

# Mining Series Enclosures



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## Company Profile

With over six decades of design, manufacturing and supply **Kounis Metal Industries** Pty Ltd has changed its name to **Kounis Group**. The change of name represents the broadening of our portfolio with greater diversification of products and services across all sectors of the business.

Our core belief and objective is to provide products and services of a quality which exceed customer expectations in respect to quality, performance, safety and price. This is reinforced by the positive growth of our core business whilst expanding into areas of new growth with the design and manufacture of transportable electrical switchrooms.

The Kounis Group Head Office is located in Western Australian and is also the location of its main manufacturing plant. In addition the group has several supporting workshops and warehouses located in Perth. The Kounis Group has a well-established large sales and warehousing facility in Melbourne to service the East Coast of Australia which carries comprehensive stocks of cable supports and standard products.

The Kounis Group is quality assured to ISO 9001 and prides itself on the quality of its products and services, along with its dedicated highly experienced equal opportunity workforce. With large stocks of standard products all of which conform to Australian Standards and an ability to manufacture and provide services in a minimum time frame the Kounis Group is able to offer unparalleled service levels across all areas of business.

### Manufacturing and Shipping Worldwide

- Precision and General Sheetmetal Work
- Electrical Switchboards
- Cable Support Systems
- Transportable Switchrooms
- Light to Medium Fabrication
- Rotor Resistance Starters
- Mining Enclosures
- Packaged sub-Stations
- CNC Turret Punching /Laser Cutting and Folding
- De-Watering Skids
- Architectural Screens and Perforating
- Switchboard Service Maintenance and Audits

**Managing Director**

**Dave Kounis**

November 2016

## Health, Safety, Environment and Quality (HSEQ) Policy

The Kounis Group considers Health, Safety, Environment and Quality (HSEQ) an integral part of the company's business vision and values. Our objective is to provide, with the assistance of our people, a workplace that protects the safety and health of its employees, contractors, customers and visitors, whilst producing products and services of an outstanding quality.

The Kounis Group utilises its development and implementation of a documented and systematic HSEQ management system that includes the establishment of HSEQ business standards and supporting procedures, practices, guidance and information. A key aspect of this approach will involve the adoption of risk management for identifying, assessing, controlling and monitoring all areas of the business's operations. In maintaining this commitment, we have developed a Quality Assurance System (QAS) which incorporates all aspects of HSEQ, including objectives, targets and key performance indicators, all of which are utilised to enable continual improvement of operations.

### Objective

The Kounis Group will provide products and services of a quality which conform to customer requirements and consistently exceed our customer's needs and expectations. To achieve this, we have implemented a Quality Management System which conforms to ISO 9001. The Kounis Group aims to strive towards continuous improvement in products and services for our customers by providing the appropriate training, resources (both internal and external), equipment, training, support and reference materials to ensure its HSEQ objectives are met.

### Management Responsibilities

The Managing Director is ultimately responsible for HSEQ management and compliance throughout the company. All managers, supervisors and leading hands are responsible for work areas under their control. HSEQ procedures are in place and observed, and for communicating and implementing the necessary information and guidance to achieve the company's objectives. Managers, supervisors and leading hands are expected to continuously promote and maintain a high standard of quality and safety in their respective work areas and to lead by example and encourage involvement of employees.

### Employee Responsibilities

Employees are responsible for actively participating in the HSEQ management system requirements. This includes working in a safe and healthy manner, participating in training, complying with company procedures, instructions and directions. And not adversely affecting the safety of fellow employees, contractors, customers and visitors, reporting of hazards or incidents, and ensuring the quality of both product and service.

### Communication

The Kounis Group, through our consultative process, encourage two-way communication, cooperation and involvement of management, employees, contractors and customers in the ongoing development of our HSEQ management system (QAS).

#### Managing Director

**Dave Kounis**

November 2016

# Reclaimer Enclosure Series

The Kounis Group Reclaimer enclosure was developed for use in harsh demanding locations where robust construction is paramount. Manufactured from 2mm thick material and offering a 30 degree sloping roof for prevention of debris build-up this fully welded cabinet offers great protection and a long life span.

## Standard Enclosure Features

- IP66 rated.
- Cyclonic rated to Importance Level 2 Wind Region D (Cyclonic) Terrain category 2
- Self-shedding 30 degree sloping roof for prevention of debris build up.
- Chrome plated padlockable flush swing handles.
- Removable/lift off door.
- Chrome plated pintle hinges.
- Heavy duty door stay.
- Full width top and bottom mounting points.
- Fully depth adjustable removable mounting pan powdercoated white.
- Double return on enclosure for prevention of water build up against door rubber when in closed position preventing water entering into enclosure when opening.
- Drawing pocket.
- Earth wire kit.
- Wiring Loom brackets.
- One piece foam in place door gasketing.
- 100 microns of polyester powder coat.
- Bottom entry gland plates (6mm Aluminium).

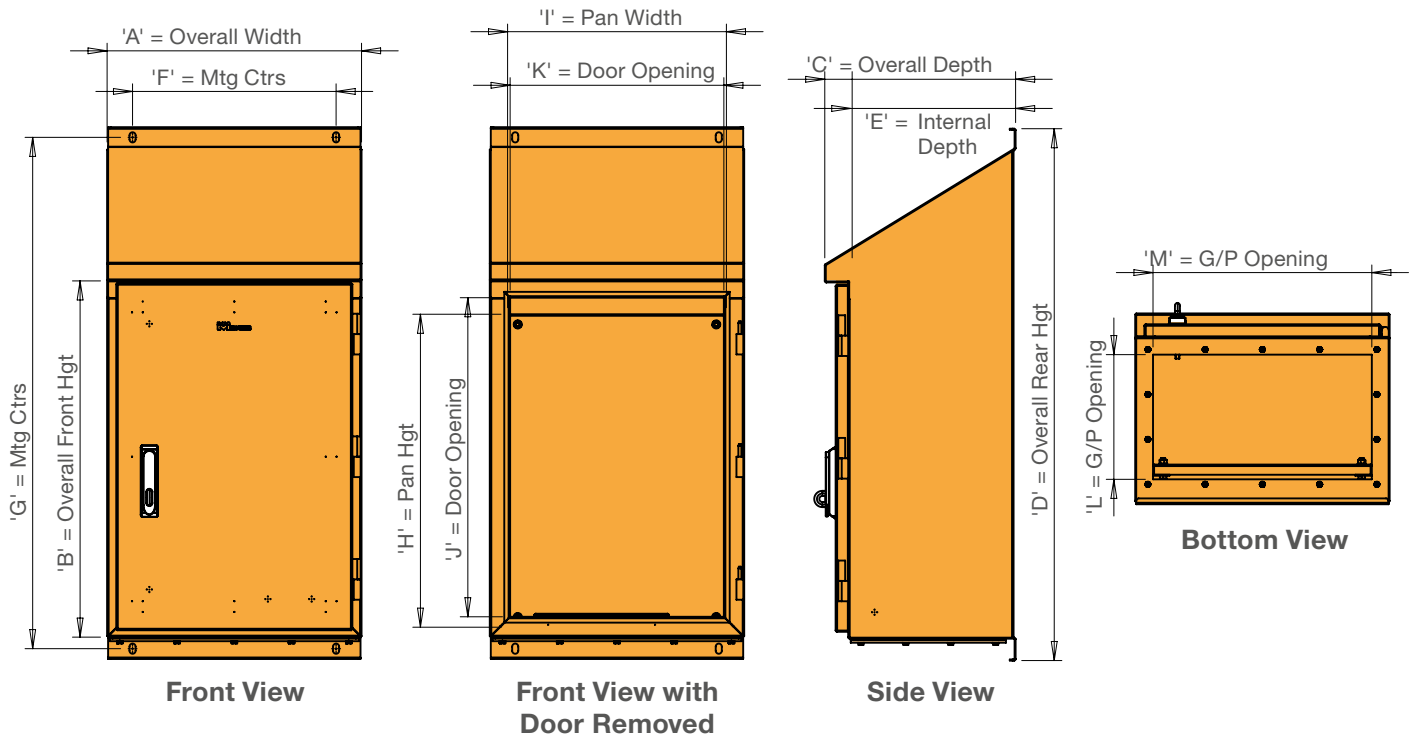
## Options

- Stainless Steel 316 grade and Aluminium enclosure and hardware.
- Powder coated Stainless Steel and Aluminium enclosures to X15 orange.
- Gland plates Brass.
- Heat Shields mounted on standoffs to door, sides and roof for passive solar radiation protection (see ordering table page 7)
- Gland plates pre-punched and glanded
- Fully depth adjustable removable hinged escutcheon plate c/w chrome plated "D" handle and chrome plated knurled knobs powdercoated white. (see ordering table page 6)
- Lifting lugs rated to 1 ton
- Heavy duty hot dip galvanized enclosure mounting frame.



# Reclaimer Enclosure Series

## Technical and Ordering Information



Dimensions													
CODE	Overall Dimensions				Internal	Mounting Ctrs		Mounting Pan		Door Opening		Gland Opening	
	A	B	C	D	E	F	G	H	I	J	K	L	M
RE4423	400	400	280	681	230	300	645	315	330	325	320	160	330
RE5732	500	700	375	1040	325	400	1005	615	430	625	420	255	430
RE81037	800	1000	420	1367	370	600	1333	915	730	925	720	300	730

### When Ordering Enclosure

Enclosure Series	Material	Size	Finish
<b>RE</b>	<b>SS</b>	<b>4423</b>	<b>ORP</b>
RE= Reclaimer Enclosure	ZS = Zinc Seal SS = 316 Stainless Steel AL = Aluminium	4423 = 400mm x 400mm x 230mm 5732 = 500mm x 700mm x 320mm 81037 = 800mm x 1000mm x 370mm	ORP = X15 Orange Ripple Powdercoat OS = Orbital Sand

Ordering example shown Reclaimer Enclosure 316 Stainless Steel 400mm x 400mm x 230mm Orange Ripple Powdercoat Finish

### When Ordering Escutcheon Panel Kit

Enclosure Series	Material	Size
<b>RE</b>	<b>44</b>	<b>ESC</b>
RE= Reclaimer Enclosure	44 = 400mm x 400mm x 230mm 5732 = 500mm x 700mm x 320mm 81037 = 800mm x 1000mm x 370mm	Esc Esc Esc

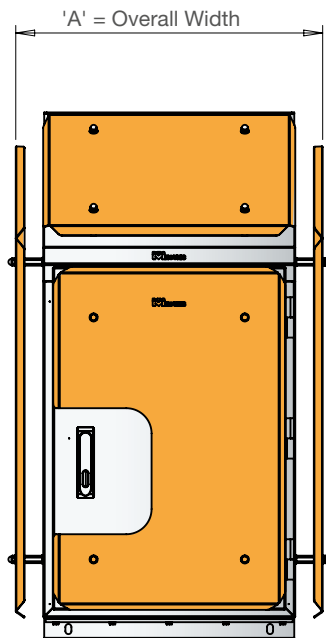
Ordering example shown Reclaimer Enclosure 400mm x 400mm x 230mm Escutcheon Panel Kit.

\* Please note that Escutcheon Panel is white powdercoat finish and comes complete with all required mounting hardware including Escutcheon panel hinges and chrome plated knurled knobs.

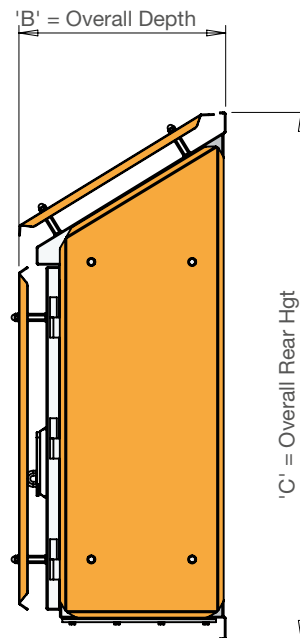
\* Escutcheon Panel kits can be fitted on request.

# Reclaimer Enclosure Series

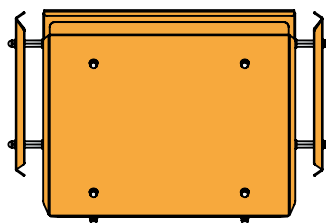
## Technical and Ordering Information Heat Shield Kit



Front View



Side View



Top View

Overall Dimensions				Studs		
CODE	A	B	C	Door	Sides	Top
RE4423	509	315	686	3	4	4
RE5732	609	410	1045	4	4	4
RE81037	909	420	1372	6	6	4

### When Ordering Heat Shield Kit

Enclosure Series	Material	Heat Shield	Size	Finish
<b>RE</b>	<b>ZS</b>	<b>HS</b>	<b>44</b>	<b>ORP</b>
RE= Reclaimer Enclosure	ZS = Zinc Seal SS = 316 Stainless Steel AL = Aluminium		4423 = 400mm x 400mm x 230mm 5732 = 500mm x 700mm x 320mm 81037 = 800mm x 1000mm x 370mm	ORP = X15 Orange Ripple Powdercoat OS = Orbital Sand

Ordering example shown Reclaimer Enclosure, Zinc Seal, Heat Shield, 400mm x 400mm x 230mm, X15 Orange Ripple Powdercoated.

\* Heat Shield can be supplied fitted to Enclosure or can be supplied with all hardware for fitting by others

# Prospector Underground Enclosure Series

The Kounis Group Prospector underground mining enclosure was developed in the early nineties in close consultation with the Mining industry. The robust enclosure was designed especially for the harsh and demanding underground environment and is tailored for 415v and 1000v applications.

The enclosure is manufactured from 2mm thick material and is a fully welded construction. Standard finish is Polyester Powder Coat French Blue Ripple finish for 1000v and X15 Orange Ripple finish for 415v enclosures with a gloss white mounting pan.

## Standard Features

- IP66 rated.
- Removable/lift off door.
- Chrome plated pintle hinges.
- Chrome plated padlockable flush swing handles.
- Two door locks on enclosures 800mm high and above.
- Removable mounting pan on heavy duty 10mm studs c/w earth stud.
- Fully welded construction.
- Double return on enclosure for prevention of water build up against door rubber when in closed position preventing water entering into enclosure when opening.
- Drawing pocket.
- Earth wire kit.
- Wiring Loom bracket.
- 100 Microns of Polyester Powder Coat
- One piece foam in place door gasket.

## Options

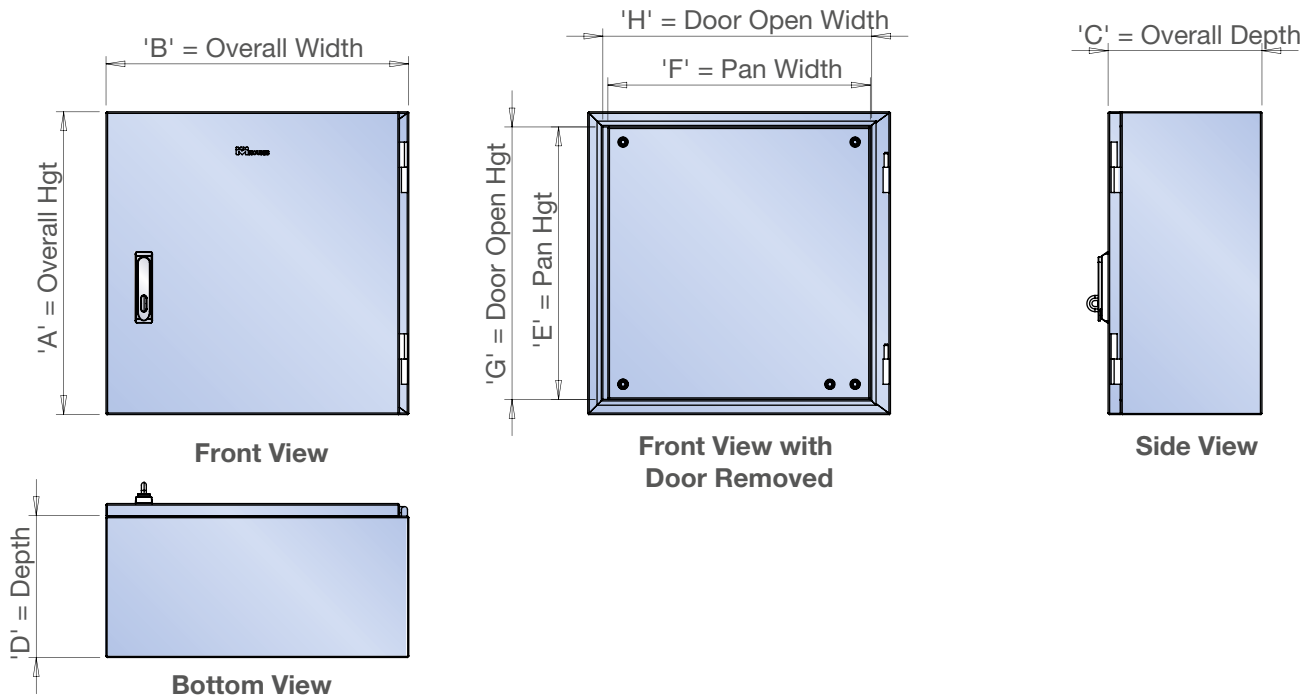
- Stainless Steel 316 grade material.
- Enclosure Support frame.
- Special Powdercoat colours.
- Gland plates in Stainless Steel, Aluminium or Brass.
- Gland plates pre-punched and glanded.
- Enclosure can be fully customised on request.



E.&O.E.

# Prospector Underground Enclosure Series

## Technical and Ordering Information



Dimensions										
	Overall			Cubicle Depth	Mounting Pan		Door Opening		No of Hinges	No of Handles
CODE	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'		
PE44	400	400	300	280	340	320	340	330	2	1
PE64	600	400	300	280	540	320	540	330	2	1
PE66	600	600	300	280	540	520	540	530	2	1
PE86	800	600	300	280	740	520	740	530	3	2
PE88	800	800	300	280	740	720	740	730	3	2
PE810	800	1000	300	280	740	920	740	930	3	2
PE108	1000	800	300	280	940	720	940	730	3	2
PE128	1200	800	300	280	1140	720	1140	730	3	2
PE1010	1000	1000	300	280	940	920	940	930	3	2

### When Ordering

Enclosure Series	Material	Size	Finish
<b>PE</b> PE = Prospector Enclosure	<b>ZS</b> ZS = Zinc Steel SS = Stainless Steel AL = Aluminium	<b>4428</b> 4428 = 400mm x 400mm x 280mm 6428 = 600mm x 400mm x 280mm 6628 = 600mm x 600mm x 280mm 8628 = 800mm x 600mm x 280mm 8828 = 800mm x 800mm x 280mm 81028 = 800mm x 1000mm x 280mm 10828 = 1000mm x 800mm x 280mm 12828 = 1200mm x 800mm x 280mm 101028 = 1000mm x 1000mm x 280mm	<b>BRP</b> BRP = Blue Ripple Powdercoat ORP = Orange Ripple Powdercoat OS = Orbital Sand

Ordering example shown Prospector Enclosure Zinc Steel 400mm x 400mm x 280mm Blue Ripple Powdercoat Finish

E.&O.E.

# Extreme Enclosure Series

The Kounis Group Extreme enclosure was developed for use in locations where extra protection from passive solar radiation is required in addition to a heavily constructed enclosure. The design incorporates sun shields mounted on standoff studs to doors, sides and roof to lessen the effects of passive solar radiation to reduce the internal temperature of the enclosure. The enclosure is manufactured from 2mm thick 316 grade stainless steel material and is a fully welded construction.

## Standard Features

- IP66 rated.
- Cyclonic rated to Importance Level 2 Wind Region D (Cyclonic) Terrain category 2
- Self-shedding 30 degree slopping roof for prevention of debris build up.
- Removable/lift off door.
- Stainless steel pintle hinges.
- Full width top and bottom mounting points.
- Stainless Steel padlockable flush swing handles.
- Fully depth adjustable removable mounting pan powdercoated white.
- Double return on enclosure for prevention of water build up against door rubber when in closed position preventing water entering into enclosure when opening.
- Drawing pocket.
- Earth wire kit.
- Wiring Loom brackets.
- Lifting lugs rated to 1ton.
- One piece foam in place door gasketing.
- Bottom entry gland plates (6mm Aluminium).

## Options

- Mild Steel Powdercoated enclosure.
- Side mounting pan powdercoated white.
- Padlockable hinged power shield.
- Removable rear sunshield.
- Gland plates S/Steel and Brass.
- Gland plates pre-punched and glanded.
- Enclosure can be fully customised on request.
- Heavy duty hot dipped galvanized enclosure mounting frames.

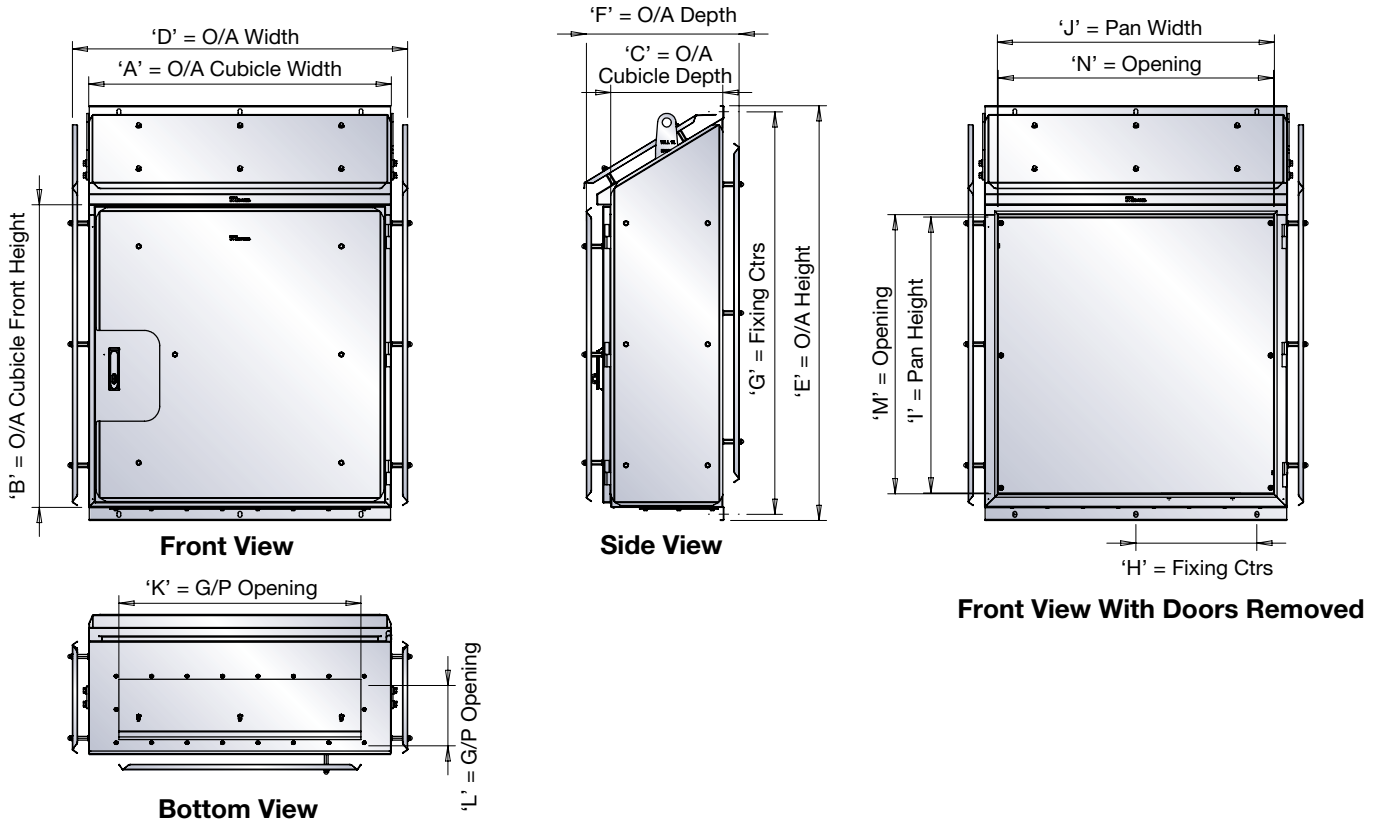


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# Extreme Enclosure Series

## Technical and Ordering Information

### Single Door



Code	Dimensions																	
	Overall Cubicle			Overall			Mounting Ctrs		Mounting Pan		Gland Plate Openings		Door Openings		No. of Doors	No. of Mtg Pans	No. of Gland Plates	No. of Mtg Fixings
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'	'N'				
EX8010	800	1000	370	905	1370	505	1330	300	915	730	600	200	922	710	1	1	1	6
EX1010	1000	1000	370	1105	1370	505	1330	400	915	930	800	200	922	910	1	1	1	6

### When Ordering

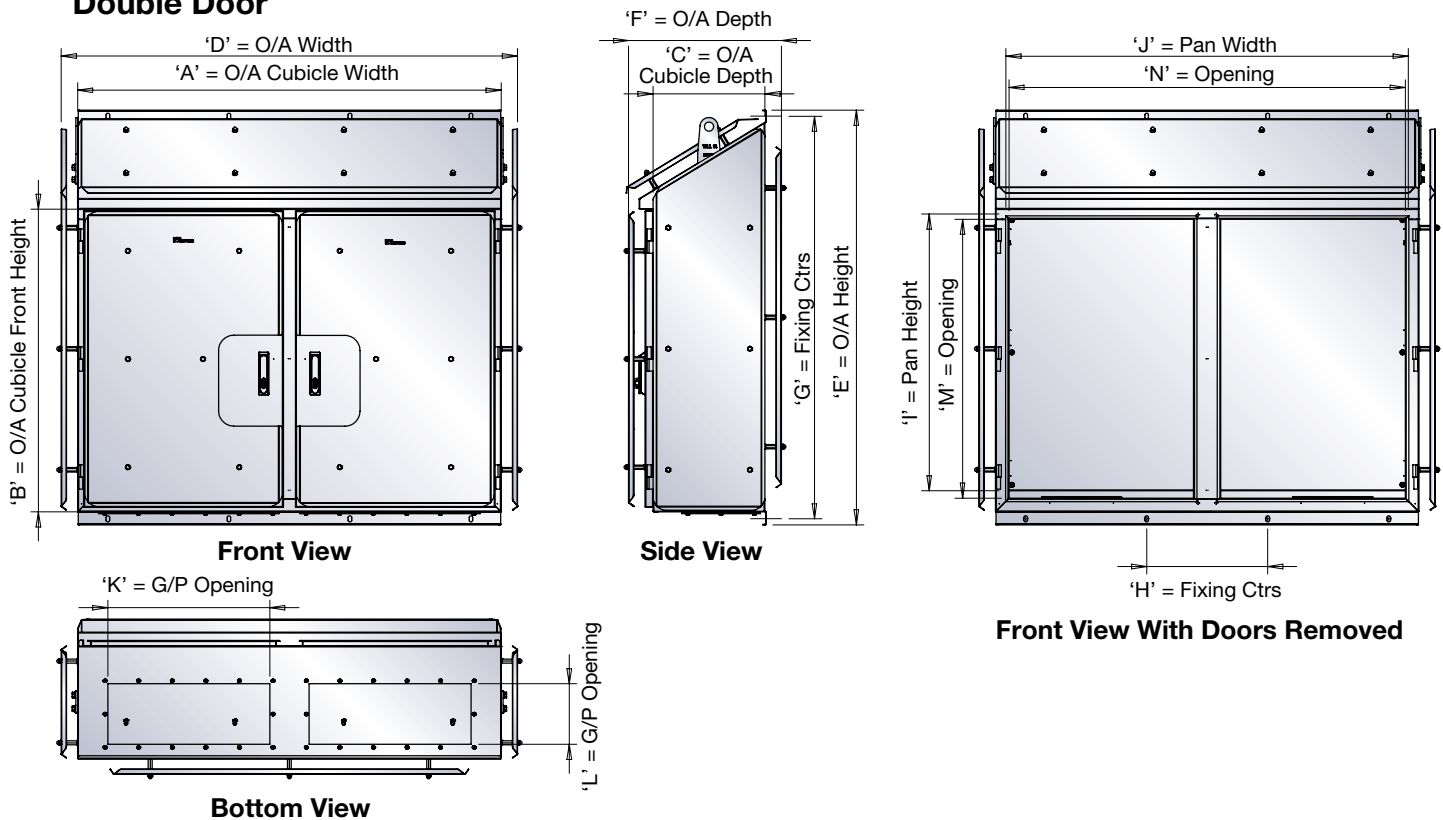
Enclosure Series	Material	Size	Finish
<b>EX</b>	<b>SS</b>	<b>810</b>	<b>OS</b>
EX = Extreme Enclosure	SS = 316 Stainless Steel ZS = Zinc Seal AL = Aluminium	81037 = 800mm x 1000mm x 370mm 101037 = 1000mm x 1000mm x 370mm 141037 = 1400mm x 1000mm x 370mm	OS = Orbital Sand ORP = Orange Ripple Powdercoat

Ordering example shown Extreme Enclosure 316 Stainless Steel 800mm x 1000mm x 370mm Orbital Sand

# Extreme Enclosure

## Technical and Ordering Information

### Double Door



Dimensions																		
	Overall Cubicle			Overall			Mounting Ctrs		Mounting Pan		Gland Plate Openings		Door Openings		No. of Doors	No. of Mtg Pans	No. of Gland Plates	No. of Mtg Fixings
Code	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'I'	'J'	'K'	'L'	'M'	'N'				
EX1410	1400	1000	370	1505	1370	505	1330	400	915	1330	535	200	610	1310	2	1	2	8

### When Ordering

Enclosure Series	Material	Size	Finish
<b>EX</b>	<b>SS</b>	<b>810</b>	<b>OS</b>
EX = Extreme Enclosure	SS = 316 Stainless Steel ZS = Zinc Seal AL = Aluminium	81037 = 800mm x 1000mm x 370mm 101037 = 1000mm x 1000mm x 370mm 141037 = 1400mm x 1000mm x 370mm	OS = Orbital Sand ORP = Orange Ripple Powdercoat

Ordering example shown Extreme Enclosure 316 Stainless Steel 800mm x 1000mm x 370mm Orbital Sand

# Concentrator Enclosure Series and Sun Hoods

The Kounis Group Concentrator enclosure and Sun Hood was developed for use in harsh locations. Manufactured from 2mm thick 316 grade stainless steel fully welded construction and incorporating a 15 degree self-shedding roof, it is matched with the optional Sun Hood for specific applications. In addition to the robust offering of the enclosure the Sun Hood offers additional strength and protection in high debris and impact areas protecting the enclosure and offers an extra degree of protection against solar radiation and heat.

## Standard Features Enclosure

- IP66 rated.
- Self-shedding 15 degree sloping roof for prevention of debris build-up.
- Stainless Steel padlockable flush swing handles.
- Removable/lift off door.
- Stainless steel pintle hinges.
- Heavy duty door stay.
- Full width top and bottom mounting points.
- Fully depth adjustable removable mounting pan powdercoated white.
- Double return on enclosure for prevention of water build up against door rubber when in closed position preventing water entering into enclosure when opening.
- Drawing pocket.
- Earth wire kit.
- Wiring Loom brackets.
- One piece foam in place door gasketing.
- Bottom entry gland plates (6mm Aluminium).



## Options

- Powdercoated stainless steel.
- Mild steel construction powdercoated enclosure.
- Gland plates S/Steel and Brass.
- Gland plates pre-punched and glanded.
- Fully depth adjustable removable hinged escutcheon plate c/w chrome plated "D" handle and chrome plated knurled knobs powdercoated white.
- Lifting lugs rated to 1 ton.
- Door mounting tray for additional equipment.
- Enclosure can be fully customised on request.



E.&O.E.

# Concentrator Enclosure Series and Sun Hoods

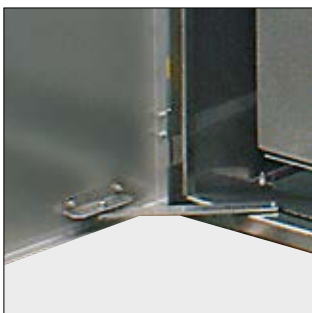
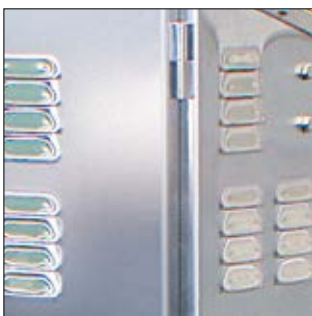
## Standard Features Sun Hood

- 2mm thick 316 grade stainless steel bolted construction with self-shedding 15 degree reverse sloping roof for prevention of build-up of debris
- Stainless Steel padlockable flush swing handles
- Heavy duty door stay
- Stainless steel pintle hinges.
- Removable/lift off door
- Heavy duty mounting studs to suit enclosure
- Reinforced heavy duty mounting studs for securing sun hood
- Heavy duty 1.25t lifting eyes.
- Louvre's on doors and sides for ventilation.
- Fully open bottom for maximum cable access



## Options Sun Hood

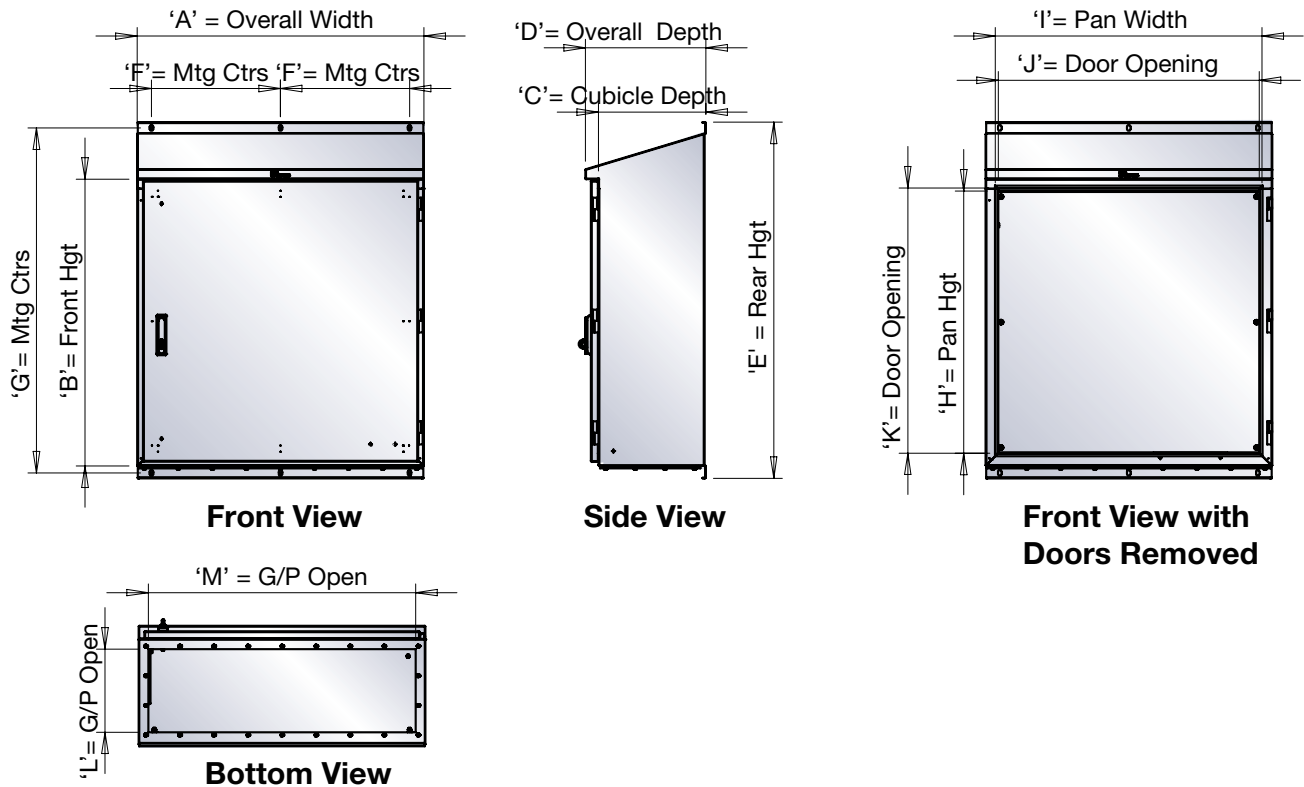
- Powdercoated stainless steel
- Mild Steel construction powdercoated Sun Hood.
- Sun Hood can be fully customised on request



E.&O.E.

# Concentrator Enclosure Series

## Technical and Ordering Information



Dimensions													
	Overall Dimensions					Mounting Centres		Mounting Pan		Door Opening		Gland Plate Opening	
CODE	A	B	C	D	E	F	G	H	I	J	K	L	M
	1000	1000	370	420	1241	450	1203	915	930	920	925	300	930

### When Ordering

Enclosure Series	Material	Size	Finish
<b>CE</b>	<b>SS</b>	<b>1010</b>	<b>OS</b>
CE = Concentrator Enclosure SH = Sun Hood	SS = 316 Stainless Steel ZS = Zinc Seal	1010 = 1000mm x 1000mm x 370mm	OS = Orbital Sand ORP = Orange Ripple Powdercoat

Ordering example shown Concentrator Enclosure 316 Stainless Steel 1000mm x 1000mm x 370mm Orbital Sand



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