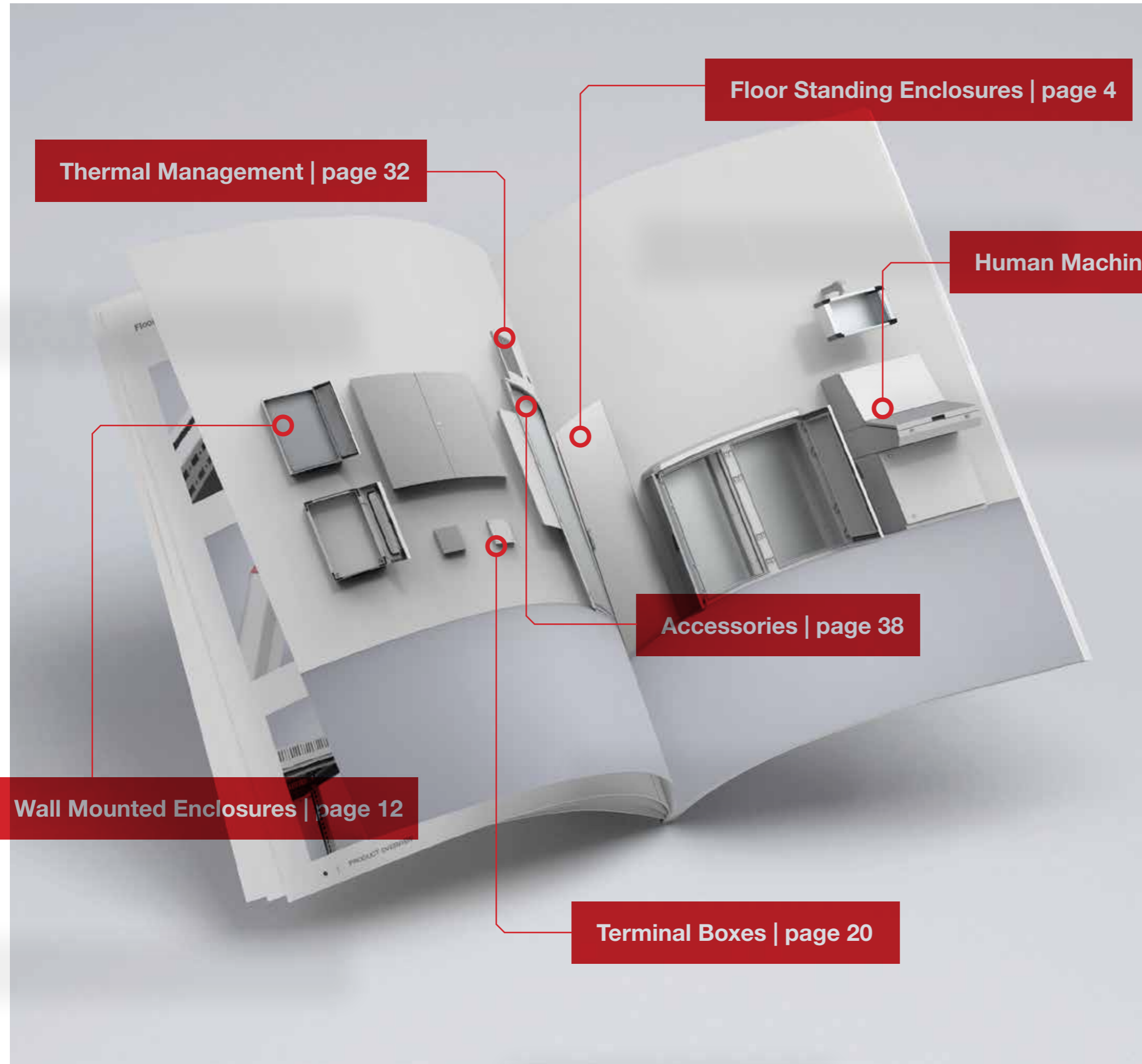


Eldon Product Overview





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FLOOR STANDING ENCLOSURES



Floor standing enclosures are used when a strong design is required, and the installation is floor based or located on top of a frame structure. Typical applications span from a single, stand-alone enclosure integrated in a machine, to complex set-ups with several meters of combinable panels. Floor standing enclosures are also used in industrial network installations and for power distribution switchgear.

The range is available in various materials and in three different construction types, adaptable to any accessibility requirements.

The constructions available are all designed around the same platform and can be tailored to customer needs, by using a cULus Listed set of standard accessories.

The floor standing enclosures offer maximum protection to the user and to the equipment inside, thanks to the high protection degree IP 55 / IP 56 / IP 66 - IK 10 according to EN 60529 & EN 62208. In addition, the Eldon floor standing range is certified to meet the strictest international standards, such as UL 508A, CSA 22.2, GOST and KEMA-KEUR. Customers have the guarantee that the enclosures are thoroughly tested and meet all safety regulations.

TAKE YOUR PICK!



MILD STEEL

compact single door	compact double door	semi-compact single door	semi-compact double door	combinable single door	combinable double door	combinable flange mount	combinable 19"
IP 66 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 66 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 56 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 56 TYPE 4, 12, 13 IK 10
H: 1200 - 2000 W: 600 - 1000 D: 300 - 500	H: 1200 - 2000 W: 1000 - 1600 D: 300 - 500	H: 1600 - 2000 W: 600 - 1000 D: 400 - 500	H: 1600 - 2000 W: 1200 - 1600 D: 400 - 500	H: 1800 - 2200 W: 400 - 1000 D: 400 - 800	H: 1800 - 2200 W: 800 - 1600 D: 400 - 800	H: 1800 - 2000 W: 800 - 1000 D: 400 - 600	H: 1100 - 2200 W: 600 - 800 D: 600 - 800

STAINLESS STEEL

compact single door	compact double door	combinable single door	combinable double door
IP 66 TYPE 4X, 12, 13 IK 10	IP 55 IP 66 TYPE 12, 13, 4X (on request) IK 10	IP 56 TYPE 4X, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10
H: 1400 - 2000 W: 600 - 1000 D: 400	H: 1200 - 2000 W: 1200 - 1600 D: 400	H: 1800 - 2000 W: 600 - 1000 D: 500 - 600	H: 1800 - 2000 W: 1000 - 1200 D: 500 - 600

ALUMINIUM

single wall	double wall
IP 66 TYPE 4X, 12, 13 IK 10	IP 66 TYPE 4X, 12, 13 IK 10
H: 1200 - 1400 W: 600 - 1800 D: 400 - 600	H: 1200 - 1400 W: 600 - 1800 D: 500 - 600

GALVANISED STEEL

EMC
IP 54 TYPE 12 IK 10
H: 1800 - 2000 W: 400 - 800 D: 600 - 800



COMPACT



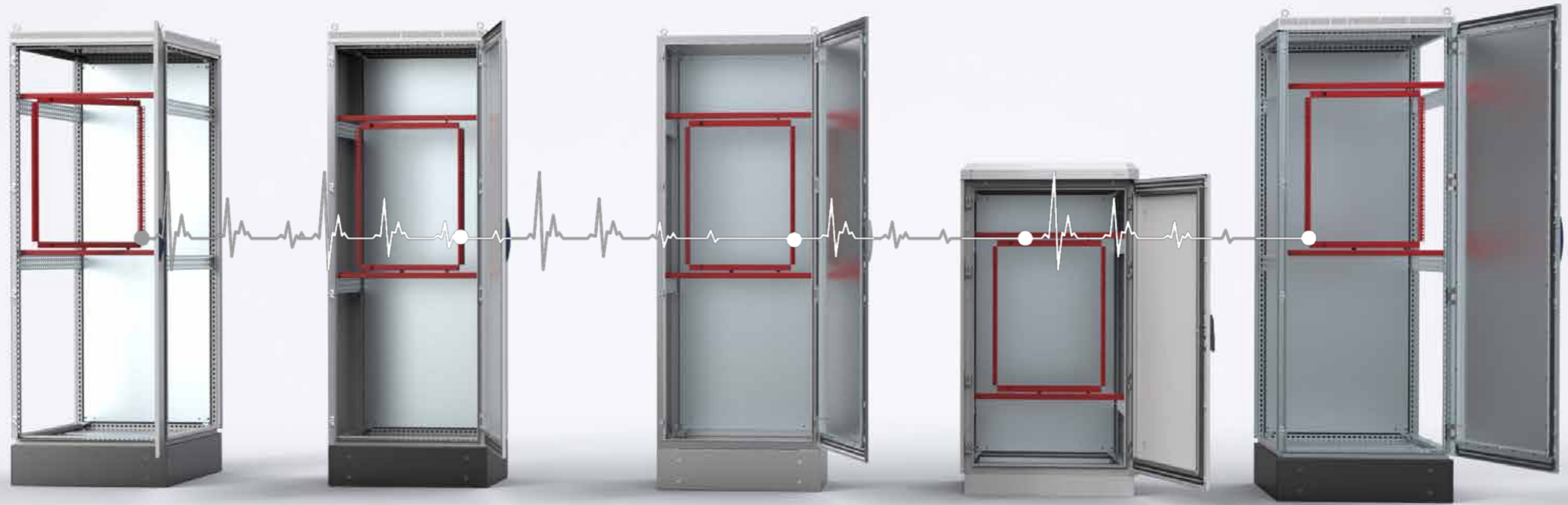
SEMI-COMPACT



COMBINABLE



MAKES YOUR HEART RACE!



Accessories fully compatible throughout enclosure families



MOUNTING PLATES



PROFILES



19"



FIXATION



DOORS



LOCKING SYSTEM



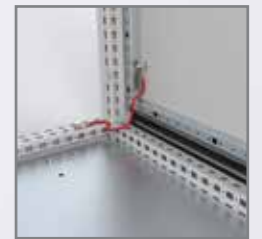
**ROOFS
BOTTOM PLATES**



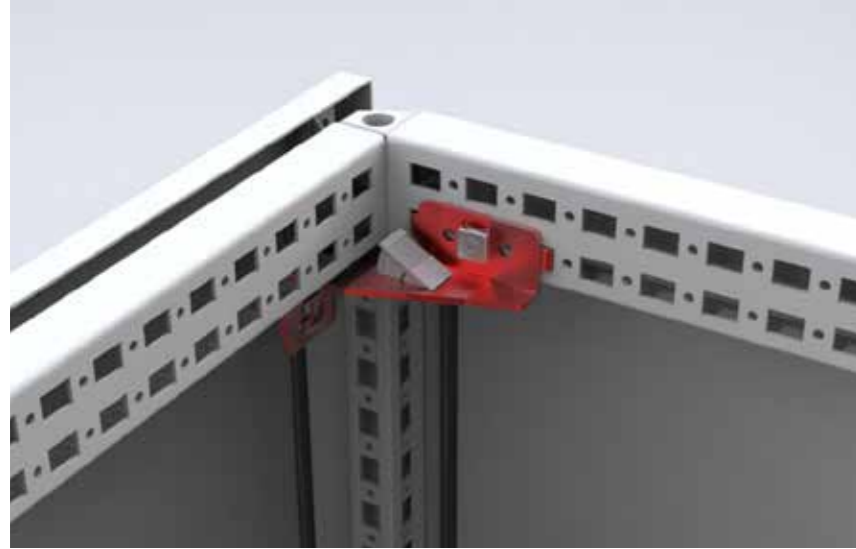
**CABLE
MANAGEMENT**



LIFTING



EARTHING



01 REDUCED ASSEMBLY TIME

Eldon's latest quick fixation baying and mounting plate brackets reduce the required assembly time with 70 %, increasing your competitive edge.



02 ONE MAN INSTALLATION

Use the side panel as an example. One man installation is what drives our product development. Another example is the mounting plate retainer on the mounting plate bracket.



03 HIGH LEVEL OF PROTECTION

Eldon invests in a high level of protection for its enclosures, therefore all 316L enclosures have been provided with a silicon gasket, offering the maximum protection available.



04 HIGH RIGIDITY

A strong profile design, an innovative 'S' bend, and a significant increase in material thickness are the characteristics that define the most recent side panels from Eldon. And to make installation fast and easy, Eldon's customers also benefit from a smart hanging design feature, that allows the side panels to be hung from the enclosure using a unique bend across the top edge of the side panel.



05 AESTHETICS AND FEEL

We differentiate our enclosures through superior design and a sleek appearance. The locking system, corner forming, and perfect grinding are just a few examples of bringing aesthetics to the next level.

WALL MOUNTED ENCLOSURES



Eldon provides an extensive range of wall mounted enclosures in mild steel and stainless steel (304L and 316L types) that meet all environmental requirements. Mild steel enclosures are pre-treated with iron phosphate, demineralized and protected with epoxy-polyester powder paint RAL 7035 with structured finish. Stainless steel enclosures have a 240s pre-grained finish (average 0.5 microns).

The sturdy cruciform body is folded from cold pressed sheet steel plate. The enclosure's edge is folded in the shape of a channel to avoid water stagnating on the seal.

The enclosures are available in single door and double door designs in both materials. A mild steel panel enclosure is also available. Single doors are closed by a one, two, or three points locking system and double doors are closed by means of a three point espagnolette systems. The doors have a seamless polyurethane gasket, and in 316L stainless steel enclosures, doors have a silicone gasket. The door opens within the outer dimensions of the enclosure body allowing enclosures to be mounted directly next to each other without the door interference.

Enclosures can be secured to the wall by using: bolts, directly through the rear wall and protected inside with plastic washers, or wall mounting brackets at the rear screwed from the enclosure. In both cases the IP / TYPE ratings are guaranteed. Enclosures offer maximum protection to the user and equipment thanks to the high protection degree IP 66 - IK 10 according to EN 60529 and EN 62208 (IP 55 - IK 10 for enclosures with double door).

Eldon's wall mounted steel range is certified according to the most relevant international standards, such as UL 508A, CSA 22.2, GOST and KEMA-KEUR. This guarantees that the enclosures are thoroughly tested and meet all safety regulations.

TAKE YOUR PICK!



MILD STEEL

single door	double door	panel
IP 66 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 66 TYPE 4, 12, 13 IK 10
H: 200 - 1200 W: 200 - 800 D: 155 - 400	H: 600 - 1400 W: 800 - 1200 D: 300	H: 300 W: 600 - 1200 D: 300

STAINLESS STEEL

single door	double door	single door integrated rainhood	single door hygienic design
IP 66 TYPE 4X, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 66 TYPE 4X, 12, 13 IK 10	IP 66/69K TYPE 4X, 12, 13 IK 10
H: 180 - 1400 W: 240 - 800 D: 150 - 400	H: 1000 - 1200 W: 1000 - 1200 D: 300 - 400	H: 300 - 1400 W: 200 - 800 D: 155 - 400	H: 442 - 1425 W: 220 - 810 D: 155 - 300

POLYESTER

compact plain door	compact transparent door	modular plain door
IP 66 TYPE 4, 4X, 12, 13 IK 10/07	IP 66 TYPE 4, 4X, 12, 13 IK 10/07	IP 65/54 TYPE 4X, 12, 13 IK 10/07
H: 315 - 1035 W: 215 - 835 D: 170-300	H: 415 - 1035 W: 315 - 835 D: 170-300	H: 500 - 1250 W: 500 - 1250 D: 320

GALVANISED STEEL

modular transparent door	galvanised steel
IP 65/54 TYPE 12, 13 IK 10/07	IP 54 TYPE 12 IK 10
H: 500 - 1250 W: 500 - 1000 D: 320	H: 400 - 1000 W: 400 - 800 D: 210 - 300



WE ARE ALL THE SAME INSIDE!



Accessories fully compatible throughout enclosure families



MOUNTING PLATES



PROFILES



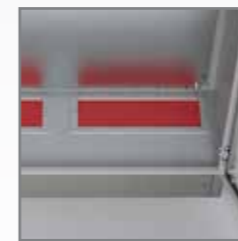
19"



FIXATION



DOORS



GLAND PLATES



CABLE MANAGEMENT



LIFTING



PROTECTION



EARTHING



01

WIDE RANGE OF AVAILABLE SIZES

Eldon offers a wide range of mild steel enclosures in standard sizes. This makes it possible for Eldon to deliver mild steel enclosures that can suit most applications, directly from stock, ensuring a short delivery time.



03

HIGH LEVEL OF PROTECTION

A metallic lock prevents undesired door opening, which may happen if the double-bit lock insert is broken. This increases safety. The improved espagnolette locking system makes the locking smoother, and the positioning of the door more precise, guaranteeing the sealing between the gasket and the rain gutter.



02

REDUCED ASSEMBLY TIME

The assembly time is significantly reduced thanks to accessories that do not require any machining, such as interior profiles, 180° hinges, door switches, and more.



04

DESIGN FOR SPECIFIC ENVIRONMENTS

Hygienic Design, and other enclosures are available for projects with special requirements.

TERMINAL BOXES



Eldon's range of terminal boxes is available in different materials including painted mild steel, stainless steel (types 304L and 316L), painted aluminium, glass reinforced polyester, ABS, and polycarbonate. Each of these materials offers a different degree of corrosion resistance, specific mechanical behavior, and provides distinct insulation.

Terminal boxes are used to protect connection elements and terminal blocks in the field. They are also used for other purposes, such as hosting small control equipment in the field or inside a machine.

The range of terminal boxes has been designed to comply with the relevant standard for empty enclosures, IEC 62208. Maximum protection for the user and the equipment is achieved thanks to the high protection degree IP 66 according to IEC 60529, and IK 08 according to IEC 62262.

There are three different designs available within the ABS and polycarbonate terminal box ranges, making it possible to meet most customer requirements.

Certification has been obtained for all ranges of Eldon's terminal boxes with GOST and EAC for Russia, and others which makes export easier, especially for machine builders. Mild steel and stainless steel terminal boxes have UL certification for the USA, and CSA for Canada.

A wide selection of accessories is also available for each range of terminal boxes. Typical accessories include wall mounting brackets for fixing, when required, mounting plates and DIN rails for the installation of electrical equipment, and hinges for easier access to the interior.

TAKE YOUR PICK!



STEEL

ALUMINIUM

POLYESTER

POLYCARBONATE

ABS

mild steel box	stainless steel box	aluminium box	polyester box	polycarbonate box	polycarbonate box transparent cover	polycarbonate large box	polycarbonate large box transparent cover	ABS box	ABS box transparent cover	ABS small box	ABS small box transparent cover	ABS large box	ABS large box transparent cover
IP 66 TYPE 4, 12, 13 IK 08	IP 66 TYPE 4X, 12, 13 IK 08	IP 66, 67	IP 66, 67	IP 66,67 IK 08	IP 66,67 IK 08	IP 66,67 IK 08	IP 66,67 IK 08	IP 66, 67 IK 06/07	IP 66, 67 IK 06/07	IP 66, 67 IK 06/07	IP 66, 67 IK 06/07	IP 66, 67 IK 06/07	IP 66, 67 IK 06/07
H: 150 - 400 W: 150 - 800 D: 80 - 120	H: 150 - 400 W: 150 - 800 D: 80 - 120	H: 45 - 230 W: 50 - 600 D: 30 - 180	H: 75 - 405 W: 80 - 560 D: 55 - 120	H: 53 - 230 W: 55 - 300 D: 36 - 121	H: 53 - 230 W: 55 - 300 D: 36 - 121	H: 200 - 400 W: 200 - 600 D: 132	H: 200 - 400 W: 200 - 600 D: 132	H: 53 - 230 W: 55 - 300 D: 36 - 121	H: 53 - 230 W: 55 - 300 D: 36 - 121	H: 75 - 175 W: 125 - 250 D: 75 - 150	H: 75 - 175 W: 125 - 250 D: 75 - 150	H: 200 - 400 W: 200 - 600 D: 132	H: 200 - 400 W: 200 - 600 D: 132





01 WIDE RANGE OF AVAILABLE SIZES

Eldon offers a wide availability of terminal boxes in standard sizes and materials directly from stock. All standard sizes and materials, such as mild and stainless steel, aluminium, polyester, polycarbonate and ABS, are stocked to minimize delivery time.



04 MATERIALS FOR VARIOUS ENVIRONMENTS

The range of terminal boxes is available in several materials including painted mild steel, stainless steel (types 304L and 316L), painted aluminium, glass reinforced polyester, ABS, and polycarbonate. Each of these materials offers a different degree of corrosion resistance, specific mechanical behavior, and provides distinct insulation.



02 SYMMETRICAL DESIGN

The symmetrical design of steel boxes allows for the assembly of a mounting plate or DIN rails both in a horizontal or vertical position, which means that a double number of sizes are available within the same stock.



05 REDUCED ASSEMBLY TIME

Quarter turn screws reduce the time needed to open and close the box, whilst proper gasket compression is guaranteed.



03 HIGH LEVEL OF PROTECTION

Eldon's terminal boxes have a high protection degree, IP 66 for steel terminal boxes and IP 67 for aluminium, polyester, polycarbonate and ABS.



06 CAPTIVE SCREWS IN THE COVER

The cover screws are held captive by the self-latching hinge integrated in the cover. This is an essential requirement during installation, as well as during maintenance tasks in the field, to ensure that the screws do not get lost.

HUMAN MACHINE INTERFACE

The range of HMI products comprises PC enclosures, compact and modular consoles, and swing arm systems with various housing solutions.

The PC enclosure is based on the floor standing design and is suitable for office and factory environments. The console range is available in both mild steel and stainless steel, and the operating housing range is available in mild steel and aluminium. Eldon's HMI range of products can be used in various applications, such as hosting control units, touch panels, and display components.

The HMI range has been designed to comply with the standard for empty enclosures, IEC 62208, with various degrees of protection, including IP 44, 54, 55 and 66 according to IEC 60529, and IK 10 according to IEC 62262.

The consoles are available in two different designs, compact and modular. The compact is made in one piece and the combinable consists of three different sections: base, desk and top section.

The operating housings are available in mild steel and aluminium, complemented by two ranges of swing arm systems, made of aluminium, which can be configured modularly, and customized according to the specific requirements of the application in question.

Certification has been obtained with GOST and EAC for the whole HMI range, and with UL and CSA for the consoles, which makes export easier, especially for machine builders.

The versions available are all designed around the same platform and can be tailored to specific customer needs with the same set of standard accessories.

TAKE YOUR PICK!



MILD STEEL

PC Enclosure	console single door compact	console double door compact	console single door modular	console double door modular
IP 44 IK 10	IP 66 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 66 TYPE 4, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10
H: 1600 W: 600 D: 600-800	H: 985 W: 600 - 1000 D: 400	H: 985 W: 1200 - 1600 D: 400	H: 1450 W: 600 - 1000 D: 985	H: 1450 W: 1200 - 1600 D: 985

STAINLESS STEEL

console single door compact	console double door compact	console single door modular	console double door modular	control panel light swing arm system	control enclosure medium swing arm system
IP 66 TYPE 4X, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 66 TYPE 4X, 12, 13 IK 10	IP 55 TYPE 12, 13 IK 10	IP 65	IP 55 IK 10
H: 985 W: 600 - 1000 D: 400	H: 985 W: 1200 D: 400	H: 985 W: 600 - 1000 D: 400	H: 1450 W: 1200 - 1600 D: 985	H: 309-495 W: 395-542 D: 200	H: 300-500 W: 300-600 D: 155-210





01 WIDE RANGE OF HMI PRODUCTS

Eldon offers a comprehensive range of HMI products, comprising PC enclosures, consoles and swing arm systems with various housing solutions.



02 ONE MAN INSTALLATION

One man installation system with adjustable alignment, which keeps the assembly costs low.



03 SECURITY

PC enclosures prevent undesired access from the exterior, and can be opened only with a dedicated key. The side panels are fastened with internal studs instead of screws.



04 COST-EFFECTIVE CONTROL ENCLOSURE

The control enclosure is based on the wall mounted design with a front aluminium plate and a rear door.



05 AESTHETICS AND FEEL

The control panel OICP and its anodized aluminum profiles combined with the black aluminum corners and handle strips give the enclosure a distinct premium look.



06 EASY MACHINING

The aluminium front plates are removable, allowing for easy machining and assembly of the HMI equipment.

THERMAL MANAGEMENT



There are two main potential thermal problems inside the enclosure:

- Overheating;
- Humidity, or water condensation.

Overheating can occur inside the enclosure, due to internal heat dissipation or external heat sources. The consequence may be reduced component lifetime and increased risk of breakdowns. Eldon offers a wide range of cooling solutions to avoid harmful overheating:

- Air conditioners, an efficient cooling solution which does not require the ambient air temperature to be lower than the desired temperature inside the enclosure. An additional advantage is that air conditioners will dehumidify the air inside the enclosure, preventing condensation;
- Vortex coolers, particularly suitable in applications where the working temperature is very high and where other cooling solutions are not possible due to limitations in their maximum working temperature;
- Heat exchangers, such as air-water types, are ideal when high cooling capacity is needed and fresh water is available;
- Filter fans constitute a cost-effective, easy to assemble cooling solution. They can be used in all control panels where the ambient conditions don't cause a constraint.

One of the greatest risks for an electrical enclosure is water condensation and high humidity which may reduce the lifetime of the electronic equipment. Water condensation will occur if the temperature falls below the dew point.

Eldon offers a wide range of heaters to increase the air temperature inside enclosures:

- Small heaters, for small panels not requiring high heating capacity;
- Medium and big heaters, for large enclosures where the heat generated is not too high, but where there is a risk of condensation due to temperature variations during day and night;
- Fan heaters, to ensure even heat distribution in large enclosures where there is not enough natural air distribution.

To increase energy efficiency, Eldon also offers various control equipment to obtain an optimum balance between the requested temperature conditions and the energy used:

- Thermostats are available for temperature control. This is the best solution for enclosures with cooling or heating components which lack their own temperature control;
- Hygrostats for relative humidity control. This is a good solution for enclosures where there is a high risk for condensation since the minimum control will not ensure that condensation will be avoided.

Certifications such as UL, CSA, GOST, and others, are available to make it easier to export complete enclosures.

TAKE YOUR PICK!



COOLING UNITS

VORTEX RANGE

AIR-WATER HEAT EXCHANGERS

VENTILATION RANGE

HEATING & ANTICONDENSATION RANGE

vertical	roof	outdoor	vortex cooler	high temperature vortex cooler	vertical	roof	vertical indoor	vertical outdoor	roof	roof outdoor	anti condensation small heater	anti condensation large heater	compact heater with/without thermostat	fan heater	fan heater with thermostat
IP 54 TYPE 12	IP 54	IP 55 TYPE 4, 4X	IP 66 TYPE 4X	IP 66 TYPE 4X	IP 55	IP 55	IP 54 TYPE 12	IP 55 TYPE 12	IP 33/54	IP 33/54					



FIX THERMOSTAT



THERMOSTAT



THERMOSTAT



DUAL THERMOSTAT



HYGROSTAT



ELECTRONIC THERMOSTAT / HYGROSTAT





01

WIDE RANGE OF THERMAL MANAGEMENT PRODUCTS

Eldon offers a complete product portfolio including a wide range of cooling and heating solutions, as well as temperature and humidity control components.



04

ENERGY SAVING

Thanks to the introduction of new components and of SEM, Smart Energy Management, it is possible to obtain up to 23% less energy consumption.



02

REDUCED MAINTENANCE

The evaporator with hydrophilic surface treatment and increased distance between the fins means no filter mat is required, reducing the maintenance work.



05

WORLDWIDE SERVICE

An online service form is available for fast and easy communication.



03

RELIABLE COMPONENTS

Flawless components that eliminate any possible failure that may affect the equipment inside the enclosure. For example, the motors in our filter fans are EBM-papst.



06

THERMAL MANAGEMENT SOFTWARE

Eldon's Thermal Management Application is an advanced configurator designed to offer solutions for both indoor and outdoor applications. It assists you in calculating the heat dissipation within your enclosure, component by component.

ACCESSORIES



Cable management

Eldon offers a wide range of cable entry products to meet many different customer requirements. The products offered are divided into two groups:

- Cable glands;
- Cable entry gland plates.

These products are manufactured using high quality raw materials. Together with the tested and confirmed high IP rating, they make it possible to guarantee reliable performance in almost any environment.

Some characteristics of Eldon's cable glands:

- Traditional and reliable CPG cable glands;
- Cost-effective solution with the simple cable gland, CES;
- Double protection with the CED cable glands;
- Improved strain relief with the CAG cable glands.

The cable gland plates are characterized by:

- A high cable density with the CEP/CEPR cable entry gland plates;
- The possibility to use already connected cables with the CCF gland plates;
- A fast and smooth installation using the EHTC gland plates.

Standard solutions do not always meet the installation requirements for industries such as food and beverage, pharmaceuticals, and others where a high level of cleanliness is required. For these types of installations, Eldon has a dedicated product, the hygienic design cable gland, which has been designed to meet the strict regulations within these industries.

General accessories

Eldon's wide range of accessories makes it possible to meet individual customer and user requirements for many applications. Eldon's general accessory range includes the following products:

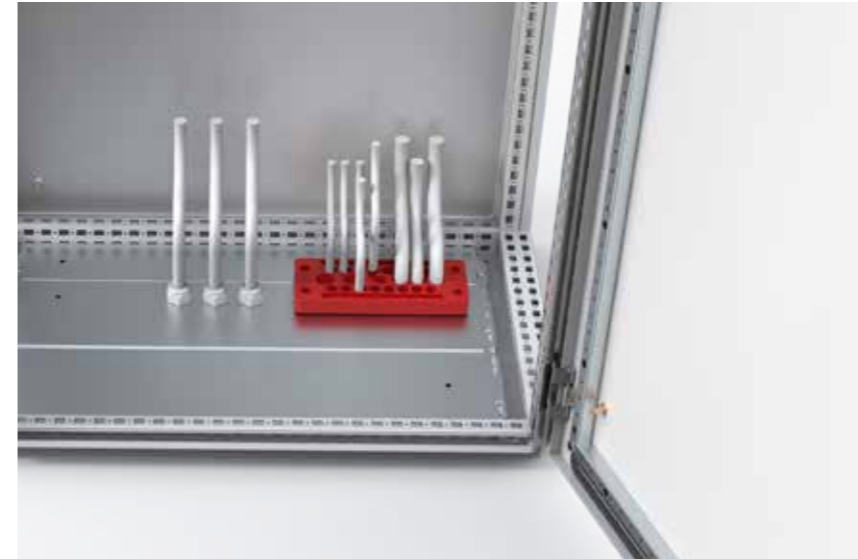
- Lighting systems, to help customers perform maintenance tasks inside the enclosure, when needed, or to increase visibility inside the enclosure when accessed during the night;
- Profile accessories, including DIN rails and mounting material, to allow for easy mounting of electrical equipment inside the enclosure;
- Cans of paint and cleaning products, to achieve the desired aesthetic appearance, and to contribute to ensuring long enclosure lifetime;
- Earthing accessories, to establish safe earthing connections and to help customers fulfil all safety regulations and standards;
- Document pocket, which is a versatile, self-adhesive pocket for A4 documents.

Eldon provides several solutions for the above listed accessories, to meet frequently requested special requirements. The lighting range includes both fluorescent and LED lights, as well as different cables, to make all the necessary connections. Door-operated switches are also available, so that lights are automatically switched on whenever the enclosure door is opened.



01 WIDE RANGE OF CABLE MANAGEMENT PRODUCTS

Eldon offers a wide range of cable management, from simple cable glands up to gland plates for cables with pre-assembled connectors.



04 INSTALLING LARGE NUMBER OF CABLES

Cable entry gland plates allow for installation of several cables when the space is limited, reducing the space required by up to 50%.



02 REDUCED INSTALLATION TIME

Eldon offers a range of lights and related accessories designed to reduce assembly and cabling time.



05 HIGH LEVEL OF PROTECTION

High IP protection degrees, up to IP 67, is available for demanding applications.



03 REDUCED ON SITE ASSEMBLY TIME

Eldon also offers accessories that reduce the cabling labor, such as gland plates with knock-outs, to avoid machining during the cable glands installation.





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