VANGUARD®

RAINFORD SOLUTIONS

Established 1982

Outdoor Enclosure Range

Product Datasheet

Rainford Solutions: Quick Facts

- Established 1982
- 114,000 sq. ft. UK manufacturing facility
- High volume capacity
- Standard range or bespoke customisations
- Value added design engineering service
- ISO 9001:2015 certified
- Continuous investment and development
- Agile design lean manufacturing
- Equipment integration capabilities
- EU product distribution

Our Expertise, Your Advantage:

Rainford Solutions is a leading supplier to the telecommunications market, developing long-standing client relationships though expertise in both active and passive rack and cabinet solutions. Our designs contribute to high network availability and reduced total lifetime costs through superior reliability, security and quality.

Operating from a state-of-the art UK manufacturing facility, Rainford provides an impressive one-stop-shop. Extensive knowledge and experience developing network infrastructure supports the evolution of a digital Britain and smarter connected economy.

The Vanguard® outdoor cabinet portfolio includes solutions for a variety of applications and form factors including: FTTx, CCTV and mobile networks.

Benefits to You:

+ High quality and reliability assures your lowest total cost of ownership
+ Capacity for national scale projects
+ Security of working with a leading supplier
+ Flexible rapid design customisation
+ Complete end-to-end solutions
+ Extensive industry experience and technical knowledge

Outdoor Applications:

✓ Passive and active optical networks
✓ Mobile & Radio, 3G 4G 5G, Tetra, Microwave
✓ Urban and rural fibre deployment
✓ New build home developments
✓ Trackside and roadside
✓ Internet service providers
✓ Edge computing & IoT hubs
✓ Environmental monitoring
✓ CCTV and security systems

Outdoor Enclosure Range

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Product Overview:

Rainford Solutions' Vanguard® outdoor enclosure product range offers a modular multi bay, multi height, multi depth product with the flexibility to house a broad range of equipment in a variety of industry standard mounting formats.

With a robust construction, coupled with a variety of vandal resistant features, the Vanguard® outdoor enclosure product range provides a cost-effective solution for all your outdoor equipment protection needs.

The Vanguard® intelligent thermal management system minimises the maintenance frequency of the enclosure, prolongs the life of the air filter and thus reduces the whole life cost of the enclosure. There are two heat management options available for light and heavy duty, which can be interchanged for an upgrade retrofit for enclosure future proofing.

Our enclosures are supplied fully assembled ready for immediate deployment.

Key Features:

- ✓ **Range of widths (1, 2 & 3 bays) heights and depths with option for an end pod for housing power distribution equipment**
- ✓ **IP ratings up to IP65**
- ✓ **Construction materials: 1.4003 (3CR12) 304 and 316L grades of stainless steel, or aluminium for long service life**
- ✓ **19 inch, ETSI and DIN rail equipment mounting options**
- ✓ **Intelligent thermal management system including: fan & filter & thermostat heater**
- ✓ **Vandal resistant features including: 3-point locking, stainless steel hinges**
- ✓ **Range of 19" rack mountable accessories**

** Vanguard® is a registered trade mark of Rainford Solutions Ltd, number 3009819*

Outdoor Enclosure Range

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Technical Information:
Standard Enclosure:

Main Equipment Bay:

Standard Features:

- ✓ **Materials: Stainless steel 4003, 304, 316L or aluminium construction**
- ✓ **Finish: Polyester powder coated finish, available in 3 standard colours: Green, Light Grey or Black**
- ✓ **IP ratings up to IP65**
- ✓ **19 inch equipment mounting rails, adjustable**
- ✓ **Stainless steel hinged doors with die cast swing handle(s), 3-point locking systems**
- ✓ **Pitched roof**
- ✓ **Gland plate in each bay for cable entry**
- ✓ **Plinth for mounting 100mm**
- ✓ **Lifting brackets (removable)**

Optional Thermal Management:

- ✓ **Thermostatically controlled roof mounted fan**
- ✓ **Long life filter**
- ✓ **Anti-condensation heater**
- ✓ **Light Duty : 1.0 KW per bay cooling, ΔT 20°C**
- ✓ **Heavy Duty : 1.0 KW per bay cooling, ΔT 10°C**

End Pod:
Standard Features:

- ✓ **IP65 rated**
- ✓ **Back board for gear mounting**
- ✓ **Hinged door with die cast swing handle, 3-point locking systems & door stay**
- ✓ **Base mounted earth stud**
- ✓ **Gland plate for cable entry**

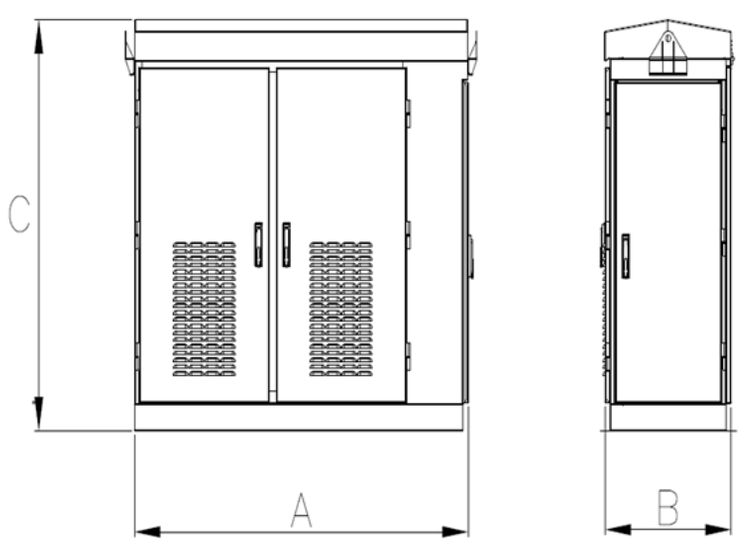
*** Please see our representative for full technical information, this document is for guidance only.**

Sizes and Options:

Enclosures	Width A (IN MM)	Depth B (IN MM)	Height C (IN MM)	Equipment Area (IN U)
Drop Cabinet (Passive Only)	300/ 500	250 / 330	800	15
Single Bay	675	450 / 600 / 800	1272 1494 1716	20 / 25 / 30
Single Bay + End Pod	950	450 / 600 / 800	1272 1494 1716	20 / 25 / 30
Double Bay	1335	450 / 600 / 800	1272 1494 1716	20 / 25 / 30
Double Bay + End Pod	1610	450 / 600 / 800	1272 1494 1716	20 / 25 / 30
Triple Bay + End Pod	2288	450 / 600 / 800	1272 1494 1716	20 / 25 / 30

*** All cabinets have the option to add heat management**

This includes a thermostatically controlled fan above each bay and a long life filter fitted to each front door.



Outdoor Enclosure Range

Product Datasheet

Options / Accessories:

- ✓ **Various lock and handle options**
- ✓ **AC/DC power distribution and backup options**
- ✓ **ETSI or DIN rail equipment mounting**
- ✓ **Equipment mounting backboard**
- ✓ **Heater kit for humidity control**
- ✓ **Sensors and alarms for door opening, overheating and fan failure**
- ✓ **Equipment shelves**
- ✓ **Battery and cable trays**
- ✓ **Fibre management: splice trays, patch panels**
- ✓ **Air Conditioners**
- ✓ **Heat Exchangers**
- ✓ **Other standard RAL colours available**

Part Number	Options / Accessories
VG-ACK	Cabinet Alarm Collection Kit
VG-DAK	Door Alarm Kit (For 1 Door)
FL000174	Stainless Steel Swing Handle
FL000370	Stainless Steel Swing Handle with Padlock Pawl
VG-FTAC	Fan Tray Alarm Output Cable
VU-02-19-00-SS6-00	19" 6 Way Socket Strip
VG-Heater-150W	19" 150W Heater Kit
VG-20-MVK	20U Mounting Vertical Kit
VG-25-MVK	25U Mounting Vertical Kit
VG-30-MVK	30U Mounting Vertical Kit
VE-01-19-500-FST-00	Fixed Shelf Kit - 500mm deep
VE-01-19-600-FST-00	Fixed Shelf Kit - 600mm deep
VE-01-19-700-FST-00	Fixed Shelf Kit - 700mm deep
VE-01-19-800-FST-00	Fixed Shelf Kit - 800mm deep
VG-20-75-VCT	20U x 75mm Wide Vertical Cable Tray Kit
VG-25-75-VCT	25U x 75mm Wide Vertical Cable Tray Kit
VG-30-75-VCT	30U x 75mm Wide Vertical Cable Tray Kit
MK000428-01	1 Bay Lighting Kit
MK000428-02	2 Bay Lighting Kit
MK000428-03	3 Bay Lighting Kit
MK000428-04	4 Bay Lighting Kit

VANGUARD®

RAINFORD SOLUTIONS

Compact axial fans which operate efficiently at high pressures. Thermostat operation with intelligent speed control

Breather to prevent internal condensation forming

Reduced noise acoustics performance via exhaust air flow directed to the rear of enclosure

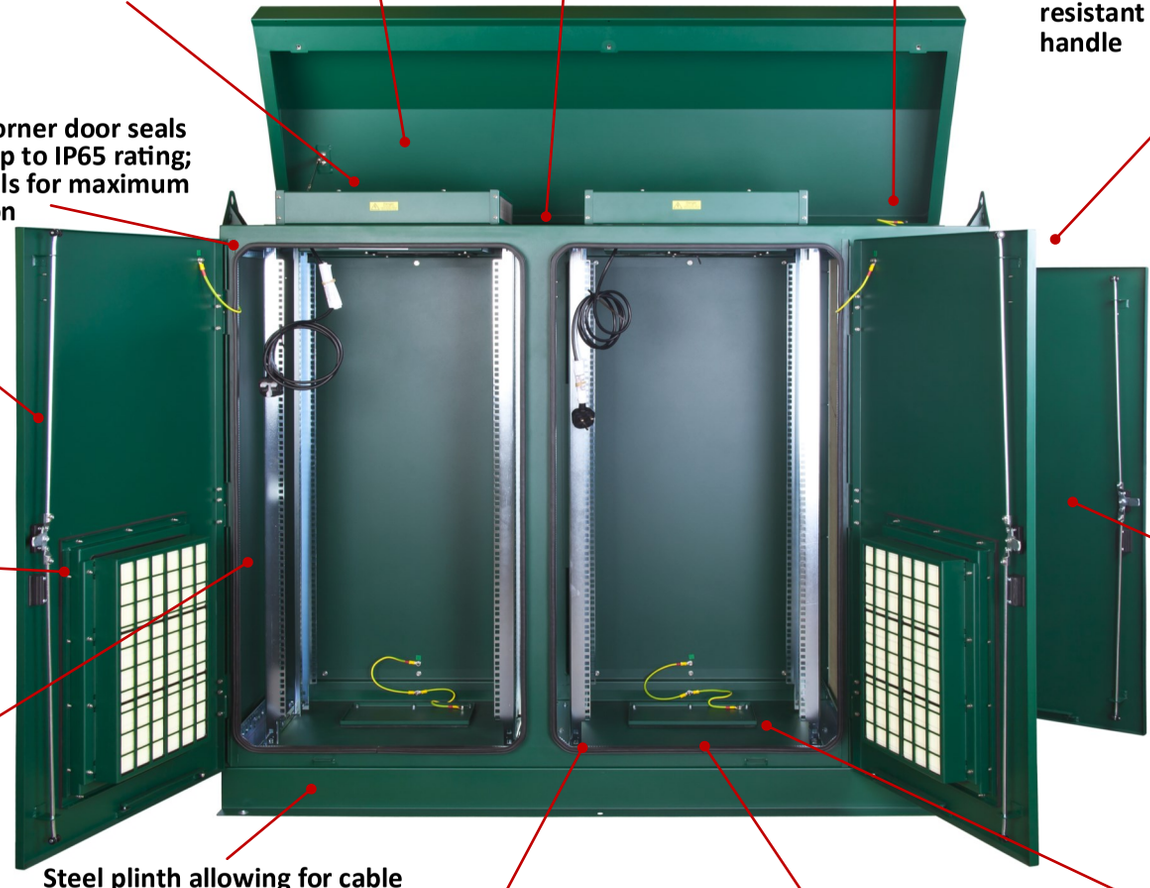
Pitched roof with internal hinges

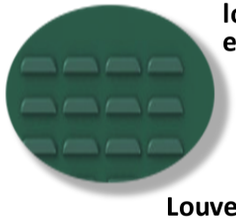
3-point locking system with the option of vandal resistant locking handle

Option for door alarm contacts for access monitoring

Stainless steel lift off hinges with compression anti-pry bar protection strips

Rounded corner door seals providing up to IP65 rating; balloon seals for maximum compression

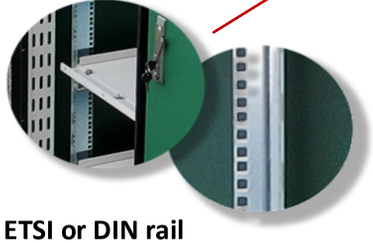




Door mounted long life, low maintenance & high efficiency corrugated filter

Louvered door design to optimise air flow & vandal resistance

Wooden back board offering flexible mounting options for power distribution. Housed within a separate secure End Pod for convenient access



19 inch, ETSI or DIN rail mounting options; perforated shelving options & cable management trays

Steel plinth allowing for cable management & unobstructed door access. Optional grounding root for ease of installation

Removable gland plate for cable entry

Thermostatically controlled anti-condensation heater

Socket strips mounted vertically or horizontally with range of AC Outlets

* Please note: Images within this brochure may not reflect the exact product colours, please refer to RAL numbers at time of order.
* The products displayed in this document may change without notice due to continuing product development and are for illustration purposes only.

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