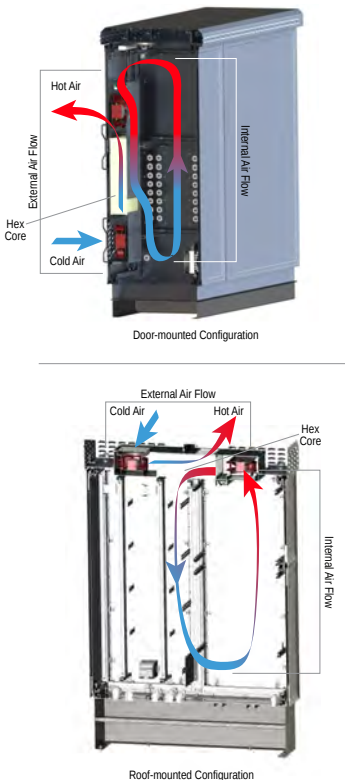
They provide excellent thermal performance, optimized controlling and have low maintenance requirements.

Technical Specifications*

Heat Exchanger	
Supply Voltage Nominal	-48 VDC
Power Consumption (max)	77W
Current (max)	1.6A
Cooling Capacity	40W/K
Speed	3050 min ⁻¹
Technical Features	Control Input 0-10 VDC/PWM, Tach Output
IP Rating (Cabinet Installation)	IP 55
Operating Temperature	-33 °C to +60 °C
Housing Material	Aluminum 1.5mm
Dimensions (H x W x D)	Door 965 x 380 x 104 mm Roof 886 x 292 x 146 mm
Mounting Position	Roof / Door

Fan Speed Controller	
Mounting Position	Cabinet / Heat Exchanger Housing
Programmable Fan Speed Control	Included
Fan Failure Alarm	Included
Temperature Alarm	Included

* Modifications to customer requests are possible.





RHEX-2868

Heat Exchanger for Outdoor Cabinet



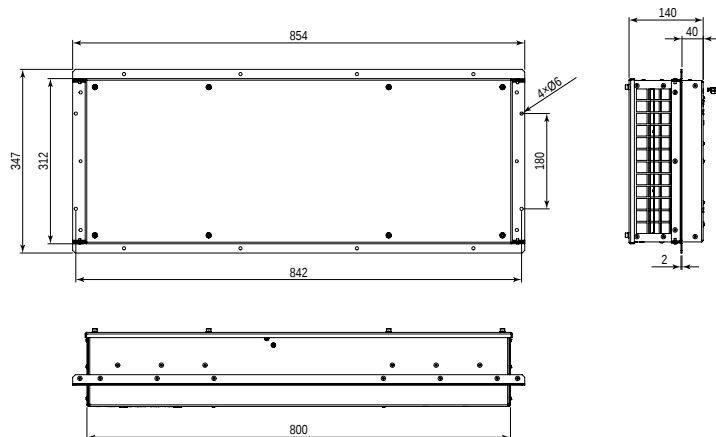
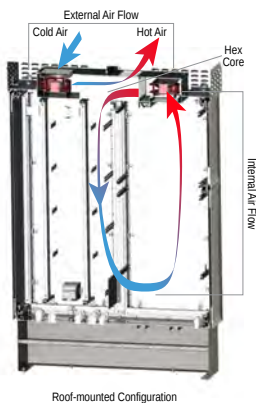
Active equipment is very sensitive and needs to be protected against external environmental influences especially when installed outdoors. The Heat Exchangers are the perfect solutions to control the internal temperature of the cabinets and protect the active equipment from extreme external conditions.

The Heat Exchangers incorporate two fans creating separate internal and external air circuits. The outside air cannot infiltrate inside the cabinet and vice versa. The Heat Exchanger provides a lot of features such as reliability, excellent thermal performance, optimized controlling and low maintenance requirements.

Technical Specifications*

Heat Exchanger	
Supply Voltage Nominal	-48 VDC
Power Consumption (max)	115W
Current (max)	2A
Cooling Capacity (max)	61W/K (90% Fan Speed)
Speed	3050 min ⁻¹
Technical Features	Control Input 0-10 VDC/PWM, Tach Output
Noise Level	Minimum 35dB (A) - Maximum 60dB (A) @ 1 m
IP Rating (cabinet installation)	IP54
Operating Temperature	-25 °C to +70 °C
Number of Fans	2
EMC Interface Immunity	EN 61000-4-1/4-2/4-3/4-4/4-5/4-6/4-8
EMC Interface Emission	EN 55022
Housing Material	Aluminum 2mm
Dimensions (H x W x D)	854 x 347 x 140 mm
Safety Standard	EN 60950
Specification	TA Noise
Mounting Position	Roof / Door
Fan Speed Controller	
Mounting Position	Cabinet / Heat Exchanger Housing
Programmable Fan Speed Control	Included
Fan Failure Alarm	Included
Temperature Alarm	Included

* Modifications to customer requests are possible.





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