

COMPLETE SOLUTIONS FOR OUTDOOR

OUTDOOR ELECTRICAL ENCLOSURES

**OUTDOOR HEAVY DUTY
OUTDOOR TELECOM
OUTDOOR RACKS
PUBLIC LIGHTING**



HÁGASE DISTRIBUIDOR OFICIAL DE ARMARIOS ELÉCTRICOS DE INTEMPERIE Y ARMARIOS A MEDIDA DELVALLEY Y CONSIGA AUMENTAR EL BENEFICIO DE SU NEGOCIO

Profit Protect: protegemos sus intereses, no hacemos competencia a nuestros distribuidores u/o almacenes.

Aporte soluciones específicas a sus clientes para cada sector industrial, *smart cities*, alumbrado público, energías renovables, sector industrial, fabricantes maquinaria, sector Atex, *oil & gas*, petroquímicas, etc.

Disfrute de una nueva concepción del diseño a medida del armario eléctrico en un plazo récord.

Fast production: plazos de entrega de proyectos a medida entregados en menos de 3 semanas.



Trato exclusivo, hable directamente con nuestros ingenieros de ventas para buscar la mejor solución para sus clientes.

Diferénciate de tu competencia ofreciendo respuestas inmediatas a proyectos y soluciones a medida de armarios y cajas eléctricas en nuevos materiales, acero inoxidable, galvanizado pintado, aluminio y por supuesto acero pintado.

Fabricación a medida y customización de armarios eléctricos: gane licitaciones que hasta ahora no podía optar. Consigue esos proyectos que hasta ahora dejaba aparcados.

Disfrute del stock que tenemos a su disposición a precios muy bajos para entregas inmediatas.





WE PUT AT YOUR DISPOSAL

We offer over **45 years** providing solutions to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

WHEREVER YOU GO

We are committed to working closely with our customers, providing them with **exceptional service** and offering an advanced and extensive range of products with very competitive prices.

HIGH STANDARD OF QUALITY AND SERVICES

We only use materials provided by companies who offer the very **highest quality**, suitable and certified products. Our success is due to top quality assurance: ISO 9001, SGS, UL, TÜV, ISO 14000 and ISO45001.

CUSTOMIZE TOTALLY YOUR ENCLOSURE

Our production systems can give custom-made solutions **on demand**. Every colour from RAL chart is available to be personalized. A variety of protection standards thanks to our own painting facilities.

CONTACT US

Confidentiality, reliability & quality

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ALSO ONLINE

Please contact our technical sales department.

A team of professionals with high experience and ability to solve all your queries.



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CUSTOMIZED SOLUTIONS



CAJAS Y CUADROS ELÉCTRICOS A MEDIDA DELVALLE

OFRECEREMOS UNA RESPUESTA ÁGIL Y UNA SOLUCIÓN PERSONALIZADA

Formatos, materiales, espesores, condiciones, climatización, certificados, NORMSs, ambientes delicados... somos capaces de darle una solución y una respuesta económica.

Hibridamos las capacidades tecnológicas y de mercado para dar respuesta a sectores tan competitivos y variados como: petroquímico, alimentación, energías renovables, farmacéutico, marítimo, offshore...



Desde Delvallebox ofrecemos estanqueidad, robustez y seguridad para que su proyecto obtenga las máximas garantías al mejor precio del mercado. Hemos superado todos los ensayos y NORMS Nema Type I -3r -4x -12, bajo NORMS Americana UL.

Lo que para el resto de fabricantes de estructuras metálicas envolventes son extras, para nosotros es un servicio que ponemos a disposición de los clientes, no sólo nuestras fabricaciones son totalmente personalizables, sino que además facilitamos la tarea de su instalación con pequeños detalles que hacen que seamos muy valorados por instaladores y clientes.

Mecanizamos el interior y el exterior del armario, para que ahorre tiempo y lo dedique a lo que de verdad aporta a su negocio. Todos nuestros armarios están avalados con una garantía anti-corrosión y los armarios pintados permiten ofrecer resistencia superior.

CAJAS Y CUADROS ELÉCTRICOS A MEDIDA DELVALLE



CUADROS ELÉCTRICOS A MEDIDA

La fabricación de todos los armarios y cajas eléctricas Delvallebox se realiza con los métodos técnicos más avanzados y con una precisión y conciencia artesanal, que nos distingue de la competencia. Lo que para otros fabricantes es especial para nosotros es estándar, ya que nuestro sistema de producción está organizado para atender a medida bajo demanda de cualquier modelo.

Personalizamos armarios con su imagen corporativa, logo; así como el color de pintura RAL de su armario, etc.

Disponemos de diferentes OPTIONS de acabado, para darte todas las soluciones:

- Tratamiento de intemperie anti-carteles y anti-pegado de posters, esta diseñado como tratamineto para mobiliario urbano en ayuntamientos, ciudades, edificios, centros comerciales.
- Aplicamos a los armarios eléctricos en nuestras propias instalaciones una capa SunTerm de 80-90 micras con un compuesto especial reflectante contra los rayos infrarrojos, manteniendo la estanqueidad, diseño, etc., del armario eléctrico.



MECANIZACIÓN A MEDIDA

En Delvallebox mecanizamos cualquier parte del armario de agujeros para la colocación de prensaestopas, pantallas, pilotos de seguridad, prensaestopas, terminales, pulsadores, etc.



CAJAS Y ARMARIOS NEMA TYPE

Gracias a esta homologación, Delvalle ha aumentado aún más su ventaja frente a sus competidores, algo no al alcance de otras empresas, puesto que somos los únicos en el mundo en fabricar una armario 3000x2000x1000mm. Nema 4x Nuestra identificación UL es la E342220.



CAJAS Y ARMARIOS ESTANCAS IP

Certificamos y fabricamos a medida cajas eléctricas estancas IP54-55, IP65, IP66 y grados de estanqueidad e inmersión IP67 e IP68. Diseñamos específicamente soluciones de cajas IP estancas eléctricas y armarios eléctricos estancos homologados con la NORMS de estanqueidad IP60529. Somos líderes en fabricación de cajas estancas y/o armarios eléctricos estancos bajo NORMS IP60529.



VENTILACIÓN Y CLIMATIZACIÓN

Disponemos de un amplio catálogo de soluciones de Refrigeración y ventiladores para cuadros y armarios eléctricos. Realizamos estudios completos de refrigeración y climatización en armarios y cajas eléctricas, para su ubicación en cualquier lugar del mundo. Calculamos lo que necesita para conservar los componentes eléctricos del interior de su armario y cuadro eléctrico, aumentando la vida útil de los componentes eléctricos y electrónico. Una vez estudiados los requerimientos que más demandan nuestros clientes, Delvalle pone a disposición del cliente un Kit compuesto de los siguientes elementos:

- Resistencia calefactora
- Ventilador de techo
- Termostato dual



ARMARIOS SÍSMICOS

Hemos obtenido el certificado de calificación sísmica, mediante la aprobación del ensayo de vibración bajo norma UNE EN 60068-3-3: ensayos ambientales, métodos de ensayos sísmicos aplicables a equipos y la norma IEEE-344 del año 2004, del instituto de ingenieros eléctricos electrónicos de EEUU. guía para la cualificación sísmica de equipos eléctricos clase I E, con destino a centrales nucleares.

SOLUCIONES ELÉCTRICAS GLOBALES PARA NÚCLEOS URBANOS

EQUIPAMIENTOS URBANOS - SMART CITY

Con la experiencia en el cumplimiento de los pliegos de ayuntamientos, organismos y administraciones en general, nuestros armarios de exterior son ideales para colocación como parte de mobiliario urbano. Damos la posibilidad de personalizar cada uno de tus armarios tanto en forma, material, espesor, climatización, certificado, NORMS, etc; pero con un mismo diseño para su encaje perfecto. Esta posibilidad te da la opción de **ampliar tus armarios cuando se requiera, sin repercutir en el diseño.**



TELECOMUNICACIONES IP

Soluciones a medida a precio de estándar de Racks de 19"o 21" para exterior e intemperie con doble pared termoaislados, especialmente diseñados para telecomunicaciones y sujeción de sistemas racks, son robustos, estancos, duraderos y muy seguros.



COMPAÑÍAS ELÉCTRICAS

Realizamos armarios y cuadros eléctricos especiales para compañías eléctricas, como Iberdrola, Endesa, Hidrocantábrico, Enel, Gas Natural, Naturgas, Red Eléctrica, etc.



ILUMINACIÓN

Nuestros armarios y cajas son capaces de soportar tensiones eléctricas y mecánicas muy elevadas.



CONTROL DE TRÁFICO

Ideal para su colocación en carretera o vías interurbanas, ya sea para señalización o alumbrado, así como su utilización en estaciones meteorológicas a la intemperie, telecomunicaciones, telefonía, fibra óptica, video vigilancia en zonas urbanas o interurbanas.





OUTDOOR ELECTRICAL ENCLOSURES



Large Space Inside for Rack Equipments



Example

Outdoor Storm Series enclosure, designed to be placed in urban or interurban areas, protecting the electronic equipment needed for lighting, signage and video surveillance.

Its application range is extended with external telecommunication installations, telephones, computers, weather stations and any other application that needs extra protection.

The Storm Series is characterized by its high resistance to corrosion and wear, ideal for placement in cities and highways, spacious interior; thanks to its construction, it achieves greater width and height than the rest. Provided with approved water repellent injected seals on exterior doors allowing for tightness and stabilising an ideal temperature for placement in areas of extreme temperature or hostile weather environments. Made of stainless steel AISI 304L (EN 14306) with polyester paint finish, and features a handle made of a material highly resistant to vandalism and forced openings.

The interior design allows easy placement of racks, mounting plates or separators.

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Our Storm Series, design, finishing and sealing make it ideal for outdoor use.

As its name suggests its placement is usually on roads, signalling or lighting, and use in weather stations, telecommunications, telephones, fibre optics and video surveillance in urban or interurban areas.

ADVANTAGES

- Very good mechanical properties and high resistance to shape distortion.
- With water repellent injected seal.
- Door retained with stoppers.
- The enclosure includes anti-vandalism locks and handles suitable for semi-cylindrical profile locks.
- Maintenance free for life over 30 years.
- Delvalle can adapt this design to the measurements required by the client, retaining the fundamentals of insulation, sealing and safety.
- Strength, durability and long life.
- High resistance to vandalism.
- Specially designed for urban and interurban areas, storms or highways.
- High resistance to corrosion and wear.
- Large space inside for Rack equipments.
- Two versions: galvanized steel and painted galvanized steel.

OPTIONS

- Designs and pictures available on request.
- Plinths at base for enclosures of any size. They allow enclosures to stand over the floor, with extra room for cable entry. Available 100mm (standard) and 200mm high.
- Stainless steel AISI 316L, EN 1.4404.
- Ventilation KIT (Fan, resistance heating and dual thermostat)
- Graffiti-proof protective paint
- EMC version according to EEC 89/336 of electromagnetic compatibility.

OPTION SUN REFLECTIVE TREATMENT COATING "SUNTERM" FOR OUTDOOR ELECTRICAL ENCLOSURES

SunTerm treatment coating for use in outdoor electrical enclosures, contain a reflective component that deflects the infrared light, and thus the half of the sun's total energy, from any substrate that it coats. As a result, the surface of the substrate, and any interior ambient that it protect, are cooler than a standard coating.

As a treatment solution SunTerm also gives you high corrosion resistant for outdoor environments.

Temperature Outdoor Resistant -40°C +80 °C.

Test under lab controlled conditions showed that the aluminum substrate being coated with SunTerm is 7oC cooler than coated with standard coating inside.



OUTDOOR RACK

STORM SERIES IP66

OUTDOOR FINISH ANTIPOSTER

Outdoor cabinet antiposter, specially designed for public lighting, urban furniture, city hall, shopping centers, buildings...

Its design with rumble strips prevents the sticking of posters. It is also aesthetically more elegant

Available in two materials: aluminium and galvanized steel with Epoxy - polyester paint.



Example

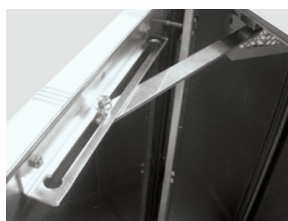
COMPONENTS

Delvalle advises in all Storm Series, the following components:

- Roof (Standard series)
- Door retainer (optional)
- Plinths at base (optional)
- Rack support (optional)



PLINTHS AT BASE



DOOR RETAINER



ROOF



RACK SUPPORT

VENTILATION KIT

REFERENCE

TR01 AC01

After studying the requirements that our customers demand in ventilation issues, Delvalle includes a kit of accessories consisting of the following elements:

- Roof fan
- Resistance heating
- Dual thermostat



Temperature variations inside control cabinets and housings, especially when installed outside, lead to condensation of water and consequently to malfunction and corrosion



Placing a fan at the top of the cabinet brings a continuous flow of air inside



The electromechanical humidistat which automatically controls the humidity inside the electrical panels, sends the signal to the fan or heater



STAINLESS
ANTICORROSIVE
GUARANTEE

FLAT AND VENTILATED ROOF OR SEALED OPTION



MECHANICAL PARTS
GUARANTEE

NORMS

- From IP54 to IP65 Norm EN 62208 and EN 60529.
- Maximum IK10 resistance Norm IEC 62208 and EN 50102
- En 61969-3 Mechanical Structures for Electronic Equipment - outdoor enclosures -
- IEC 60068-2-30 and IEC 60068-2-11
- Built to CE standards. 2006/95/CE
- UL Nema 4x, 12, 1, 3r by request. N°File E342220.
- Shock resistant against sharp objects EN 60439-5
- RoHs compliant.
- Maximum voltage 1000V
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).

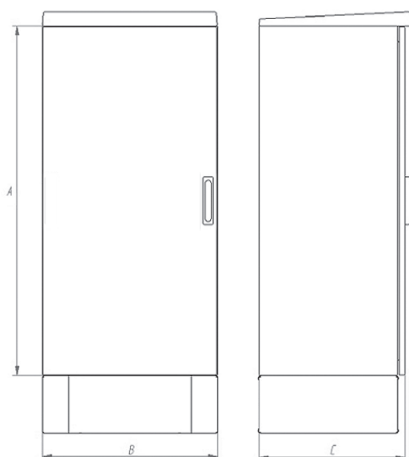
OUTDOOR RACK

STORM SERIES IP66

PLAN

➔ [CLICK HERE TO DOWNLOAD THE FILES CAD - PLANS - CERTIFICATES](#)

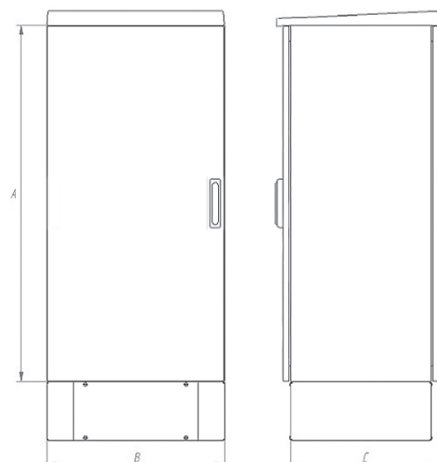
FRONT DOOR



SELF-COOLED AND WITH VENTILATION BRACKETS



FRONT AND REAR DOOR



REFERENCES

REFERENCES				DIMENSIONS (mm)					
STAINLESS STEEL	STAINLESS STEEL FRONT AND REAR DOOR	GALVANIZED	GALVANIZED FRONT AND REAR DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	RACK		
RD606040	RD606040D	RD606040EZ	RD606040EZD	600	600	400	12 U		
RD606050	RD606050D	RD606050EZ	RD606050EZD			500			
RD606060	RD606060D	RD606060EZ	RD606060EZD			600			
RD606080	RD606080D	RD606080EZ	RD606080EZD			800			
RD126040	RD126040D	RD126040EZ	RD126040EZD	1200		600	400	24 U	
RD126050	RD126050D	RD126050EZ	RD126050EZD				500		
RD126060	RD126060D	RD126060EZ	RD126060EZD				600		
RD126080	RD126080D	RD126080EZ	RD126080EZD				800		
RD146040	RD146040D	RD146040EZ	RD146040EZD	1450	600	400	30 U		
RD146050	RD146050D	RD146050EZ	RD146050EZD			500			
RD146060	RD146060D	RD146060EZ	RD146060EZD			600			
RD146080	RD146080D	RD146080EZ	RD146080EZD			800			
RD148040	RD148040D	RD148040EZ	RD148040EZD			800		400	30 U
RD148050	RD148050D	RD148050EZ	RD148050EZD					500	
RD148060	RD148060D	RD148060EZ	RD148060EZD					600	
RD148080	RD148080D	RD148080EZ	RD148080EZD					800	
RD196040	RD196040D	RD196040EZ	RD196040EZD	1900	600	400	40 U		
RD196050	RD196050D	RD196050EZ	RD196050EZD			500			
RD196060	RD196060D	RD196060EZ	RD196060EZD			600			
RD196080	RD196080D	RD196080EZ	RD196080EZD			800			
RD198040	RD198040D	RD198040EZ	RD198040EZD		800	400		40 U	
RD198050	RD198050D	RD198050EZ	RD198050EZD			500			
RD198060	RD198060D	RD198060EZ	RD198060EZD			600			
RD198080	RD198080D	RD198080EZ	RD198080EZD			800			

OUTDOOR ENCLOSURE TRÓPICO SERIES IP66

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Example

Water Repellent Injected Seal

The Trópico Series enclosure for outdoor and street lighting made of stainless AISI 304L or galvanized and painted steel.

Robust, developed and designed for outdoor; use with an embedded door; triple action above all rotation anti-vandalism handle and waterproof seal approved CE, UL.

Achieves a sealing IP66, and the maximum possible resistance IK10.

Attached selfventilating roof and optional plinth together with embedded door make it vandal proof.

➔ [FOR MORE INFORMATION CLICK HERE](#)



OUTDOOR ENCLOSURE TRÓPICO SERIES IP66

APPLICATIONS

Our outdoor Trópico Series enclosures, have a design, finishing and sealing especially for telecommunications, street lighting, railway lines to hold and protect all electrical and electronic equipment, in the rail sector; urban city cabinets and telecommunications (ICT), TV, RDSI, RT, TB, TLCA.



OPTIONS

- Varying design and painting available on request.
- Plinths at base for enclosures of any size. They allow enclosures to stand above the floor; with extra room for cable entry. Available as 100mm (standard) and 200mm high.
- Manufactured in stainless steel AISI 316L, EN 1.4404.
- Fasteners and widths for ground fixing.
- Graffiti-proof protective paint
- Insulating mounting plate (Bakelite) or in stainless steel.
- EMC version according to EEC 89/336 of electromagnetic compatibility.

ADVANTAGES

- Excellent mechanical properties and high resistance too.
- Water repellent injected seal.
- Automatic condensation evacuation.
- The enclosure includes anti-vandalism locks and handles, adapted for electric and gas company locking systems.
- Maintenance free for life, over 30 years.
- Delvalle makes to order any pre-cut units for your needs, including holes, channels, both in the door and in the enclosure itself.



OPTION SUN REFLECTIVE TREATMENT COATING "SUNTERM" FOR OUTDOOR ELECTRICAL ENCLOSURES

SunTerm treatment coating for use in outdoor electrical enclosures, contain a reflective component that deflects the infrared light, and thus the half of the sun's total energy, from any substrate that it coats.



As a result, the surface of the substrate, and any interior ambient that it protect, are cooler than a standard coating.

As a treatment solution SunTerm also gives you high corrosion resistant for outdoor environments.

Temperature Outdoor Resistant
-40°C +80 °C.

Test under lab controlled conditions showed that the aluminum substrate being coated with SunTerm is 7oC cooler than coated with standard coating inside.

PLACEMENT OF OUTDOOR CABINETS

As can be seen in the picture, as an option, the plinth allows it to be fully fixed to ground movements so avoiding.



Detail of plinths with mounting frame



Detail of inclined plinths with mounting frame

OUTDOOR FINISH ANTIPOSTER

Outdoor cabinet antiposter, specially designed for public lighting, urban furniture, city hall, shopping centers, buildings...

Its design with rumble strips prevents the sticking of posters. It is also aesthetically more elegant

Available in two materials: aluminium and galvanized steel with Epoxy - polyester paint.



Example

OUTDOOR ENCLOSURE TRÓPICO SERIES IP66

DESIGNS



BASIC DESIGN

Single door cabinet with hood, plinths and vents. Especially designed for: public lighting, advertising panels, festivals, christmas lights, and traffic light controls.



2 DOOR DESIGN

Double door design up to IP65, anti-vandal lock and plinths (300mm). Perfect for connection, measurement, controls and protection modules.



3 DOOR DESIGN

Triple door design up to IP65, with anti-vandal locking, side screens and plinths (300mm). Ideal for connection, measurement, controls and protection modules.

DELVALLE DEVELOPS ALL DIFFERENT KINDS OF MODELS TO COVER NEEDS, VARYING IN SIZE AND IN THE NUMBER OF DOORS, BOTH FRONT AND SIDE



VENTILATION KIT

REFERENCE

TR01 AC01

After studying the requirements that our customers demand in ventilation issues, Delvalle includes a kit of accessories consisting of the following elements:

- Roof fan
- Resistance heating
- Dual thermostat



NORMS

- IP66 Norm EN 62208 and EN 60529.
- Maximum IK10 hit resistance Norm IEC 62262.
- IEC 60068-2-30 y IEC 60068-2-11
- Built to CE standard 2006/95/CE.UL Nema 4x, 12, 1, 3r by request. N°File E342220.
- Resistant to impact sharp objects according to EN 60439-5
- Maximum voltage 1000V
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).



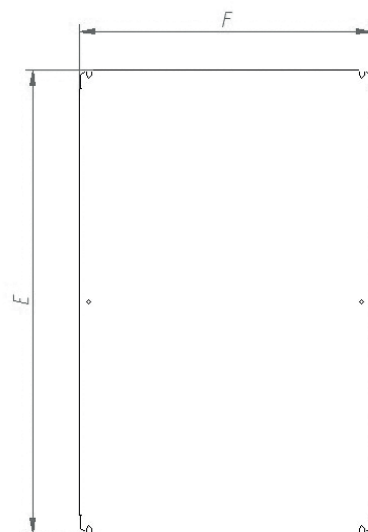
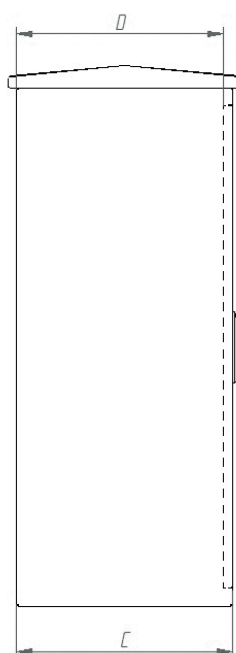
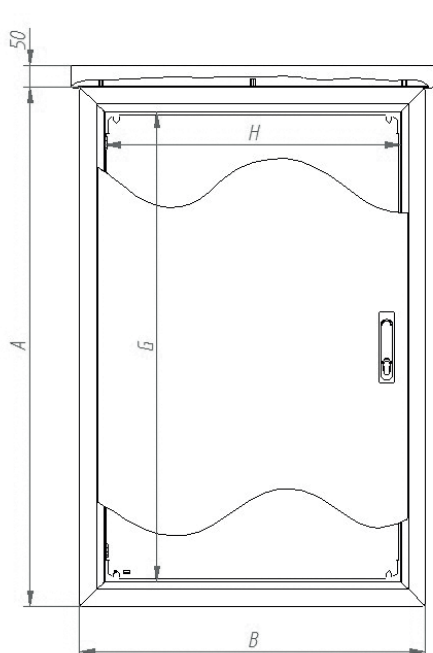
STAINLESS
ANTICORROSIVE
GUARANTEE



MECHANICAL PARTS
GUARANTEE

PLAN

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OUTDOOR ENCLOSURE TRÓPICO SERIES IP66

REFERENCES

REFERENCES	DIMENSIONS (mm)								
REFERENCE	HEIGHT -A-	WIDTH -B-	DEPTH -C-	ACCESS -GxH-	INSIDE DEPTH -D-	MACHINABLE AREA		PLAQUE MEASUREM. -ExF-	DOORS NUMBER
						DOOR	LATERAL		
MVAD106032	1000	600	320	883x483	297,5	858.5x412.8	990 x 310	870 x 475	1
MVAD106040			400		377,5		990 x 390		
MVAD106050			500		477,5		990 x 490		
MVAD126032	1200		320	1083x483	297,5	1058.8x412.8	1190 x 310	1070 x 475	
MVAD126040			400		377,5		1190 x 390		
MVAD126050			500		477,5		1190 x 490		
MVAD108032	1000	800	320	883x683	297,5	800x530	990 x 310	870 x 675	
MVAD108040			400		377,5		990 x 390		
MVAD108050			500		477,5		990 x 490		
MVAD128032	1200		320	1083x683	297,5	1000x530	1190 x 310	1070 x 675	
MVAD128040			400		377,5		1190 x 390		
MVAD128050			500		477,5		1190 x 490		
MVAD121032	1200	1000	320	1083x683	297,5	1058.5 x 322.3 y 1058.5 x 255.8	1190 x 310	1070 x 870	
MVAD121040			400		377,5		1190 x 390		
MVAD121050			500		477,5		1190 x 490		
MVAD101232	1000	1200	320	883x1083	297,5	858.5 x 522.3 y 858.5 x 455.8	990 x 310	870 x 1070	
MVAD101240			400		377,5		990 x 390		
MVAD101250			500		477,5		990 x 490		
MVAD801432	800	1400	320	683x1283	297,5	658.5 x 722.3 y 658.5 x 655.8	790 x 310	670 x 1270	2
MVAD101432	1000		400	883x1283	377,5	858.5 x 722.3 y 858.5 x 655.8	990 x 310	870 x 1270	
MVAD101440			500		477,5		990 x 390		
MVAD101450			500		477,5		990 x 490		
MVAD121432	1200		320	1083x1283	297,5	1058.5 x 722.3 y 1058.5 x 655.8	1190 x 310	1070 x 1270	
MVAD121440			400		377,5		1190 x 390		
MVAD121450			500		477,5		1190 x 490		
MVAD141432	1400		320	1283x1283	297,5	1258.5 x 722.3 y 1258.5 x 655.8	1390 x 310	1270 x 1270	
MVAD141440			400		377,5		1390 x 390		
MVAD141450			500		477,5		1390 x 490		
MVAD121632	1200	1600	320	1083x1483	297,5	1000 x 570 y 1000 x 570	1190 x 310	1070 x 1470	
MVAD121640			400		377,5		1190 x 390		
MVAD121650			500		477,5		1190 x 490		
MVAD161832	1600	1800	320	1483x1883	297,5	1458.5 x 438.1	1590 x 310	1470 x 1670	3
MVAD161840			400		377,5		1590 x 390		
MVAD161850			500		477,5		1590 x 490		
MVAD162050	1800	2000	500	1483x1883	477,5	1458.5 x 504.8	1790 x 490	1470 x 1870	
MVAD182050			500	1683x1883		1658.5 x 504.8	1790 x 490	1670 x 1870	
MVAD222050			500	2083x1883		2058.5 x 504.8	2190 x 490	2070 x 1870	
MVAD122232	1200	2200	320	1083x2083	297,5	1058.5 x 571.4	1190 x 310	1070 x 2070	
MVAD122240			400		377,5		1190 x 390		
MVAD122250			500		477,5		1190 x 490		
MVAD182450	1800	2400	500	1683x2283	477,5	1600 x 555.3	1790 x 490	1670 x 2270	
MVAD202450	2000		500	1883x2283		1800 x 555.3	1990 x 490	1870 x 2270	
MVAD222450	2200		500	2083x2283		2000 x 555.3	2190 x 490	2070 x 2270	

Separation depth plate 30mm



Example

Large Space Inside for Rack Equipments

Cabinet with or without 19" or 21" rack system, especially designed for outdoor use: thermo-insulated and self-cooling double wall for better protection of the electronics, servers, CCTV, telecommunications, voice, data, fibre optics, etc... Ideal for protecting electronic equipment against temperature change. Fitted anti-insect grille to stop flies entering the cabinets.

The interior design allows easy placement of racks, mounting plates, trays, dividers, etc.

Equipped with a removable tray for easy cable entry and hole cutting. Includes socket 100 mm, 19" frame rack, polyester paint finish (RAL 7035) resistant to corrosion and weathering.

Anti-vandalism handle made of black duralumin with a key lock.

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Ideal for outdoor computer placement, weather stations, telecommunications, CTV, ETSI, fibre optics, security and video surveillance, traffic light controls, street lighting or any other application that needs extra outdoor protection.

For outdoor use in areas experiencing extreme temperatures or harsh environments.

TECHNICAL FEATURES

- Material: stainless steel, aluminium or galvanized.
- Rack colour: grey RAL 7035. other colours on request
- Height: from 1185 mm to 1585 mm (other sizes on request)
- Width: 600 mm and 800 mm. (other sizes on request)
- Depth: 600 mm and 800 mm (other sizes on request)
- Rack height: height : 20 u, 25 u and 30 u
- Sealing: from ip43 to ip66
- Packing unit: 1
- Front door: metal with anti-vandalism handle
- Cable entry: from below

ADVANTAGES

- The best system of telecommunication rack cabinets on the market.
- Earthquake and vibration control.
- Thermo insulated and self-cooled.
- Approved water resistant sealing and UL certified, on exterior doors.
- Maximum security against vandalism and lever forced opening.
- Anti-vandalism socket.
- Maximum insulation capacity.
- Especially designed for telecommunications, telephone, fibre optics and public lighting.
- Double thermal proof walls.
- Highly resistant to vandalism.

MATERIALS

- Aluminium Outdoor Rack: Improves cooling and is lighter. (2 mm)
- Galvanized Outdoor Rack: a cheaper alternative.
- Stainless Steel Outdoor Rack: consult details and prices.



OPTIONS

- Delvalle can design a specific solution to the client's requirements while retaining the fundamentals of thermal insulation, sealing, safety and easy installation.
- 19" or 21", depending on rack support position.



OPTION SUN REFLECTIVE TREATMENT COATING "SUNTERM" FOR OUTDOOR ELECTRICAL ENCLOSURES



SunTerm treatment coating for use in outdoor electrical enclosures, contain a reflective component that deflects the infrared light, and thus the half of the sun's total energy, from any substrate that it coats. As a result, the surface of the substrate, and any interior ambient that it protect, are cooler than a standard coating.

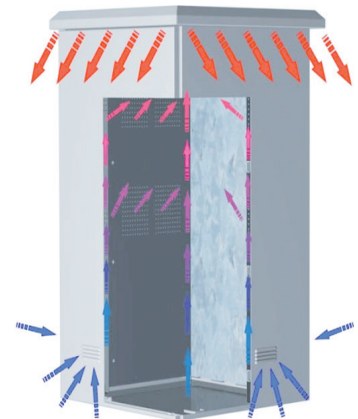
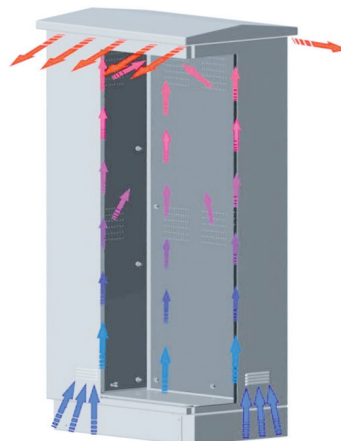
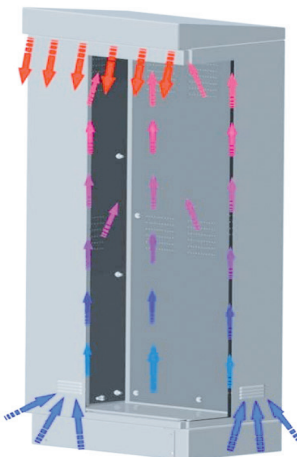
As a treatment solution SunTerm also gives you high corrosion resistant for outdoor environments.

Temperature Outdoor Resistant -40°C +80 °C.

Test under lab controlled conditions showed that the aluminum substrate being coated with SunTerm is 7oC cooler than coated with standard coating inside.

AIR MOVEMENT INSIDE THE CABINET

- Standard front ventilation cabinet
- Cabinet with extra ventilation (front and back)
- Cabinet with extra ventilation (four sides)



OUTDOOR FINISH ANTIPOSTER

Outdoor cabinet antiposter, specially designed for public lighting, urban furniture, city hall, shopping centers, buildings...

Its design with rumble strips prevents the sticking of posters. It is also aesthetically more elegant

Available in two materials: aluminium and galvanized steel with Epoxy - polyester paint.



Example

ACCESSORIES

• Rack suport



The design of our cabinet means 19" or 21" profiles can be fitted inside as well as the desired components.

• Fan



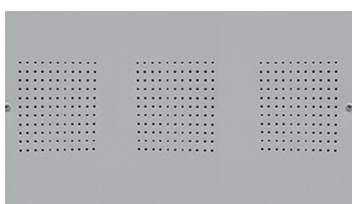
Placing a fan at the top of the cabinet brings a continuous flow of air inside.

• Sockets



The anti-vandalism socket, especially designed for this model, prevents access to the cabinet and robbery.

• Diffusers



For a perfectly controlled circulation of air inside, both walls and doors incorporate diffusers.

• Roof



With three models of roof we cover all needs to achieve air evacuation, from a simple front, front and rear and finally one from all four sides.

• Brackets



Simple side brackets, coupled with an anti-insect screen, allows the entry of air and prevents the passage of anything larger than 1mm²

TR01 AC01	Ventilation Kit	MVRACM	Heaters (Up to 2000 W). Contact us for further information.
MVV01	Widthr frame base	MVC11	Safety closure "Temper"
MVC1	Handle	MVDT01	Tamper detector
MVSR	Trays	CONSULTAR	Canopies with extra ventilation
MVRT01	Door stop	TRÓPICO SERIES	Air-conditioning (recommended to obtain a constant temperature)

VENTILATION KIT

REFERENCE

TR01 AC01

After studying the requirements that our customers demand in ventilation issues, Delvalle includes a kit of accessories consisting of the following elements:

- Roof fan
- Resistance heating
- Dual thermostat



NORMS

- From IP43 to IP66 . Norm IEC EN 62208 and EN 60529/10.91.
 - IP43 with ventilation brackets
 - IP54 with vent grille
 - IP66 without ventilation
- 2006/95/CE. EN 50102
- Maximum voltage 1000V
- Certificat UL Nema 4, 12, 1, 3r á la demande. N°File E342220.
- EN61969-3 Mechanical Structures for Electronic Equipment and Outdoor Enclosures.
- UL Nema 4x, 12, 1, 3r by request. N° File E342220.
- Several options in roof ventilation. 200 mm plinth at base.
- Possibility of including air conditioning equipment attached to one side or the roof.
- Can also be supplied without a frame rack but with trays.
- Handle with locking system. Available with 1 or 2 doors.
- The tray can includes micro cuts for later placement of different options.


10
YEARS

STAINLESS
ANTICORROSIVE
GUARANTEE

5
YEARS

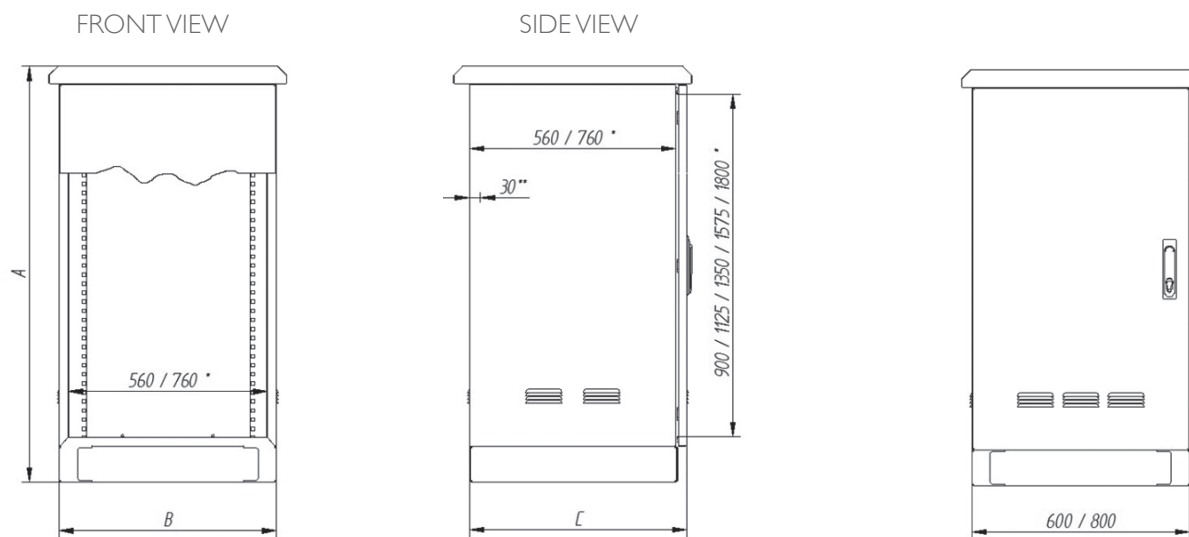
MECHANICAL PARTS
GUARANTEE

OUTDOOR RACK WITH DOUBLE WALL TORNADO SERIES IP66

ONE DOOR

PLAN

➔ [CLICK HERE TO DOWNLOAD THE FILES CAD - PLANS - CERTIFICATES](#)



*Internal dimensions

**Internal dimensions for two door cabinets

REFERENCES

REFERENCES - MATERIALS			DIMENSIONS (mm)						
STAINLESS	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)	DOUBLE DOOR MACHINABLE AREA	LATERAL MACHINABLE AREA	PLATE MEASURES
TRI16080	TRALI16080	TRGI16080	TORNADO 20 U	1185	600	800	905x430	925x715	965x530
TRI16060	TRALI16060	TRGI16060	TORNADO 20 U	1185	600	600	905x430	925x515	965x530
TRI18080	TRALI18080	TRGI18080	TORNADO 20 U	1185	800	800	905x630	925x715	965x730
TRI18060	TRALI18060	TRGI18060	TORNADO 20 U	1185	800	600	905x630	925x515	965x730
TRI36080	TRALI36080	TRGI36080	TORNADO 25 U	1385	600	800	1105x430	1125x715	1165x530
TRI36060	TRALI36060	TRGI36060	TORNADO 25 U	1385	600	600	1105x430	1125x515	1165x530
TRI38080	TRALI38080	TRGI38080	TORNADO 25 U	1385	800	800	1105x630	1125x715	1165x730
TRI38060	TRALI38060	TRGI38060	TORNADO 25 U	1385	800	600	1105x630	1125x515	1165x730
TRI56080	TRALI56080	TRGI56080	TORNADO 30 U	1585	600	800	1305x430	1325x715	1165x730
TRI56060	TRALI56060	TRGI56060	TORNADO 30 U	1585	600	600	1305x430	1325x515	1165x730
TRI58080	TRALI58080	TRGI58080	TORNADO 30 U	1585	800	800	1305x630	1325x715	1365x530
TRI58060	TRALI58060	TRGI58060	TORNADO 30 U	1585	800	600	1305x630	1325x515	1365x530
TRI86080	TRALI86080	TRGI86080	TORNADO 35 U	1885	600	800	1555x430	1575x715	1615x530
TRI86060	TRALI86060	TRGI86060	TORNADO 35 U	1885	600	600	1555x430	1575x515	1615x530
TRI88080	TRALI88080	TRGI88080	TORNADO 35 U	1885	800	800	1555x630	1575x715	1615x730
TRI88060	TRALI88060	TRGI88060	TORNADO 35 U	1885	800	600	1555x630	1575x515	1615x730
TR206080	TRAL206080	TRG206080	TORNADO 40 U	2060	600	800	1780x430	1800x715	1840x530
TR206060	TRAL206060	TRG206060	TORNADO 40 U	2060	600	600	1780x430	1800x515	1840x530
TR208080	TRAL208080	TRG208080	TORNADO 40 U	2060	800	800	1780x630	1800x715	1840x730
TR208060	TRAL208060	TRG208060	TORNADO 40 U	2060	800	600	1780x630	1800x515	1840x730
Version Norme UL			Add "UL" to reference. Ex: "TR208080UL"						
Version Rear Door			Add code letter P to reference. Ex: "TR208080P"						

Separation depth plate 20mm

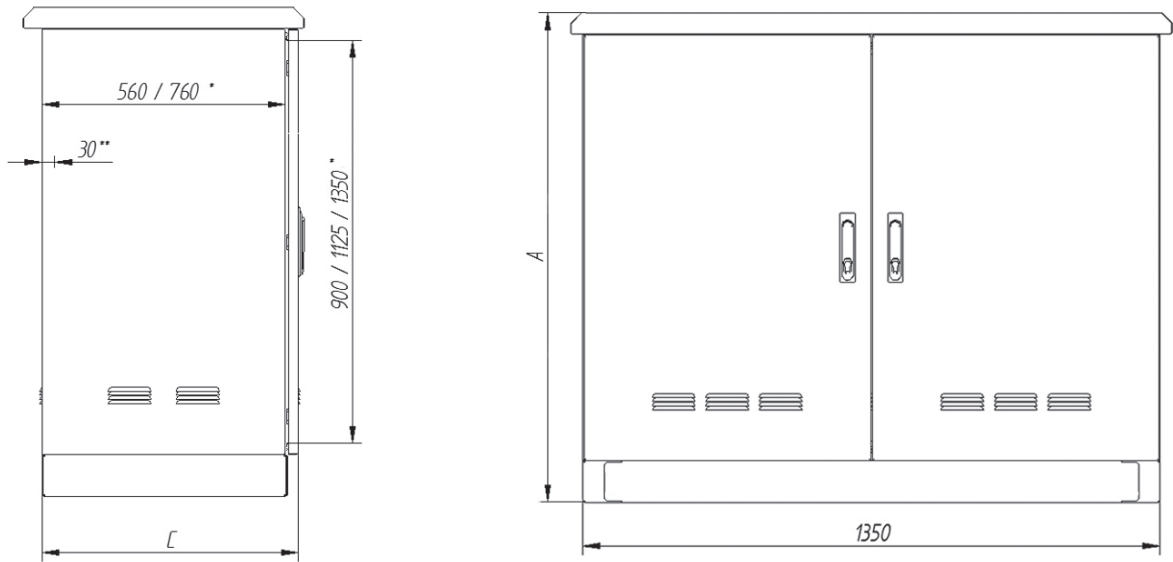
TORNADO SERIES IP66 OUTDOOR RACK WITH DOUBLE WALL

TWO DOORS

PLAN

➔ [CLICK HERE TO DOWNLOAD THE FILES CAD - PLANS - CERTIFICATES](#)

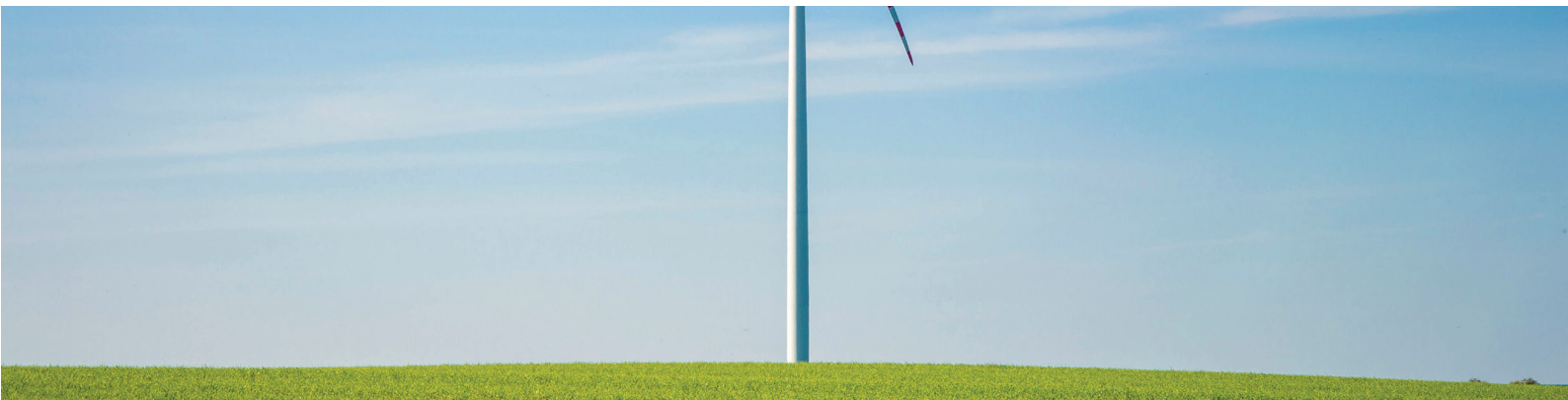
SIDE VIEW



REFERENCES

REFERENCES - MATERIALS			DIMENSIONS (mm)			
STAINLESS	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)
TRI11380D	TRALI11380D	TRGI11380D	20 U	1160	1350	800
TRI11360D	TRALI11360D	TRGI11360D				600
TRI31380D	TRALI31380D	TRGI31380D	25 U	1385		800
TRI31360D	TRALI31360D	TRGI31360D				600
TRI61380D	TRALI61380D	TRGI61380D	30 U	1610		800
TRI61360D	TRALI61360D	TRGI61360D				600
TRI81380D	TRALI81380D	TRGI81380D	35 U	1835		800
TRI81360D	TRALI81360D	TRGI81360D				600

* Standard dimensions (any rack can be custom made to meet needs)



OUTDOOR ENCLOSURES IN DESERT AREAS **DESERT SERIES** IP66



Examples



Waterproof and Auto-Refrigerated.
Protect from the Solar Rays
the Enclosure Inside without
Increasing the Temperature

Desert enclosure has been designed to outdoor in desert areas, and/or when we need a protection inside enclosure against solar rays of this way, we reduce the inside temperature of the cabinet up to 50%.

The Desert enclosure reduces by up to 90% of direct solar radiation, lengthening and protecting the lifetime of your electronics components. Doesn't require refrigeration, reducing the power consumption, reducing the maintenance of equipment and diminish considerably the operator's repair and spare parts costs.

Besides, its innovative design enables obtained a natural airflow in all surfaces of enclosure without additional fans.

➔ [FOR MORE INFORMATION CLICK HERE](#)



DESERT SERIES IP66 OUTDOOR ENCLOSURES IN DESERT AREAS

APPLICATIONS

Specially designed for outdoor desert areas with high incidence of solar light.

- Desert zones.
- Railway lines.
- Harbor areas
- Agricultural areas.

TECHNICAL FEATURES

Robust enclosure manufactured in galvanized Steel painted in 7035 or AISI304L.

Manufactured in monobloc gives 100% sealing and maximum corrosive resistance. Suitable for harsh environments.

Designed with sunshades in all surfaces to avoid the direct solar radiation.



OPTIONS

- Option sun reflective treatment coating "Sunterm" for outdoor electrical enclosures.
- Possibility of two doors.
- Three materials:
 - Galvanized Steel painted in RAL 7035.
 - In AISI304 or AISI316L for aggressive environments.
 - Aluminum in enclosures needs more internal cooling.
- Wide range of accessories, plinth, Wall supports, roofs, etc.
- Custom made based on your needs.
- Door stopper.
- Safety lock, with key, etc.
- Thermal studies are carried out on request.

ADVANTAGES

- Suitable for desert areas or areas with high solar radiation.
- Protected against dust, sand and inclement weather.
- Doesn't require refrigeration nor ventilation.
- Reduces by up to 90% of direct solar radiation
- Waterproof IP66, inside is protected of dust, rain, etc.
- Free maintenance.

DESERT LUXOR DESIGNS



DESIGN IP66
Single door enclosure.



DESIGN IP66
Double door design with upright.



DESIGN IP55
Double door design without upright.



DELVALLE
DEVELOPS ALL
DIFFERENT KINDS
OF MODELS TO
COVER NEEDS



DESERT SERIES IP66 OUTDOOR ENCLOSURES IN DESERT AREAS

DESERT TRIBECA DESIGNS



DESIGN IP66
Single door enclosure.



DESIGN IP66
Double door design with upright.



DESIGN IP55
Double door design without upright.



**DELVALLE
DEVELOPS ALL
DIFFERENT KINDS
OF MODELS TO
COVER NEEDS**

REGULATIONS

- IP66, Norm IEC 60529-2004
- IK10, Norm IEC 62262-2002
- En 61969-3 Mechanical Structures for Electronic Equipment – outdoor enclosure-
- IEC 60068-2-30 y IEC 60068-2-11.
- Built to CE Standards. 2014/35/UE.
- UL approval. N°File E342220.
- Shock resistant against sharp objects EN 60439-5.
- Maximum voltage 1000 V.
- Temperatur resistant: -40°C +100°C (Short time +160°C).
- Fixing equipment DIN 41494 and IEC 297 to 19-inch rack.
- Fixing equipment IEC 917 (to ETSI or Metric 515mm).
- Electromagnetic compatibility EMC and RFI (IP55).
- Electromagnetic protection IEC TS 61587-3. (IP55)

OUTDOOR ENCLOSURES IN DESERT AREAS

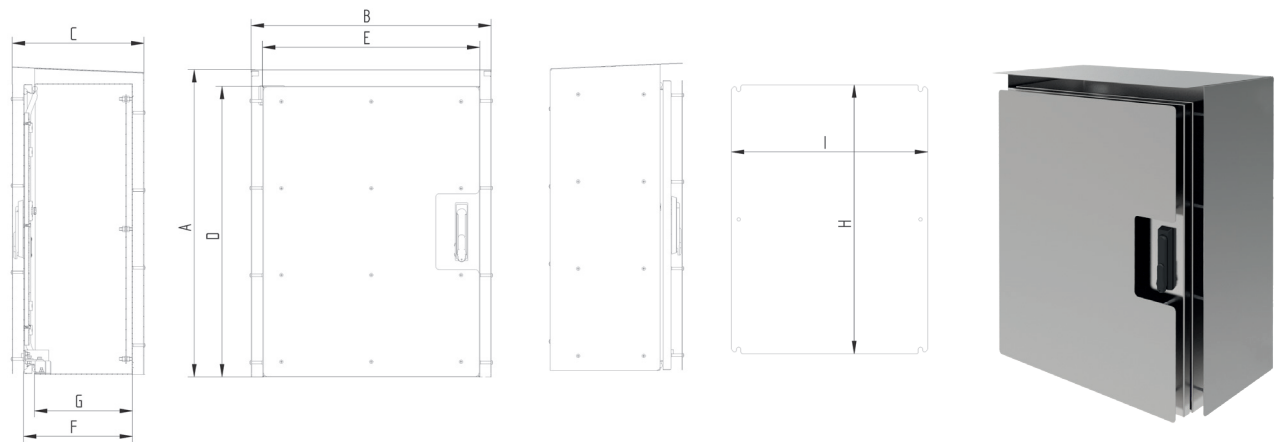
DESERT SERIES

IP66

ONE DOOR DESERT LUXOR

PLAN

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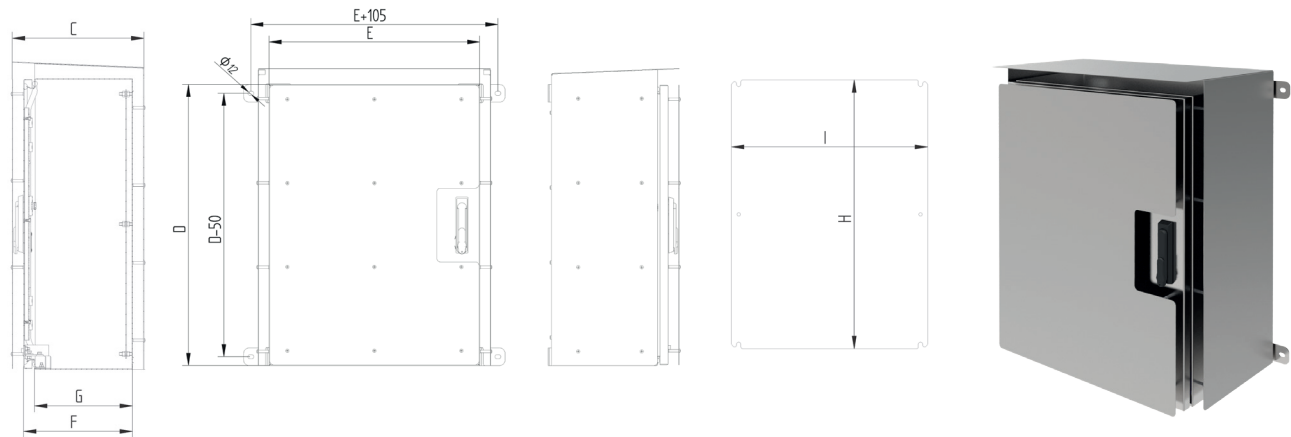


REFERENCES

REFERENCE	DIMENSIONS (mm)								
ONE DOOR DESERT LUXOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	INSIDE HEIGHT -D-	INSIDE WIDTH -E-	INSIDE DEPTH -F-	ACCESS	INSIDE USEFUL DEPTH -G-	PLAQUE MEASUREM. -HxI-
MVAB645627SOL	645	563	273	600	500	210	560x453	180	565x445
MVAB646627SOL	645	663	273	600	600	210	560x553	180	565x545
MVAB846636SOL	845	663	363	800	600	300	760x553	270	765x545
MVAB848636SOL	845	863	363	800	800	300	760x753	270	765x745
MVABI08636SOL	1045	863	363	1000	800	300	960x753	270	965x745
MVABI28636SOL	1245	863	363	1200	800	300	1160x753	270	1165x745
MVABI01036SOL	1045	1063	363	1000	1000	300	960x953	270	965x945
MVABI21036SOL	1245	1063	363	1200	1000	300	1160x953	270	1165x945
MVABI21236SOL	1245	1263	363	1200	1200	300	1160x1153	270	1165x1145
MVABI01236SOL	1045	1263	363	1000	1200	300	960x1153	270	965x1145

PLAN WITH WALL MOUNTING BRACKETS

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THE FILES CAD - PLANS - CERTIFICATES



DESERT SERIES IP66 OUTDOOR ENCLOSURES IN DESERT AREAS

TWO DOORS DESERT LUXOR



DESIGN IP55

CUSTOM
TO MEASURE

5
YEARS

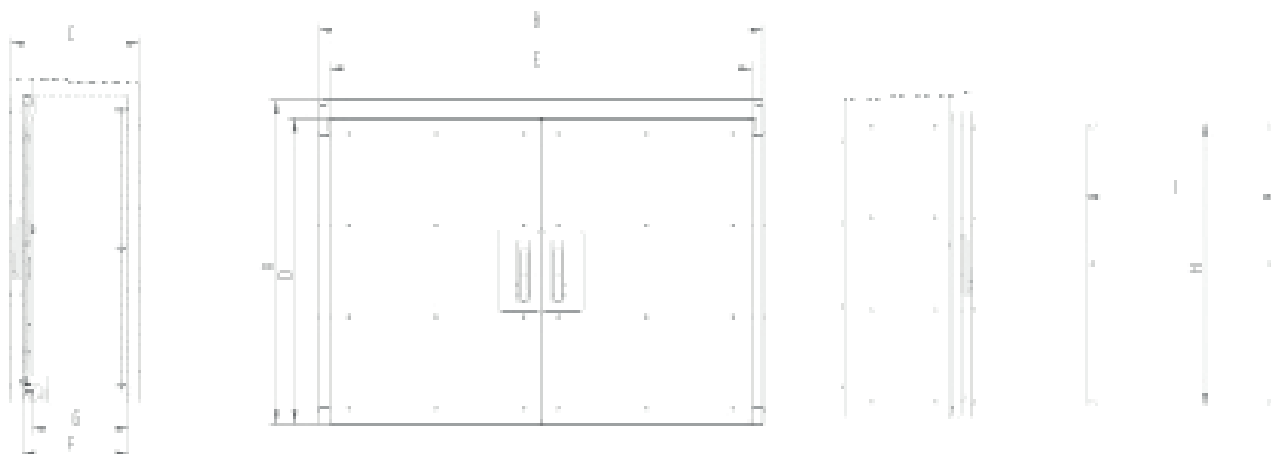
MECHANICAL PARTS
GUARANTEE



DESIGN IP66

PLAN

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REFERENCES

REFERENCE	DIMENSIONS (mm)								
TWO DOORS DESERT LUXOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	INSIDE HEIGHT -D-	INSIDE WIDTH -E-	INSIDE DEPTH -F-	ACCESS	INSIDE USEFUL DEPTH -G-	*PLAQUES MEASUREMENT -HxI-
MVAB846636DSOL	845	663	363	800	600	300	746x246	270	740x240
MVAB848636DSOL	845	863	363	800	800	300	746x346	270	740x340
MVAB108636DSOL	1045	863	363	1000	800	300	946x346	270	940x340
MVAB128636DSOL	1245	863	363	1200	800	300	1146x346	270	1140x340
MVAB101036DSOL	1045	1063	363	1000	1000	300	946x446	270	940x440
MVAB121036DSOL	1245	1063	363	1200	1000	300	1146x446	270	1140x440
MVAB121236DSOL	1245	1263	363	1200	1200	300	1146x546	270	1140x540
Option: IP66	Add "66" to the reference. Ex. "MVAB121236DSOL66"								

* Enclosure with two plaques

OUTDOOR ENCLOSURES IN DESERT AREAS **DESERT SERIES** IP66

ONE DOOR DESERT TRIBECA



CUSTOM
TO MEASURE

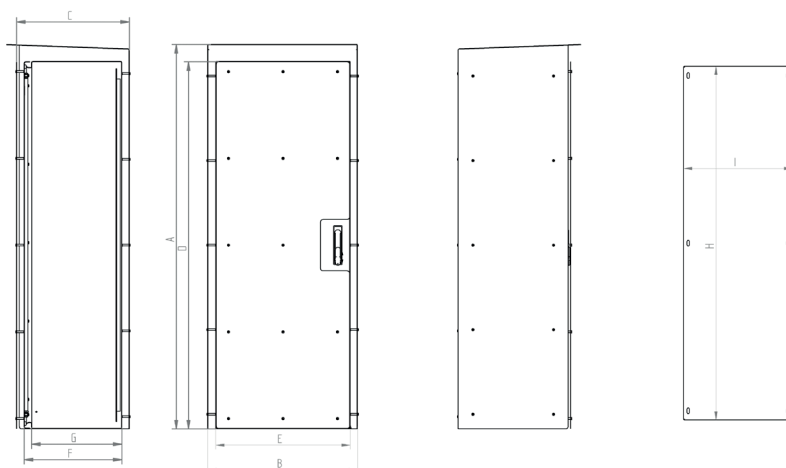
5
YEARS

MECHANICAL PARTS
GUARANTEE



PLAN ONE DOOR

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REFERENCES

REFERENCE	DIMENSIONS (mm)								
ONE DOOR DESERT TRIBECA	HEIGHT -A-	WIDTH -B-	DEPTH -C-	INSIDE HEIGHT -D-	INSIDE WIDTH -E-	INSIDE DEPTH -F-	ACCESS	INSIDE USEFUL DEPTH -G-	PLAQUE MEASUREMENT -HxI-
MVACI76646SOL	1700	663	463	1650	600	400	1540x490	375	1520x470
MVACI78646SOL	1700	863	463	1650	800	400	1540x690	375	1520x670
MVACI71046SOL	1700	1063	463	1650	1000	400	1540x890	375	1520x870
MVACI71246SOL	1700	1263	463	1650	1200	400	1540x1090	375	1520x1070
MVACI86646SOL	1850	663	463	1800	600	400	1690x490	375	1670x470
MVACI88646SOL	1850	863	463	1800	800	400	1690x690	375	1670x670
MVACI88656SOL	1850	863	563	1800	800	500	1690x690	475	1670x670
MVACI81046SOL	1850	1063	463	1800	1000	400	1690x890	375	1670x870
MVACI81056SOL	1850	1063	563	1800	1000	500	1690x890	475	1670x870
MVAC206656SOL	2050	663	563	2000	600	500	1890x490	475	1870x470
MVAC208646SOL	2050	863	463	2000	800	400	1890x690	375	1870x670
MVAC208656SOL	2050	863	563	2000	800	500	1890x690	475	1870x670
MVAC201046SOL	2050	1063	463	2000	1000	400	1890x890	375	1870x870
MVAC201056SOL	2050	1063	563	2000	1000	500	1890x890	475	1870x870

DESERT SERIES IP66 OUTDOOR ENCLOSURES IN DESERT AREAS

TWO DOORS DESERT TRIBECA



DESIGN IP55

CUSTOM
TO MEASURE

5
YEARS

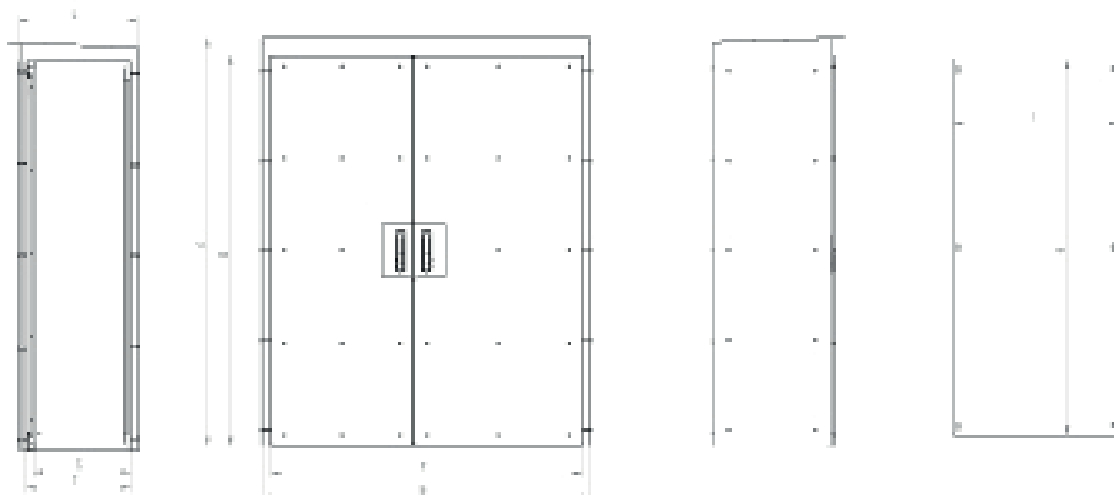
MECHANICAL PARTS
GUARANTEE



DESIGN IP66

PLAN TWO DOORS

➔ [CLICK HERE TO DOWNLOAD
THE FILES CAD - PLANS - CERTIFICATES](#)



REFERENCES

REFERENCE	DIMENSIONS (mm)								
TWO DOORS DESERT TRIBECA	HEIGHT -A-	WIDTH -B-	DEPTH -C-	INSIDE HEIGHT -D-	INSIDE WIDTH -E-	INSIDE DEPTH -F-	ACCESS	INSIDE USEFUL DEPTH -G-	*PLAQUE MEASUREMENT -HxI-
MVAC181246SOL	1850	1263	463	1800	1200	400	1690x490	375	1670x470
MVAC181256SOL	1850	1263	563	1800	1200	500	1690x490	475	1670x470
MVAC201246SOL	2050	1263	463	2000	1200	400	1890x490	375	1870x470
MVAC201256SOL	2050	1263	563	2000	1200	500	1890x490	475	1870x470
MVAC201446SOL	2050	1463	463	2000	1400	400	1890x590	375	1870x570
MVAC201456SOL	2050	1463	563	2000	1400	500	1890x590	475	1870x570
MVAC201646SOL	2050	1663	463	2000	1600	400	1890x690	375	1870x670
MVAC201656SOL	2050	1663	563	2000	1600	500	1890x690	475	1870x670
Option: IP66	Add "66" to the reference. Ex. "MVAC201656SOL66"								

* Enclosure with two plaques



Examples



Large Space Inside for Rack Equipments

EMC enclosures with an EPDM conductive gasket between frame and contact surface, ensure a perfect electrical connection and superior shielding.

It meets all standards required to ensure total safety in electrical installations. Furthermore each component has passed tests carried out under extreme conditions.

Features improved design and materials, robustness, easy opening, smooth-turning lock, flexibility, maximum door opening (up to 120°),

maximum working width for your assemblies, easily dismountable, unique features for great performance and highly polished surface. We recommend plinths at base for cable entry in Tribeca.

Maintenance free for life over 30 years.

Specially designed for urban and interurban areas, roads or highways.

Especially designed for telecommunications, railway signals, air traffic signals, medical and military industries or where extra protection against electromagnetic interference is needed.

Very good mechanical properties and high resistance to shape distortion, with water repellent injected seal.

The enclosure includes anti-vandalism locks and handles suitable for semi-cylindrical profile locks.

Delvalle can adapt this design to the measurements required by the client, retaining the fundamentals of insulation, sealing and safety.

Strength, durability and long life. High resistance to vandalism.

➔ [FOR MORE INFORMATION CLICK HERE](#)

APPLICATIONS

Especially designed for telecommunications, railway signals, air traffic signals, medical and military industries or where extra protection against electromagnetic interference is needed.

Outdoor placement:

- Areas with extreme temperatures or harsh environments
- Arid tropics, high mountain.

ADVANTAGES

- Very good mechanical properties and high resistance to shape distortion.
- With water repellent injected seal.
- Door retained with stoppers.
- The enclosure includes anti-vandalism locks and handles suitable for semi-cylindrical profile locks.
- Maintenance free for life over 30 years.
- Delvalle can adapt this design to the measurements required by the client, retaining the fundamentals of insulation, sealing and safety.
- Strength, durability and long life.
- High resistance to vandalism.
- Specially designed for urban and interurban areas, roads or highways.
- High resistance to corrosion and wear.
- Large space inside for Rack equipments.
- Two versions: galvanized steel and painted galvanized steel.

MATERIALS

- Aluminium Outdoor Rack: Improves cooling and is lighter (2 mm).
- Galvanized Outdoor Rack: a cheaper alternative.
- Stainless Steel Outdoor Rack: consult details and prices.

OPTIONS

- Delvalle can design a specific solution to the client's requirements while retaining the fundamentals of thermal insulation, sealing, safety and easy installation.
- 19" or 21", depending on rack support position.
- Ventilation KIT: fan, dual thermostat and resistance heater.
- Several options in roof ventilation.
- 200 mm plinth at base.
- Possibility of including air conditioning equipment attached to one side or the roof.
- Can also be supplied without a frame rack but with trays.
- Handle with locking system.
- Available with 1 or 2 doors.
- Full range of accessories available.
- Degree of protection: up to IP66.
- The tray can include micro cuts for later placement of different options.

FEATURES EMC

- EMC joint EPDM conductive coated with Cu and Sn and 60 shore hardness
- Electromagnetically protected.
- Delivery with protective film that prevents scratches and abrasions during handling.
- Compact design offering complete protection and resistance to impact.
- With drainage channels which prevents liquid contact with the EPDM gasket and with concealed hinges.
- Delvalle can make any size to suit to your needs.
- Meets EMC, RFI and EMI standards

NORM

- From IP43 to IP66 . Norm IEC EN 62208 and EN 60529/10.91.
 - IP43 with ventilation brackets
 - IP54 with vent grille
 - IP66 without ventilation
- EN61969-3 Mechanical Structures for Electronic Equipment and Outdoor Enclosures.
- 2006/95/CE - EN 50102 - Max. voltage 1000V
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).
- UL Nema 4x, 12, 1, 3r by request. N°File E342220.

ACCESORIES

- Rack suport



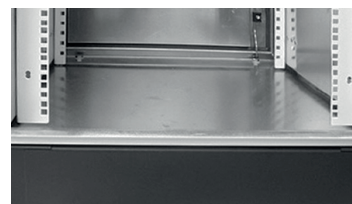
The design of our cabinet means 19" or 21" profiles can be fitted inside as well as the desired components.

- Fan



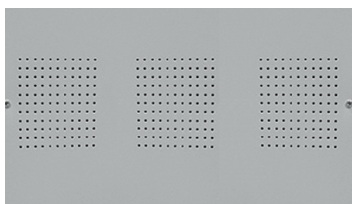
Placing a fan at the top of the cabinet brings a continuous flow of air inside.

- Sockets



The anti-vandalism socket, especially designed for this model, prevents access to the cabinet and robbery.

- Diffusers



For a perfectly controlled circulation of air inside, both walls and doors incorporate diffusers.

- Roof



With three models of roof we cover all needs to achieve air evacuation, from a simple front, front and rear and finally one from all four sides.

- Brackets



Simple side brackets, coupled with an anti-insect screen, allows the entry of air and prevents the passage of anything larger than 1mm²

TR01 AC01	Ventilation Kit	MVRACM	Heaters (Up to 2000 W). Contact us for further information.
MVV01	Widthr frame base	MVC11	Safety closure "Temper"
MVC1	Handle	MVDT01	Tamper detector
MVSR	Trays	CONSULTAR	Canopies with extra ventilation
MVRT01	Door stop	TRÓPICO SERIES	Air-conditioning (recommended to obtain a constant temperature)

ELECTROMAGNETIC COMPATIBILITY

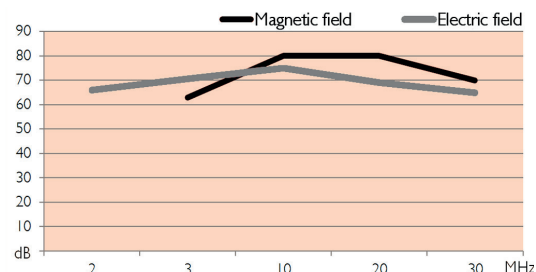
Electromagnetic Compatibility is defined in the EMC Directive as “the ability of equipments to function satisfactorily in a electromagnetic environment without introducing intolerable electromagnetic disturbances to other equipment in the same environment,” and covers two basic principles:

- Not to disturb the other equipment and not to emit disturbances above a given level (this is called “disturbance emission”).
- Not to be disturbed by other equipment with a sufficient level of protection so as not to be disturbed easily (this is called “disturbance immunity”).

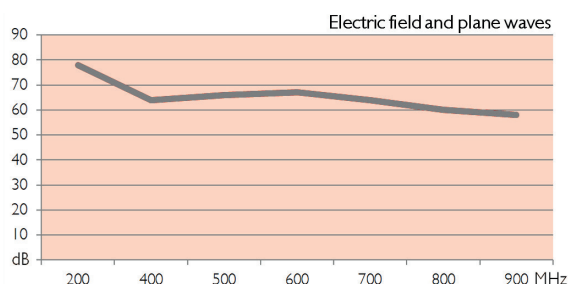
Electric, magnetic and electromagnetic fields are everywhere. Also around enclosures and boxes: They are mostly conventional electromagnetic fields such as grid connection lines, signal and control lines, and electrical and electronic modules which radiate electromagnetic fields. Delvalle electrical enclosures gives the protection needed for conventional electromagnetic fields. However, for some intense electromagnetic fields like microwaves, EDM facilities by arc, HF welding technique... it is necessary to create a complete screening effect. So we have created our line of EMC solutions Delvalle (enclosures, ventilation, air conditioning and accessories).

EFFECTIVENESS OF SCREENING IN EMC DELVALLE ENCLOSURES

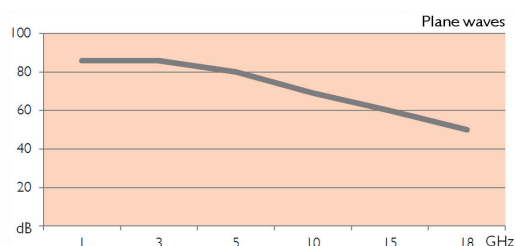
FREQUENCY	MAGNETICFIELD	ELECTRIC FIELD
2 MHz	--	66 dB
3 MHz	63 dB	--
10 MHz	80 dB	75 dB
20 MHz	80 dB	69 dB
30 MHz	70 dB	65 dB



FREQUENCY	ELECTRIC FIELD AND PLANE WAVES
200 MHz	78 dB
400 MHz	64 dB
500 MHz	66 dB
600 MHz	67 dB
700 MHz	64 dB
800 MHz	60 dB
900 MHz	58 dB



FREQUENCY	PLANE WAVES
1 GHz	86 dB
3 GHz	86 dB
5 GHz	80 dB
10 GHz	69 dB
15 GHz	60 dB
18 GHz	50 dB



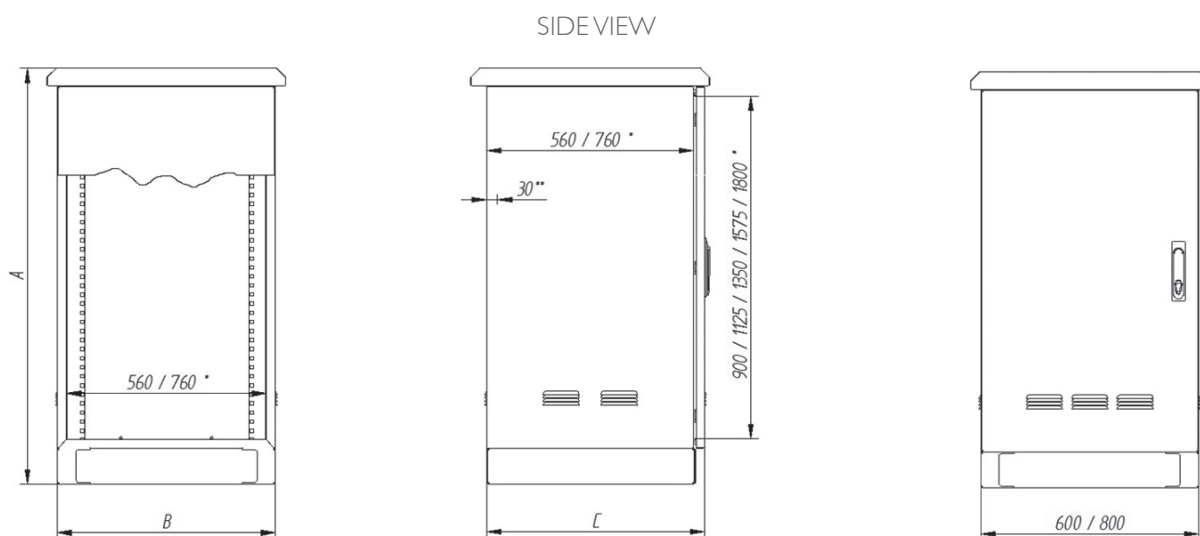
RACK DE INTEMPERIE SERIE TORNADO EMC IP55

ONE DOOR



PLAN

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*Internal dimensions

**Internal dimensions for two door cabinets

REFERENCES

REFERENCES - MATERIALS			DIMENSIONS (mm)						
STAINLESS	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)	DOUBLE DOOR MACHINABLE AREA	LATERAL MACHINABLE AREA	PLATE MEASURES
TRI16080M	TRALI16080M	TRGI16080M	TORNADO 20 U	1185	600	800	905x430	925x715	965x530
TRI16060M	TRALI16060M	TRGI16060M	TORNADO 20 U	1185	600	600	905x430	925x515	965x530
TRI18080M	TRALI18080M	TRGI18080M	TORNADO 20 U	1185	800	800	905x630	925x715	965x730
TRI18060M	TRALI18060M	TRGI18060M	TORNADO 20 U	1185	800	600	905x630	925x515	965x730
TRI36080M	TRALI36080M	TRGI36080M	TORNADO 25 U	1385	600	800	1105x430	1125x715	1165x530
TRI36060M	TRALI36060M	TRGI36060M	TORNADO 25 U	1385	600	600	1105x430	1125x515	1165x530
TRI38080M	TRALI38080M	TRGI38080M	TORNADO 25 U	1385	800	800	1105x630	1125x715	1165x730
TRI38060M	TRALI38060M	TRGI38060M	TORNADO 25 U	1385	800	600	1105x630	1125x515	1165x730
TRI56080M	TRALI56080M	TRGI56080M	TORNADO 30 U	1585	600	800	1305x430	1325x715	1165x730
TRI56060M	TRALI56060M	TRGI56060M	TORNADO 30 U	1585	600	600	1305x430	1325x515	1165x730
TRI58080M	TRALI58080M	TRGI58080M	TORNADO 30 U	1585	800	800	1305x630	1325x715	1365x530
TRI58060M	TRALI58060M	TRGI58060M	TORNADO 30 U	1585	800	600	1305x630	1325x515	1365x530
TRI86080M	TRALI86080M	TRGI86080M	TORNADO 30 U	1885	600	800	1555x430	1575x715	1615x530
TRI86060M	TRALI86060M	TRGI86060M	TORNADO 30 U	1885	600	600	1555x430	1575x515	1615x530
TRI88080M	TRALI88080M	TRGI88080M	TORNADO 35 U	1885	800	800	1555x630	1575x715	1615x730
TRI88060M	TRALI88060M	TRGI88060M	TORNADO 35 U	1885	800	600	1555x630	1575x515	1615x730
TR206080M	TRAL206080M	TRG206080M	TORNADO 40 U	2060	600	800	1780x430	1800x715	1840x530
TR206060M	TRAL206060M	TRG206060M	TORNADO 40 U	2060	600	600	1780x430	1800x515	1840x530
TR208080M	TRAL208080M	TRG208080M	TORNADO 40 U	2060	800	800	1780x630	1800x715	1840x730
TR208060M	TRAL208060M	TRG208060M	TORNADO 40 U	2060	800	600	1780x630	1800x515	1840x730
Version Norme UL			Add "UL" to reference. Ex: "TRI16080UL"						
Version Rear Door			Add code letter P to reference. Ex: "TRI16080P"						

Separation depth plate 30mm

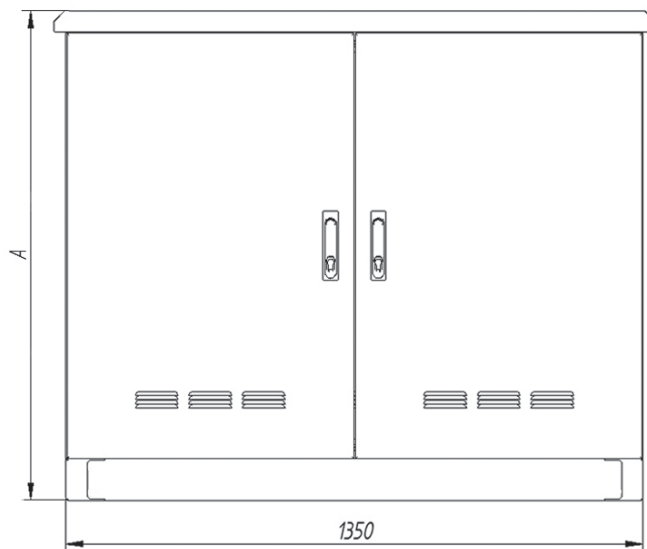
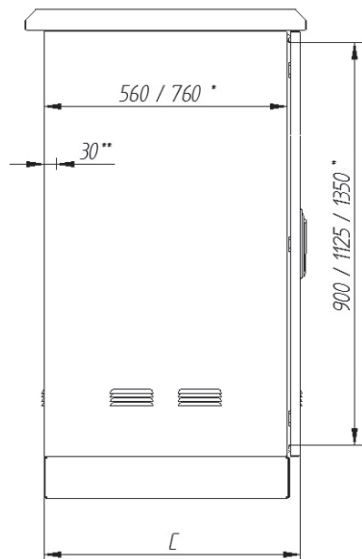
SERIE TORNADO EMC IP55 RACK DE INTEMPERIE

TWO DOORS

PLAN

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SIDE VIEW



REFERENCES

REFERENCES - MATERIALS			DIMENSIONS (mm)			
STAINLESS	ALUMINIUM	GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)
TRI11380DM	TRALI11380DM	TRGI11380DM	20 U	1160	1350	800
TRI11360DM	TRALI11360DM	TRGI11360DM				600
TRI131380DM	TRALI131380DM	TRGI131380DM	25 U	1385		800
TRI131360DM	TRALI131360DM	TRGI131360DM				600
TRI161380DM	TRALI161380DM	TRGI161380DM	30 U	1610		800
TRI161360DM	TRALI161360DM	TRGI161360DM				600
TRI181380DM	TRALI181380DM	TRGI181380DM	35 U	1835		800
TRI181360DM	TRALI181360DM	TRGI181360DM				600

* Standard dimensions (any rack can be custom made to meet needs)





The Manufacture of the Stainless Steel Monobloc Gives 100% Sealing and Maximum Resistance

The painted galvanized steel enclosures Luxor Series, are characterized by its robust design and surface finish in RAL 7035. Easy opening with chrome closures, smoothly turning, maximum flexibility and opening doors (up to 120°) with stainless steel hinges. Maximum Operating amplitude for the mounting and easily removable.

It has all the necessary measures to ensure their safety in electrical installations in outdoor facilities approvals.

Example

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Specially designed for outdoor environments where weather conditions are bad, such as the maritime sector, or for street lighting applications or services on railway lines, given its advantages of durability and strength.

CHARACTERISTICS

- The manufacture of the stainless steel monobloc gives 100% sealing and maximum resistance.
- With flushing channel that avoids any contact with liquids, polyurethane joints and hidden hinges.
- The standard control panel comes with stainless steel double-bit locking handles.
- Delvalle supplies any measurements required including custom built holes and cut outs both for the door and enclosure.
- Approved for outdoor installations.
- Stainless steel hinges.
- Wide range of accessories.
- Galvanized steel painted RAL 7035.

NORMS

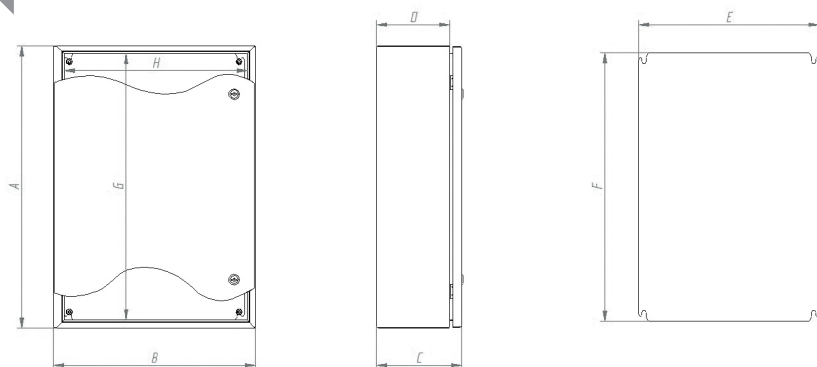
- IEC 60529 norm. IP66 degree.
- UL approval Nema 1, 3r, 4 and 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 resistance.
- 2006/95/CE Directive. Low voltage ruling.
- IEC 62208 norm.
- Maximum voltage 1000 V.



OPTIONS

- Custom made based on your needs.
- Possibility of two doors.
- 170° hinge that allows maximum opening for easy access to the cabinet without removing the door.
- Socles.
- Metal legs.
- Wall support (not included in the standard model).
- Transparent polycarbonate door.
- Transparent safety glass door.
- Mounting plate insulation (bakelite) or stainless steel.
- EMC version according to EEC 89/336 of electromagnetic compatibility.
- Switchboard graffiti-proof paint.

PLAN



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MECHANICAL PARTS
GUARANTEE

REFERENCES 1 DOOR

REFERENCES			DIMENSIONS (mm)									
BLIND DOOR (x)	POLYCARBONATE DOOR	POLYCARBONATE DOOR + INSIDE DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	ACCESS -GxH-	INSIDE DEPTH -D-	MACHINABLE AREA		PLAQUE MEASUREM. -ExF-	WEIGHT (Kg)	VOL. (m3)
								DOOR	LATERAL			
MVGB302015	MVGB302015T	MVGB302015TC	300	200	155	260 x 153	125	220 x 76	270 x 125	265 x 145	4,65	0,01
MVGB383015	MVGB383015T	MVGB383015TC	380	300	155	340 x 253	125	300 x 176	350 x 125	345 x 245	7,68	0,02
MVGB383021	MVGB383021T	MVGB383021TC	380	300	210	340 x 253	180	300 x 176	350 x 180	345 x 245	8,57	0,03
MVGB404021	MVGB404021T	MVGB404021TC	400	400	210	360 x 353	180	320 x 276	370 x 180	365 x 345	11,12	0,04
MVGB504021	MVGB504021T	MVGB504021TC	500	400	210	460 x 353	180	420 x 276	470 x 180	465 x 345	13,51	0,05
MVGB505021	MVGB505021T	MVGB505021TC	500	500	210	460 x 453	180	420 x 376	470 x 180	465 x 445	16,2	0,06
MVGB604021	MVGB604021T	MVGB604021TC	700	500	210	660 x 453	180	620 x 376	670 x 180	665 x 445	21,55	0,08
MVGB605021	MVGB605021T	MVGB605021TC	600	400	210	560 x 353	180	520 x 276	570 x 180	565 x 345	15,74	0,06
MVGB606021	MVGB606021T	MVGB606021TC	600	500	210	560 x 453	180	520 x 376	570 x 180	565 x 445	18,88	0,07
MVGB606030	MVGB606030T	MVGB606030TC	600	600	210	560 x 553	180	520 x 476	570 x 180	565 x 545	22	0,08
MVGB705021	MVGB705021T	MVGB705021TC	800	600	300	760 x 553	270	720 x 476	770 x 270	765 x 545	31,35	0,16
MVGB806030	MVGB806030T	MVGB806030TC	800	800	300	760 x 753	270	720 x 676	770 x 270	765 x 745	41,5	0,21
MVGB808030	MVGB808030T	MVGB808030TC	1000	800	300	960 x 753	270	920 x 676	970 x 270	965 x 745	50,69	0,26
MVGB108030	MVGB108030T	MVGB108030TC	1200	800	300	1160 x 753	270	1120 x 676	1170 x 270	1165 x 745	59,47	0,31
MVGB101030	MVGB101030T	MVGB101030TC	1000	1000	300	960 x 953	270	920 x 876	970 x 270	965 x 945	61,17	0,32
*MVGC128030	MVGC128030T	MVGC128030TC	1200	1000	300	1090 x 890	275	1000 x 800	1190 x 265	1070 x 870	78,82	0,46
*MVGC121030	MVGC121030T	MVGC121030TC	1000	1200	300	890 x 1090	275	800 x 1000	990 x 265	870 x 1070	78,76	0,39
*MVGC121230	MVGC121230T	MVGC121230TC	1200	1200	300	1000 x 1000	275	1000 x 1000	1190 x 265	1070 x 1070	92,09	0,39
Version Norme UL Nema 4, 12, 3r and I.			Add "UL" to reference. Ex. "MVAB302015UL"									

*Tribeca Design

Separation plaque fund 20mm

REFERENCES 2 DOORS

REFERENCES		DIMENSIONS (mm)							
2 BLIND DOORS (x)	HEIGHT -A-	WIDTH -B-	DEPTH -C-	ACCESS -GxH-	INSIDE DEPTH -D-	MACHINABLE AREA		PLAQUE MEASUREM -ExF-	
						DOOR	LATERAL		
MVGB806030D	800	600	300	746 x 546	270	720x217.5 y 720x173.5	720x240	740 x 540	
MVGB808030D	800	800	300	746 x 746		720x317.5 y 720x273.5	720x240	740 x 740	
MVGB108030D	1000	800	300	946 x 746		920x317.5 y 920x273.5	970x240	940 x 740	
MVGB128030D	1200	800	300	1146 x 746		1120x317.5 y 1120x273.5	1170x240	1140 x 740	
MVGB101030D	1000	1000	300	946 x 946		920x417.5 y 920x373.5	970x240	940 x 940	
MVGB121030D	1200	1000	300	1146 x 946		1120x617.5 y 1120x573.5	1170x240	1140 x 940	
MVGB121230D	1200	1200	300	1146 x 1146		1120x717.5 y 1120x673.5	1170x240	1140 x 1140	
Option: Polycarbonate door				Add "T" to reference. Ex. "MVAB806030DT"					
Option: Polycarbonate door + Inside door				Add "TC" to reference. Ex. "MVAB806030DTC"					
Version Norme UL Nema 4, 12, 3r and I.				Add "UL" to reference. Ex. "MVAB302015UL"					
Option: IP66				Add "66" to reference. Ex. "MVAB806030D66"					

Separation plaque fund 20mm



Example

**The Manufacture
of the Stainless Steel
Monobloc Allows Sealing
and Maximum Resistance**

The painted galvanized steel enclosures Tribeca Series are rugged, easy opening by rotary and four locking points, smoothly opening by hinges in stainless steel, ease of placement on the floor itself, flexibility and range of maximum operating handle for your assembly, and a unique design painted galvanized steel RAL 7035. Available in one or two 120° revolving doors easily removable. We recommend grommet socket. Chrome closures.

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Specially designed for outdoor installations where superior quality and durability needed. Approved for the food industry, electrical panel, chemical, pharmaceutical, maritime, telecommunications and outdoor general, given the advantages of durability and strength.

CHARACTERISTICS

- The manufacture of the stainless steel monobloc allows sealing and maximum resistance.
- A drainage channel prevents liquid contact with the polyurethane gasket and with concealed hinges.
- 120° door opening. Standard opening to the left, specify whether you want to the right.
- Delvalle made to order in any size to suit your needs and all drilling holes, both for the door and the enclosure included.
- Distributed load 600 kg.
- Approved for outdoor installations.
- Stainless steel hinges.
- 100% galvanized steel painted RAL 7035.
- Wide range of models available.

OPTIONS

- Custom made based on your needs. With a choice of two doors.
- Switchboard graffiti-proof pain.
- Socles.
- Castors.
- Metal legs.
- Clear polycarbonate door.
- Transparent safety glass door.
- EMC version according to EEC 89/336 of electromagnetic compatibility.

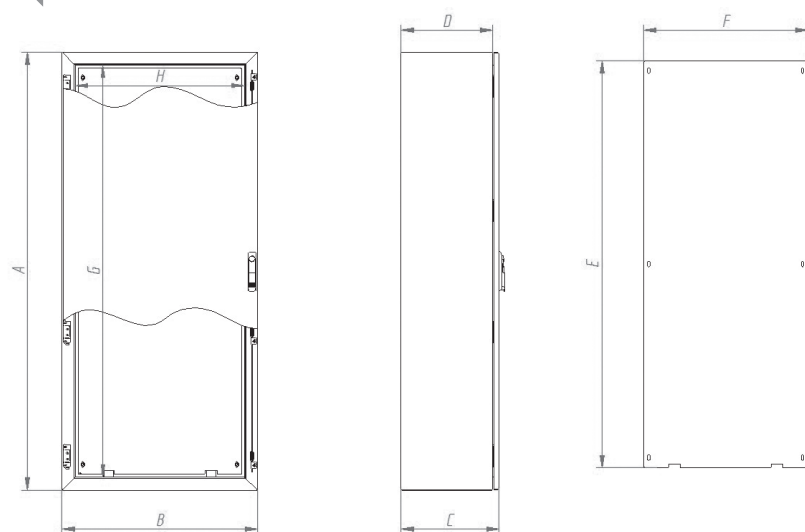
NORMS

- IEC 60529 norm. IP65 (IP55 two doors). Up to IP66 by request.
- UL approval Nema 1, 3r, 4, 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 resistance.
- 2006/95/CE directive. Low voltage ruling directive.
- CE 1935/2004 norm. Materials intended to come into contact with food. Maximum voltage 1000V. Temperature resistant: -40°C +100°C (short time +160°C). Option silicone gasket: from -60°C to +180°C (short time up to +350°C).



PLAN

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5
YEARS
MECHANICAL PARTS
GUARANTEE

REFERENCES 1 DOOR

REFERENCES							
BLIND DOOR	POLYCARBONATE DOOR	POLYCARBONATE DOOR + INSIDE DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	WEIGHT (Kg)	VOL. (m³)
MVGC166040	MVGC166040T	MVGC166040TC	1650	600	400	70,9	0,42
MVGC168040	MVGC168040T	MVGC168040TC		800		93,25	0,56
MVGC161040	MVGC161040T	MVGC161040TC		1000		111,3	0,70
MVGC186040	MVGC186040T	MVGC186040TC	1800	600	400	76,61	0,46
MVGC188040	MVGC188040T	MVGC188040TC		800		100,76	0,61
MVGC186050	MVGC186050T	MVGC186050TC		600	500	84,69	0,57
MVGC188050	MVGC188050T	MVGC188050TC	1800	800		107,21	0,76
MVGC181040	MVGC181040T	MVGC181040TC		1000	400	120,24	0,76
MVGC181050	MVGC181050T	MVGC181050TC			500	127,18	0,95
MVGC206040	MVGC206040T	MVGC206040TC	2000	600	400	84,68	0,51
MVGC208040	MVGC208040T	MVGC208040TC		800	400	111,19	0,68
MVGC208050	MVGC208050T	MVGC208050TC			500	118,13	0,85
MVGC201040	MVGC201040T	MVGC201040TC		1000	400	132,58	0,85
MVGC201050	MVGC201050T	MVGC201050TC			500	140	1,05

*Ask for minimum order

Separation plaque fund 20mm

REFERENCES 2 DOORS

REFERENCES							
BLIND DOOR	POLYCARBONATE DOOR	POLYCARBONATE DOOR + INSIDE DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	WEIGHT (Kg)	VOL. (m³)
MVGC161240	MVGC161240T	MVGC161240TC	1650	1200	400	129,33	0,84
MVGC181240	MVGC181240T	MVGC181240TC	1800			139,7	0,91
MVGC181250	MVGC181250T	MVGC181250TC			500	147,12	1,14
MVGC201240	MVGC201240T	MVGC201240TC	2000		400	149,61	1,02
MVGC201250	MVGC201250T	MVGC201250TC			500	157,51	1,26
MVGC201440	MVGC201440T	MVGC201440TC		1400	400	169,38	1,18
MVGC201450	MVGC201450T	MVGC201450TC			500	177,76	1,49
MVGC201640	MVGC201640T	MVGC201640TC		1600	400	189,12	1,35
MVGC201650	MVGC201650T	MVGC201650TC	500		197,99	1,68	

*Ask for minimum order

Separation plaque fund 20mm



Example

Standard with Chrome Fasteners and Stainless Steel Hinges

The painted galvanized steel enclosures TITÁN Series are modular, fully customizable, flexible environments for food industries, petrochemical, pharmaceutical, power; which need a presence, hygiene, sealing and longer service life.

The doors are hinged and easily removable with a 120 ° opening, side, rear and top and bottom are removable by screws. Finished in RAL 7035, chrome fasteners and stainless steel hinges.

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Specially designed for outdoor installations. Due to its versatility it can be placed in the food, pharmaceutical, where hygiene is essential, as in petrochemicals, power, where the sealing is critical and industrial environments in general.

CHARACTERISTICS

- Broad assembly area and great accessibility.
- Endless choices, modules and measurements.
- Welded body, which gives it great strength.
- Side rear, top and bottom panels, easily removable.
- Door opens to 120°.
- Standard with chrome fasteners and stainless steel hinges.
- Perfect sealing thanks to gaskets used in the joints.
- Delvalle supplies any measurements required including custom built holes and cut outs both for the door and enclosure.
- Distributed load 1000 kg.
- Painted galvanized steel RAL 7035.
- Approved for outdoor installations.
- Welded structure.
- Stainless steel hinges.
- Chrome closures.

OPTIONS

- Custom made based on your needs. With the possibility to join several modules.
- Switchboard graffiti-proof pain.
- Socles. Swing rack. All types of ventilation.
- Eyebolt (not included in standard model).
- Cable entry cover at base.
- Metal legs and wheels.
- Transparent polycarbonate door, with tempered glass or with safety glass.
- Mounting plate insulator (Bakelite) or painted steel.
- EMC version according to EEC 89/336 of electromagnetic compatibility.

NORMS

- IEC 60529 norm. IP55 and up to IP66 by request.
- UL approval Nema 1, 3r, 4 y 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 resistance.
- 2006/95/CE directive. Low voltage ruling directive.
- Maximum voltage 1000V
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).

REFERENCES I DOOR

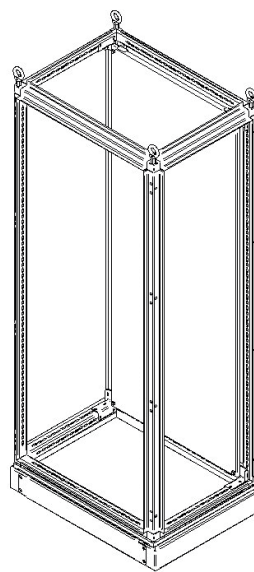
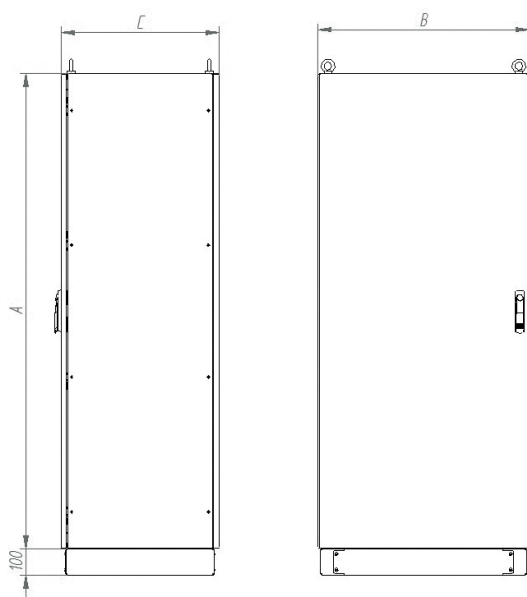
REFERENCES		DIMENSIONS (mm)				
BLIND DOOR	TRANSPARENT DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	WEIGHT (Kg)	VOLUME (m³)
AMCG126040	AMCG126040T	1200	600	400	79,75	0,31
AMCG126060	AMCG126060T			600	91,51	0,46
AMCG126080	AMCG126080T			800	107,1	0,61
AMCG128040	AMCG128040T		800	400	98,23	0,41
AMCG128060	AMCG128060T			600	110,97	0,61
AMCG128080	AMCG128080T			800	127,51	0,81
AMCG146040	AMCG146040T	1400	600	400	87,81	0,36
AMCG146060	AMCG146060T			600	101	0,53
AMCG146080	AMCG146080T			800	118,01	0,71
AMCG148040	AMCG148040T		800	400	112,63	0,48
AMCG148060	AMCG148060T			600	123,12	0,71
AMCG148080	AMCG148080T			800	141,09	0,94
AMCG166040	AMCG166040T	1600	600	400	98,14	0,41
AMCG166060	AMCG166060T			600	111,41	0,61
AMCG166080	AMCG166080T			800	129,82	0,81
AMCG168040	AMCG168040T		800	400	121,01	0,55
AMCG168060	AMCG168060T			600	135,25	0,81
AMCG168080	AMCG168080T			800	154,61	1,07
AMCG161040	AMCG161040T		1000	400	139,78	0,68
AMCG161060	AMCG161060T			600	154,98	1,01
AMCG161080	AMCG161080T			800	175,31	1,34
AMCG161240	AMCG161240T		1200	400	158,53	0,81
AMCG161260	AMCG161260T			600	174,69	1,21
AMCG161280	AMCG161280T			800	195,98	1,60
AMCG186040	AMCG186040T	1800	600	400	106,65	0,46
AMCG186050	AMCG186050T			500	113,98	0,57
AMCG186060	AMCG186060T			600	121,32	0,69
AMCG186080	AMCG186080T			800	141,16	0,91
AMCG188040	AMCG188040T		800	400	131,75	0,61
AMCG188050	AMCG188050T			500	139,56	0,76
AMCG188060	AMCG188060T			600	147,38	0,91
AMCG188080	AMCG188080T			800	168,19	1,21
AMCG181040	AMCG181040T		1000	400	139,78	0,68
AMCG181050	AMCG181050T			500	160,56	0,95
AMCG181060	AMCG181060T			600	168,86	1,13
AMCG181080	AMCG181080T			800	190,63	1,50
AMCG181240	AMCG181240T		1200	400	172,76	0,91
AMCG181250	AMCG181250T			500	181,53	1,14
AMCG181260	AMCG181260T			600	190,31	1,36
AMCG181280	AMCG181280T			800	213,05	1,80
AMCG206040	AMCG206040T	2000	600	400	116,39	0,51
AMCG206050	AMCG206050T			500	124,2	0,64
AMCG206060	AMCG206060T			600	132,02	0,76
AMCG206080	AMCG206080T			800	153,28	1,01
AMCG208040	AMCG208040T		800	400	143,7	0,68
AMCG208050	AMCG208050T			500	152	0,85
AMCG208060	AMCG208060T			600	160,28	1,01
AMCG208080	AMCG208080T			800	182,51	1,34
AMCG208010	AMCG208010T		1000	100	199,58	1,67
AMCG201040	AMCG201040T			400	165,96	0,85
AMCG201050	AMCG201050T			500	174,73	1,05
AMCG201060	AMCG201060T			600	183,52	1,26
AMCG201080	AMCG201080T	2200	600	800	206,7	1,67
AMCG226060	AMCG226060T			600	141,93	0,84
AMCG226080	AMCG226080T			800	164,63	1,11
AMCG228060	AMCG228060T		800	800	172,38	1,11
AMCG228080	AMCG228080T			800	196,04	1,47
AMCG221060	AMCG221060T		1000	600	197,36	1,38
AMCG221080	AMCG221080T			800	221,97	1,83

Separation plaque fund 20mm

TITÁN SERIES IP55 IP66 MODULAR PAINTED GALVANIZED STEEL ENCLOSURE

PLAN

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REFERENCES 2 DOORS

REFERENCES		DIMENSIONS (mm)				
BLIND DOOR	TRANSPARENT DOOR	HEIGHT -A-	WIDTH -B-	DEPTH -C-	WEIGHT (Kg)	VOLUME (m³)
AMCG181050/2	AMCG181050/2T	1800	1000	500	166,76	0,95
AMCG181060/2	AMCG181060/2T			600	175,26	1,13
AMCG201040/2	AMCG201040/2T			400	165,96	0,85
AMCG201050/2	AMCG201050/2T	2000	1200	500	174,73	1,05
AMCG201240/2	AMCG201240/2T			400	195,03	1,02
AMCG201250/2	AMCG201250/2T			500	204,48	1,26
AMCG201260/2	AMCG201260/2T			600	213,94	1,51
AMCG201280/2	AMCG201280/2T			800	238,49	1,99
AMCG221260/2	AMCG221260/2T	2200	1000	600	229,97	1,65
AMCG221280/2	AMCG221280/2T			800	255,95	2,19
AMCG221080/2	AMCG221080/2T			800	229,84	1,83

Separation plaque fund 20mm





Example

Perfect Sealing Gaskets Used by the Joints

The painted galvanized steel junction boxes Geo are tight, elegant and functional, made of galvanized steel painted RAL 7035. Available with blind or machine lid, specially designed for the placement of buttons, button.

The lid is secured by means of stainless steel screws easy placement, which are embedded without projecting from the front of the box.

➔ [FOR MORE INFORMATION CLICK HERE](#)

APPLICATIONS

Specially designed and approved for outdoor installations, transformers, telecommunications and outdoors because of its advantages of durability and resistance to chemical agents.

OPTIONS

- Custom made based on your needs.
- Metal legs. Unloosable screws.
- Switchboard graffiti-proof pain.
- Transparent polycarbonate door or with tempered glass.
- EMC version according to EEC 89/336 of electromagnetic compatibility.

CHARACTERISTICS

- Unlimited options.
- The manufacture monobloc allows sealing and ensures maximum resistance.
- Perfect sealing gaskets used by the joints.
- Delvalle supplies any measurements required including custom built holes and cut outs both for the door and enclosure.
- Approved for outdoor installations.
- Special customized solutions.
- Galvanized steel painted RAL 7035.
- Unloosable screws in stainless steel.

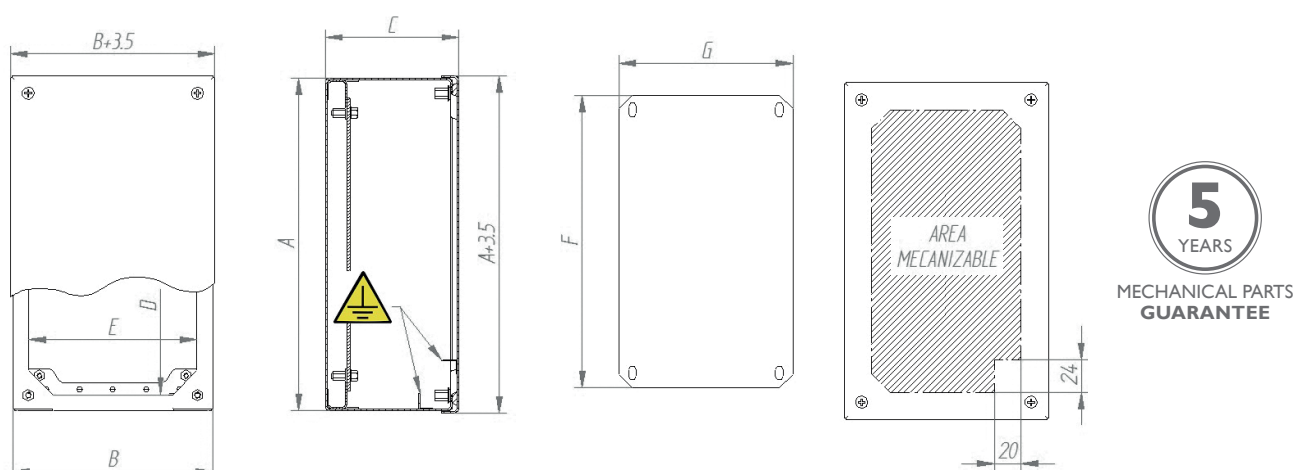
GEO SERIES IP66 PAINTED GALVANIZED STEEL JUNCTION BOXES

NORMS

- IEC 60529 norm. IP66 degree.
- UL approval Nema 1, 3r, 4, 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 resistance.
- 2006/95/CE directive. Low voltage ruling directive.
- Maximum voltage 1000 V.
- Temperature resistant: -40°C + 100°C (short time + 160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).

PLAN

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REFERENCES

REFERENCES							
BLIND COVER	PERFORATED COVER	HOLES N°	HEIGHT -A-	WIDTH -B-	DEPTH -C-	WEIGHT (kg)	VOLUME (m³)
MVCBG909080	MVCBG909080P	1	90	90	80	0,68	0,001
MVCBG101612	MVCBG101612P	2	100	160	120	0,92	0,001
MVCBG149080	MVCBG149080P	3	140	90	80	1,2	0,002
MVCBG161612	MVCBG161612P	4	160	160	120	1,75	0,004
MVCBG209080	MVCBG209080P	3	200	90	80	1,29	0,003
MVCBG202012	MVCBG202012P	4	200	200	120	1,81	0,004
MVCBG202515	MVCBG202515P	6	200	250	150	2,53	0,006
MVCBG203015	MVCBG203015P	12	200	300	150	3,25	0,009
MVCBG252515	MVCBG252515P	16	250	250	150	3,87	0,012
MVCBG269012	MVCBG269012P	15	260	90	120	3,75	0,011
MVCBG303015	MVCBG303015P	25	300	300	150	5,16	0,016
MVCBG304015	MVCBG304015P	35	300	400	150	6,64	0,022
MVCBG404015	MVCBG404015P	49	400	400	150	8,41	0,028

*Ask for minimum order

Separation plaque fund 20mm



Example

Stainless Steel Hinges

Trópico Series are manufactured from galvanized steel painted RAL 7035 are developed and designed for outdoor use, with recessed door closing vandal triple action rotary knob. Also get a water-resistant to IP66 (IP23 with ventilation gills) and the highest possible resistance IK10.

Self-ventilated hood and optionally engages socket, not forgetting the high resistance of inlaid doors, so it is designed against vandalism.

➔ [FOR MORE INFORMATION CLICK HERE](#)

APPLICATIONS

Our painted galvanized steel outdoor enclosures Trópico Series' finish and seal are specially designed for outdoor telecommunications, lighting, auxiliary services on railway lines, as well as to house, with all reliability, protection of electrical equipment and electronic, in the railway sector; urban built and telecommunications (ICT), TV, ISDN, RT, TB, TLCA.

OPTIONS

- Plinths at base for enclosures of any size. They allow enclosures to stand above the floor, with extra room for cable entry. Available as 100mm and 200mm high.
- Fasteners and widthers for ground fixing.
- Graffiti-proof protective paint.
- EMC version according to EEC 89/336 of electromagnetic compatibility.

CHARACTERISTICS

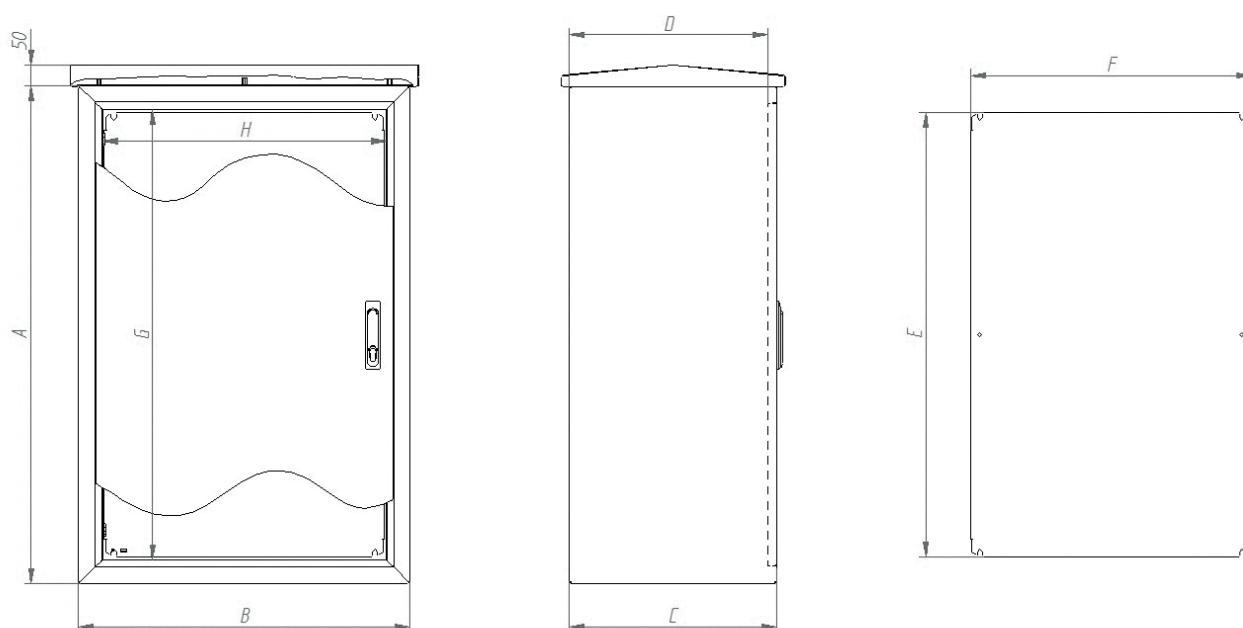
- Automatic condensation evacuation.
- The enclosure includes anti-vandalism locks and handles, adapted for electric and gas company locking systems.
- Chrome plated locks and hinges in stainless.
- Delvalle makes to order any pre-cut units for your needs, including holes, channels, both in the door and in the enclosure itself.
- 100% painted galvanized steel RAL 7035.
- Stainless steel hinges.
- Approved for outdoor public lighting installations outdoors.
- Wide range of accessories.

NORMS

- EN 62208 and EN 60529 norms. IP66 degree.
- UL approval Nema 1, 3r, 4 y 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 hit resistance.
- IEC 60068-2-30 and IEC 60068-2-11 norms.
- 2006/95/CE directive.
- EN 60439-5 norm. Resistant to impact sharp objects.
- Maximum voltage 1000 V.
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).

PLAN

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REFERENCES

REFERENCES									
REFERENCES	HEIGHT -A-	WIDTH -B-	DEPTH -C-	ACCESS -GxH-	INSIDE DEPTH -D-	MACHINABLE AREA		PLAQUE MEAUREM. -ExF-	DOORS Nº
						DOOR	LATERAL		
MVHD106032	1000	600	320	883x483	297,5	858.5 x 412.8	990 x 310	870 x 475	1
MVHD106040			400		377,5		990 x 390		
MVHD106050			500		477,5		990 x 490		
MVHD126032	1200		320	1083x483	297,5	1058.8 x 412.8	1190 x 310	1070 x 475	
MVHD126040			400		377,5		1190 x 390		
MVHD126050			500		477,5		1190 x 490		
MVHD108032	1000	800	320	883x683	297,5	800 x 530	990 x 310	870 x 675	
MVHD108040			400		377,5		990 x 390		
MVHD108050			500		477,5		990 x 490		
MVHD128032	1200		320	1083x683	297,5	1000x530	1190 x 310	1070 x 675	
MVHD128040			400		377,5		1190 x 390		
MVHD128050			500		477,5		1190 x 490		
MVHD121032		1000	320	1083x683	297,5	1058.5 x 322.3 y 1058.5 x 255.8	1190 x 310	1070 x 870	
MVHD121040			400		377,5		1190 x 390		
MVHD121050			500		477,5		1190 x 490		
MVHD101232	1000	1200	320	883x1083	297,5	858.5 x 522.3 y 858.5 x 455.8	990 x 310	870 x 1070	
MVHD101240			400		377,5		990 x 390		
MVHD101250			500		477,5		990 x 490		
MVHD801432	800	1400	320	683x1283	297,5	658.5 x 722.3 y 658.5 x 655.8	790 x 310	670 x 1270	2
MVHD101432	1000			400	883x1283	377,5	858.5 x 722.3 y 858.5 x 655.8	990 x 310	
MVHD101440			990 x 390						
MVHD101450			500	477,5				990 x 490	
MVHD121432	1200		320	1083x1283	297,5	1058.5 x 722.3 y 1058.5 x 655.8	1190 x 310	1070 x 1270	
MVHD121440			400		377,5		1190 x 390		
MVHD121450			500		477,5		1190 x 490		
MVHD141432	1400		320	1283x1283	297,5	1258.5 x 722.3 y 1258.5 x 655.8	1390 x 310	1270 x 1270	
MVHD141440			400		377,5		1390 x 390		
MVHD141450			500		477,5		1390 x 490		
MVHD121632	1200	1600	320	1083x1483	297,5	1000 x 570 y 1000 x 570	1190 x 310	1070 x 1470	
MVHD121640			400		377,5		1190 x 390		
MVHD121650			500		477,5		1190 x 490		
MVHD161832	1600	1800	320	1483x1883	297,5	1458.5 x 438.1	1590 x 310	1470 x 1670	3
MVHD161840			400		377,5		1590 x 390		
MVHD161850			500		477,5		1590 x 490		
MVHD162050	1483x1883	1458.5 x 504.8							
MVHD182050	1683x1883	1658.5 x 504.8		1790 x 490		1670 x 1870			
MVHD222050	2200	2083x1883	2058.5 x 504.8	2190 x 490	2070 x 1870				
MVHD121657	1200	2200	320	1083x2083	297,5	1058.5 x 571.4	1190 x 310	1070 x 2070	
MVHD121658			400		377,5		1190 x 390		
MVHD121659			500		477,5		1190 x 490		
MVHD121660	1800	1683x2283		1600 x 555.3		1790 x 490	1670 x 2270		
MVHD121661	2000	1883x2283		1800 x 555.3		1990 x 490	1870 x 2270		
MVHD121662	2200		2083x2283		2000 x 555.3	2190 x 490	2070 x 2270		

*Ask for minimum order

Separation plaque fund 20mm



Example

The Best System of Telecommunication Rack Cabinets on the Market

Tornado Series specially designed for outdoor weather system: heat insulated double wall, autoventilated for better protection of electronics, servers, CCTV, telecommunications, voice, data, fiber optic, etc.. Ideal to protect electronic equipment against temperature changes.

Incorporates anti insect mesh to prevent entry of the same to the inside of the closet where the teams stand.

The interior design allows for easy placement of racks, mounting plates, trays, separators, etc.

Provided with removable gland tray for easy machining holes. Includes socket 100 mm, rack 19" rack, galvanized steel painted RAL 7035. Vandal black handle made of duralumin with key lock.

➔ [FOR MORE INFORMATION CLICK HERE](#)

APPLICATIONS

Ideal for placing computers outside, weather stations, telephony, CCTV, ETSI, fiber optics, security and video surveillance, lighting,

telecommunications, signaling and traffic control or any other application that needs extra protection and is housed in outside.

CHARACTERISTICS

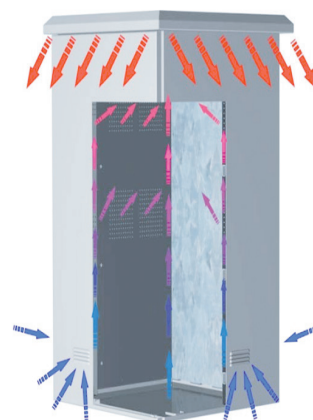
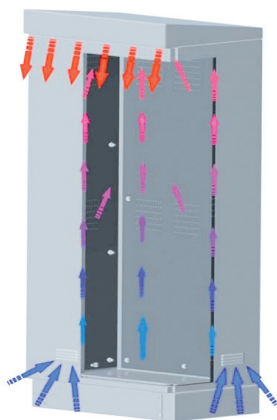
- The best system of telecommunication rack cabinets on the market.
- Earthquake and vibration control.
- Thermo insulated and self-cooled.
- Approved water resistant sealing and UL certified, on exterior doors.
- Anti-vandalism socket.
- Maximum security against vandalism and lever forced opening.
- Painted galvanized steel RAL 7035.
- Chrome closures and stainless steel hinges.
- With double wall thermo-isolation.
- Highly resistant to vandalism.

OPTIONS

- Delvalle can design a specific solution to the client's requirements.
- 19" or 21", depending on rack support position.
- Ventilation KIT: fan, dual thermostat and resistance heater.
- Several options in roof ventilation.
- Tratamiento antigraffiti.
- 200 mm plinth at base.
- Possibility of including air conditioning equipment attached to one side or the roof.
- Can also be supplied without a frame rack but with trays.
- Handle with locking system.
- Available with 1 or 2 doors.
- Full range of accessories available.
- The tray can includes micro cuts for later placement of different options.

AIR MOVEMENT INSIDE THE CABINET

- Standard front ventilation cabinet
- Cabinet with extra ventilation (front and back)
- Cabinet with extra ventilation (four sides)

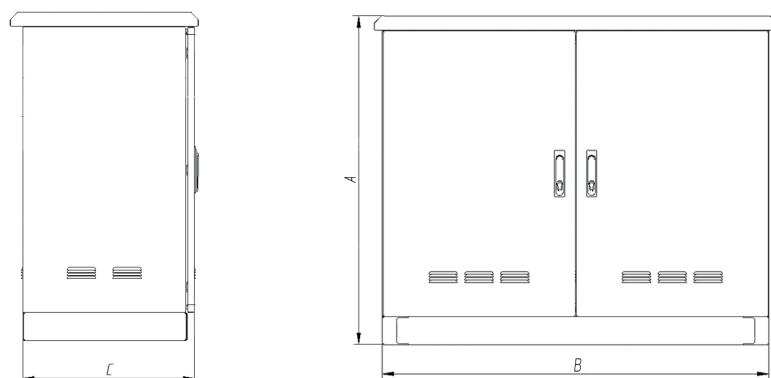


NORMS

- IEC EN 62208 and EN 60529/10.91 norms. IP54 degree (up to IP66).
- UL approval Nema 1, 3r, 4 y 12. N° File E342220.
- Temperature resistant: -40°C +100°C (short time +160°C).
- Maximum voltage 1000 V.
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).
- EN61969-3 norm. Mechanical Structures for Electronic Equipment and Outdoor Enclosures.

PLAN

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MECHANICAL PARTS
GUARANTEE

REFERENCES 1 PUERTA

REFERENCES		DIMENSIONS (mm)					
GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)	MACHINABLE AREA 2 DOORS	MACHINABLE AREA	MEDIDAS PLACA
TRG116080	TORNADO 20 U	1185	600	800	905x430	925x715	965x530
TRG116060	TORNADO 20 U	1185	600	600	905x430	925x515	965x530
TRG118080	TORNADO 20 U	1185	800	800	905x630	925x715	965x730
TRG118060	TORNADO 20 U	1185	800	600	905x630	925x515	965x730
TRG136080	TORNADO 20 U	1385	600	800	1105x430	1125x715	1165x530
TRG136060	TORNADO 25 U	1385	600	600	1105x430	1125x515	1165x530
TRG138080	TORNADO 25 U	1385	800	800	1105x630	1125x715	1165x730
TRG138060	TORNADO 25 U	1385	800	600	1105x630	1125x515	1165x730
TRG156080	TORNADO 30 U	1585	600	800	1305x430	1325x715	1365x530
TRG156060	TORNADO 30 U	1585	600	600	1305x430	1325x515	1365x530
TRG158080	TORNADO 30 U	1585	800	800	1305x630	1325x715	1365x730
TRG158060	TORNADO 30 U	1585	800	600	1305x630	1325x515	1365x730
TRG186080	TORNADO 35 U	1885	600	800	1555x430	1575x715	1615x530
TRG186060	TORNADO 35 U	1885	600	600	1555x430	1575x515	1615x530
TRG188080	TORNADO 35 U	1885	800	800	1555x630	1575x715	1615x730
TRG188060	TORNADO 35 U	1885	800	600	1555x630	1575x515	1615x730
TRG206080	TORNADO 40 U	2060	600	800	1780x430	1800x715	1840x530
TRG206060	TORNADO 40 U	2060	600	600	1780x430	1800x515	1840x530
TRG208080	TORNADO 40 U	2060	800	800	1780x630	1800x715	1840x730
TRG208060	TORNADO 40 U	2060	800	600	1780x630	1800x515	1840x730
TRG208060	TORNADO 40 U	2060	800	600	1780x630	1800x515	1840x730
Version Norms UL		Add "UL" to reference. Ex: "TRG116080UL"					
Version Rear door		Add TR to P to rear door: Ex: "TRG116080P"					

Separation plaque fund 20mm

REFERENCES 2 PUERTAS

REFERENCES		DIMENSIONS (mm)		
GALVANIZED	DESCRIPTION	HEIGHT (A)	WIDTH (B)	DEPTH (C)
TRG111380D	TORNADO 2 PUERTAS 20 U	1160	1350	800
TRG111360D				600
TRG131380D	TORNADO 2 PUERTAS 25 U	1385		800
TRG131360D				600
TRG161380D	TORNADO 2 PUERTAS 30 U	1610		800
TRG161360D				600
TRG181380D	TORNADO 2 PUERTAS 35 U	1835		800
TRG181360D				600

* All tables refers to standard measures. We work measure. We adapt to client



Example

Approval for Outdoor Use

The Storm Series is designed for installation in urban and inter-urban areas, protecting the electronic equipment required for lighting, signage and video surveillance.

The Storm Series are characterized by their high strength and spacious interior, with its manufacturing, getting width and height than the rest useful. They are equipped with waterproof seal on exterior doors approved allowing sealing and internal stability ideal for placement in areas of extreme temperatures and harsh weather environments temperature. It is made of painted galvanized steel RAL 7035 and incorporates a vandal handle made of a highly resistant material against vandalism and forced openings. The interior design allows easy placement of racks, mounting plates or separators.

➔ [FOR MORE INFORMATION CLICK HERE](#)



APPLICATIONS

Our cabinets Storm Series are specially designed for outdoor use. As its name suggests, its placement on roads is common for either signaling or lighting, as well as their use in monitoring in urban or interurban meteorological weather stations, telecommunications, telephony, fiber optic video.



CHARACTERISTICS

- Very good mechanical properties and high resistance to shape distortion.
- With water repellent injected seal.
- Door retained with stoppers.
- The enclosure includes anti-vandalism locks and handles suitable for semi-cylindrical profile locks.
- Delvalle can adapt this design to the measurements required by the client, retaining the fundamentals of insulation, sealing and safety.
- Painted galvanized steel RAL 7035.
- Approved for intemperie facilities.
- Highly resistant to vandalism.
- Stainless steel hinges.
- Spacious interior.

OPTIONS

- Designs and pictures available on request.
- Plinths at base for enclosures of any size. They allow enclosures to stand over the floor, with extra room for cable entry. Available 100mm (standard) and 200mm high.
- Ventilation kit (Fan, resistance heating and dual thermostat)
- Graffiti-proof protective paint
- EMC version according to EEC 89/336 of electromagnetic compatibility.

NORMS

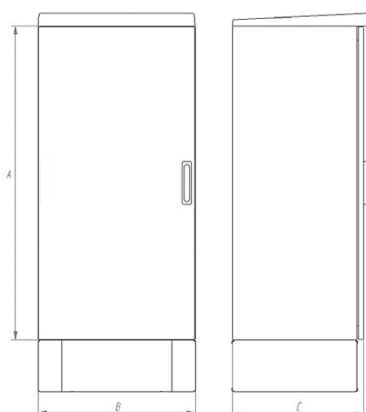
- EN 62208 and EN 60529 norms. IP66 degree.
- UL approval Nema 1, 3r, 4 y 12. N° File E342220.
- IEC 62262 norm. Maximum IK10 resistance.
- EN 61969-3. Mechanical Structures for Electronic Equipment - outdoor enclosures -.
- IEC 60068-2-30 and IEC 60068-2-11 norms.
- 2006/95/CE directive.
- EN 60439-5 . Shock resistant against sharp objects.
- Maximum voltage 1000V
- Temperature resistant: -40°C +100°C (short time +160°C).
- Option silicone gasket: from -60°C to +180°C (short time up to +350°C).

PAINTED GALVANIZED STEEL OUTDOOR RACK **STORM SERIES** IP66

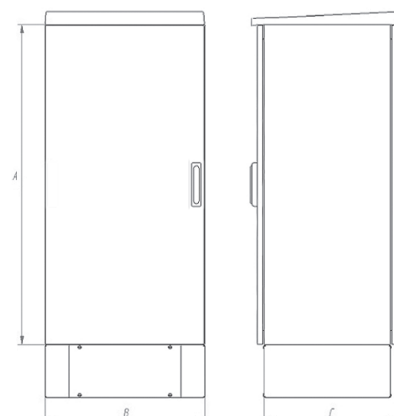
PLAN

CLICK HERE TO DOWNLOAD
THE FILES CAD - PLANS - CERTIFICATES

FRONT DOOR



FRONT AND REAR DOOR



5
YEARS
MECHANICAL PARTS
GUARANTEE

REFERENCES 1 PUERTA

REFERENCES	DIMENSIONS			
GALVANIZED	HEIGHT -A-	WIDTH -B-	DEPTH -C-	U's
RDG606040	600	600	400	12 U
RDG606050			500	
RDG606060			600	
RDG606080			800	
RDG806040	800		400	17 U
RDG806060			600	
RDG106060	1000		600	22 U
RDG126040	1200		400	24 U
RDG126050			500	
RDG126060			600	
RDG126080			800	
RDG146040	1450		400	30 U
RDG146050			500	
RDG146060			600	
RDG146080			800	
RDG148040		800	400	
RDG148050			500	
RDG148060			600	
RDG148080			800	
RDG168080	1600	800	35 U	
RDG159080	1500	900	800	33 U
RDG196040	1900	600	400	40 U
RDG196050			500	
RDG196060			600	
RDG196080			800	
RDG198040		800	400	
RDG198050			500	
RDG198060			600	
RDG198080			800	

REFERENCES 2 PUERTAS (FRONT AND REAR)

REFERENCES	DIMENSIONS			
GALVANIZED	HEIGHT -A-	WIDTH -B-	DEPTH -C-	U's
RDG606080P	600	600	800	12 U
RDG126080P	1200		800	24 U
RDG146080P	1450	600	800	30 U
RDG148040P	1450		400	
RDG148050P	1450		500	
RDG148060P	1450		600	
RDG148080P	1450	800	800	40 U
RDG196080P	1900		800	
RDG198040P	1900		400	
RDG198050P	1900		500	
RDG198060P	1900		600	
RDG198080P	1900		800	



CLIMATIZATION AND VENTILATION



STAINLESS STEEL THERMOELECTRIC COOLER IP67



Examples



Easy Installation with Screws

The DelValle stainless steel thermoelectric cooler can be supplied in various types, from 30W to 300W, with a protection up to IP67 between the inside and outside of the panel once inserted. Also, depending on the model chosen, ranging from 2.3 A up to 15A. By design the thermoelectric cooling is free of any liquid, so there is no risk of leakage. And thanks to the "Peltier" latest technology developed over the Peltier effect, allows the installation and operation of the device at any position.

Another key feature is the no air exchange between the inside and outside so the dirt doesn't accumulate on the inside.



FOR MORE INFORMATION CLICK HERE



IP67 STAINLESS STEEL THERMOELECTRIC COOLER

APPLICATIONS

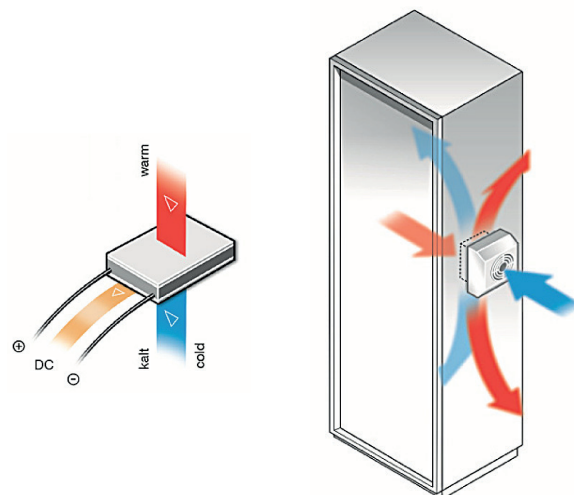
Specially designed for industrial enclosures placed in areas where the components are very sensitive to temperature changes and it's necessary an uniform temperature on the inside, as PLC'S, PC's, robots, electronic devices, video surveillance, etc.

TECHNICAL DETAILS

- Designed for Indoor - Outdoor
- Catalogue range that covers all needs.
- Design for water repelling.
- Installation and handling in any position, horizontal, vertical, lying.
- The dirt doesn't accumulate on the inside so the maintenance is near 0.
- Ecofriendly.
- Easy installation with screws.
- Stainless steel envelope.
- Accurate and precise for complex ambience.
- Low power consumption, quick amortization.
- Very reliable operation in any position and resistant to sudden temperature changes

COOLING AND HEATING

Cooling and heating functions with one device is possible. Just need to add "H" to the reference of exact model.



SURFACE MOUNT HOUSING



The thermoelectric cooler has an extra structure that can be used if there is no depth inside the enclosure

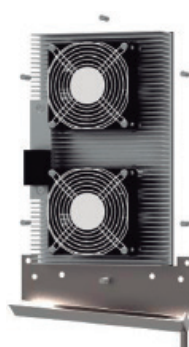
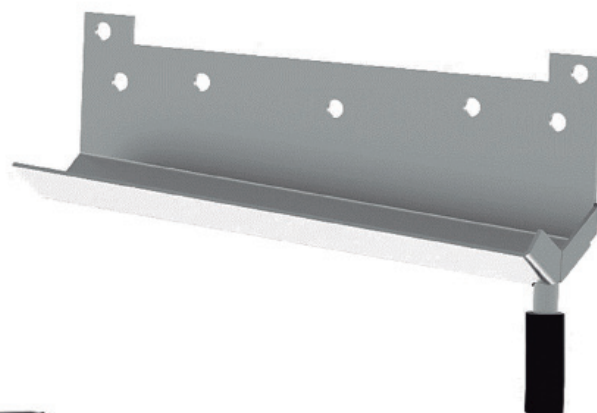
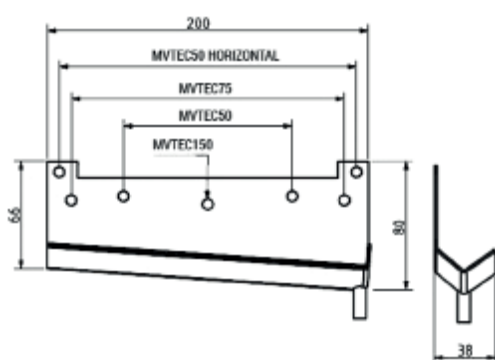
This option is interesting for later installations at existing systems.

IN CERTAIN SECTORS SUCH AS THE FOOD SECTOR, IT IS REQUIRED A HIGH LEVEL OF HYGIENE TO AVOID INFECTIONS; AND IN SECTORS AS THE MICROBIOLOGICAL, CHEMICAL OR PETROCHEMICAL SECTOR IS VITAL THE RESISTANCE TO THE CHEMICALS AND ENVIRONMENTAL EXTREMES AGENTS. I. IN DELVALLE, WE ARE SPECIALIST ON THIS ISSUE AND WE RECOMMEND THE USE OF OUR ENCLOSURES AND AIR CONDITIONING AND VENTILATION SYSTEMS IN STAINLESS STEEL

STAINLESS STEEL THERMOELECTRIC COOLER IP67

CONDENSATE TROUGH FOR THERMOELECTRIC COOLERS (MVVE200)

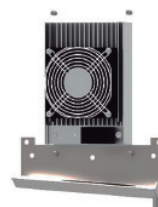
- Suitable for the types MVTEC 50-150.
- Collecting of condensate.
- Material: Stainless steel, thickness 1 mm.
- With hose connection, ID = 8 mm.
- Hose with length 2 mtr. is included.



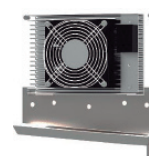
MVTEC100/150



MVTEC75



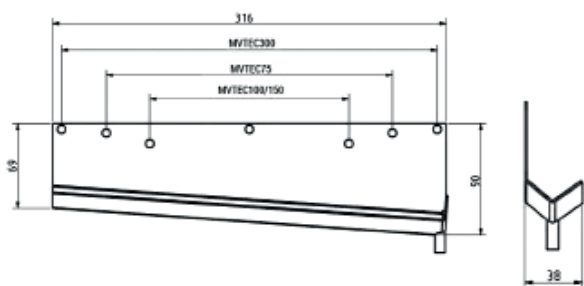
MVTEC50



MVTEC50

CONDENSATE TROUGH FOR THERMOELECTRIC COOLERS (MVVE300)

- Suitable for the types MVTEC 50-150.
- Collecting of condensate.
- Material: Stainless steel, thickness 1 mm.
- With hose connection, ID = 8 mm.
- Hose with length 2 mtr. is included.



MVTEC300



MVTEC75



MVTEC100/150

IP67 STAINLESS STEEL THERMOELECTRIC COOLER

NORMS

- IP67 Norm IEC 60529.
- Approval UL
- Life time +60.000 hours
- Comply 2006/95/CE (low voltage directive)
- Comply EN 50082-2 and EN 55022 (electromagnetic compatibility normative)
- Comply EN 60950 (electrical security normative)



REFERENCES

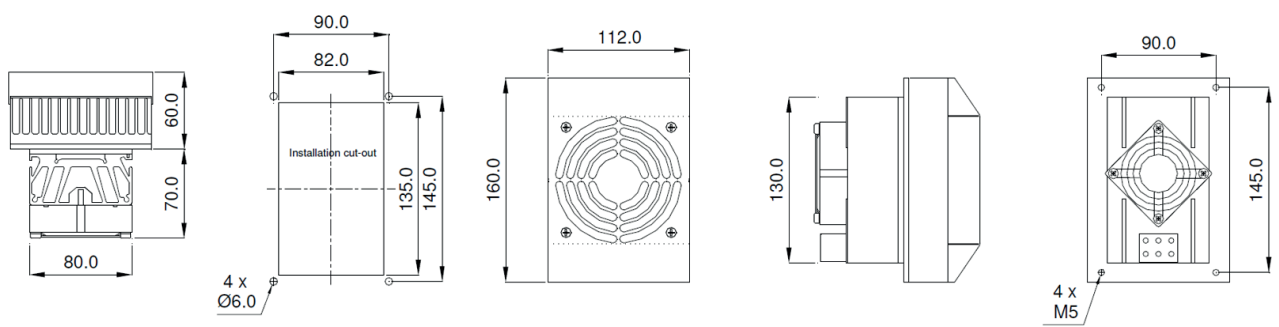
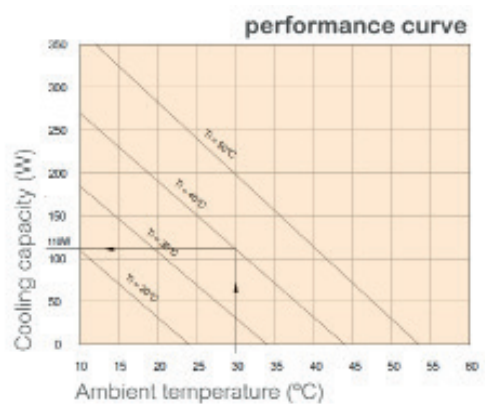
REFERENCES	MVTEC030E	MVTEC050D	MVTEC50E	MVTEC75E	MVTEC100D	MVTEC100E	MVTEC150E	MVTEC300E
Cooling Capacity (W)	30w	50w		75w	100w		150w	300w
Cooling Capacity (Btu/h)	102 BTU/h	170 BTU/h		256 BTU/h	341 BTU/h		512 BTU/h	1024 BTU/h
Operating Voltage	24V DC	12V DC	24V DC	24V DC	12V DC	24V DC	24V DC	24V DC
Amperage	2,3 A	5,0 A	2,5 A	3,6 A	10,4 A	5,2 A	7,2 A	15 A
Operating Temperature	-10... +60° C							
Norms	UL, CE							CE
Function	Cooling							Cooling + Heating
Degree of Protection Outside	IP67	IP67	IP67	IP67	IP67	IP 67	IP67	IP65
Weight	1,7 Kg	3,9 Kg		5,5 Kg	7,2 Kg		7,3 Kg	18,5 Kg

Optional: cooling + heating function IP65

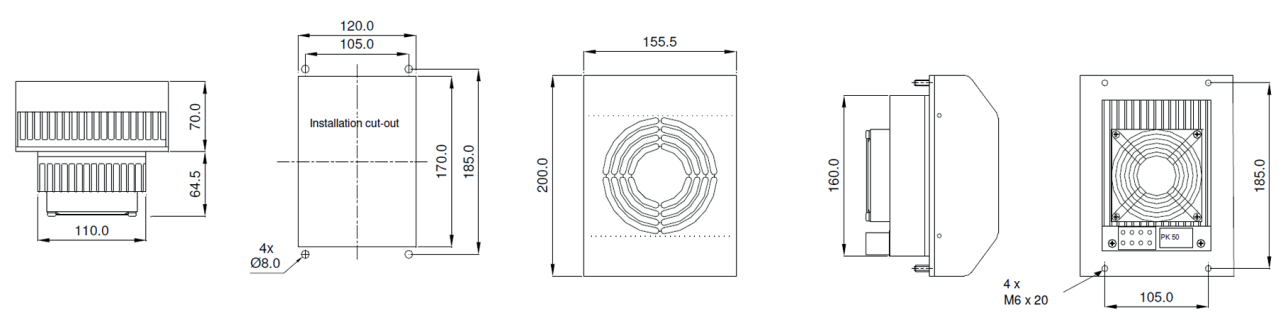
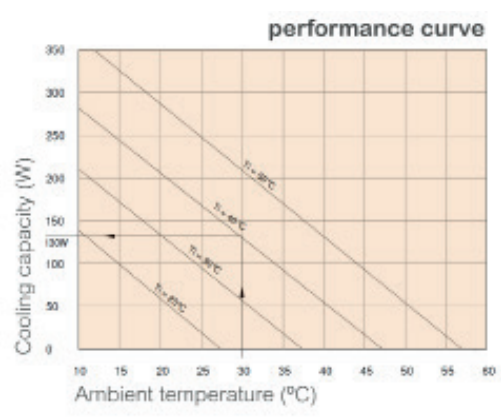
Add "H" to the reference Ex. MVTEC030EH

STAINLESS STEEL THERMOELECTRIC COOLER IP67

MODEL MVTEC030E (30W / 102btu/h) IP67

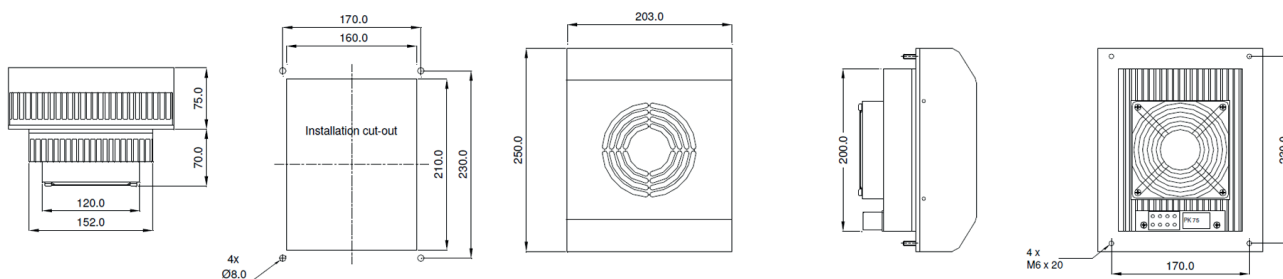
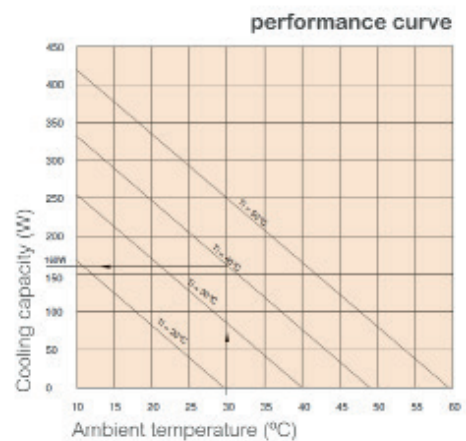


MODEL MVTEC050D / MVTEC050E (50W / 170btu/h) IP67

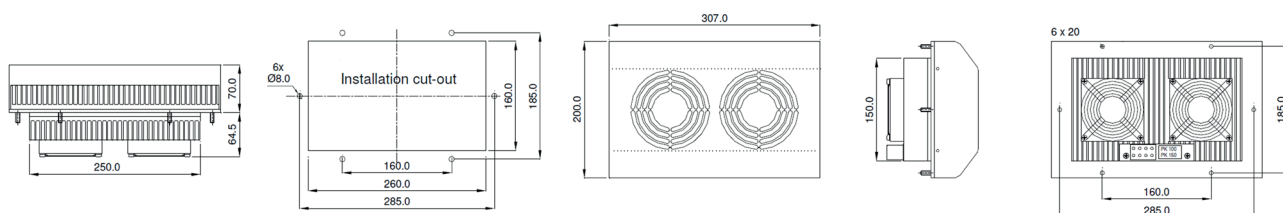
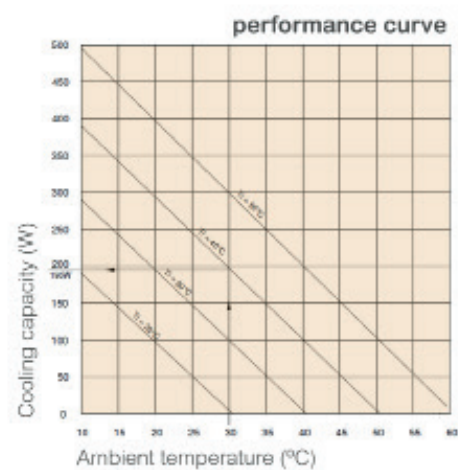


IP67 STAINLESS STEEL THERMOELECTRIC COOLER

MODEL MVTEC075E (75W / 256btu/h) IP67

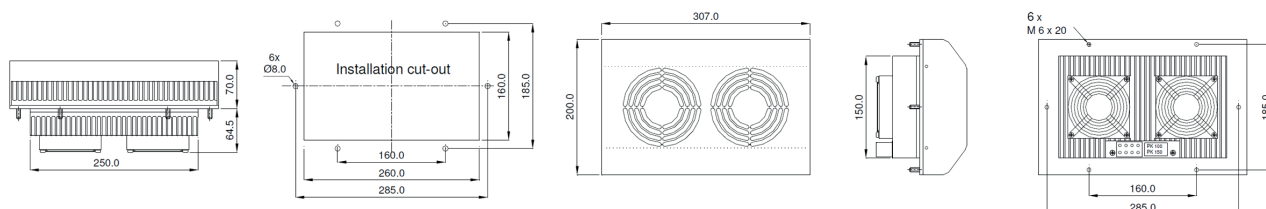
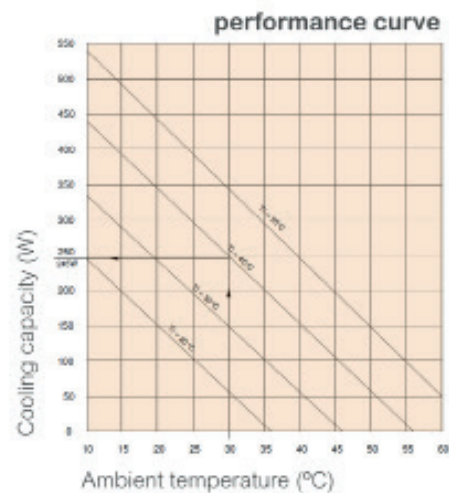


MODEL MVTEC100D / MVTEC100E (100W / 341btu/h) IP67

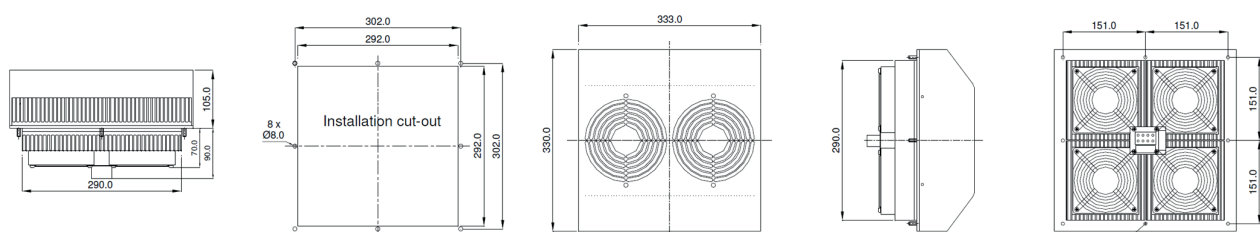
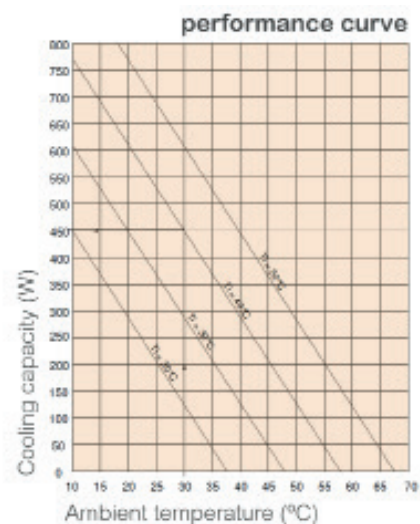


STAINLESS STEEL THERMOELECTRIC COOLER IP67

MODEL MVTEC150E (150W / 512btu/h) IP67



MODEL MVTEC300E (300W / 1024btu/h) IP65



Optimal Cooling



Examples



The high temperatures and heat to which our outdoor cabinets are subjected and the heat that the components themselves generate, are responsible for faults and malfunctions that will be increasingly repeated in the future, and will soar the costs of maintenance.

Thinking on the adverse environmental conditions, Delvalle has high quality cooling systems without filter which provides many advantages:

The cabinet internal air is sucked from the top, cooled within the cooling unit and returned inside the cabinet with a high flow rate. This ensures optimum cooling of the entire cabinet interior and counteracts any hot electronic components protected by the cooling unit.

The Tropic cooling units can keep the cabinet in a level of protection IP54, due to the special internal configuration that keeps the outside air flow separately of the indoor air - tight and due to the special airtight enclosure adhesive coupling.

These units require almost no maintenance and are designed to prevent clogging by solid contaminants that might be found in the environment. The Tropic cooling units keep high efficiency even under adverse environmental conditions; this important advantage reduces drastically the maintenance of these units, making possible that the cooling unit can work without the filter in the external air grille.

Most models have rotative compressors that enhance the performance of the refrigerator. Quick mounting, reliable, low maintenance and optimum design. Adaptable to any part of the enclosure: doors, back or on the side.

Installation is quick and with all elements included in the package. All are predisposed for easy and safe electrical connections.

Delvalle provides a wide range of reference based on the voltage, which ranges from 350 to 2000 W and the type of thermostat (manual or digital). On request we can supply up to 10.000W.

The Tropic cooling units are designed to minimize noise and to ensure a pleasant workplace. Also to protect the environment, all units are CFC free, thanks to the R134a refrigerants



FOR MORE INFORMATION CLICK HERE

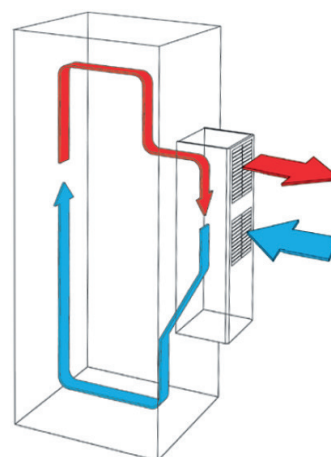
APPLICATIONS

- When choosing the power of the cooling unit has to be considered a safety margin of at least 10% of the power measured considering the adverse conditions that have to work.
- Seal the door. The cuts and openings can cause condensation drips in the unit.
- Install the cooling unit on a wall or door but always as high as possible, so the air is taken from the top of the cabinet, where it is the hottest air.
- The cooling unit is preset up to 35°C, which is the optimum temperature for any application. Attention; Never decrease the temperature below 30 degrees because it will leave the unit out of warranty due to incorrect use.
- Place the electronic components within the cabinet in order to facilitate the air circulation. Do not obstruct the entrance or exit of air with the installed components. All the components that have their own internal ventilation, must take into account so the flow direction not obstruct the air flow cooling unit.
- Unplug the cooling unit if the cabinet doors are open in order to prevent excessive condensation. At this point install a limit switch and door open security alarm (you can see them in accessories section) and plug them into the door.
- The power line refrigeration unit must be protected by a time delay fuse a short calibrated according to the information of the technical unit.



ADVANTAGES

- High efficiency and low consumption.
- No maintenance.
- Quick installation.
- Option: digital thermostat.
- Less weight, less vibrations and better efficiency through the rotative compressor.
- Ecofriendly product: silent and CFC free.
- Ideal cooling and optimal protection of the enclosure (IP54).
- By request up to 10.000W.
- By request UL normative.

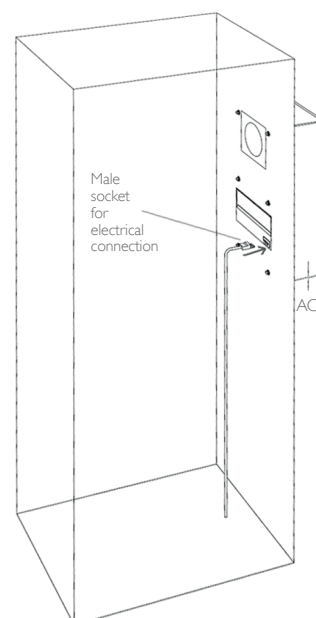
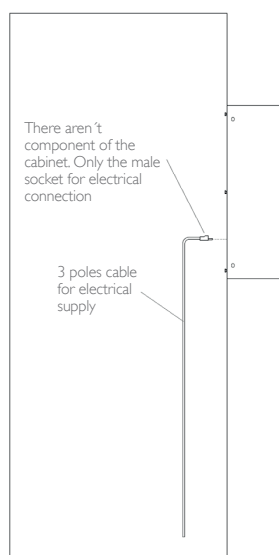
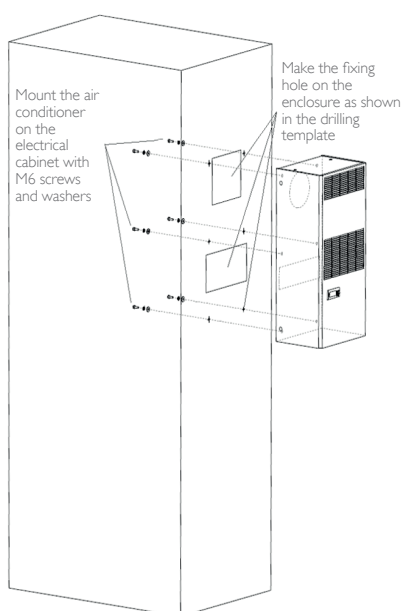


VERSION: STAINLESS STEEL AIR COOLING UNITS

All air cooling units Tropic Series (outdoor) can be supplied in stainless steel.
Manufactured with stainless steel housing, with a very functional and innovative slim design.
Specially designed to be installed in our stainless steel cabinets and stainless steel outdoor cabinets.
In certain sectors such as the food sector, it is required a high level of hygiene to avoid

infections; and in sectors as the microbiological, chemical or petrochemical sector is vital the resistance to the chemicals and environmental extremes agents. I. In Delvalle, we are specialist on this issue and we recommend the use of our air conditioning and ventilation systems in stainless steel AISI 304L (option also in stainless steel 316L).

INSTALLATION

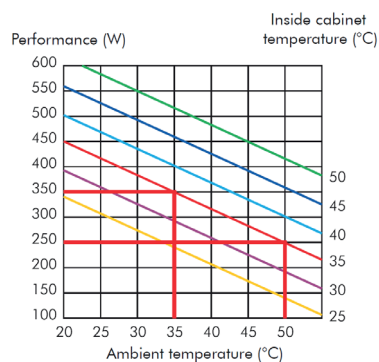


NORMS

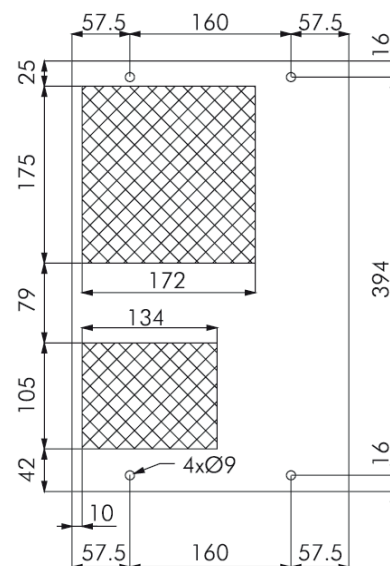
- IP54 Norm IEC 60529.
- RAL 7035 colour.
- Comply:
 - 2006/42/CE (machinery directive)
 - 2006/95/CE (low voltage directive)
 - 97/23/CE (ped directive)
 - 2004/108/CE (electromagnetic compatibility directive)
 - EN 61000: 6-2; 6-3 (electromagnetic compatibility normative)
 - CEI EN 60335 (electrical equipment of machines normative)
 - EN 378 (refrigerating sytems and heat pumps normative)

AIR COOLING UNITS (OUTDOOR) TROPIC SERIES IP54

MODEL MVOUT0350 IP54

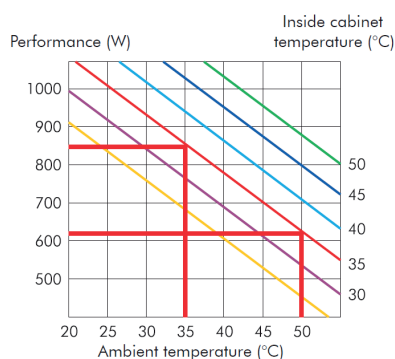


DRILLING TEMPLATE



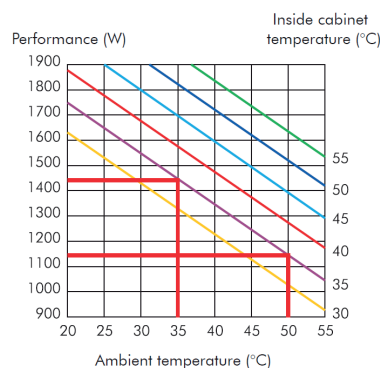
REFERENCES	MVOUT0350AM	MVOUT0350A	MVOUT0350BM	MVOUT0350B	MVOUT0350CM	MVOUT0350C
Temperature controller	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated
Cooling capacity	350/370 W					
Air flow rate	600/625 m³/h					
Power supply	230V/50-60Hz		115 V/50-60Hz		400 V/50-60Hz	
Max current	1,8/1,9 A		3,6/3,8 A		1,0/1,1 A	
Delayed fuse	4A		6A		4A	
Absorbed electric power	260/270 W					
Refrigerant (type/charge)	R134a / 0,3 Libre CFC's					
Maximum pressure	25 bar					
Operating °C (ambient)	+ 20 / +55°C					
Operating °C (enclosure)	+ 20 / +45°C					
Compressor type	Rotative compressor					
Noise level	60 dB(A)					
Electrical connection	3-pole connector					
Dimensions (Mm)	430 (high) x 280 (width) x 170 (depth)					
Option: stainless steel version		Add "X" to the reference. Ex."MVOUT0350AMX"				

IP54

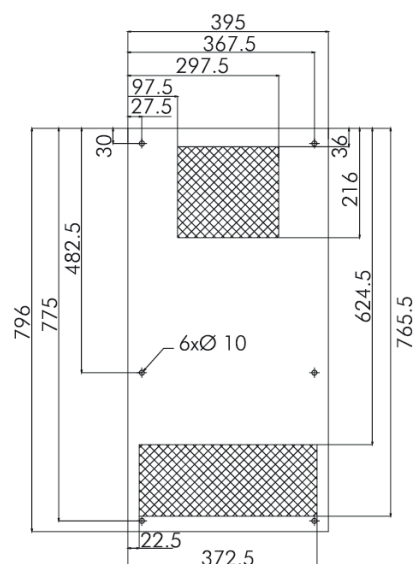


AIR COOLING UNITS (OUTDOOR) TROPIC SERIES IP54

MODEL MVOUT I450 IP54



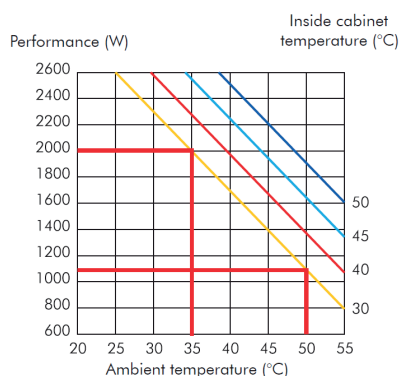
DRILLING TEMPLATE



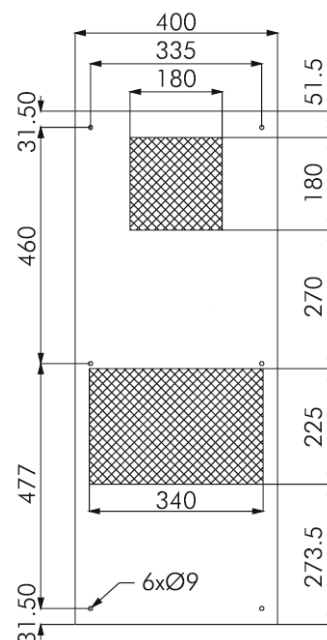
REFERENCES	MVOUT I450AM	MVOUT I450A	MVOUT I450BM	MVOUT I450B	MVOUT I450CM	MVOUT I450C
Temperature controller	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated
Cooling capacity	I450/I500 W					
Air flow rate	880/950 m³/h					
Power supply	230V/50-60Hz		I15 V/50-60Hz		400 V/50-60Hz	
Max current	3,70/4,2 A		7,4/8,4 A		1,35/2,1 A	
Delayed fuse	6A		10A		4A	
Absorbed electric power	650/700 W					
Refrigerant (type/charge)	R134a / 0,55 Libre CFC's					
Maximum pressure	25 bar					
Operating °C (ambient)	+ 20 / +55°C					
Operating °C (enclosure)	+ 20 / +45°C					
Compressor type	Rotative compressor					
Noise level	65 dB(A)					
Electrical connection	3-pole connector					
Dimensions (mm)	800 (high) x 400 (width) x 240 (depth)					
Option: stainless steel version		Add "X" to the reference. Ex. "MVOUT I450AMX"				

TROPIC SERIES IP54 AIR COOLING UNITS (OUTDOOR)

MODEL MVOUT2000 IP54



DRILLING TEMPLATE



REFERENCES	MVOUT2000AM	MVOUT2000A	MVOUT2000BM	MVOUT2000B	MVOUT2000CM	MVOUT2000C
Temperature controller	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated	Thermostat mechanical integrated	Thermostat digital integrated
Cooling capacity	2000/2100 W					
Air flow rate	880/950 m³/h					
Power supply	230V/50-60Hz		115 V/50-60Hz		400 V/50-60Hz	
Max current	6,6/6,9 A		13,8/13,8 A		3,3 / 3,5 A	
Delayed fuse	10A		16A		6A	
Absorbed electric power	1060/1100 W					
Refrigerant (type/charge)	R134a / 0,6 Libre CFC's					
Maximum pressure	27 bar					
Operating °C (ambient)	+ 20 / +50°C					
Operating °C (enclosure)	+ 20 / +45°C					
Compressor type	Alternative compressor					
Noise level	70 dB(A)					
Electrical connection	3-pole connector					
Dimensions (mm)	1000 (high) x 400 (width) x 240 (depth)					
Option: stainless steel version		Add "X" to the reference. Ex. "MVOUT2000AMX"				



Consult us without obligation

Confidentiality, reliability & quality

www.delvallebox.com

comercial@delvalle.es

+34 945 601 381

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OUTDOOR TELECOM 19 RACKS & CABINETS



GALVANIZED STEEL ELECTRICAL ENCLOSURES



HYGIENIC DESIGN ENCLOSURES



ALUMINIUM ELECTRICAL ENCLOSURES





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CLIMATE CONTROL COOLING FOR ELECTRICAL ENCLOSURES



NEMA ELECTRICAL ENCLOSURE TYPE 1-3R-4X-12



MODULAR DISTRIBUTION ENCLOSURES



EMC ELECTRICAL ENCLOSURES SOLUTIONS



CABLE GLANDS & ENTRY SEALS FOR CABINETS





ENCLOSURES & CABINETS FOR SPECIAL REQUIREMENTS



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www.delvallebox.com - comercial@delvalle.es

Contact us, we will be available at any time