

ER 9000

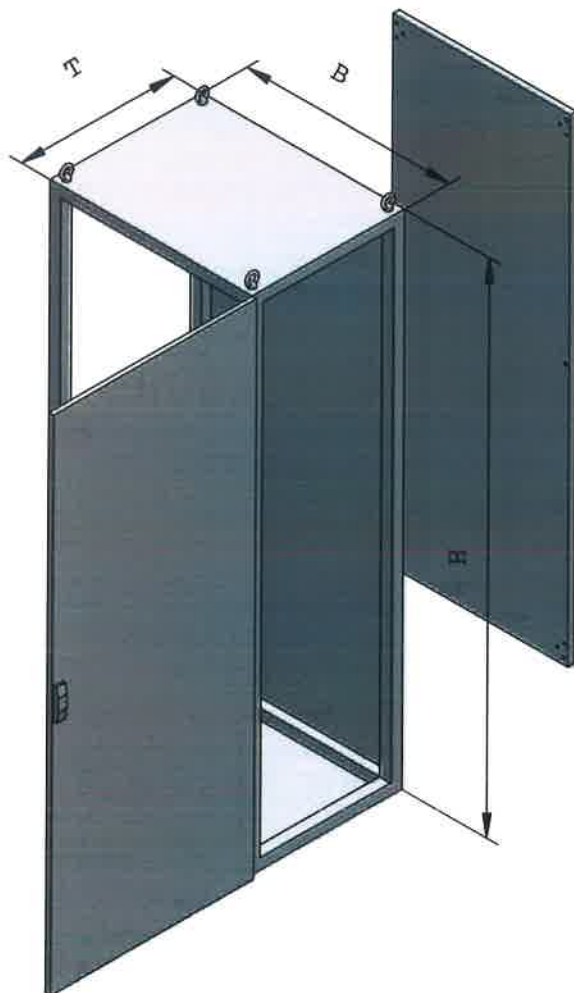
ER-9000 SERIES PROFILE



ERCON GROUP

Distributing Power
www.erconme.com

Floor Standing Enclosure Data Sheets



PANEL NAME	NMCC-5A				
Width (B1) mm	2000				
Height (H1) mm	1800				
Depth (T1) mm	600				
Pattern NO.ER	ER-92086				
Door Qty	3				

Standard Supply:

Door: sheet steel, 2.0mm.

Rear Plate: sheet steel, 1.5mm Frame: sheet steel, 2.0mm.

Mounting Plate: sheet steel, 2/2.5mm.

Finish: dip-coating and powder painting.

Sealing: the highly elastic foamed-in PU seal made by Sonderhoff gasket machine guarantees perfect sealing.

IP category: IP54/IP55.

Canopy For Outdoor Panels.

Lock System

Standard supply is MS896 (Key Lockable). Cylindrical can be supplied on request

Note: color: Textured RAL7035. RAL 7032 is available on request. Lead time is available on request.

Note: Plinth Supplied as Standard (H:100mm). RAL7035 on request.

All dimentions in mm. For any other dimention please contact. Also available with swing lock.

Available on request

Plinth(H200)	ER-9246-2600	ER-9265-2500	ER-9266-2600	ER-9286-2600	ER-9286-2600
--------------	--------------	--------------	--------------	--------------	--------------

ERCON LOAD CENTER

Load Center upto 250A



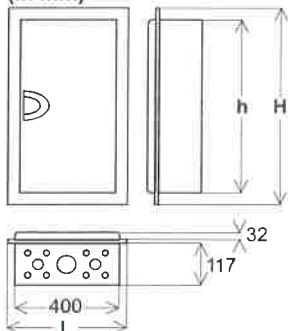
The Ercon range of Load Centers has been designed for easy to make Light Distribution Panels. Ercon Load Center Ercon Load Center is a reliable range of distribution boards allowing maximum flexibility, offering wide choice of incomers: Switch Disconnecter, MCCB, MCB, RCCB, RCD or direct cable connection. MCCB with ampere Frame 100A, 160A, 250A from any Brand can be installed without making any modification. 18mm wide MCB from any Brand can be installed as outgoing. 18mm wide 1P+N RCBO can also be installed upto 40A as outgoing.

■ Knock outs - Body	Top & bottom With Removable gland plates top and bottom
■ Steel Thickness	1mm.
■ Enclosure Material	Galvanized steel sheet.
■ Enclosure Finish	Gray, RAL 7035. Other colours on request.
■ Busbar Rating	UP TO 250A
■ Busbar Type	Fully shrouded dual solid tin plated copper
■ Voltage Rating	220-440VAC 50/60 H
■ Fault level	35kA
■ No. of Ways	"12,18,24,30,36,48,60,72 SPN 4,6,8,10,12,16,20,24 TPN"
■ Degree of Protection	IP 41
■ Incomer	MCCB 3P 100AF,160AF,250AF
■ Outgoing	MCB 3P 63A MAX,
■ Insulation Voltage	1000V
■ Color	RAL 7035



> Panels dimensions

Enclosures dimensions:
(in mm)



Number of Ways	MCB 63 A	MCCB 160 A	MCCB 250A
12	B	B	B
18	B	C	C
24	B	C	C
30	C	D	D
36	C	D	D
42	C	D	D
48	D	E	E
54	D	E	E

Flush				Surface			
Size Type	H	h	L	Size Type	H	h	L
B	570	530	440	B	545	530	410
C	730	690	440	C	705	690	410
D	890	850	440	D	865	850	410
E	1040	1000	440	E	1015	1000	410

SAMPLE PRODUCTS



ERCON MIDDLE EAST INDUSTRIES



INDEX

1. Enclosures

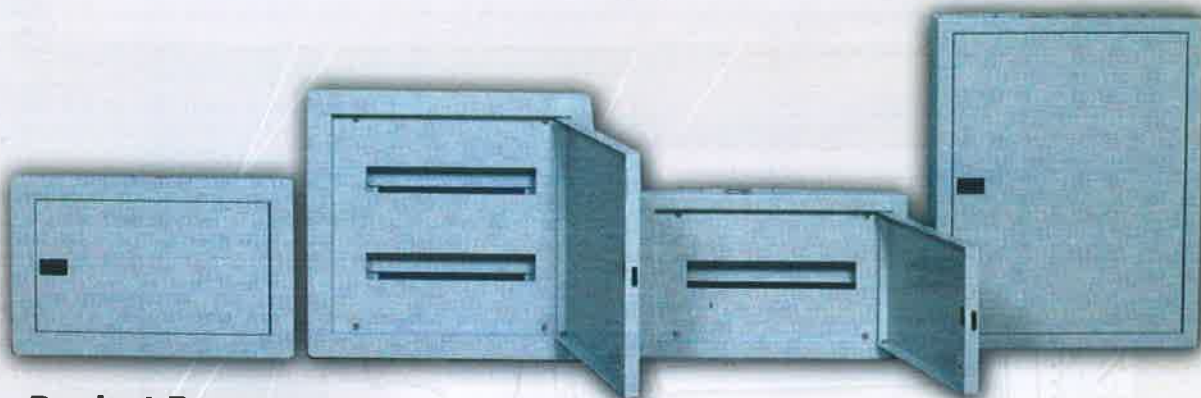
- Distribution Boards enclosure
- Small Size enclosure
- Medium Size enclosure
- Large Size enclosure
- Extendable Type enclosures
- Single wall Aluminum enclosure
- Double wall Aluminum enclosure
- Enclosure in stainless steel.
- Control Desk
- Enclosures of Form II
- Enclosures of Form IV
- Package substation in Steel
- Package substation in Aluminium
- Racking system for IT & Telecommunication.
- Sound Proof electric room for Generator
- Explosion proof enclosure

2. Cladding & Fabrication Works

3. Trading

ROW TYPE DISTRIBUTION BOARDS

- Ercon row types DB are made of galvanized / electro- galvanized steel sheets and are powder coated with RAL 7035.
- They are available in surface and flush type mounting designs.
- DB is provided with an adequate gutter space for easy wiring with knock-outs on top and bottom for conduit or cable entry.
- Earth bars and multi split N-bars can be fixed directly on the chassis in adequate length.



Product Range

FLUSH TYPE

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	Modular
EME-16M 1F	Hinged	295	426	110	1	1	16
EME-32M 2F	Hinged	446	426	110	1	1	32
EME-48M 3F	Hinged	596	426	110	1	1	48
EME-64M 4F	Hinged	746	426	110	1.2	1.2	64
EME-80M 5F	Hinged	896	426	110	1.2	1.2	80

SURFACE TYPE

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	Modular
EME-16M 1S	Hinged	276	406	110	1	1	16
EME-32M 2S	Hinged	426	406	110	1	1	32
EME-48M 3S	Hinged	576	406	110	1	1	48
EME-64M 4S	Hinged	726	406	110	1.2	1.2	64
EME-80M 5S	Hinged	876	406	110	1.2	1.2	80

WALL MOUNTED ENCLOSURE (SMALL SIZE)

- Small type's enclosures are manufactured in galvanized / electro-galvanized steel sheet and are electro-statically powder coated with RAL 7032 finished texture.
- Enclosures are provided with a flange opening for a cable entry with a gasketed gland plates and are fixed with round neoprene seals.
- Doors are fitted with concealed hinges and are polyurethane foam gasket for dust and water resistance.
- Rear wall of the enclosure is provided with wall fixing holes.
- The mounting plate is prepared for optimum utilization of enclosure space and is held by strong studs/Bolts.



Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-252015	Hinged	250	200	150	1	1	1.5
EME-302515	Hinged	300	250	150	1	1	1.5
EME-403020	Hinged	400	300	200	1	1	1.5
EME-504020	Hinged	500	400	200	1	1	1.5
EME-505020	Hinged	500	500	200	1	1	1.5
EME-605020	Hinged	600	500	200	1	1	1.5
EME-606020	Hinged	600	600	200	1	1	1.5
EME-705020	Hinged	700	500	200	1.2	1.2	1.5
EME-806020	Hinged	800	600	200	1.2	1.2	1.5
EME-808020	Hinged	800	800	200	1.2	1.2	2
EME-808025	Hinged	800	800	250	1.2	1.2	2

WALL MOUNTED ENCLOSURE (MEDIUM SIZE)

- Medium size enclosures are manufactured with galvanized / electro-galvanized steel sheets and are powder coated with RAL 7032.
- Doors are fitted with a continuous polyurethane foam gasket or door sealed to ensure a degree of protection.
- Enclosure is provided with a standard detachable mounting plate for installation of components.
- The integrated canopy renders this range, ideal for outdoor installations.



Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-1006020	Hinged	1000	600	200	1.2	1.2	2
EME-1006025	Hinged	1000	600	250	1.2	1.2	2
EME-1008025	Hinged	1000	800	250	1.2	1.2	2
EME-1008030	Hinged	1000	800	300	1.2	1.2	2
EME-10010025	Hinged	1000	1000	250	1.2	1.5	2
EME-1206025	Hinged	1200	600	250	1.5	1.5	2
EME-1208025	Hinged	1200	800	250	1.5	1.5	2
EME-1208030	Hinged	1200	800	300	1.5	1.5	2
EME-12010025	Hinged	1200	1000	250	1.5	1.5	2
EME-12010030	Hinged	1200	1000	300	1.5	1.5	2

ENCLOSURE LARGE SIZE

- Large size enclosures are of galvanized / electro-galvanized steel sheet and are powder coated with RAL 7032.
- Enclosure is supplied with a detachable semi-concealed hinges with 1300 opening angle and are fitted with neoprene gasket.
- A large cable passage area is provided by a removable gland plates.
- The mounting plate of the enclosure is painted with RAL 2000 smooth.
- The doors of the enclosure are equipped with lock which ensures that the doors are firmly locked.



Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-12012025	Hinged	1200	1200	250	1.5	1.5	2
EME-12012030	2 Hinged	1200	1200	300	1.5	1.5	2
EME-1408030	Hinged	1400	800	300	1.5	1.5	2
EME-14010030	Hinged	1400	1000	300	1.5	1.5	2
EME-14012030	2 Hinged	1400	1200	300	1.5	1.5	2
EME-1606030	Hinged	1600	600	300	1.5	1.5	2
EME-1608030	Hinged	1600	800	300	1.5	1.5	2
EME-16010030	Hinged	1600	1000	300	1.5	2	2
EME-16012040	2 Hinged	1600	1200	400	1.5	1.5	2
EME-1808040	Hinged	1800	800	400	2	2	2
EME-18010040	Hinged	1800	1000	400	2	2	2
EME-18012040	2 Hinged	1800	1200	400	2	2	2

EXTENDABLE TYPE ENCLOSURE

- Our enclosures are manufactured in varied sizes with galvanized / electro-galvanized steel sheets and are powder coated with RAL 7032.
- The enclosures are easily joinable to any width for the most demanding main applications.
- Doors are provided with continuous polyurethane foam gasket or door sealed to ensure a degree of protection.
- The rear and side covers can be easily removable.
- A large cable entry area is provided through detachable gland plates.
- Mounting plates can be fixed to any depth facilitates easy installation of components and are electro-statically powder coated with RAL 2000 smooth.

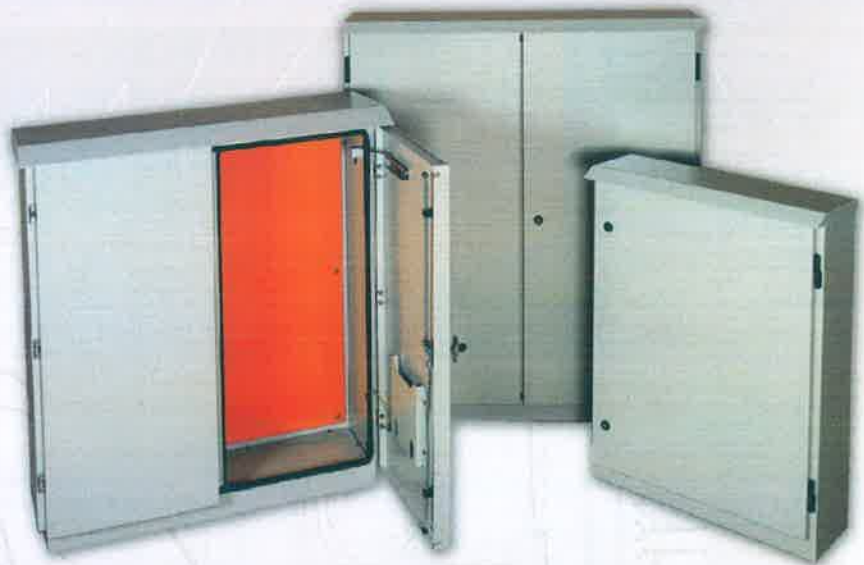
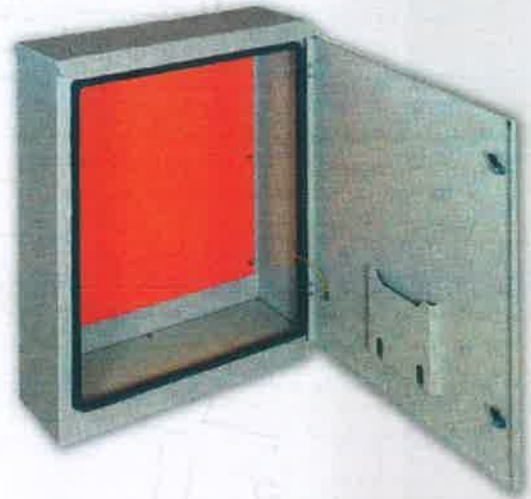


Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-EXT 6060	Hinged	2000	600	600	2	2	2
EME-EXT 8060	Hinged	2000	800	600	2	2	2.5
EME-EXT 10060	Hinged	2000	1000	600	2	2	2.5
EME-EXT 12060	2Hinged	2000	1200	600	2	2	2.5
EME-EXT 6080	Hinged	2000	600	800	2	2	2
EME-EXT 8080	Hinged	2000	800	800	2	2	2.5
EME-EXT 10080	Hinged	2000	1000	800	2	2	2.5
EME-EXT 12080	2Hinged	2000	1200	800	2	2	2.5

SINGLE WALL ALUMINIUM ENCLOSURE

- Enclosures are being manufactured with corrosion resistant Aluminium sheets and are powder coated with RAL 7032.
- Doors are provided with detachable fiber reinforced polyester hinges with 180° opening angle.
- Enclosures are fitted with superior quality of gaskets keeping in view of climatic conditions.
- A distinctive Z-rail on the rear wall of the enclosure has rivet nuts for fixing a full mounting plate.
- The integrated canopy lowers the interior temperature of the enclosure due to the 20mm air gap against the top sheet.

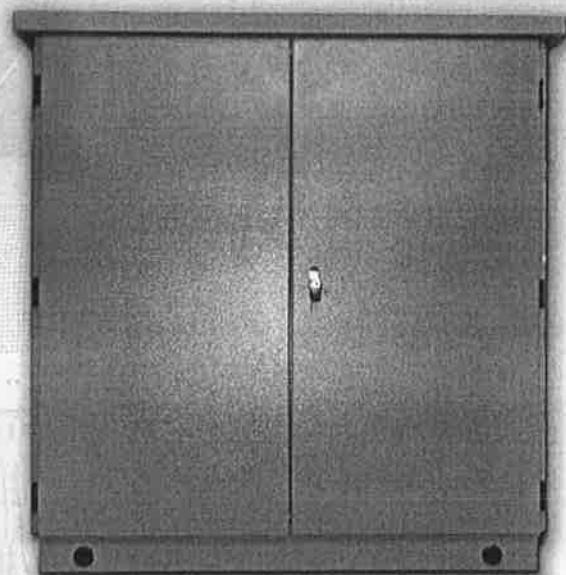


Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EAS -705025	Hinged	700	500	250	3	3	2
EAS -806025	Hinged	800	600	250	3	3	2
EAS -1008025	Hinged	1000	800	250	3	3	2
EAS -12010030	Hinged	1200	1000	300	3	3	2.5
EAS -12012035	2Hinged	1200	1200	350	3	3	2.5
EAS -14010035	2Hinged	1400	1000	350	3	3	2.5
EAS -14012035	2Hinged	1400	1200	350	3	3	2.5
EAS -15012035	2Hinged	1500	1200	350	3	3	2.5

DOUBLE WALL ALUMINIUM ENCLOSURE

- Our double wall Aluminium enclosures are made of corrosion resistant Aluminium Sheets and are powder coated with RAL 7032.
- The system is completely ventilated having an air flow in-between the outer and inner cabinet.
- The air flow sucks the warm air from the cabinet by Ventures Effect, significantly lowering the interior temperature and thus protecting the interior sensitive electrical components.
- Doors are fitted with suitable hinges with 1800 opening angle and are provided with high quality gaskets which are resistant to environmental temperature, humidity and salinity.
- Side and rear walls of the enclosures is fitted with rivet nuts for fitting channels for partial or full mounting plates.



Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EAD -705025	Hinged	700	500	250	3	3	2
EAD -806025	Hinged	800	600	250	3	3	2
EAD -1008025	Hinged	1000	800	250	3	3	2
EAD -12010030	Hinged	1200	1000	300	3	3	2.5
EAD -12012035	2Hinged	1200	1200	350	3	3	2.5
EAD -14010035	2Hinged	1400	1000	350	3	3	2.5
EAD -14012035	2Hinged	1400	1200	350	3	3	2.5
EAD -15012035	2Hinged	1500	1200	350	3	3	2.5

ENCLOSURE IN STAINLESS STEEL

- These types of enclosures are manufactured in varied sizes in stainless steel sheets and are powder coated with RAL 7032.
- Doors are fitted with semi-concealed hinges and a continuous polyurethane foam gasket or door sealed to ensure a degree of protection.
- Mounting plates are made in different thickness depending upon the requirement as well as in standard thickness of sheet and they are powder coated with RAL 2000 Smooth.
- A large cable entry area is provided through a removable gland plates.
- Enclosure can be provided with canopy on client's request.
- The enclosure is welded firmly to withstand all operating needs and special environmental conditions.

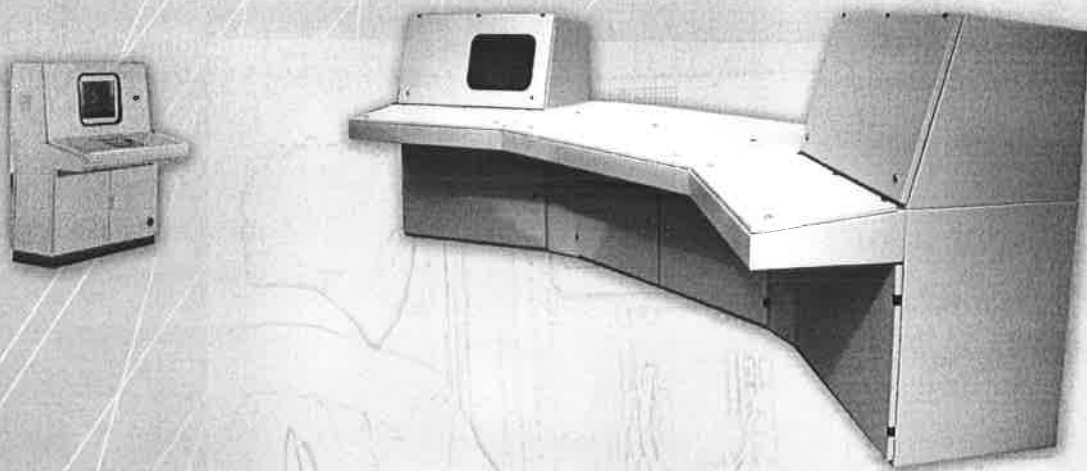


Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-302515	Hinged	300	250	150	1.2	1.2	1.5
EME-403020	Hinged	400	300	200	1.5	1.5	2
EME-504020	Hinged	500	400	200	1.5	1.5	2
EME-605020	Hinged	600	500	200	1.5	1.5	2
EME-806020	Hinged	800	600	200	1.5	1.5	2
EME-1006030	Hinged	1000	600	300	2	2	2
EME-12010030	Hinged	1200	1000	300	2	2	2
EME-12012030	Hinged	1200	1200	300	2	2	2
EME-14010030	Hinged	1400	1000	300	2	2	2

CONTROL DESK

- Ercon's control desks are of galvanized / electro-galvanized steel sheet and are powder coated with RAL 7032.
- They are being manufactured taking in view of all the climatic conditions and are vigilantly observed at all the process to ensure product quality.
- Doors of the control desk are equipped with semi concealed hinges and a continuous polyurethane foamed gaskets or door sealed to ensure a degree of protection.
- Back doors are easily removable and mounting plates are easily adjustable for any depth.
- They have detachable lower aide panels.

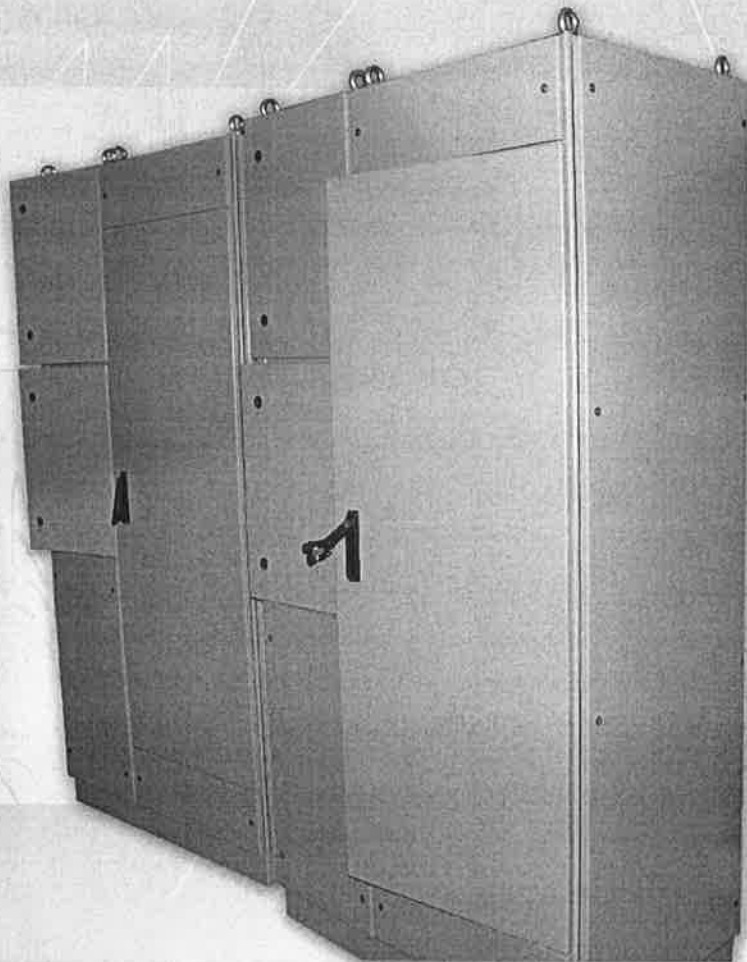


Product Range

Product Code	Cover type	Dimension			Steel Thickness		
		Height	Width	Depth	Enclosure	Door	M Plate
EME-CD 100	Hinged	1000	800	600	1.5	1.5	2
EME-CD 120	Hinged	1200	1000	600	2	2	2
EME-CD 140	Hinged	1400	1000	800	2	2	2/2.5
EME-CD 160	Hinged	1600	1200	800	2	2	2/2.5
EME-CDL 160	Hinged	1800	1400	800	2	2	2/2.5

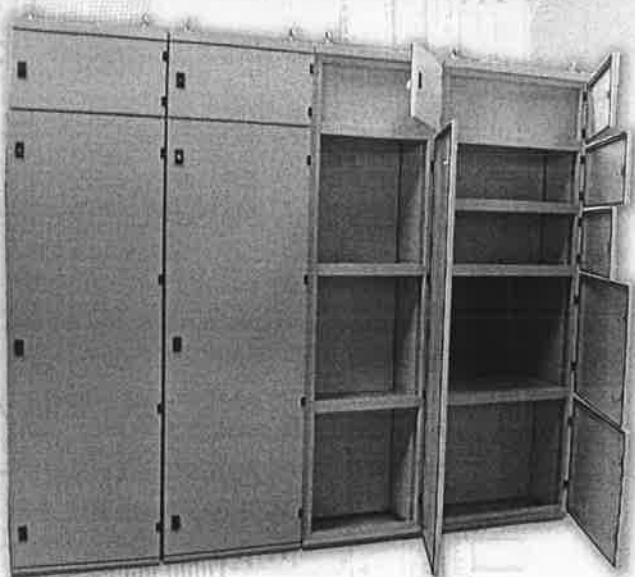
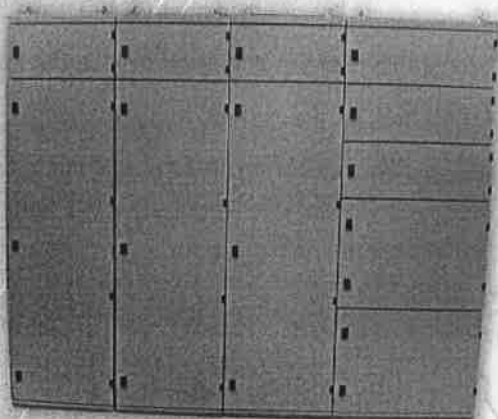
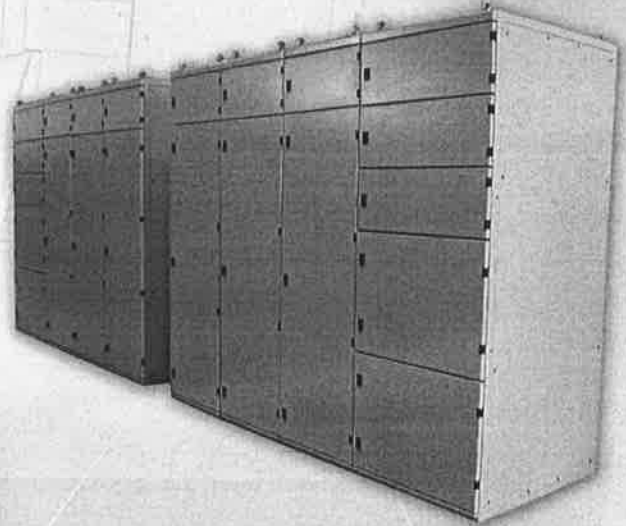
ENCLOSURES OF FORM II

- Form II enclosures are of galvanized / electro-galvanized steel sheets and are powder coated with RAL 7032.
- The interior temperature of the enclosure is lowered due to its special design, significantly protecting the inner sensitive equipments.
- The doors of this system are equipped with high quality rubber gaskets and are provided by removable semi-concealed hinges.
- The front door of the system is fitted with a lock, which assures that the doors are shut completely.
- Bus bar separation is achieved by insulated coverings and is well protected against contact with internal live parts or components.



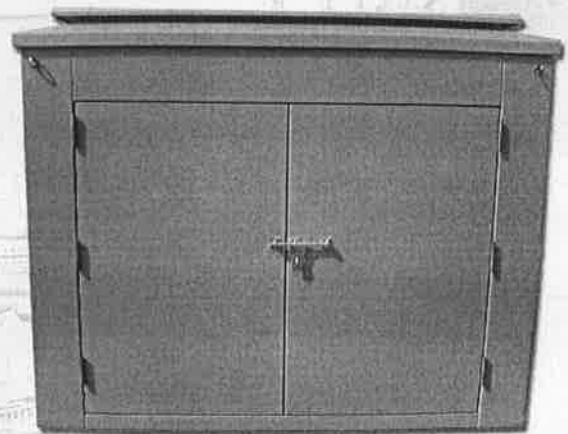
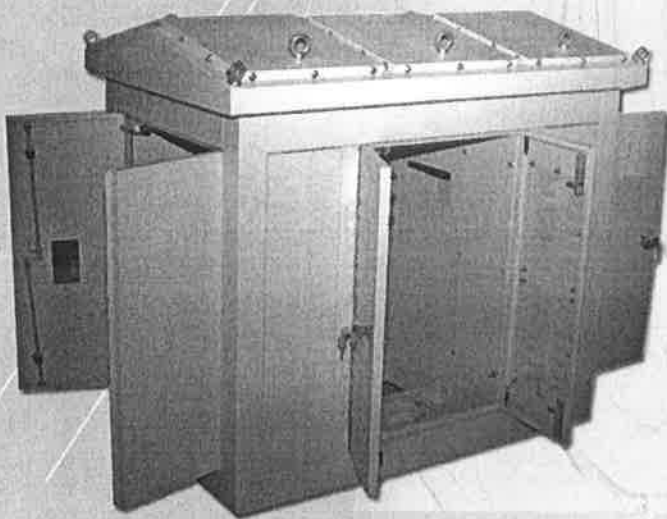
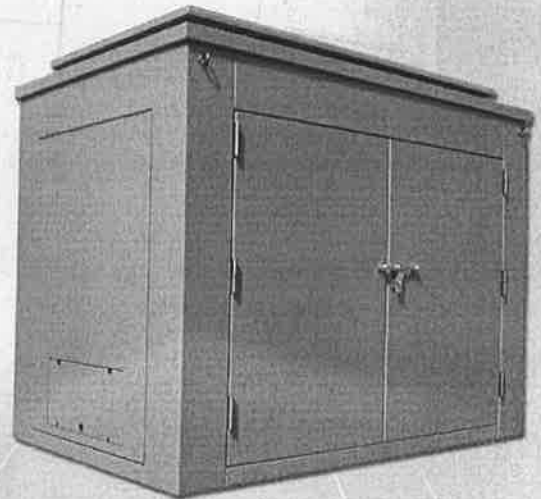
ENCLOSURES OF FORM IV

- Form IV enclosures are designed according to client's requirement.
- Our enclosures are manufactured in varied sizes with galvanized / electro-galvanized steel sheets and are powdercoated with RAL 7032.
- The enclosures are easily joinable to any width for the most demanding main applications.
- Doors are provided with continuous polyurethane foam gasket or door sealed to ensure a degree of protection.
- The rear and side covers can be easily removable and a large cable entry area is provided through detachable gland plates.
- Form IV is manufactured in such a way, to avoid contact with internal live parts and compartments and there is internal separation of the bus bar system from functional units from one another.



PACKAGE SUBSTATION IN STEEL

- Our package substation are manufactured with galvanized / electro-galvanized steel sheets and electro statically powder coated with RAL 7032.
- They are corrosion resistant and are built to withstand environmental temperature, humidity and salinity.
- Substations are ideally designed, which enables it to be assembled with the transformers, Ring main unit or the Switchgear unit.
- They are assembled and tested to provide an aesthetically pleasing close coupled assembly, reducing installation time and cost.
- The substation contains 3 main compartments for transformer, MV Switchgear & LV Switchgear. The compartments are segregated by partition sheets.
- They are provided with gas spring stoppers and with heavy duty hinges to avoid distortion and mis-alignment.
- The substations are duly fitted with locks, which are provided with door swing handles for firmly locking.

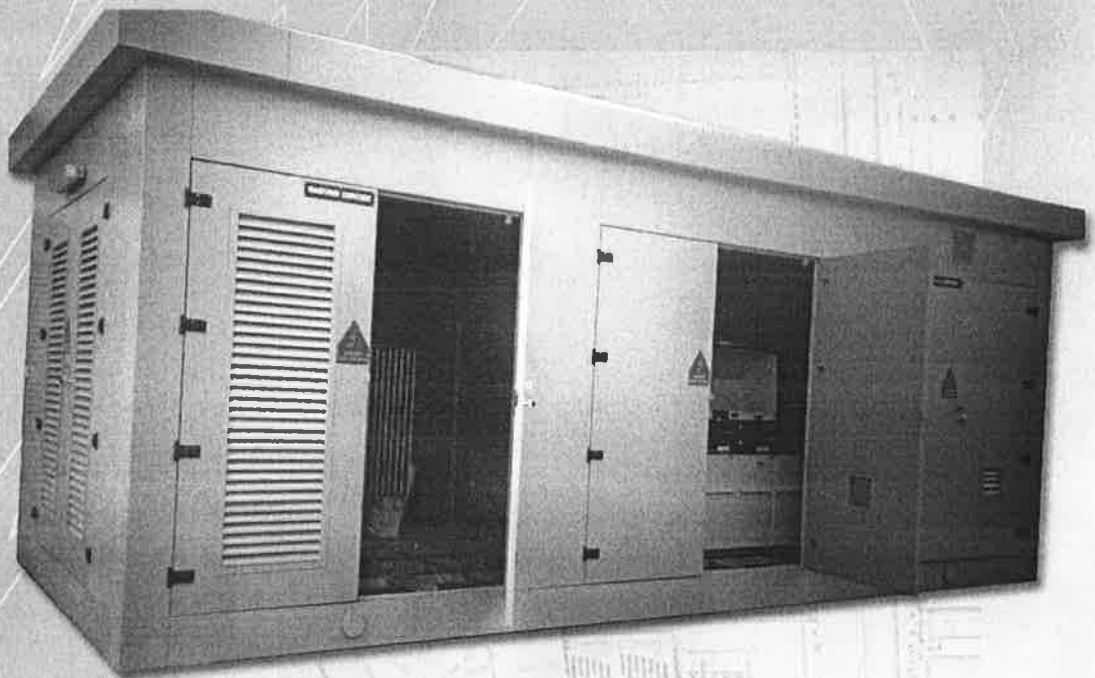
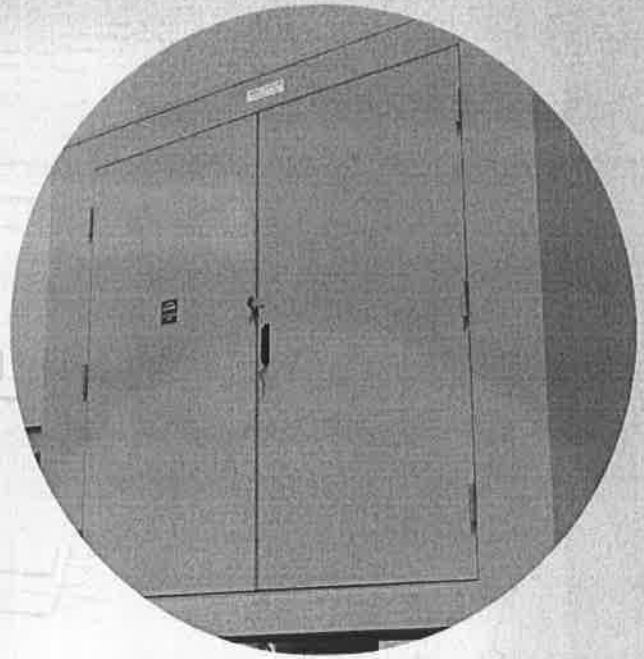


PACKAGE SUBSTATION IN ALUMINIUM

Package substation manufactured in 2 and 3 mm Aluminium sheets and well designed for power supply for Small, Medium and Large industrial plants exposed to high humidity and hostile climatic conditions.

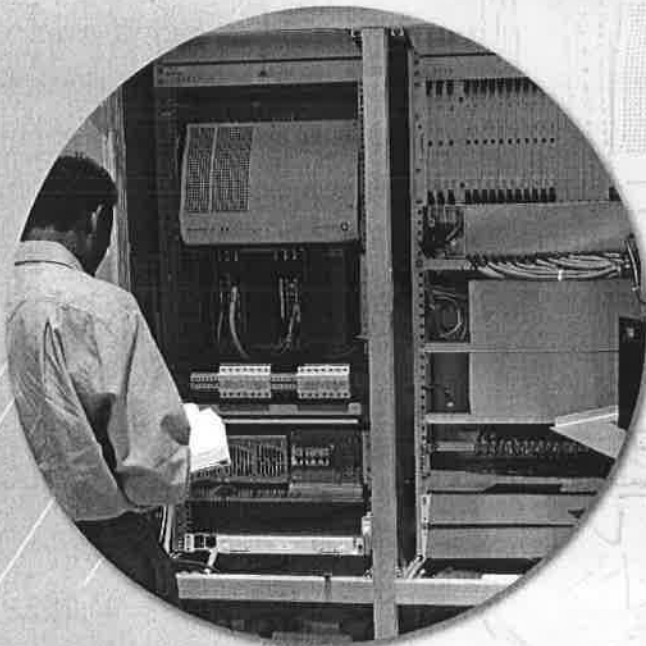
We have different type products available in this category with protection degree of IP42/IP54 and standard cycle thermosetting epoxy polyester powder coated RAL 7032 colour finish.

Other size, colour and special finish can be offered on client request



RACKING SYSTEM FOR IT & TELECOMMUNICATION

- They are specially designed to suite the requirements of the IT and communication departments.
- It is being manufactured with galvanized / electro-galvanized steel sheets and are electro-statically powder coated with RAL 7032, which makes them highly corrosion resistant.
- They are uniquely designed to lessen the interior temperature, thus protecting the inner sensitive equipments.
- The doors of this system are equipped with high quality rubber gaskets and are provided by removable semi-concealed hinges with 1800 opening angle.
- The front door of the system is fitted with a lock, which assures that the doors are shut completely and is equipped with the keys to evade any type of thievery.



EXPLOSION PROOF ENCLOSURE

- Explosion proof enclosures are of varied sizes and are uniquely designed to withstand the vast climatic conditions and are highly resistant to explosions.
- They are being manufactured with galvanized / electro-galvanized steel sheet / stainless steel and are powder coated with RAL 7032, which is being treated under high temperature for great resistance from the external elements.
- The doors of this enclosure are equipped with the special type of hinges and are provided with a continuous polyurethane foam gasket, to ensure the maximum protection from gas, dust and water.
- Doors of this enclosure are fitted with a special type of locks and are provided with keys.



CLADDING AND FABRICATION WORKS

We are doing all type of cladding and fabrication works in sheets steel and stainless Steel using latest Turret Punching Machines. All the above products are designed and manufactured with local and International Standards and specification as per client's and consultant's requirements.

POWDER COATING PLANTS

The EME are designers and manufacturers of complete Turnkey Finishing Plant Systems, providing all the plant and equipment as per the demand of the customers. It is the company's policy to furnish the client's with a total concept of Industrial finishing plants which can vary considerably depending upon the materials, size and type of the products to be coated. The company remains dedicated to systems for furnishing integrated solutions, widening innovative ideas and customizing the designs accordingly with the customer requirement and preserving superior quality product standard. Ercon aspires to make your job easier by providing you with products and services that add value to your business and make your project more efficient.

DIP TREATMENT

Designed for multi process operation and sized to suit components, normally with well type Dry Off Oven unload end of plant. Items carried through plant by simple manual operated overhead hoist unit, or when required by rigid mast transporters capable of fully automatic operation.



SPARY PRETREATMENT

Items for processing passing through multi stage spray pretreatment supported from overhead conveyor. Zone length determined by required process items and conveyer speed. Spray jet assemblies mounted in easily adjustable joints fixed in spray eaders of either PVC, ABC copolymer, mild steel or stainless to suit temperatures.

Spray housing showing unique side mounted process chemical and rinse holding tanks. This design maximizes production output due to the elimination of vertical rinse and falls and allows spray pretreatment system to be located in low head room areas. Housing and tanks are manufactured from materials to suit process, either mild steel or stainless steel. Extract fans, conveyor seals and operator walkway are incorporated within the housing

OVENS

Air circulated Tunnel type design, speed to suit process requirements. With either single pass or multi pass conveyor. Fuels utilized to suit client. Oil heated, indirect with heat exchanger, Gas -Direct heated or Electric heated.



INFRA RED OVENS (GAS TYPE SHOWN)

Either gas or electric type oven often used prior to the entry to an air circulated oven as a preheat zone to reduce length of air circulated zone and to enable close batching of colours without problems of cross contamination and enhance finish of components. Also supplied when required as a stand alone facility.

ELECTRIC INFRA RED

Computer controlled short wave Infra Red Oven designed to process heavy, awkward power coated components.



POWDER BOOTH FOR AUTOMATIC AND MANUAL APPLICATION

Ercon Auto/Manual power coating booth with twin cyclone recovery and reverse pulse, after filter unit rated at various cfm. Booth enclosure from stainless steel grad 304, complete with light fittings and interconnecting ducting. Auto and manual coating from both sides. Roll on /off conveyor line for quick color change.



RAYRIDGE RR6

Rayridge RR6 extreme heavy duty fully enclosed inverted overhead chain conveyor. Conveyor chain manufactured from heavy duty double thick link to provide load capacity in excess of 75kg per 300mm pitch.



CLADDING & FABRICATION

We expertise in all types of cladding and fabrication works in sheet steel and stainless steel by a computer aided systems, which are interlinked with our manufacturing equipment to ensure rapid product development. All the above products are designed and manufactured with local and international standards and as per the specification & requirement of clients and consultants.

TRADING DIVISION

We are specialised in Powder coating plants, Accessories, Spare parts. We also provides all types of Hardware & Electrical Accessories, Engraved labeling on PVC./Aluminium Stainless Steel.

ACCESSORIES



DESIGNATION OF THE INGRESS PROTECTION(IP)

The Ingress protection (IP) for enclosures up to 1000 V a.c. is defined in standards IEC 529-19889, EN 60529, DIN VDE 0470 Part 1.11.92, B.S. 5490-1985 and NFC 20-010

The IP code characterizes the ability of enclosures to withstand external influences.

As per latest DIN VDE 0470 it comprises up to 4 digits, depending on the specification relating to such influences.

The first digit indicates the protection against ingress of solid objects.

The second digit indicates the protection against ingress of liquids.

Either digit has to be substituted with an x .if no digit is specified.

The third digit is an optional letter A, B, C or D and characterizes the access to dangerous part with tools.

The forth digit is an optional letter H, M, S or W and characterizes the effect of liquid to dangerous parts.

Protection against solid bodies		
IP	Test	Definition
0		Non -Protected
1		Protection against solid objects greater than 50 mm
2		Protection against solid objects greater than 12 mm
3		Protection against solid objects greater than 2.5 mm
4		Protection against solid objects greater than 1.0 mm
5		Dust Protected
6		Dust Tight

Protection against liquids		
IP	Test	Definition
0		Non -Protected
1		Protection against dripping water
2		Protection against dripping water tilted up to 15
3		Protection against spraying water
4		Protection against splashing water
5		Protection against water jets
6		Protection from projection of water similar to marine swells
7		Protection against the effect of immersion
8		Protection against the effect of prolonged immersion