



*Saves Your Energy*

# Enclosing solutions

**For demanding environments**



Solutions for industrial use

# Enclosing solutions

## For your specific needs

At Ensto Industrial Solutions, we offer you high-quality standard and customer-specific enclosing solutions made from plastics and metals. Our solutions are developed for demanding industrial environments requiring a high degree of protection and extreme durability.

Our broad product range covers thermoplastic, polyester, sheet steel, and aluminium enclosures, alongside related accessories suitable for extremely challenging environments.

Our customer-specific service offering includes the customizing of standard enclosures, along with specially designed enclosures. We also offer integration services including the sourcing of third-party components.

## Benefits of using our solutions



### Reliable long-term partner

Ensto is a financially solid family-owned company founded in 1958. We have modern production facilities and quality assured processes, offering excellent customer care.



### Experienced professionals

We are experts with over 50 years experience in industrial solutions. We have knowledge of solutions made for a wide range of applications in various environments and an excellent design team to support your processes.



### Reliable and fast deliveries

You get our products when you need them. This brings cost-savings, helping you optimize your operations.



### Reliable, certified products

Our enclosures are designed and tested to serve a broad range of industrial applications, in diverse environments.



### Products with long service life

Thanks to their clever design, our enclosures are reliable and have a long lifespan. This brings you savings on installation maintenance and replacement costs.












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# A broad, globally used selection of enclosing solutions

We are specialists in enclosures and customer-specific enclosing solutions. Our standard product range includes thermoplastic, polyester, sheet steel, and aluminium enclosures, with the related accessories suitable for demanding environments.



Our service offering includes both customizing of standard enclosures and the design and manufacture of special enclosing solutions developed in close cooperation with your organization to suit your specific needs. We also offer assembly services, and sourcing of third-party components.

We are a reliable and flexible partner with experienced personnel. Our strengths include good knowledge of various materials and an innovative design department.

**For further information, visit [www.ensto.com/enclosingsolutions](http://www.ensto.com/enclosingsolutions).**

## Ensto Cubo ENCLOSING SOLUTIONS



**Services**  
Machining · Prints · Painting · Assembly  
Customer-specific sizes · Testing · Sourcing

### Thermoplastics



Size range:  
53 x 55 x 36 to 400 x 600 x 185 mm



IP66  
IP67

### Sheet steel



Size range:  
150 x 150 x 80 to 1000 x 1200 x 300 mm

### Polyester

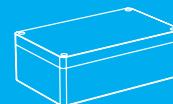


Size range:  
75 x 80 x 56 to 600 x 800 x 300 mm



IK07  
IK08  
IK09

### Aluminium



Size range:  
50 x 45 x 30 to 313 x 404 x 181 mm



Certified operations · Modern production facilities · Reliable and fast deliveries · One-stop shop  
Products designed to last · Experience with customer-specific solutions · Experienced design department



# Widely applicable

We have broad experience in creating enclosing solutions for many industrial segments. Our reference from long-term customer relationships with globally recognized industrial companies is testament to our reliability and superior customer service.

Our enclosing solutions protect your electronic equipment in numerous applications from various external risk factors, among them dust, water, moisture, impacts and tampering. Thanks to their high degree of protection and impact strength, our solutions are able to withstand challenging environments in even the most demanding industries.

Our offering also includes explosion protection enclosing solutions targeted for hazardous areas requiring demanding Ex certifications. These solutions are introduced in a separate explosion protection solutions catalogue and on the related website [www.enstoex.com](http://www.enstoex.com).

Food industry



Agriculture



Infrastructure



Transportation



Shipbuilding



Industrial automation



Energy production



Water treatment



Waste management



# Choosing an enclosure

When choosing a protective enclosure, understanding the principles of operation of the equipment that will be installed, as well as the conditions in which that equipment will operate, is crucial. With this information, precise and accurate identification of the required enclosure parameters is possible. Parameters to be considered include:



## Material

Our Ensto Cubo range includes enclosures made of thermoplastics (ABS and polycarbonate), polyester, sheet steel (polyester-painted mild steel and stainless steel, AISI 304 or AISI 316L) and aluminium. We use high-quality materials provided to us by the world's leading suppliers. Using

the right material ensures the safety of the installed equipment and its users while also eliminating the risk of unnecessary additional costs arising from unexpected downtime. The maintenance needs of an enclosure depend on the materials used.



## Dimensions

The size of the enclosure is determined by the minimum and/or maximum dimensions of the application. When selecting the size, please consider whether further components are likely to be added at a later stage and, if so, whether the dimensions of the enclosure will still be adequate.

We have a wide range of sizes available for our standard enclosures. In addition to these, we can create solutions with customer-specific sizes. The manufacture of steel enclosures with customer-specific dimensions is cost-efficient even with small quantities.



## Degree of protection

For effective enclosure, the degree of protection is an important factor. The degree of protection is defined purely for the enclosure and should be maintained during the installation work, meaning that, for instance the IP class of the cable glands used for cable entries should be higher or the same as that of the enclosure. Further information about degrees of protection is available on page 10.

high-temperature wash-down applications. These applications are dust tight and able to withstand high-pressure and steam cleaning.

### IK code (European standard EN 62262)

The IK code for our thermoplastic and steel enclosures ranges between IK06 and IK09.

### Environmental type classification UL 50 E

Our enclosures are tested according to American environmental type classification by the UL. Environmental type classification is also known as NEMA classification. Further information can be found on the UL website [www.ul.com](http://www.ul.com).

### IP code (European standard EN 60529)

All Ensto Cubo enclosures are designed for use in demanding environments. Their IP code ranges between IP55 and IP67. We have also made customer-specific solutions with an IP69K rating that covers high-pressure,



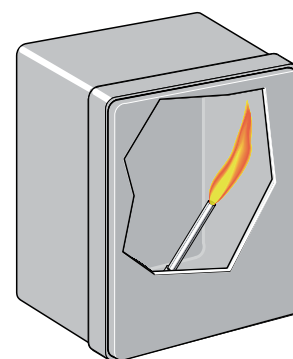


## Flammability

Flammability is defined as how easily something will burn or ignite, causing fire or combustion. The flammability-related requirements for an enclosure depend on the application for which it is used. Flammability class refers to classification of the ignition- and burning-resistance characteristics of other than metal or ceramic materials. Our enclosures have been tested in terms of flammability by Underwriters Laboratories.

Most of our polycarbonate enclosures have been tested according to UL 746C and pass the demanding five-inch flame testing performed and certified by SGS.

The flammability rating of our ABS enclosure raw material is UL 94 HB. Please see the Ensto Cubo technical information table below for further details.



## Certificates

Ensto Cubo enclosures are certified in accordance with EN 62208 (SGS Fimko). Most of our polycarbonate enclosures are also UL and cUL listed (Underwriters Laboratories, File # E 189312). The Russian certification

is in accordance with Euroasian Customs Union regulations. Many of our enclosures also have a Germanischer Lloyd certificate for marine applications. Please see the certificates table below for further details.

Ensto Cubo series	S		D		O		C	W	M	N	E	EO	F	H
Material	PC	ABS	PC	ABS	PC	ABS	PC	PC	GRP	GRP	SS, AS, PPMS	PPMS	SS, AS, PPMS	AL
SGS Fimko	X	X	X	X	X	X	X	X			X	X	X	
UL	X		X		X		X	X		X	X		X	
cUL	X		X		X		X	X		X	X		X	
Russian certification	X	X	X	X	X	X	X	X			X		X	
Germanischer Lloyd	X		X		X		X				X		X	

Material:  
 PC = polycarbonate  
 ABS = acrylonitrile butadiene styrene  
 GRP = glass reinforced polyester  
 AL = aluminium  
 PPMS = polyester-painted mild steel  
 SS = stainless steel, AISI 304  
 AS = stainless steel, AISI 316L

Certificates:  
 UL = Underwriters Laboratories, File # E 189312 (USA)  
 cUL = Underwriters Laboratories, File # E 189312 (Canada)  
 Germanischer Lloyd = Category 'A' Shipping Register (Germany)

## Ensto Cubo technical information

Enclosure series	Cubo S		Cubo D		Cubo O		Cubo C	Cubo W
Material	PC	ABS	PC	ABS	PC	ABS	PC	PC
Enclosure side types	Plain sides, metric and Pg knockouts	Plain sides	Plain sides	Plain sides	Plain sides, metric knockouts	Plain sides	Flange knockouts	Plain sides
Minimum size (mm)	75 x 125 x 35		53 x 55 x 36		200 x 200 x 132		200 x 200 x 132	200 x 200 x 132
Maximum size (mm)	175 x 250 x 150		230 x 300 x 111		400 x 600 x 187		400 x 600 x 187	400 x 600 x 187
Degree of protection	IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67	IP66, IP67
Impact resistance	IK08 (-25 °C...+35 °C)	IK07 (+35 °C) IK06 (-25 °C)	IK08 (-25 °C...+35 °C)	IK07 (+35 °C) IK06 (-25 °C)	IK08 (-25 °C...+35 °C)	IK08 (+35 °C) IK07 (-25 °C)	IK08 (-25 °C...+35 °C)	IK08 (-25 °C...+35 °C)
Environmental type (UL)	4, 4X, 6, 12, 13	N/A	4, 4X, 6, 12, 13	N/A	4, 4X, 12, 13	N/A	4, 4X, 12, 13	4, 4X, 12, 13
Environmental type (cUL)								
Continuous operating temperature	-40 °C... +80 °C	-40 °C... +60 °C	-40 °C... +80 °C	-40 °C... +60 °C	-40 °C... +80 °C	-40 °C... +60 °C	-40 °C... +80 °C	-40 °C... +80 °C
Flammability	UL 746C	UL 94 HB	UL 746C	UL 94 HB	UL 746C	UL 94 HB	UL 746C	UL 746C

Enclosure series	Cubo M	Cubo N	Cubo E		Cubo EO	Cubo F		Cubo H
Material	GRP	GRP	SS	PPMS	PPMS	SS	PPMS	AL
Enclosure side types	Plain sides	Plain sides	Plain sides	Plain sides, flange openings	Flange knockouts	Plain sides	Plain sides, flange openings	Plain sides
Minimum size (mm)	75 x 80 x 55	250 x 300 x 140	200 x 300 x 150		190 x 240 x 138	150 x 150 x 80		50 x 45 x 30
Maximum size (mm)	400 x 405 x 120	600 x 800 x 300	1000 x 1200 x 300		480 x 960 x 248	800 x 400 x 120		310 x 601 x 180
Degree of protection	IP66	IP66	IP66 <sup>1)</sup>	IP66 <sup>1)</sup>	IP66	IP66	IP66	IP66
Impact resistance	7 Nm	IK10 <sup>2)</sup>	IK09 (-25 °C...+35 °C)	IK09 (-25 °C...+35 °C)	IK09 (-25 °C...+35 °C)	IK09 (-25 °C...+35 °C)	IK09 <sup>2)</sup> (-25 °C...+35 °C)	7 Nm
Environmental type (UL)	N/A	N/A	1, 4X, 12, 13	1, 4X, 12, 13	N/A	1, 4X, 12, 13	1, 4X, 12, 13	N/A
Continuous operating temperature	-40 °C... +110 °C	-40 °C... +80 °C	-40 °C... +80 °C	-40 °C... +80 °C	-40 °C... +80 °C	-40 °C... +80 °C	-40 °C... +80 °C	-40 °C... +110 °C
Flammability	N/A	UL 746C	N/A	N/A	N/A	N/A	N/A	N/A

Material:  
 PC = polycarbonate  
 ABS = acrylonitrile butadiene styrene  
 GRP = glass reinforced polyester  
 AL = aluminium  
 PPMS = polyester-painted mild steel  
 SS = stainless steel, AISI 304  
 AS = stainless steel, AISI 316L

N/A = No information available

<sup>1)</sup> Models with two doors: IP55

<sup>2)</sup> Models with polycarbonate window: IK07 (-5 °C...+80 °C)

<sup>3)</sup> For standard sizes. Cubo X series has scalable dimensions:

- Width (W) from 150 to 1,000 mm
- Height (H) from 150 to 1,500 mm
- Depth (D) from 90 to 400 mm

# Materials comparison



Our product range comprises enclosing solutions made from thermoplastics, polyester, sheet steel and aluminium. Below, we compare the various materials for their individual advantages and disadvantages.

## Thermoplastics

Ensto Cubo thermoplastic enclosures are manufactured in high-quality halogen-free and recyclable polycarbonate or ABS plastics. Although plastic is much lighter than steel, it still has very high impact-resistance.

In addition, any dents or bumps are not as noticeable with plastic as they would be with steel. For the maintenance of these enclosures, cleaning with a mild detergent is recommended.

### Polycarbonate (PC)

- + High impact-resistance
- + High degree of protection
- + Light weight
- + Good resistance to chemicals
- + Wide range of operating temperatures
- + Self-extinguishing material
- + Easy machining with standard tools
- + Excellent insulation properties
- + Suitable for outdoor use
- + Also available with transparent cover
- Because of the fiberglass used, possible difficulty in achieving the desired color shade
- Resistance against some solvents

### ABS (Acryl-butadiene styrene)

- + Cost-effectiveness
- + Light weight
- + Chemical-resistance
- + Easy machining with standard tools
- Impact-resistance lower than that of polycarbonate
- Narrower temperature-resistance range than polycarbonate
- Low resistance to UV radiation
- Not suitable for outdoor use
- Not available with transparent cover
- No self-extinguishing property



## Polyester

Glass-reinforced polyester shows superb resistance to even extreme temperatures. It has high corrosion-resistance and is very resistant to solvents. Polyester is more expensive than polycarbonate and ABS. Since enclosures made from this material are difficult to machine, we recommend that you let us customize them for you. In work on polyester enclosures, it is important that you use an anti-dust respirator filter.

### Polyester (GRP, glass-reinforced polyester)

- + Excellent temperature-resistance
- + Excellent impact-resistance
- + Good corrosion-resistance
- + Good resistance against solvents
- + Suitability for oil refineries and the petrochemical and chemical industries
- More expensive than thermoplastic materials
- Machining may be challenging due to fiber content
- Non-recyclable material





## Sheet steel

Steel is a cost-effective material that offers high impact-resistance and a high degree of protection. Steel enclosures can easily be made in customer-specific dimensions. The material thickness of our standard enclosures is 1.25 or 1.5 mm.

### Polyester-painted mild steel

- + High impact-resistance
- + High degree of protection
- + Easy to customize; customer-specific dimensions possible
- Risk of corrosion

### Stainless steel (AISI 304)

In addition to the advantages of polyester-painted mild steel:

- + Excellent corrosion-resistance
- + Excellent resistance to UV radiation
- + Suitable for outdoor use (a rain shelter is recommended)
- + Excellent suitability for e.g the food industry
- More expensive than painted mild steel

### Stainless steel (AISI 316L)

- In addition to the advantages of AISI 304:
- + Extremely high resistance to corrosion
  - + Excellent suitability for offshore industry
  - + Excellent suitability for paper-industry
  - + Customer-specific dimensions possible
  - More expensive than stainless steel AISI 304



## Aluminium

The relative weight of aluminium is only about a quarter the weight of steel. Aluminium is, however, more expensive than steel. It has high impact-resistance, a wide temperature-resistance range and excellent corrosion-resistance.

### Aluminium

- + Lighter material than steel
- + High impact-resistance
- + Good resistance against solvents
- + A wide range of operating temperatures
- + Excellent corrosion-resistance
- Expensive



# Degree of protection

## IP Code (European standard EN 60529)

The IP Code consists of the letters IP followed by two digits and an optional letter. The first numeral of the code classifies the degrees of protection provided against the intrusion of solid objects and dust. The

second numeral specifies the protection against water. The optional letter may be appended to classify only the level of protection against human access to hazardous components.

### 1st numeral: Protection against intrusion



### 2nd numeral: Protection against water



1st numeral		2nd numeral	
0	No protection	0	No protection
1	Protection against objects $\geq 50$ mm	1	Protection against vertically falling water drops
2	Protection against objects $\geq 12.5$ mm	2	Protection against rain drops falling at max. 15° angle
3	Protection against objects $\geq 2.5$ mm	3	Protection against rain drops falling at max. 60° angle
4	Protection against solid objects $\geq 1$ mm	4	Protection against rain drops falling from all directions
5	Protection against dust, limited intrusion acceptable in all directions	5	Protection against low pressure jet water from all directions*
6	Total protection against dust	6	Protection against jet water under pressure*
		7	Protection against water intrusion under submersion at 15 cm to 1 m depth, 0.5 hour
		8	Protection against water intrusion under long term submersion under pressure
		9	Protection against high pressure and high temperature water jets

\*Minor intrusion acceptable

## IK code (European standard EN 62262)

IK code is an international numerical classification for the degree of protection provided by enclosures for electrical equipment against

external mechanical impact. The IK code for our thermoplastic and steel enclosures ranges between IK06 and IK09.

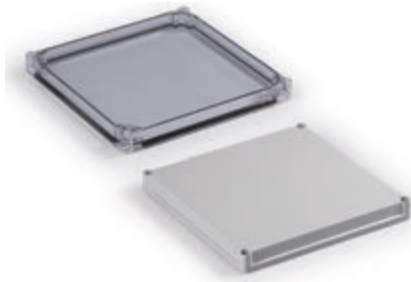
### Protection against external mechanical impact



IK code	Impact energy (joules)
01-05	<1
06	1
07	2
08	5
09	10
10	20



# Ensto Cubo enclosures in more detail



## Enclosure covers

The enclosure cover can be transparent, so that the status of the equipment inside is easy to monitor. With thermoplastic enclosures, the whole cover is either grey or transparent. Grey covers are available in both ABS and polycarbonate. Transparent covers are available only with polycarbonate.

Ensto Cubo F terminal enclosures made of steel can be equipped with a polycarbonate window. Modular enclosures come with a hinged window available in either smoke-grey or transparent color.



## Enclosure walls

The material thickness of our thermoplastic enclosures is greater than that of similar products on the market. This aids in the machining of threads. In addition, the use of, for instance, push buttons on the cover is safer, since the material is more rigid.

The bases of polycarbonate enclosures with knockouts have been reinforced with

fibreglass in order to add rigidity to the enclosure walls and to make it easier to knock out the cable entries.

We have a modular tooling structure that enables cost-efficient mold modifications. This proves especially efficient when creating customer-specific holes and cutouts in a large series of enclosures.



## Enclosure gaskets

We use injected, jointless PUR (polyurethane) gaskets in our thermoplastic, polyester, steel and aluminium enclosures, to ensure a high protection class. Some enclosures are available with silicone gaskets, on request.

The temperature-resistance of the various gasket materials is as follows:

- Polyurethane -40 °C... +80 °C
- Chloroprene (CR) -40 °C... +110 °C
- Silicone -50 °C... +150 °C



## Further information

Further information, technical data, accessory details, enclosure search tool, and technical drawings are available on our website at [www.ensto.com/products/enclosures](http://www.ensto.com/products/enclosures).

# Our service offering

In addition to standard enclosures, we also provide you with customization of standard enclosures and creation of special-design enclosures. We also offer customer-specific integration services as

a part of our enclosing solutions. These integrations can be made for all of our enclosures, and the delivery is a ready, functioning package for the customer's own assembly process.

## Services related to our customer-specific enclosing solutions

### Customizing of standard enclosures



Machining



Printing



Color service



Mechanical assembly



Customer-specific sizes

### Special-design enclosures



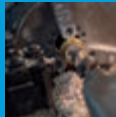
Feasibility studies



3D modeling, prototyping and technical documentation



Mold sourcing and maintenance



Sub-assembly testing and certification



Manufacturing of customer-specific special tools

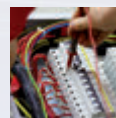
### Integration services



Mechanical assembly



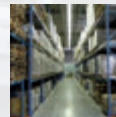
Electromechanical assembly



Testing



Sourcing



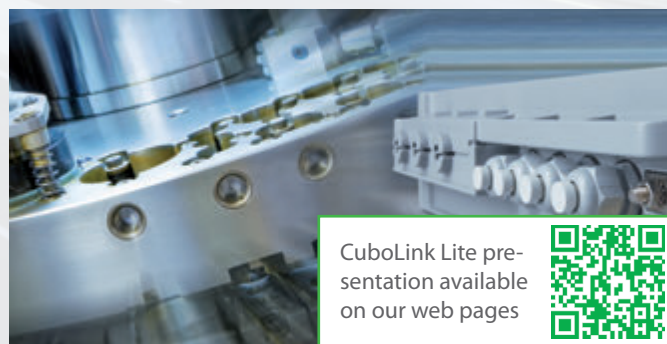
Logistics and quality assurance

### CuboLink Lite configuration tool

CuboLink Lite is an Internet-based configuration tool designed for customizing our enclosures. The tool provides excellent support for the electronic order-delivery process making the process leaner and faster.

This tool is simple to use. You can select the standard enclosure from our range and then easily perform the necessary configuration. Openings and components can be added by using the drag-and-drop functionality.

Download it free of charge at [www.ensto.com/cubolink](http://www.ensto.com/cubolink)



CuboLink Lite presentation available on our web pages



Download

Configuration

Document request

Checking and ordering

Manufacturing

Delivery



# Engineering services

## For your specific needs

Our innovative specialists are happy to support your engineering department in finding cost-effective solutions for your specific needs, saving on resources and making your processes leaner.

### What are your needs?

#### Cost-efficient solutions

Our experts support you in acquiring and designing safer and more cost-efficient enclosing solutions tailored especially to your needs.

#### Customer-specific solutions

With our experienced design team, we support your product design for creation of specially designed enclosures, including a smooth technical documentation process, 3D modeling, and rapid prototyping.

#### High reliability

With our knowledge and range of materials, we are able to provide end customers with the greatest reliability. Material selections are always made together with our customers for optimal and secure manufacturability and technical performance.

#### Design files

We support your end-solution design process further by offering the design files related to both our standard and customer-specific solutions. The file formats available are PDF, DWG, DXF, STEP, and separately zipped STEP files, for use with, for example, E3 software.





# Quality-assured manufacturing

Guaranteeing you smooth operations

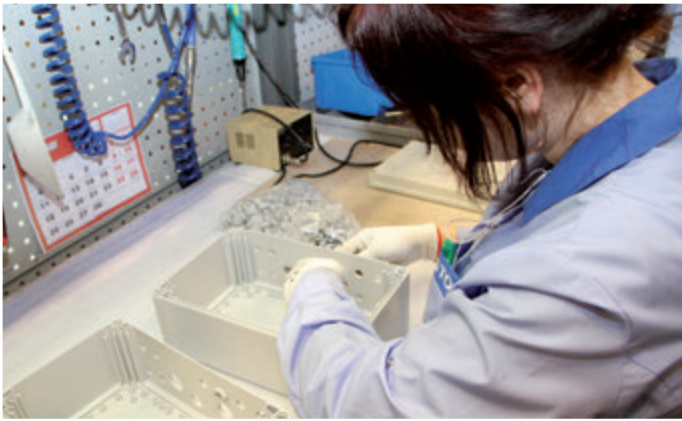
We have dedicated in-house production facilities with state-of-the-art robot technology in both Estonia and Finland. Our factories have received ISO certification and undergo regular internal and external audits.

We are a financially solid company that has been profitable every year since our foundation in 1958. We strive to live up to our promise of sustainability by organizing our production and logistics processes to minimize energy consumption and waste, while implementing industry's best practises to assure the highest quality and a healthy work environment. We are also actively involved in auditing, certification testing, and continuously improving our work processes, and we adopt new models to make the human activities in our production chain more efficient. For our customers, this translates in shorter lead times and greater flexibility in manufacturing and logistics.



Watch our video: Ensto's world-class manufacturing benefits customers in many ways





**Production in Tallinn, Estonia**

- 9,000 m<sup>2</sup> of floor space
- 24 injection moulding machines, with 50 to 1,000 t of clamping force
- Robot cells and CNC machines for customization
- Integration services and contract manufacturing of industrial housings

**Production plant in Mikkeli, Finland**

- 11,000 m<sup>2</sup> of floor space
- Integration services and thin-sheet contract manufacturing of industrial housings
- Uses the industry's most advanced manufacturing technology
  - Servo-operated blank-cutting laser and punching
  - Robotic bending
  - Robotic welding
- Surface pre-treatment and powder coating lines





# Thermoplastic enclosures

Ensto Cubo thermoplastic enclosures are manufactured in high-quality halogen-free and recyclable polycarbonate or ABS plastics. Although plastic is much lighter than steel, it has very high impact-resistance. In addition, any dents or bumps are not as noticeable in plastic as they would be with steel. Both machining and maintenance of our thermoplastic enclosures is easy, and no special tools are needed.

## Benefits of using our solutions



### Greater material thickness

Our thermoplastic enclosures have a greater material thickness than similar products in the market. This aids in such operations as the machining of threads and usage of push buttons, as the material is more rigid.



### Fibreglass-reinforced bases

The bases of our enclosures with knockouts are reinforced with fibreglass, increasing the rigidity of the enclosure walls and making it easier to knock out the cable entries.



### Cost-efficient mold modifications

We have a modular tooling structure that enables cost-efficient modification of molds. This brings special cost-effectiveness to making of customer-specific holes and cutouts in a large series of enclosures. It also eliminates the risk for machining errors.



### Lightweight products

The enclosures are low in weight, which brings cost savings to their transportation and makes installation easier.

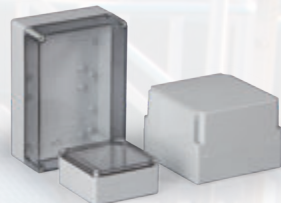


### Durability and easy maintenance

Thanks to the properties of plastics, Ensto enclosures are corrosion-free, and they are easy to maintain and clean, since there is no need for repainting – even if they have become scratched. The use of non-conductive material also improves the safety of your operations.



# Range comparison



## Ensto Cubo S enclosures, IP66 and IP67

- Sizes: 75 x 125 x 35 to 175 x 250 x 150 mm
- Available with plain sides or knockouts (metric or Pg)
- Cover and cover screws equipped with sealing holes
- Slots in the base for printed circuit boards



## Ensto Cubo D enclosures, IP66 and IP67

- Sizes: 53 x 55 x 36 to 230 x 300 x 111 mm
- Available with plain sides
- Contemporary design with faceted corners and cover plugs
- Fastening pods inside the cover included
- Slots in the base for printed circuit boards



## Ensto Cubo O enclosures, IP66 and IP67

- Sizes: 200 x 200 x 132 to 400 x 600 x 187 mm
- Available with plain sides or with metric knockouts
- 55-millimeter-deep extension frame available for alternative depths in all sizes
- Cover and cover screws equipped with sealing holes
- Cover that can also be mounted on the back of the base



## Ensto Cubo C enclosures, IP66 and IP67

- Sizes: 200 x 200 x 132 to 400 x 600 x 187 mm
- Available with flange knockouts
- Cover that can be mounted on the back of the base
- 55-millimeter-deep extension frame available for alternative depths in all sizes
- Covers and cover screws equipped with sealing holes
- A products based on the Ensto Cubo O enclosure series.



## Ensto Cubo W wall cabinets, IP66 and IP67

- Sizes: 200 x 200 x 132 to 400 x 600 x 187 mm
- Available with plain sides
- Pre-assembled hinges and quick-release latches as standard
- 55-millimeter-deep extension frame available for alternative depths in all sizes
- A product based on the Ensto Cubo O enclosure series



# Ensto Cubo S enclosures

## IP66 and IP67

Sizes 75 x 125 x 35 to 175 x 250 x 150 mm



### Ensto Cubo S enclosure in brief:

- Available with plain sides or knockouts (metric or Pg)
- Available in 36 sizes, two base depths (25 and 50 mm) and 5 different cover heights
- Cover and cover screws equipped with sealing holes
- Slots in the base for printed circuit boards

### Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws

### Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

### Conformity

PC enclosures:	CE
ABS enclosures:	CE

### Technical information

Degree of protection:	IP66 and IP67
Impact resistance:	PC: IK08 (-25 °C... +35 °C) ABS: IK07 (+35 °C)/IK06 (-25 °C)
Operating temperature:	PC: -40 °C ... +80 °C ABS: -20 °C ... +60 °C
Short term temperature range:	PC: -40 °C... +120 °C ABS: -20 °C ... +120 °C
Flammability rating:	PC: UL 746C ABS: UL 94 HB
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	4, 4X, 12, 13, 6
Environmental type (cUL):	4, 4X, 12, 6
Outdoor suitability:	PC: UL 746C f1 rated material
Insulation:	Class II

### Material

Base:	ABS or fibreglass reinforced polycarbonate
Cover:	ABS or polycarbonate
Cover screws:	Fibreglass reinforced polyamide
Gasket:	PUR (polyurethane)

### Enclosure side types

PC enclosures:	Plain sides, metric knockouts or Pg knockouts
ABS enclosures:	Plain sides

### Standard color

Base:	Grey RAL 7035
Cover:	Grey RAL 7035 or transparent



The enclosure has unique slots in the base for printed circuit boards.



The cover can be sealed.



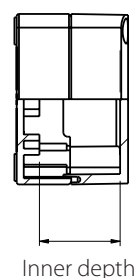
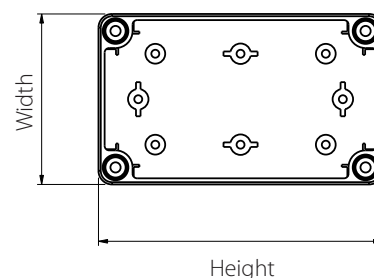
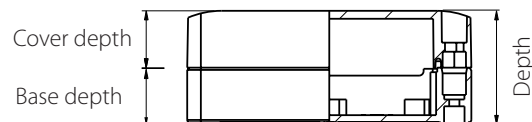
Enclosure with a low (10 mm) cover and a low (25 mm) base.



This enclosure is equipped with hinges (DSH11), cover plugs and wing head parts (SLW1).

### Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).





## Ensto Cubo S enclosures with plain sides

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Base depth (mm)	Cover depth (mm)	Polycarbonate grey cover (product code, GTIN-13)	Polycarbonate transparent cover (product code, GTIN-13)	ABS grey cover (product code, GTIN-13)	ABS transparent cover (product code, GTIN-13)	UL-listed polycarbonate grey cover (product code, GTIN-13)	UL-listed polycarbonate transparent cover (product code, GTIN-13)		
75	125	35	20.5	25	10	SPCP081304LG 6438100101299	SPCP081304LT 6438100101305	SABP081304LG 6438100101312	SABP081304LT 6438100101329	SPCP081304LG.U 6438100115814	SPCP081304LT.U 6438100116170		
		50	35.5	25	25	SPCP081305LG 6438100101336	SPCP081305LT 6438100101343	SABP081305LG 6438100101350	SABP081305LT 6438100101367	SPCP081305LG.U 6438100115821	SPCP081305LT.U 6438100116187		
		60	45.5	50	10	SPCP081306G 6438100101374	SPCP081306T 6438100101381	SABP081306G 6438100101398	SABP081306T 6438100101404	SPCP081306G.U 6438100115838	SPCP081306T.U 6438100116194		
		75	60.5	25	50	SPCP081308LG 6438100101459	SPCP081308LT 6438100101466	SABP081308LG 6438100101473	SABP081308LT 6438100101480	SPCP081308LG.U 6438100115852	SPCP081308LT.U 6438100116200		
		75	60.5	50	25	SPCP081308G 6418677155031	SPCP081308T 6418677155024	SABP081308G 6418677155048	SABP081308T 6418677155055	SPCP081308G.U 6438100115845	SPCP081308T.U 6438100116217		
		100	85.5	25	75	SPCP081310LG 6438100101497	SPCP081310LT 6438100101503	SABP081310LG 6438100101510	SABP081310LT 6438100101527	SPCP081310LG.U 6438100115876	SPCP081310LT.U 6438100116224		
		100	85.5	50	50	SPCP081310G 6418677155086	SPCP081310T 6418677155093	SABP081310G 6418677155109	SABP081310T 6418677155116	SPCP081310G.U 6438100115869	SPCP081310T.U 6438100116231		
		125	110.5	50	75	SPCP081313G 6418677155147	SPCP081313T 6418677155154	SABP081313G 6418677155161	SABP081313T 6418677155178	SPCP081313G.U 6438100115883	SPCP081313T.U 6438100116248		
		100	100	35	20.5	25	10	SPCP101004LG 6438100101534	SPCP101004LT 6438100101541	SABP101004LG 6438100101558	SABP101004LT 6438100101565	SPCP101004LG.U 6438100115990	SPCP101004LT.U 6438100116255
				60	45.5	50	10	SPCP101006G 6438100101619	SPCP101006T 6438100101626	SABP101006G 6438100101633	SABP101006T 6438100101640	SPCP101006G.U 6438100115906	SPCP101006T.U 6438100116262
		125	125	35	20.5	25	10	SPCP131304LG 6438100101671	SPCP131304LT 6438100101688	SABP131304LG 6438100101695	SABP131304LT 6438100101701	SPCP131304LG.U 6438100115913	SPCP131304LT.U 6438100116279
				50	35.5	25	25	SPCP131305LG 6438100101718	SPCP131305LT 6438100101725	SABP131305LG 6438100101732	SABP131305LT 6438100101749	SPCP131305LG.U 6438100115920	SPCP131305LT.U 6438100116286
60	45.5			50	10	SPCP131306G 6438100101756	SPCP131306T 6438100101763	SABP131306G 6438100101770	SABP131306T 6438100101787	SPCP131306G.U 6438100115937	SPCP131306T.U 6438100116293		
75	60.5			25	50	SPCP131308LG 6438100101817	SPCP131308LT 6438100101824	SABP131308LG 6438100101831	SABP131308LT 6438100101848	SPCP131308LG.U 6438100115944	SPCP131308LT.U 6438100116316		
75	60.5			50	25	SPCP131308G 6418677155208	SPCP131308T 6418677155215	SABP131308G 6418677155222	SABP131308T 6418677155239	SPCP131308G.U 6438100115951	SPCP131308T.U 6438100116309		
100	85.5			25	75	SPCP131310LG 6438100101855	SPCP131310LT 6438100101862	SABP131310LG 6438100101879	SABP131310LT 6438100101886	SPCP131310LG.U 6438100115968	SPCP131310LT.U 6438100116330		
100	85.5			50	50	SPCP131310G 6418677155260	SPCP131310T 6418677155277	SABP131310G 6418677155284	SABP131310T 6418677155291	SPCP131310G.U 6438100115975	SPCP131310T.U 6438100116323		
125	110.5			50	75	SPCP131313G 6418677155321	SPCP131313T 6418677155338	SABP131313G 6418677155345	SABP131313T 6418677155352	SPCP131313G.U 6438100115982	SPCP131313T.U 6438100116347		
175	125			35	20.5	25	10	SPCP131804LG 6438100101893	SPCP131804LT 6438100101909	SABP131804LG 6438100101916	SABP131804LT 6438100101923	SPCP131804LG.U 6438100115999	SPCP131804LT.U 6438100116354
				50	35.5	25	25	SPCP131805LG 6438100101930	SPCP131805LT 6438100101947	SABP131805LG 6438100101954	SABP131805LT 6438100101961	SPCP131805LG.U 6438100116002	SPCP131805LT.U 6438100116361
				60	45.5	50	10	SPCP131806G 6438100101978	SPCP131806T 6438100101985	SABP131806G 6438100101992	SABP131806T 6438100102005	SPCP131806G.U 6438100116019	SPCP131806T.U 6438100116378
				75	60.5	25	50	SPCP131808LG 6438100102050	SPCP131808LT 6438100102067	SABP131808LG 6438100102074	SABP131808LT 6438100102081	SPCP131808LG.U 6438100116033	SPCP131808LT.U 6438100116385
			75	60.5	50	25	SPCP131808G 6418677155383	SPCP131808T 6418677155390	SABP131808G 6418677155406	SABP131808T 6418677155413	SPCP131808G.U 6438100116026	SPCP131808T.U 6438100116392	
			100	85.5	25	75	SPCP131810LG 6438100102098	SPCP131810LT 6438100102104	SABP131810LG 6438100102111	SABP131810LT 6438100102128	SPCP131810LG.U 6438100116057	SPCP131810LT.U 6438100116408	
			100	85.5	50	50	SPCP131810G 6418677155444	SPCP131810T 6418677155451	SABP131810G 6418677155468	SABP131810T 6418677155475	SPCP131810G.U 6438100116040	SPCP131810T.U 6438100116415	
			125	110.5	25	100	SPCP131813LG 6438100102135	SPCP131813LT 6438100102142	SABP131813LG 6438100102159	SABP131813LT 6438100102166	SPCP131813LG.U 6438100116064	SPCP131813LT.U 6438100116422	
			125	110.5	50	75	SPCP131813G 6418677155505	SPCP131813T 6418677155512	SABP131813G 6418677155529	SABP131813T 6418677155536	SPCP131813G.U 6438100116071	SPCP131813T.U 6438100116439	
			150	135.5	50	100	SPCP131815G 6418677155567	SPCP131815T 6418677155574	SABP131815G 6418677155581	SABP131815T 6418677155598	SPCP131815G.U 6438100116088	SPCP131815T.U 6438100116446	
			250	125	110.5	50	75	SPCP132513G 6438100104696	SPCP132513T 6438100104702	SABP132513G 6438100104719	SABP132513T 6438100104726	SPCP132513G.U 6438100116095	SPCP132513T.U 6438100116453
					175	175	75	60.5	50	25	SPCP181808G 6418677155628	SPCP181808T 6418677155635	SABP181808G 6418677155642
175	175		100	85.5	50	50	SPCP181810G 6418677155680	SPCP181810T 6418677155697	SABP181810G 6418677155703	SABP181810T 6418677155710	SPCP181810G.U 6438100116118	SPCP181810T.U 6438100116484	
			125	110.5	50	75	SPCP181813G 6418677155741	SPCP181813T 6418677155758	SABP181813G 6418677155765	SABP181813T 6418677155772	SPCP181813G.U 6438100116125	SPCP181813T.U 6438100116460	
			150	135.5	50	100	SPCP181815G 6418677155802	SPCP181815T 6418677155819	SABP181815G 6418677155826	SABP181815T 6418677155833	SPCP181815G.U 6438100116132	SPCP181815T.U 6438100116491	
			75	60.5	50	25	SPCP182508G 6418677155864	SPCP182508T 6418677155871	SABP182508G 6418677155888	SABP182508T 6418677155895	SPCP182508G.U 6438100116149	SPCP182508T.U 6438100116507	
	250	100	85.5	50	50	SPCP182510G 6418677155925	SPCP182510T 6418677155932	SABP182510G 6418677155949	SABP182510T 6418677155956	SPCP182510G.U 6438100116156	SPCP182510T.U 6438100116514		
		150	135.5	50	100	SPCP182515G 6418677155987	SPCP182515T 6418677155994	SABP182515G 6418677156007	SABP182515T 6418677156014	SPCP182515G.U 6438100116163	SPCP182515T.U 6438100116521		



SPCP131304LG



SPCP131813G



SPCP131308T



SPCP182515T

## Ensto Cubo S enclosures with metric knockouts, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Base depth (mm)	Cover depth (mm)	Polycarbonate grey cover metric knockouts (product code, GTIN-13)	Polycarbonate transparent cover metric knockouts (product code, GTIN-13)	UL-listed polycarbonate grey cover metric knockouts (product code, GTIN-13)	UL-listed polycarbonate transparent cover metric knockouts (product code, GTIN-13)	
75	125	60	45.5	50	10	SPCM081306G <sup>(1)</sup> 6438100101411	SPCM081306T <sup>(1)</sup> 6438100101428	SPCM081306G.U <sup>(1)</sup> 6438100115371	SPCM081306T.U <sup>(1)</sup> 6438100115593	
		75	60.5	50	25	SPCM081308G <sup>(1)</sup> 6418677166358	SPCM081308T <sup>(1)</sup> 6418677166525	SPCM081308G.U <sup>(1)</sup> 6438100115388	SPCM081308T.U <sup>(1)</sup> 6438100115609	
		100	85.5	50	50	SPCM081310G <sup>(1)</sup> 6418677166365	SPCM081310T <sup>(1)</sup> 6418677166532	SPCM081310G.U <sup>(1)</sup> 6438100115395	SPCM081310T.U <sup>(1)</sup> 6438100115616	
		125	110.5	50	75	SPCM081313G <sup>(1)</sup> 6418677166372	SPCM081313T <sup>(1)</sup> 6418677166549	SPCM081313G.U <sup>(1)</sup> 6438100115401	SPCM081313T.U <sup>(1)</sup> 6438100115623	
100	100	60	45.5	50	10	SPCM101006G <sup>(2)</sup> 6438100101657	SPCM101006T <sup>(2)</sup> 6438100101664	SPCM101006G.U <sup>(2)</sup> 6438100115418	SPCM101006T.U <sup>(2)</sup> 6438100115630	
125	125	60	45.5	50	10	SPCM131306G <sup>(3)</sup> 6438100100445	SPCM131306T <sup>(3)</sup> 6438100100452	SPCM131306G.U <sup>(3)</sup> 6438100115425	SPCM131306T.U <sup>(3)</sup> 6438100115647	
		75	60.5	50	25	SPCM131308G <sup>(3)</sup> 6418677166389	SPCM131308T <sup>(3)</sup> 6418677166556	SPCM131308G.U <sup>(3)</sup> 6438100115432	SPCM131308T.U <sup>(3)</sup> 6438100115654	
		100	85.5	50	50	SPCM131310G <sup>(3)</sup> 6418677166396	SPCM131310T <sup>(3)</sup> 6418677166563	SPCM131310G.U <sup>(3)</sup> 6438100115449	SPCM131310T.U <sup>(3)</sup> 6438100115661	
		125	110.5	50	75	SPCM131313G <sup>(3)</sup> 6418677166402	SPCM131313T <sup>(3)</sup> 6418677166570	SPCM131313G.U <sup>(3)</sup> 6438100115456	SPCM131313T.U <sup>(3)</sup> 6438100115678	
	175	60	45.5	50	10	SPCM131806G <sup>(4)</sup> 6438100102012	SPCM131806T <sup>(4)</sup> 6438100102029	SPCM131806G.U <sup>(4)</sup> 6438100115463	SPCM131806T.U <sup>(4)</sup> 6438100115685	
		75	60.5	50	25	SPCM131808G <sup>(4)</sup> 6418677166419	SPCM131808T <sup>(4)</sup> 6418677166587	SPCM131808G.U <sup>(4)</sup> 6438100115470	SPCM131808T.U <sup>(4)</sup> 6438100115692	
		100	85.5	50	50	SPCM131810G <sup>(4)</sup> 6418677166426	SPCM131810T <sup>(4)</sup> 6418677166594	SPCM131810G.U <sup>(4)</sup> 6438100115487	SPCM131810T.U <sup>(4)</sup> 6438100115708	
		125	110.5	50	75	SPCM131813G <sup>(4)</sup> 6418677166433	SPCM131813T <sup>(4)</sup> 6418677166600	SPCM131813G.U <sup>(4)</sup> 6438100115494	SPCM131813T.U <sup>(4)</sup> 6438100115715	
	250	150	135.5	50	100	SPCM131815G <sup>(4)</sup> 6418677166440	SPCM131815T <sup>(4)</sup> 6418677166617	SPCM131815G.U <sup>(4)</sup> 6438100115500	SPCM131815T.U <sup>(4)</sup> 6438100115722	
		125	110.5	50	75	SPCM132513G <sup>(12)</sup> 6438100104733	SPCM132513T <sup>(12)</sup> 6438100104740	SPCM132513G.U <sup>(12)</sup> 6438100115517	SPCM132513T.U <sup>(12)</sup> 6438100115739	
	175	175	75	60.5	50	25	SPCM181808G <sup>(5)</sup> 6418677166457	SPCM181808T <sup>(5)</sup> 6418677166624	SPCM181808G.U <sup>(5)</sup> 6438100115524	SPCM181808T.U <sup>(5)</sup> 6438100115746
			100	85.5	50	50	SPCM181810G <sup>(5)</sup> 6418677166464	SPCM181810T <sup>(5)</sup> 6418677166631	SPCM181810G.U <sup>(5)</sup> 6438100115531	SPCM181810T.U <sup>(5)</sup> 6438100115753
125			110.5	50	75	SPCM181813G <sup>(5)</sup> 6418677166471	SPCM181813T <sup>(5)</sup> 6418677166648	SPCM181813G.U <sup>(5)</sup> 6438100115548	SPCM181813T.U <sup>(5)</sup> 6438100115760	
150			135.5	50	100	SPCM181815G <sup>(5)</sup> 6418677166488	SPCM181815T <sup>(5)</sup> 6418677166655	SPCM181815G.U <sup>(5)</sup> 6438100115555	SPCM181815T.U <sup>(5)</sup> 6438100115777	
250		75	60.5	50	25	SPCM182508G <sup>(6)</sup> 6418677166495	SPCM182508T <sup>(6)</sup> 6418677166662	SPCM182508G.U <sup>(6)</sup> 6438100115562	SPCM182508T.U <sup>(6)</sup> 6438100115784	
		100	85.5	50	50	SPCM182510G <sup>(6)</sup> 6418677166501	SPCM182510T <sup>(6)</sup> 6418677166679	SPCM182510G.U <sup>(6)</sup> 6438100115579	SPCM182510T.U <sup>(6)</sup> 6438100115791	
		150	135.5	50	100	SPCM182515G <sup>(6)</sup> 6418677166518	SPCM182515T <sup>(6)</sup> 6418677166686	SPCM182515G.U <sup>(6)</sup> 6438100115586	SPCM182515T.U <sup>(6)</sup> 6438100115807	

<sup>1)</sup> 2 x M16/25 + 6 x M12/20 knockouts

<sup>2)</sup> 2 x M16/25 + 4 x M12/20 knockouts

<sup>3)</sup> 4 x M16/25 + 6 x M12/20 knockouts

<sup>4)</sup> 4 x M16/25 + 8 x M12/20 knockouts

<sup>12)</sup> 4 x M20/25 knockouts

<sup>5)</sup> 4 x M12/20 + 4 x M16/25 + 10 x M12/20 knockouts

<sup>6)</sup> 4 x M12/20 + 4 x M16/25 + 12 x M12/20 knockouts

## Mounting plates and DIN rails

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Mounting plates, galvanized steel</b>				
SMP0813	For 75 x 125 mm enclosures	48 x 98 x 1.5	10	6418677156038
SMP1010	For 100 x 100 mm enclosures	78 x 78 x 1.5	10	6438100104849
SMP1313	For 125 x 125 mm enclosures	98 x 98 x 1.5	10	6418677156045
SMP1318	For 125 x 175 mm enclosures	98 x 148 x 1.5	10	6418677156052
SMP1325	For 125 x 250 mm enclosures	98 x 223 x 1.5	10	6438100104535
SMP1818	For 175 x 175 mm enclosures	148 x 148 x 1.5	10	6418677156069
SMP1825	For 175 x 250 mm enclosures	148 x 223 x 1.5	10	6418677156076
<b>DIN rails, DIN 46277/3, galvanized steel</b>				
DR3504.4	For 75 mm sides	35 x 50	10	6418677156090
DR3507.4	For 100 mm sides	35 x 80	10	6438100104450
DR3509.4	For 125 mm sides	35 x 100	10	6418677156106
DR3514.4	For 175 mm sides	35 x 150	10	6418677156113
DR3521.4	For 250 mm sides	35 x 225	10	6418677156120



SMP0813

## Ensto Cubo S enclosures with Pg knockouts, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Base depth (mm)	Cover depth (mm)	Polycarbonate grey cover Pg knockouts (product code, GTIN-13)	Polycarbonate transparent cover Pg knockouts (product code, GTIN-13)	UL-listed polycarbonate grey cover Pg knockouts (product code, GTIN-13)	UL-listed polycarbonate transparent cover Pg knockouts (product code, GTIN-13)	
75	125	60	45.5	50	10	SPCK081306G <sup>7)</sup> 6438100101435	SPCK081306T <sup>7)</sup> 6438100101442	SPCK081306G.U <sup>7)</sup> 6438100114978	SPCK081306T.U <sup>7)</sup> 6438100115173	
		75	60.5	50	25	SPCK081308G <sup>7)</sup> 6418677155000	SPCK081308T <sup>7)</sup> 6418677155017	SPCK081308G.U <sup>7)</sup> 6438100114985	SPCK081308T.U <sup>7)</sup> 6438100115180	
		100	85.5	50	50	SPCK081310G <sup>7)</sup> 6418677155062	SPCK081310T <sup>7)</sup> 6418677155079	SPCK081310G.U <sup>7)</sup> 6438100114992	SPCK081310T.U <sup>7)</sup> 6438100115197	
		125	110.5	50	75	SPCK081313G <sup>7)</sup> 6418677155123	SPCK081313T <sup>7)</sup> 6418677155130	SPCK081313G.U <sup>7)</sup> 6438100115005	SPCK081313T.U <sup>7)</sup> 6438100115203	
125	125	60	45.5	50	10	SPCK131306G <sup>8)</sup> 6438100101794	SPCK131306T <sup>8)</sup> 6438100101800	SPCK131306G.U <sup>8)</sup> 6438100115012	SPCK131306T.U <sup>8)</sup> 6438100115210	
		75	60.5	50	25	SPCK131308G <sup>8)</sup> 6418677155185	SPCK131308T <sup>8)</sup> 6418677155192	SPCK131308G.U <sup>8)</sup> 6438100115029	SPCK131308T.U <sup>8)</sup> 6438100115227	
		100	85.5	50	50	SPCK131310G <sup>8)</sup> 6418677155246	SPCK131310T <sup>8)</sup> 6418677155253	SPCK131310G.U <sup>8)</sup> 6438100115036	SPCK131310T.U <sup>8)</sup> 6438100115234	
		125	110.5	50	75	SPCK131313G <sup>8)</sup> 6418677155307	SPCK131313T <sup>8)</sup> 6418677155314	SPCK131313G.U <sup>8)</sup> 6438100115043	SPCK131313T.U <sup>8)</sup> 6438100115241	
	175	60	45.5	50	10	SPCK131806G <sup>9)</sup> 6438100102036	SPCK131806T <sup>9)</sup> 6438100102043	SPCK131806G.U <sup>9)</sup> 6438100115050	SPCK131806T.U <sup>9)</sup> 6438100115258	
		75	60.5	50	25	SPCK131808G <sup>9)</sup> 6418677155369	SPCK131808T <sup>9)</sup> 6418677155376	SPCK131808G.U <sup>9)</sup> 6438100115067	SPCK131808T.U <sup>9)</sup> 6438100115265	
		100	85.5	50	50	SPCK131810G <sup>9)</sup> 6418677155420	SPCK131810T <sup>9)</sup> 6418677155437	SPCK131810G.U <sup>9)</sup> 6438100115074	SPCK131810T.U <sup>9)</sup> 6438100115272	
		125	110.5	50	75	SPCK131813G <sup>9)</sup> 6418677155482	SPCK131813T <sup>9)</sup> 6418677155499	SPCK131813G.U <sup>9)</sup> 6438100115081	SPCK131813T.U <sup>9)</sup> 6438100115289	
	175	175	150	135.5	50	100	SPCK131815G <sup>9)</sup> 6418677155543	SPCK131815T <sup>9)</sup> 6418677155550	SPCK131815G.U <sup>9)</sup> 6438100115098	SPCK131815T.U <sup>9)</sup> 6438100115296
			75	60.5	50	25	SPCK181808G <sup>10)</sup> 6418677155604	SPCK181808T <sup>10)</sup> 6418677155611	SPCK181808G.U <sup>10)</sup> 6438100115104	SPCK181808T.U <sup>10)</sup> 6438100115302
			100	85.5	50	50	SPCK181810G <sup>10)</sup> 6418677155666	SPCK181810T <sup>10)</sup> 6418677155673	SPCK181810G.U <sup>10)</sup> 6438100115111	SPCK181810T.U <sup>10)</sup> 6438100115319
			125	110.5	50	75	SPCK181813G <sup>10)</sup> 6418677155727	SPCK181813T <sup>10)</sup> 6418677155734	SPCK181813G.U <sup>10)</sup> 6438100115128	SPCK181813T.U <sup>10)</sup> 6438100115326
175	250	150	135.5	50	100	SPCK181815G <sup>10)</sup> 6418677155789	SPCK181815T <sup>10)</sup> 6418677155796	SPCK181815G.U <sup>10)</sup> 6438100115135	SPCK181815T.U <sup>10)</sup> 6438100115333	
		75	60.5	50	25	SPCK182508G <sup>11)</sup> 6418677155840	SPCK182508T <sup>11)</sup> 6418677155857	SPCK182508G.U <sup>11)</sup> 6438100115142	SPCK182508T.U <sup>11)</sup> 6438100115340	
		100	85.5	50	50	SPCK182510G <sup>11)</sup> 6418677155901	SPCK182510T <sup>11)</sup> 6418677155918	SPCK182510G.U <sup>11)</sup> 6438100115159	SPCK182510T.U <sup>11)</sup> 6438100115357	
		150	135.5	50	100	SPCK182515G <sup>11)</sup> 6418677155963	SPCK182515T <sup>11)</sup> 6418677155970	SPCK182515G.U <sup>11)</sup> 6438100115166	SPCK182515T.U <sup>11)</sup> 6438100115364	

<sup>7)</sup> 2 x Pg9/13.5 + 6 x Pg9/13.5 knockouts

<sup>8)</sup> 4 x Pg16/21 + 6 x Pg9/13.5 knockouts

<sup>9)</sup> 4 x Pg16/21 + 8 x Pg9/13.5 knockouts

<sup>10)</sup> 4 x Pg16/21 + 4 x Pg9/16 + 10 x Pg9/13.5 knockouts

<sup>11)</sup> 4 x Pg16/21 + 4 x Pg9/16 + 12 x Pg9/13.5 knockouts

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
DSH1	Hinge pair, polycarbonate	28 x 28	1	6418677156144
SFL1	Fastening lug, set of 4 pcs, polycarbonate	15 x 30	1	6418677156151
SBI1	Insert for pods, brass	M2	50	6418677156168
SBI1A.04	Insert, set of 4 pcs	M2	1	6418677156830
SBS40	Spacer, 40 mm, for panels	7 x 48	12	6438100086022
SMS1	Mounting screw for plates and rails, steel	4 x 8	100	6418677156175
SCP08	Cover plug, short, for 25 mm cover	ø11 x 12	10	6418677156847
SCP10	Cover plug, long, for 50 mm cover	ø12 x 36.5	10	6418677156854
SCP1315	Cover plug, short, for 75 and 100 mm covers	ø11.5 x 12	10	6418677156861
SLS35	Cover screw, medium	11 x 35	100	6418677156182
SLS60	Cover screw, long, for 50 mm covers	11 x 60	50	6418677156199
SLSA23.04	Screw set, Includes 4 short cover screws for 10 mm cover and 4 mounting screws SMS1	11 x 23	1	6438100100407
SLSA35.04	Screw set, Includes 4 medium cover screws SLS35 and 4 mounting screws SMS1	11 x 35	1	6418677154980
SLSA60.04	Screw set, Includes 4 long cover screws for 50 mm cover SLS60 and 4 mounting screws SMS1	11 x 60	1	6418677154997
SLW1	Cover screw's wing head part, only for 25 and 50 mm covers	11 x 17	10	6418677154867



Hinge pair, DSH1.



# Ensto Cubo D enclosures

## IP66 and 67

Sizes 53 x 55 x 36 to 230 x 300 x 111 mm



### Ensto Cubo D enclosure in brief:

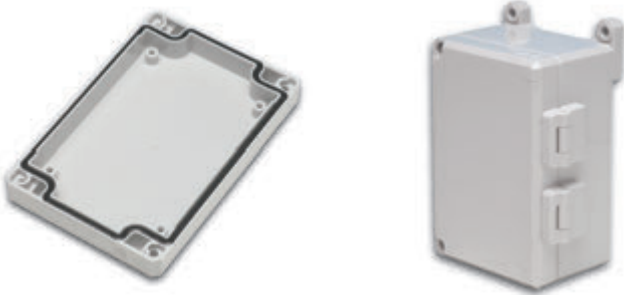
- Available with plain sides
- Contemporary design with faceted corners and cover plugs
- Includes fastening pods inside the cover
- Slots in the base for printed circuit boards

### Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws
- Cover plugs for cover screws

### Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



Ensto Cubo D enclosures include fastening pods inside the cover.

This enclosure is equipped with hinges (DSH1) and fastening lugs (DFL1).

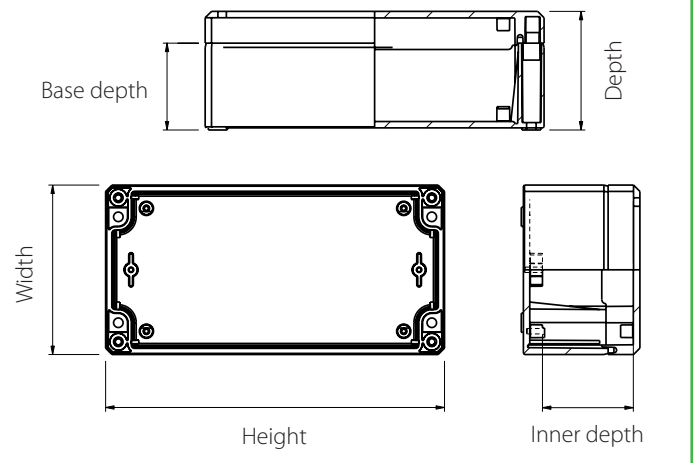
Conformity	
PC enclosures:	CE
ABS enclosures:	CE
Technical information	
Degree of protection:	IP66 and IP67
Impact resistance:	PC: IK08 (-25 °C... +35 °C) ABS: IK07 (+35 °C)/IK06 (-25 °C)
Operating temperature:	PC: -40 °C ... +80 °C ABS: -20 °C ... +60 °C
Short term temperature range:	PC: -40 °C... +120 °C ABS: -20 °C ... +120 °C
Flammability rating:	PC: UL 746C ABS: UL 94 HB
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	4, 4X, 12, 13, 6
Outdoor suitability:	PC: UL 746C f1 rated material
Insulation:	Class II
Material	
Base/cover:	Polycarbonate or ABS
Cover screws:	Stainless steel
Gasket:	PUR (polyurethane)
Enclosure side types	
PC and ABS enclosures:	Plain sides
Standard color	
Base:	Grey RAL 7035
Cover:	Grey RAL 7035 or transparent



Ensto Cubo D enclosures have a modern design with faceted corners and cover plugs.

### Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

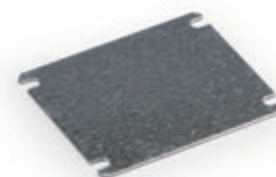


## Ensto Cubo D enclosures with plain sides

Width	Height	Depth	Base depth	Inner depth (mm)	Polycarbonate grey cover (Product code, GTIN-13)	Polycarbonate transparent cover (Product code, GTIN-13)	ABS grey cover (Product code, GTIN-13)	ABS transparent cover (Product code, GTIN-13)	UL -listed polycarbonate grey cover (Product code, GTIN-13)	UL -listed Polycarbonate transparent cover (Product code, GTIN-13)	
53	55	36	26	27.5	DPCP050504G 6418677150005	DPCP050504T 6418677150012	DABP050504G 6418677150029	DABP050504T 6418677150036	DPCP050504G.U 6438100116538	DPCP050504T.U 6438100116705	
	63	36	26	25.0	DPCP050704G 6418677150043	DPCP050704T 6418677150050	DABP050704G 6418677150067	DABP050704T 6418677150074	DPCP050704G.U 6438100116545	DPCP050704T.U 6438100116712	
80	82	56	41	42.0	DPCP080806G 6418677150081	DPCP080806T 6418677150098	DABP080806G 6418677150104	DABP080806T 6418677150111	DPCP080806G.U 6438100116552	DPCP080806T.U 6438100116729	
		86	71	72.0	DPCP080809G 6418677150128	DPCP080809T 6418677150135	DABP080809G 6418677150142	DABP080809T 6418677150159	DPCP080809G.U 6438100116569	DPCP080809T.U 6438100116736	
	120	56	41	42.0	DPCP081206G 6418677150166	DPCP081206T 6418677150173	DABP081206G 6418677150180	DABP081206T 6418677150197	DPCP081206G.U 6438100116576	DPCP081206T.U 6438100116743	
		86	71	72.0	DPCP081209G 6418677150203	DPCP081209T 6418677150210	DABP081209G 6418677150227	DABP081209T 6418677150234	DPCP081209G.U 6438100116583	DPCP081209T.U 6438100116750	
	160	56	41	42.0	DPCP081606G 6418677150241	DPCP081606T 6418677150258	DABP081606G 6418677150265	DABP081606T 6418677150272	DPCP081606G.U 6438100116590	DPCP081606T.U 6438100116767	
		86	71	72.0	DPCP081609G 6418677150289	DPCP081609T 6418677150296	DABP081609G 6418677150302	DABP081609T 6418677150319	DPCP081609G.U 6438100116606	DPCP081609T.U 6438100116774	
	120	122	56	41	42.0	DPCP121206G 6418677150326	DPCP121206T 6418677150333	DABP121206G 6418677150340	DABP121206T 6418677150357	DPCP121206G.U 6438100116613	DPCP121206T.U 6438100116781
			86	71	72.0	DPCP121209G 6418677150364	DPCP121209T 6418677150371	DABP121209G 6418677150388	DABP121209T 6418677150395	DPCP121209G.U 6438100116620	DPCP121209T.U 6438100116798
160		91	61	77.5	DPCP121609G 6418677150401	DPCP121609T 6418677150418	DABP121609G 6418677150425	DABP121609T 6418677150432	DPCP121609G.U 6438100116637	DPCP121609T.U 6438100116804	
200		86	71	72.0	DPCP122009G 6418677150487	DPCP122009T 6418677150494	DABP122009G 6418677150500	DABP122009T 6418677150517	DPCP122009G.U 6438100116644	DPCP122009T.U 6438100116811	
150	200	76	61	62.0	DPCP152008G 6418677150562	DPCP152008T 6418677150579	DABP152008G 6418677150586	DABP152008T 6418677150593	DPCP152008G.U 6438100116651	DPCP152008T.U 6438100116828	
160	240	91	76	77.5	DPCP162409G 6418677150609	DPCP162409T 6418677150616	DABP162409G 6418677150623	DABP162409T 6418677150630	DPCP162409G.U 6438100116668	DPCP162409T.U 6438100116835	
		121	76	107.5	DPCP162412G 6418677150647	DPCP162412T 6418677150654	DABP162412G 6418677150661	DABP162412T 6418677150678	DPCP162412G.U 6438100116675	DPCP162412T.U 6438100116842	
230	300	86	56	72.5	DPCP233009G 6418677150722	DPCP233009T 6418677150739	DABP233009G 6418677150746	DABP233009T 6418677150753	DPCP233009G.U 6438100116682	DPCP233009T.U 6438100116859	
		111	56	97.5	DPCP233011G 6418677150760	DPCP233011T 6418677150777	DABP233011G 6418677150784	DABP233011T 6418677150791	DPCP233011G.U 6438100116699	DPCP233011T.U 6438100116866	

## Mounting plates and DIN rails

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Mounting plates, galvanized steel</b>				
DMP0808	For 80 x 82 mm enclosures	55 x 65 x 1.5	10	6418677150821
DMP0812	For 80 x 120 mm enclosures	65 x 93 x 1.5	10	6418677150838
DMP0816	For 80 x 160 mm enclosures	65 x 133 x 1.5	10	6418677150845
DMP1212	For 120 x 122 mm enclosures	95 x 105 x 1.5	10	6418677150852
DMP1216	For 120 x 160 mm enclosures	105 x 132 x 1.5	10	6418677150869
DMP1220	For 120 x 200 mm enclosures	105 x 172 x 1.5	10	6418677150876
DMP1520	For 150 x 200 mm enclosures	133 x 172 x 1.5	10	6418677150890
DMP1624	For 160 x 240 mm enclosures	145 x 213 x 1.5	10	6418677150906
DMP2330	For 230 x 300 mm enclosures	210 x 285 x 1.5	10	6418677150920
<b>DIN rails 15 mm, DIN 46277/3, galvanized steel</b>				
DR15016.4	For 53 x 55 mm enclosures	15 x 26	10	6418677150937
DR15038.4	For 53 x 63 mm enclosures	15 x 48	10	6418677150944
DR15058.4	For 80 x 82 mm enclosures	15 x 68	10	6418677150951
DR15096.4	For 80 x 120 mm and 120 x 122 mm enclosures	15 x 106	10	6418677150975
DR15136.4	For 80 x 160 mm and 120 x 160 mm enclosures	15 x 146	10	6418677150999
<b>DIN rails 35 mm, DIN 46277/3, galvanized steel</b>				
DR35058.4	For 80 x 82 mm enclosures	35 x 68	10	6418677150968
DR35096.4	For 80 x 120 mm and 120 x 122 mm enclosures	35 x 106	10	6418677150982
DR35136.4	For 80 x 160 mm and 120 x 160 mm enclosures	35 x 146	10	6418677151002
DR35160.4	For 150 x 200 mm enclosures	35 x 170	10	6418677151071
DR35176.4	For 120 x 200 mm enclosures	35 x 186	10	6418677151057
DR35215.4	For 160 x 240 mm enclosures	35 x 225	10	6418677156120
DR35275.4	For 230 x 300 mm enclosures	35 x 285	10	6418677151101



DMP0808



Hinge pair, DSH1.

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
DSH1	Hinge pair	28 x 28	1	6418677156144
DFL1	Fastening lug, set of 4	33 x 21 x 9.5	1	6418677151125
DCP1	Cover plug		50	6418677151149
DLS1	Cover screw, short	3 x 18/10	100	6418677151163
DLSA1.02	Screw set, 2 short cover screws DLS1 and 2 mounting screws DMS1 and cover plugs DCP1	3 x 18/10	1	6438100070113
DLSA1.04	Screw set, 4 short cover screws DLS1 and 4 mounting screws DMS1 and cover plugs DCP1	3 x 18/10	1	6418677151293
DLSA1.06	Screw set, 6 short cover screws DLS1 and 4 mounting screws DMS1 and cover plugs DCP1	3 x 50/10	1	6418677151309
DLS2	Cover screw, long, for 162412 and 233011	3 x 50/10	1	6418677151279
DLSA2.06	Screw set, 6 long cover screws DLS2 and 4 mounting screws DMS1	3 x 50/10	1	6438100087692
DLS3	Cover screw, TORX TX20	3 x 18/10	48	6418677151286
DMS1	Mounting screw	3 x 7	100	6418677151156



Fastening lug set, DFL1.

# Ensto Cubo O, C and W enclosures, IP66 and 67

Sizes 200 x 200 x 132 to 400 x 600 x 187 mm



## Ensto Cubo O, C and W enclosure in brief:

- Ensto Cubo O has plain sides or with metric knockouts
- Ensto Cubo C has flange knockouts
- Ensto Cubo W has pre-assembled hinges and quick release latches as standard, available with plain sides
- Available in 8 base sizes, one base depth and one cover height
- 55-millimeter-deep extension frame available for alternative depths in all sizes. Several extension frames can be used on top of one another in one enclosure.
- Cover and cover screws equipped with sealing holes
- Cover can also be mounted onto the back of the base
- Wide range of accessories available.

## Contents of the product package:

55-millimeter-deep standard enclosure includes:

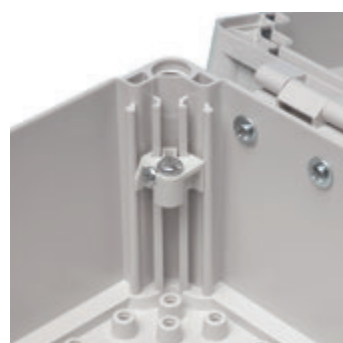
- Enclosure base
- Cover
- Cover screws or latches and hinges
- Mounting screws

55-millimeter-deep standard enclosure includes:

- Enclosure base
- Cover
- Extension frame
- Cover screws or latches and hinges
- Mounting screws
- Screws for the extension frame

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



Adjustable elevators are available for the base corner slots allowing the mounting of plates and panels at any height.

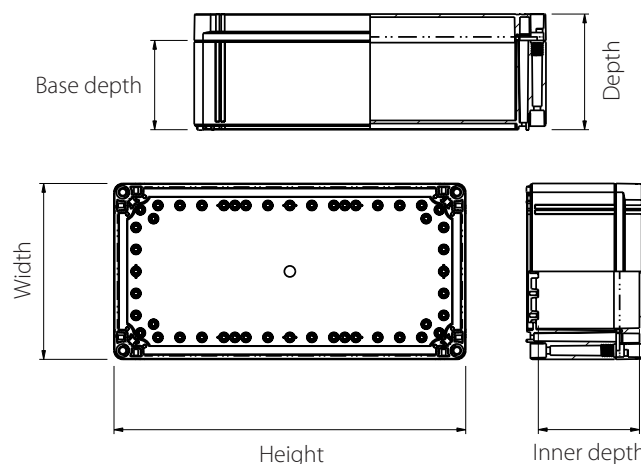


It is possible to mount the cover onto the back of the base.

Conformity	
PC enclosures:	CE <small>RoHS</small> FI <small>UL</small> <small>cUL</small> <small>UL</small>
ABS enclosures:	CE <small>RoHS</small> FI
Technical information	
Degree of protection:	IP66 and IP67
Impact resistance:	PC: IK08 (-25 °C... +35 °C) ABS: IK08 (+35 °C)/IK07 (-25 °C)
Operating temperature:	PC: -40 °C ... +80 °C ABS: -20 °C ... +60 °C
Short term temperature range:	PC: -40 °C... +120 °C ABS: -20 °C ... +120 °C
Flammability rating:	PC: UL 746C ABS: UL 94 HB
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	4, 4X, 12, 13
Outdoor suitability:	PC: UL 746C f1 rated material
Insulation:	Class II
Material	
Base:	ABS or fibreglass reinforced polycarbonate
Cover:	ABS or polycarbonate
Cover screws:	Fibreglass reinforced polyamide
Gasket:	PUR (polyurethane)
Enclosure side types	
PC enclosures:	Plain sides, metric knockouts
ABS enclosures:	Plain sides
Standard color	
Base:	Grey RAL 7035
Cover:	Grey RAL 7035 or transparent

## Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).





## Ensto Cubo O enclosures with plain sides, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Base depth (mm)	Inner depth (mm)	Polycarbonate grey cover (product code, GTIN-13)	Polycarbonate transparent cover (product code, GTIN-13)	ABS grey cover (product code, GTIN-13)	ABS transparent cover (product code, GTIN-13)	UL-listed polycarbonate grey cover (product code, GTIN-13)	UL-listed polycarbonate transparent cover (product code, GTIN-13)	
200	200	132	102	115.0	OPCP202013G 6418677184413	OPCP202013T 6418677184345	OABP202013G 6418677184550	OABP202013T 6418677184482	OPCP202013G.U 6438100116873	OPCP202013T.U 6438100117016	
		187	102	170.0	OPCP202018G <sup>†</sup> 6418677184628	OPCP202018T <sup>†</sup> 6418677184697	OABP202018G <sup>†</sup> 6418677184765	OABP202018T <sup>†</sup> 6418677184833	OPCP203013G.U <sup>†</sup> 6438100117880	OPCP203013T.U <sup>†</sup> 6438100117023	
	300	132	102	115.0	OPCP203013G 6418677184420	OPCP203013T 6418677184352	OABP203013G 6418677184567	OABP203013T 6418677184499	OPCP204013G.U 6438100116897	OPCP204013T.U 6438100117030	
		187	102	170.0	OPCP203018G <sup>†</sup> 6418677184635	OPCP203018T <sup>†</sup> 6418677184703	OABP203018G <sup>†</sup> 6418677184772	OABP203018T <sup>†</sup> 6418677184840	OPCP303013G.U <sup>†</sup> 6438100116903	OPCP303013T.U <sup>†</sup> 6438100117047	
	400	132	102	115.0	OPCP204013G 6418677184437	OPCP204013T 6418677184369	OABP204013G 6418677184574	OABP204013T 6418677184505	OPCP304013G.U 6438100116910	OPCP304013T.U 6438100117054	
		187	102	170.0	OPCP204018G <sup>†</sup> 6418677184642	OPCP204018T <sup>†</sup> 6418677184710	OABP204018G <sup>†</sup> 6418677184789	OABP204018T <sup>†</sup> 6418677184857	OPCP306013G.U <sup>†</sup> 6438100116927	OPCP306013T.U <sup>†</sup> 6438100117061	
	300	300	132	102	115.0	OPCP303013G 6418677184444	OPCP303013T 6418677184376	OABP303013G 6418677184581	OABP303013T 6418677184512	OPCP404013G.U 6438100117986	OPCP404013T.U 6438100117962
			187	102	170.0	OPCP303018G <sup>†</sup> 6418677184659	OPCP303018T <sup>†</sup> 6418677184727	OABP303018G <sup>†</sup> 6418677184796	OABP303018T <sup>†</sup> 6418677184864	OPCP406013G.U <sup>†</sup> 6438100116934	OPCP406013T.U <sup>†</sup> 6438100117078
		400	132	102 + 55	115.0	OPCP304013G 6418677184451	OPCP304013T 6418677184383	OABP304013G 6418677184598	OABP304013T 6418677184529	OPCP202018G.U 6438100116941	OPCP202018T.U 6438100117085
			187	102 + 55	170.0	OPCP304018G <sup>†</sup> 6418677184666	OPCP304018T <sup>†</sup> 6418677184734	OABP304018G <sup>†</sup> 6418677184802	OABP304018T <sup>†</sup> 6418677184871	OPCP203018G.U <sup>†</sup> 6438100116958	OPCP203018T.U <sup>†</sup> 6438100117092
		600	132	102 + 55	115.0	OPCP306013G 6418677184468	OPCP306013T 6418677184390	OABP306013G 6418677184604	OABP306013T 6418677184536	OPCP204018G.U 6438100116965	OPCP204018T.U 6438100117108
			187	102 + 55	170.0	OPCP306018G <sup>†</sup> 6418677184673	OPCP306018T <sup>†</sup> 6418677184741	OABP306018G <sup>†</sup> 6418677184819	OABP306018T <sup>†</sup> 6418677184888	OPCP303018G.U <sup>†</sup> 6438100116972	OPCP303018T.U <sup>†</sup> 6438100117115
400		400	132	102 + 55	115.0	OPCP404013G 6438100112813	OPCP404013T 6438100112790	OABP404013G 6438100112851	OABP404013T 6438100112837	OPCP304018G.U 6438100116989	OPCP304018T.U 6438100117122
			187	102 + 55	170.0	OPCP404018G <sup>†</sup> 6438100112820	OPCP404018T <sup>†</sup> 6438100112806	OABP404018G <sup>†</sup> 6438100112868	OABP404018T <sup>†</sup> 6438100112844	OPCP306018G.U <sup>†</sup> 6438100116996	OPCP306018T.U <sup>†</sup> 6438100117139
		600	132	102 + 55	115.0	OPCP406013G 6418677184475	OPCP406013T 6418677184406	OABP406013G 6418677184611	OABP406013T 6418677184543	OPCP404018G.U 6438100117955	OPCP404018T.U 6438100117979
			187	102 + 55	170.0	OPCP406018G <sup>†</sup> 6418677184680	OPCP406018T <sup>†</sup> 6418677184758	OABP406018G <sup>†</sup> 6418677184826	OABP406018T <sup>†</sup> 6418677184895	OPCP406018G.U <sup>†</sup> 6438100117009	OPCP406018T.U <sup>†</sup> 6438100117146

<sup>†</sup> includes the extension frame

## Ensto Cubo O enclosures with metric knock-outs

Width (mm)	Height (mm)	Depth (mm)	Base depth (mm)	Inner depth (mm)	Polycarbonate grey cover (product code, GTIN-13)	Polycarbonate transparent cover (product code, GTIN-13)	UL-listed polycarbonate grey cover (product code, GTIN-13)	UL-listed polycarbonate transparent cover (product code, GTIN-13)
300	300	132	115	115.0	OPCM303013G <sup>1)</sup> 6418677157899	OPCM303013T <sup>1)</sup> 6418677157929	OPCM303013G.U <sup>1)</sup> 6438100117153	OPCM303013T.U <sup>1)</sup> 6438100117214
		187	115	170.0	OPCM303018G <sup>2)</sup> 6418677157950	OPCM303018T <sup>2)</sup> 6418677157981	OPCM304013G.U <sup>2)</sup> 6438100117160	OPCM304013T.U <sup>2)</sup> 6438100117221
	400	132	115	115.0	OPCM304013G <sup>2)</sup> 6418677157905	OPCM304013T <sup>2)</sup> 6418677157936	OPCM306013G.U <sup>2)</sup> 6438100117177	OPCM306013T.U <sup>2)</sup> 6438100117238
		187	170	170.0	OPCM304018G <sup>3)</sup> 6418677157967	OPCM304018T <sup>3)</sup> 6418677157998	OPCM303018G.U <sup>3)</sup> 6438100117184	OPCM303018T.U <sup>3)</sup> 6438100117045
	600	132	170	115.0	OPCM306013G <sup>4)</sup> 6418677157912	OPCM306013T <sup>4)</sup> 6418677157943	OPCM304018G.U <sup>4)</sup> 6438100117191	OPCM304018T.U <sup>4)</sup> 6438100117252
		187	170	170.0	OPCM306018G <sup>4)</sup> 6418677157974	OPCM306018T <sup>4)</sup> 6418677158001	OPCM306018G.U <sup>4)</sup> 6438100117207	OPCM306018T.U <sup>4)</sup> 6438100117269

<sup>1)</sup> 12 x M20 + 1 x M16/25 + 8 x M20 + 4 x M25/40 knockouts

<sup>2)</sup> 8 x M12/20 + 5 x M16/25 + 12 x M12/20 + 1 x M32/40 knockouts

<sup>3)</sup> 12 x M20 + 1 x M16/25 + 8 x M20 + 4 x M25/40 knockouts, Includes extension frame

<sup>4)</sup> 8 x M12/20 + 5 x M16/25 + 12 x M12/20 + 1 x M32/40 knockouts, Includes extension frame



OPCP202013G



OPCP304013T



OPCP203018G



OPCP406018T



OPCM303013G



OPCM304013T



OPCM304018G



OPCM306018T

## Ensto Cubo C enclosures with flange knockouts, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Base depth (mm)	Inner depth (mm)	Polycarbonate grey cover (product code, GTIN-13)	Polycarbonate transparent cover (product code, GTIN-13)	UL-listed polycarbonate grey cover (product code, GTIN-13)	UL-listed polycarbonate transparent cover (product code, GTIN-13)	
200	200	132	102	115.0	CPCF202013G <sup>1)</sup> 6418677172120	CPCF202013T <sup>1)</sup> 6418677172199	CPCF202013G.U <sup>1)</sup> 6438100117276	CPCF202013T.U <sup>1)</sup> 6438100117412	
		187	102	170.0	CPCF202018G <sup>1)</sup> 6418677182167	CPCF202018T <sup>1)</sup> 6418677182235	CPCF203013G.U <sup>1)</sup> 6438100117283	CPCF203013T.U <sup>1)</sup> 6438100117429	
	300	132	102	115.0	CPCF203013G <sup>2)</sup> 6418677172137	CPCF203013T <sup>2)</sup> 6418677172205	CPCF204013G.U <sup>2)</sup> 6438100117290	CPCF204013T.U <sup>2)</sup> 6438100117436	
		187	102	170.0	CPCF203018G <sup>2)</sup> 6418677182174	CPCF203018T <sup>2)</sup> 6418677182242	CPCF303013G.U <sup>2)</sup> 6438100117306	CPCF303013T.U <sup>2)</sup> 6438100117443	
	400	132	102	115.0	CPCF204013G <sup>2)</sup> 6418677172144	CPCF204013T <sup>2)</sup> 6418677172212	CPCF304013G.U <sup>2)</sup> 6438100117313	CPCF304013T.U <sup>2)</sup> 6438100117450	
		187	102	170.0	CPCF204018G <sup>2)</sup> 6418677182181	CPCF204018T <sup>2)</sup> 6418677182259	CPCF306013G.U <sup>2)</sup> 6438100117320	CPCF306013T.U <sup>2)</sup> 6438100117467	
	300	300	132	102	115.0	CPCF303013G <sup>3)</sup> 6418677172151	CPCF303013T <sup>3)</sup> 6418677172229	CPCF404013G.U <sup>3)</sup> 6438100117993	CPCF404013T.U <sup>3)</sup> 6438100118013
			187	102	170.0	CPCF303018G <sup>3)</sup> 6418677182198	CPCF303018T <sup>3)</sup> 6418677182266	CPCF406013G.U <sup>3)</sup> 6438100117337	CPCF406013T.U <sup>3)</sup> 6438100117474
400		132	102 + 55*	115.0	CPCF304013G <sup>3)</sup> 6418677172168	CPCF304013T <sup>3)</sup> 6418677172236	CPCF202018G.U <sup>3)</sup> 6438100117344	CPCF202018T.U <sup>3)</sup> 6438100117481	
		187	102 + 55*	170.0	CPCF304018G <sup>3)</sup> 6418677182204	CPCF304018T <sup>3)</sup> 6418677182273	CPCF203018G.U <sup>3)</sup> 6438100117351	CPCF203018T.U <sup>3)</sup> 6438100117498	
600		132	102 + 55*	115.0	CPCF306013G <sup>4)</sup> 6418677172175	CPCF306013T <sup>4)</sup> 6418677172243	CPCF204018G.U <sup>4)</sup> 6438100117368	CPCF204018T.U <sup>4)</sup> 6438100117504	
		187	102 + 55*	170.0	CPCF306018G <sup>4)</sup> 6418677182211	CPCF306018T <sup>4)</sup> 6418677182280	CPCF303018G.U <sup>4)</sup> 6438100117375	CPCF303018T.U <sup>4)</sup> 6438100117511	
400		400	132	102 + 55*	115.0	CPCF404013G <sup>3)</sup> 6438100112899	CPCF404013T <sup>3)</sup> 6438100112875	CPCF304018G.U <sup>3)</sup> 6438100117382	CPCF304018T.U <sup>3)</sup> 6438100117528
			187	102 + 55*	170.0	CPCF404018G <sup>3)</sup> 6438100112905	CPCF404018T <sup>3)</sup> 6438100112882	CPCF306018G.U <sup>3)</sup> 6438100117399	CPCF306018T.U <sup>3)</sup> 6438100117535
	600	132	102 + 55*	115.0	CPCF406013G <sup>4)</sup> 6418677172182	CPCF406013T <sup>4)</sup> 6418677172250	CPCF404018G.U <sup>4)</sup> 6438100118006	CPCF404018T.U <sup>4)</sup> 6438100118020	
		187	102 + 55*	170.0	CPCF406018G <sup>4)</sup> 6418677182228	CPCF406018T <sup>4)</sup> 6418677182297	CPCF406018G.U <sup>4)</sup> 6438100117405	CPCF406018T.U <sup>4)</sup> 6438100117542	



CPCF202013G



CPCF203018T

<sup>1)</sup> Includes the extension frame

<sup>1)</sup> 4 x F1 knockouts

<sup>2)</sup> 2 x F1 knockouts + 2 x F2 knockouts

<sup>3)</sup> 4 x F2 knockouts

<sup>4)</sup> 6 x F2 knockouts

## Ensto Cubo W wall cabinets with hinges and latches, plain sides, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Base depth (mm)	Inner depth (mm)	Polycarbonate grey cover plain sides (product code, GTIN-13)	Polycarbonate transparent cover plain sides (product code, GTIN-13)	UL-listed grey cover plain sides (product code, GTIN-13)	UL-listed transparent cover plain sides (product code, GTIN-13)
200	200	132	102	115.0	WPCP202013G 6418677174308	WPCP202013T 6418677174384	WPCP202013G.U 6438100117559	WPCP202013T.U 6438100117696
		187	102	170.0	WPCP202018G 6418677174469	WPCP202018T 6418677174544	WPCP203013G.U 6438100117566	WPCP203013T.U 6438100117702
	300	132	102	115.0	WPCP203013G 6418677174315	WPCP203013T 6418677174391	WPCP204013G.U 6438100117573	WPCP204013T.U 6438100117719
		187	102	170.0	WPCP203018G 6418677174476	WPCP203018T 6418677174551	WPCP303013G.U 6438100117580	WPCP303013T.U 6438100117726
	400	132	102	115.0	WPCP204013G 6418677174322	WPCP204013T 6418677174407	WPCP304013G.U 6438100117597	WPCP304013T.U 6438100117733
		187	102	170.0	WPCP204018G 6418677174483	WPCP204018T 6418677174568	WPCP306013G.U 6438100117603	WPCP306013T.U 6438100117740
300	300	132	102	115.0	WPCP303013G 6418677174339	WPCP303013T 6418677174414	WPCP404013G.U 6438100118495	WPCP404013T.U 6438100118501
		187	102	170.0	WPCP303018G 6418677174490	WPCP303018T 6418677174575	WPCP406013G.U 6438100117610	WPCP406013T.U 6438100117757
	400	132	102 + 55*	115.0	WPCP304013G 6418677174346	WPCP304013T 6418677174421	WPCP202018G.U 6438100117627	WPCP202018T.U 6438100117764
		187	102 + 55*	170.0	WPCP304018G 6418677174506	WPCP304018T 6418677174582	WPCP203018G.U 6438100117634	WPCP203018T.U 6438100117771
	600	132	102 + 55*	115.0	WPCP306013G 6418677174353	WPCP306013T 6418677174438	WPCP204018G.U 6438100117641	WPCP204018T.U 6438100117788
		187	102 + 55*	170.0	WPCP306018G 6418677174513	WPCP306018T 6418677174599	WPCP303018G.U 6438100117658	WPCP303018T.U 6438100117795
400	400	132	102 + 55*	115.0	WPCP404013G 6438100113285	WPCP404013T 6438100113292	WPCP304018G.U 6438100117665	WPCP304018T.U 6438100117801
		187	102 + 55*	170.0	WPCP404018G 6438100113308	WPCP404018T 6438100113315	WPCP306018G.U 6438100117672	WPCP306018T.U 6438100117818
	600	132	102 + 55*	115.0	WPCP406013G 6418677174377	WPCP406013T 6418677174452	WPCP404018G.U 6438100118518	WPCP404018T.U 6438100118525
		187	102 + 55*	170.0	WPCP406018G 6418677174537	WPCP406018T 6418677174612	WPCP406018G.U 6438100117689	WPCP406018T.U 6438100117825



WPCP202013G



WPCP406018T

<sup>\*</sup> Includes the extension frame

# Accessories for Ensto Cubo O, C enclosures

## Bases

Includes mounting screws

Width (mm)	Height (mm)	Depth (mm)	Base, plain sides, polycarbonate, includes mounting screws (Product code, GTIN-13)	Plain sides, ABS (Product code, GTIN-13)	Metric knockouts, polycarbonate (Product code, GTIN-13)	Flange knockouts, polycarbonate (Product code, GTIN-13)
200	200	102	OPCP202010B 6418677164248	OABP202010B 6418677164316		CPCF202010B <sup>14</sup> 6418677171697
	300	102	OPCP203010B 6418677164255	OABP203010B 6418677164323		CPCF203010B <sup>15</sup> 6418677171703
	400	102	OPCP204010B 6418677164262	OABP204010B 6418677164330		CPCF204010B <sup>15</sup> 6418677171710
300	300	102	OPCP303010B 6418677164279	OABP303010B 6418677164347	OPCM303010B <sup>11</sup> 6418677182600	CPCF303010B <sup>16</sup> 6418677171727
	400	102	OPCP304010B 6418677164286	OABP304010B 6418677164354	OPCM304010B <sup>12</sup> 6418677182617	CPCF304010B <sup>16</sup> 6418677171734
	600	102	OPCP306010B 6418677164293	OABP306010B 6418677164361	OPCM306010B <sup>13</sup> 6418677182624	CPCF306010B <sup>17</sup> 6418677171741
400	400	102	OPCP404010B 6438100112943	OABP404010B 6438100112936		CPCF404010B <sup>16</sup> 6438100112929
	600	102	OPCP406010B 6418677164309	OABP406010B 6418677164378		CPCF406010B <sup>17</sup> 6418677171758

<sup>11</sup> 12 x M20 + 1 x M16/25 + 8 x M20 + 4 x M25/40

<sup>12</sup> 8 x M12/20 + 5 x M16/25 + 12 x M12/20 + 1 x M32/40

<sup>13</sup> 8 x M12/20 + 5 x M16/25 + 12 x M12/20 + 1 x M32/40

<sup>14</sup> 4 x F1 knockout, <sup>15</sup> 2 x F1 knockout + 2 x F2 knockout

<sup>16</sup> 4 x F2 knockout, <sup>17</sup> 6 x F2 knockout



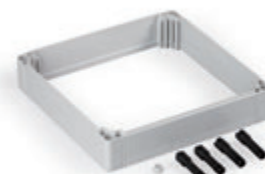
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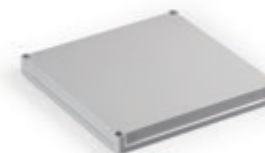
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## Extension frames, polycarbonate

Width (mm)	Height (mm)	Depth (mm)	Extension frames, polycarbonate, includes mounting screws and gasket (Product code, GTIN-13)
200	200	55	OPCP202006E 6418677164606
	300	55	OPCP203006E 6418677164613
	400	55	OPCP204006E 6418677164620
300	300	55	OPCP303006E 6418677164637
	400	55	OPCP304006E 6418677164644
	600	55	OPCP306006E 6418677164651
400	400	55	OPCP404006E 6438100112912
	600	55	OPCP406006E 6418677164668



OPCP303006E



OPCG303003L

## Covers

Width (mm)	Height (mm)	Depth (mm)	Grey cover, polycarbonate (Product code, GTIN-13)	Transparent cover, polycarbonate (Product code, GTIN-13)	Grey cover, ABS (Product code, GTIN-13)	Grey cover with window for kWh-meter, polycarbonate (Product code, GTIN-13)
200	200	30	OPCG202003L <sup>11</sup> 6418677164453	OPCT202003L <sup>11</sup> 6418677164385	OABG202003L 6418677164521	
	300	30	OPCG203003L <sup>11</sup> 6418677164460	OPCT203003L <sup>11</sup> 6418677164392	OABG203003L 6418677164538	
	400	30	OPCG204003L <sup>11</sup> 6418677164477	OPCT204003L <sup>11</sup> 6418677164408	OABG204003L 6418677164545	
300	300	30	OPCG303003L <sup>11</sup> 6418677164484	OPCT303003L <sup>11</sup> 6418677164415	OABG303003L 6418677164552	
	400	30	OPCG304003L <sup>11</sup> 6418677164491	OPCT304003L <sup>11</sup> 6418677164422	OABG304003L 6418677164569	
	600	30	OPCG306003L <sup>11</sup> 6418677164507	OPCT306003L <sup>11</sup> 6418677164439	OABG306003L <sup>11</sup> 6418677164576	
400	400	30	OPCG404003L <sup>11</sup> 6438100112967	OPCT404003L <sup>11</sup> 6438100112974	OABG404003L 6438100112950	
	600	30	OPCG406003L <sup>11</sup> 6418677164514	OPCT406003L <sup>11</sup> 6418677164446	OABG406003L 6418677164583	OPCG36KWH 6418677174186

<sup>11</sup> Includes gasket

<sup>12</sup> Inspection window 113 x 153 mm, Includes cover screws



OPCT303003L



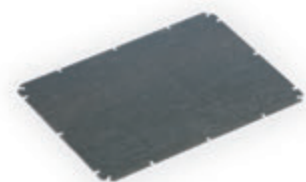
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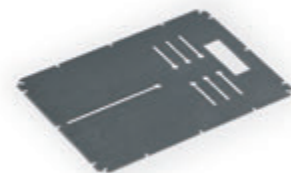
# Accessories for Ensto Cubo O, C, W enclosures

## Mounting plates and DIN rails

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Mounting plates, galvanized steel</b>				
OMP2020	For 200 x 200 mm enclosures	160 x 160 x 1.5	10	6418677164675
OMP2030	For 200 x 300 mm enclosures	160 x 260 x 1.5	10	6418677164682
OMP2040	For 200 x 400 mm enclosures	160 x 360 x 1.5	10	6418677164699
OMP3030	For 300 x 300 mm enclosures	260 x 260 x 1.5	10	6418677164705
OMP3040	For 300 x 400 mm enclosures	260 x 360 x 1.5	5	6418677164712
KWHP3040	For 300 x 400 mm enclosures, for kWh meter	260 x 360 x 1.5	5	6418677173110
OMP3060	For 300 x 600 mm enclosures	260 x 560 x 1.5	5	6418677164729
KWHP3060	For 300 x 600 mm enclosures, for kWh meter	260 x 560 x 1.5	5	6418677173097
OMP4040	For 400 x 400 mm enclosures	360 x 360 x 1.5	5	6438100112370
KWHP4040	For 400 x 400 mm enclosures	360 x 360 x 1.5	5	6438100112394
OMP4060	For 400 x 600 mm enclosures	360 x 560 x 1.5	5	6418677164736
KWHP4060	For 400 x 600 mm enclosures, for kWh meter	360 x 560 x 1.5	5	6418677173127
<b>DIN rails, DIN 46277/3, galvanized steel</b>				
DR35150.5	For 200 mm side	35 x 160	10	6418677164743
DR35240.5	For 600 mm side/middle with front panel	35 x 250	10	6418677176647
DR35250.5	For 300 mm side	35 x 260	10	6418677164750
DR35340.5	For 600 mm side/middle with front panel	35 x 350	10	6418677176654
DR35350.5	For 400 mm side	35 x 360	10	6418677164767



OMP3040



KWHP3040

## Profiles for DIN rails, galvanized steel

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
PRE2.14	Pair, for 200 mm side, height 14.5 mm	115 x 14 x 14	1	6418677173172
PRE3.14	Pair, for 300 mm side, height 14.5 mm	215 x 14 x 14	1	6418677173134
PRE4.14	Pair, for 400 mm side, height 14.5 mm	315 x 14 x 14	1	6418677173141
PRE75.14	Pair, for 600 mm side or center, height 14.5 mm	75 x 14 x 14	1	6418677173158
PRE2.32	Pair, for 200 mm side, height 32.5 mm	115 x 14 x 32	1	6418677173189
PRE3.32	Pair, for 300 mm side, height 32.5 mm	215 x 14 x 32	1	6418677172687
PRE4.32	Pair, for 400 mm side, height 32.5 mm	315 x 14 x 32	1	6418677172694
PRE75.32	Pair, for 600 mm side or center, height 32.5 mm	75 x 14 x 32	1	6418677173165



PRE2.14

## Busbar support sets, 630 A

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
KGH1.10	Support set for bars 10 mm x 10, 12, 20 or 30 mm	266 x 78 x 18	1	6418677172373
KGH1.05	Support set for bars 5 mm x 10, 12, 15 or 20 mm	266 x 78 x 18	1	6418677172380



KGH1.10

## Terminals for Al/Cu busbars

Product code	Description	For busbar	Package size (pcs)	GTIN-13
KG81	Terminal for 25-70 mm <sup>2</sup> cable	10 mm <sup>2</sup> Al/Cu	1	6418677163739
KG83	Terminal for 16-185 mm <sup>2</sup> cable	10 mm <sup>2</sup> Al/Cu	1	6418677163746
KG85	Terminal for 2 x 35 mm <sup>2</sup> + 2 x 16 mm <sup>2</sup> cables	10 mm <sup>2</sup> Al/Cu	1	6418677163753
KG87	Terminal for 4 x 35 mm <sup>2</sup> + 4 x 16 mm <sup>2</sup> cables	10 mm <sup>2</sup> Al/Cu	1	6418677163760
KG80	Terminal for 25-70 mm <sup>2</sup> cable	5 mm <sup>2</sup> Al/Cu	1	6418677163852
KG82	Terminal for 6-70 mm <sup>2</sup> cable	5 mm <sup>2</sup> Al/Cu	1	6418677163869
KG84	Terminal for 3 x 16 mm <sup>2</sup> cables	5 mm <sup>2</sup> Al/Cu	1	6418677163876
KG86	Terminal for 6 x 16 mm <sup>2</sup> cables	5 mm <sup>2</sup> Al/Cu	1	6418677163883



KG85

## Strain reliefs

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
KJ8.13	300 mm side/for 1 cable, galvanized steel	265 x 65 x 85	1	6418677172755
KJ8.23	300 mm side/for 2 cables, galvanized steel	265 x 65 x 85	1	6418677173271
KJ8.14	400 mm side/for 1 cable, galvanized steel	365 x 65 x 85	1	6418677173288
KJ8.24	400 mm side/for 2 cables, galvanized steel	365 x 65 x 85	1	6418677173295



KJ8.13

# Accessories for Ensto Cubo O, C, W enclosures

## Cover screws

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
OLS42	Slotted/cross head, sealable	14 x 42	100	6418677164590
OLSA42.4	Screw set, 4 slotted/cross head cover screws OLS42	14 x 42	1	6418677174204
OLSA42.6	Screw set, 6 slotted/cross head cover screws OLS42	14 x 42	1	6418677174711
OLSA42.04	Screw set, 4 slotted/cross head cover screws OLS42 and 4 mounting screws OMS1	14 x 42	1	6418677172267
OLSA42.06	Screw set, 6 slotted/cross head cover screws OLS42 and 8 mounting screws OMS1	14 x 42	1	6418677172274
OLS42N	Slotted/cross head, dark grey Noryl	14 x 42	12	6418677174728
OLS32	Slotted/cross head for 600 mm modular cover	14 x 32	12	6418677174360
PLS63	Springloaded, slotted/cross head	14 x 62	12	6418677173073
OLSH1	Hinged cover screw, slotted/cross head, blue, polyamide	14 x 96	10	6418677174247
OLWH1	Hinged cover screw, wing head, blue, polyamide	14 x 113	10	6418677174254
OLW55	Wing head	14 x 55	100	6418677171765
OLWA55.4	Screw set, 4 wing head cover screws OLW55	14 x 55	1	6418677174735
OLWA55.6	Screw set, 6 wing head cover screws OLW55	14 x 55	1	6418677174742
OLWA55.04	Screw set, 4 wing head cover screws OLW55 and 4 mounting screws OMS1	14 x 55	1	6418677172281
OLWA55.06	Screw set, 6 wing head cover screws OLW55 and 8 mounting screws OMS1	14 x 55	1	6418677174759
OLT42	DIN 3 head	14 x 42	100	6418677171772
OLTA42.4	Screw set, 4 DIN 3 head cover screws OLT42	14 x 42	1	6418677174766
OLTA42.6	Screw set, 6 DIN 3 head cover screws OLT42	14 x 42	1	6418677174773
OLTA42.04	Screw set, 4 DIN 3 head cover screws OLT42 and 4 mounting screws OMS1	14 x 42	1	6418677172298
OLTA42.06	Screw set, 6 DIN 3 head cover screws OLT42 and 8 mounting screws OMS1	14 x 42	1	6418677174780
OLTA42.041	Screw set, 4 DIN 3 head cover screws OLT42 and 4 mounting screws OMS1 + key OLT42KEY	14 x 42	1	6418677174797
OLT42KEY	Key for DIN head screw OLT42	50 x 53 x ø22	1	6418677172410



Cover screw, slotted/cross head, OLS42.



Cover screw, wing head, OLW55.

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
OCS22.46	Customizing template, transparent	300 x 400 x 6	5	6418677184338
OES1	Extension frame screw	ø 17 x 67	12	6418677174803
OESA1.04	Extension frame screws, set of 4 pcs	ø17 x 67	1	6438100081409
OESA1.06	Extension frame screws, set of 6 pcs	ø17 x 67	1	6438100081416
OHI1	Hinge pair, Includes mounting instruction	40 x 50 x 16.5	1	6418677164774
OHICP1	Hinge pair, Includes 2 cover plugs	40 x 50 x 16.5	1	6418677172304
OFL1	Fastening lug, set of 4 pcs	19 x 40 x 35.5	1	6418677164781
OEL1	Corner elevator, Includes M5 bolt	19 x 19 x 14	10	6418677164798
OELA1.04	Corner elevator, set of 4 OEL1	19 x 19 x 14	1	6418677181696
OTS1	Threaded bushing, for cover screw when cover mounted on the back	18/30 ø 16	12	6418677171789
OTSA1.04	Threaded bushing, 4 x OTS1 + 4 x OLS42	17 x 30/18	1	6418677181702
OMS1	Mounting screw, for rails and plates	5 x 10	100	6418677164804
OBI1	Brass insert, for mounting pod	M3	50	6418677172328
OBI1.04	Brass insert, set of 4 OBI1	M3	1	6418677172335
OCP1	Cover plug, polyethylene	11 x ø 15/17	12	6418677164811
OBS15	15 mm spacer, Includes M5 screw, steel	15 x 8	12	6418677171802
OBS15.04	15 mm spacer, set of 4 pcs	15 x 8	1	6418677172342
OBS20	20 mm spacer, Includes M5 screw, steel	20 x 8	12	6418677171819
OBS20.04	20 mm spacer, set of 4 pcs	20 x 8	1	6418677172359
OBS30	30 mm spacer, Includes M5 screw, steel	30 x 8	12	6418677171826
OBS30.04	30 mm spacer, set of 4 pcs	30 x 8	1	6418677172366
WQL1.1	Latch, pair Includes hooks and counter parts, PC	-	1	6418677174902



Threaded bushing, OTS1.



Extension frame screw, OES1.



Hinge pair, OHI1.



Fastening lug set, OFL1.



Corner elevator, OEL1.

# Flanges for Ensto Cubo C enclosures

## Flanges

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Cover plates for flange openings</b>				
F1151	F1 size, excl. gasket, PC/ABS	137 x 48	1	6418677171833
F2251	F2 size, Includes PUR gasket, PC	216 x 86	1	6418677171949
<b>Cover plates for flange openings</b>				
F1165	F1 size, excl. gasket, 3 x M20, PC/ABS	137 x 48	1	6418677152641
F1166	F1 size, excl. gasket, 3 x M25, PC/ABS	137 x 48	1	6418677152658
F1167	F1 size, excl. gasket, 1 x M32, PC/ABS	137 x 48	1	6418677152665
F2157	F2 size, Includes PUR gasket, 3 x Pg21 + 4 x Pg16, PC	216 x 86	1	6418677171956
F2158	F2 size, Includes PUR gasket, 2 x Pg29 + 6 x Pg16, PC	216 x 86	1	6418677171963
F2159	F2 size, Includes PUR gasket, 2 x Pg36 + 4 x Pg16, PC	216 x 86	1	6418677171970
F2160	F2 size, Includes PUR gasket, 8 x Pg16, PC	216 x 86	1	6418677171987
F2161	F2 size, Includes PUR gasket, 10 x Pg13.5, PC	216 x 86	1	6418677171994
F2168	F2 size, Includes PUR gasket, 4 x M20 + 1 x M25 + 2 x M32, PC	216 x 86	1	6418677152672
F2169	F2 size, Includes PUR gasket, 6 x M20 + 1 x M32 + 1 x M40, PC	216 x 86	1	6418677152689
F2170	F2 size, Includes PUR gasket, 4 x M20 + 2 x M40, PC	216 x 86	1	6418677152696
F2171	F2 size, Includes PUR gasket, 8 x M20, PC	216 x 86	1	6418677152702
F2172	F2 size, Includes PUR gasket, 10 x M16, PC	216 x 86	1	6418677152719
<b>Knockout flanges</b>				
F2252	F2 size, Includes PUR gasket, 7 x Pg11 + 7 x Pg9/16, PC	216 x 86	1	6418677172113
F2253	F2 size, Includes PUR gasket, 2 x Pg21/29/36 + 2 x Pg9/16 + 1 x Pg11, PC	216 x 86	1	6418677172397
F2254	F2 size, Includes PUR gasket, 5 x Pg16/21 + 2 x Pg11 + 1 x Pg9/16, PC	216 x 86	1	6418677172403
F2255	F2 size, Includes PUR gasket, 7 x M16 + 7 x M12/20, PC	216 x 86	1	6418677172595
F2256	F2 size, Includes PUR gasket, 2 x M20/32/50 + 2 x M12/20 + 2 x M16, PC	216 x 86	1	6418677172625
F2257	F2 size, Includes PUR gasket, 5 x M20/32 + 2 x M16 + 1 x M12/20, PC	216 x 86	1	6418677172700
<b>Knockout flanges</b>				
F1201	F1 size, for 5x ø 7-30 mm cables, EPDM	138 x 48	1	6418677171871
F2202	F2 size, for 25 x ø 5-26 mm cables, EPDM	216 x 84	1	6418677172007
F2203	F2 size, for 35 x ø 5-26 mm cables, EPDM	216 x 84	1	6418677172014
F2204	F2 size, for 3 x ø 24-60 mm cables, EPDM	216 x 84	1	6418677172021
F1155	F1 size, excl. gasket, 3 x ø 21 + 4 x ø 15 mm, TPE	135 x 47	1	6418677171888
F1156	F1 size, excl. gasket, 4 x ø 16 + 6 x ø 13 mm, TPE	135 x 47	1	6418677171895
F2162	F2 size, excl. gasket, 3 x ø30 + 6 x ø18 + 16 x ø14 mm, TPE	226 x 87	1	6418677172038
F2163	F2 size, excl. gasket, 9 x ø18 + 24 x ø14 mm, TPE	226 x 87	1	6418677172045

EPDM = ethylene propylene diene M-class rubber  
TPE = thermoplastic elastomer



F2251



F2157



F2252



F2202

## Flange accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
F2CE.1	Cable spreader for 1 cable	216 x 86 x 68	1	6418677181672
F2C50E	50 mm extension frame for F2 flange, PC	216 x 86 x 50	1	6418677173448
F1G	Self-adhesive flange gasket, F1 size	137 x 48	1	6418677171925
F2G	Self-adhesive flange gasket, F2 size	216 x 84	1	6418677172076
F1SS20	Flange bolt set, F1 size, steel bolt with plastic head	M6 x 20	1	6418677173066
F2SS20	Flange bolt set, F2 size, steel bolt with plastic head	M8 x 20	1	6418677171932
F2SS20L	Flange bolt set, F2 size, steel bolt with plastic head+ steel connector	M8 x 20	1	6418677181689
F1PA25	Flange bolt set, F1 size, polyamide	M6 x 25	1	6418677173080
F2PA30	Flange bolt set, F2 size, polyamide	M8 x 30	1	6418677172083
PMR1857	Flange/base support for F2 size, polyamide	216 x 22	10	6418677172106
PMR1858	Isolating cup for support PMR1857, polyamide	ø 18 mm	20	6418677171796



Flange bolt set, F2 size + steel connector, M8 x 20, F2SS20L.



Cable spreader for 1 cable, F2CE.1.



50 mm extension frame for F2 flange, F2C50E.



Self-adhesive flange gasket, F2 size, F2G.



Flange bolt set, F2 size, steel bolt with plastic head, F2SS20.



# Polyester enclosures

The enclosures are made of glass-reinforced polyester and are extremely durable. They can replace stainless steel enclosures in challenging conditions. The cost-effective polyester enclosing solution used is UV-resistant, has self-extinguishing properties and is halogen-free. The cabinets can be used in various environments and application areas such as maritime, metering and control, renewable energies as well as water and waste water treatment.

## Benefits of using our solutions



### Quick deliveries

Our leadtime is one of the shortest in the market. Enclosing solutions are ready to be delivered promptly after the receipt of the purchase order and approved technical drawing.



### Wide temperature range

The temperature resistance of glass-reinforced polyester is excellent, from -40 °C to +80 °C. It is therefore suitable for highly demanding industrial environments such as oil refineries and petrochemical and chemical plants.



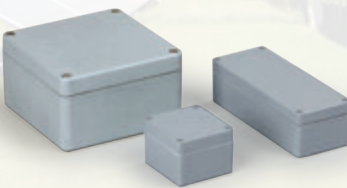
### Suitable for outdoor use

The fiberglass-reinforced polyester enclosures are resistant to changes in climate and has high UV-resistance.

## Range comparison

### Ensto Cubo M enclosures, IP66

- Sizes 75 x 80 x 55 to 400 x 405 x 120 mm
- Available with plain sides
- Captive cover screws of stainless steel
- Stainless steel inserts for DIN rails
- Possible to make threaded entries for cable glands



### Ensto Cubo N wall cabinets, IP66

- Sizes 250 x 300 x 140 to 600 x 800 x 300 mm
- Available with plain sides or with a polycarbonate window
- Quick fixture brackets at the back allow fitting without drilling
- Built-in protective edge prevents entry of water when opening the door
- Vertical patterns on the inner side of the door enables correct fitting of devices



# Ensto Cubo M enclosures, IP66

Sizes 75 x 80 x 55 to 400 x 405 x 120 mm



## Ensto Cubo M enclosure in brief:

- Available with plain sides
- Available in 13 sizes
- Sturdy construction and high resistance to corrosion and solvents
- Suitable for highly demanding environments such as oil refineries and the petrochemical/chemical industries
- Due to the nature of polyester, ordering enclosures with ready-made cut-outs is recommended

## Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

Conformity	
GRP enclosures:	CE
Technical information	
Degree of protection:	IP66
Impact resistance:	7 Nm
Operating temperature:	-40 °C... 110 °C
Insulation:	Class II
Material	
Base/cover:	Glass reinforced polyester (GRP)
Cover screws:	Stainless steel
Gasket:	Chloroprene (CR)
Enclosure side types	
GRP enclosures:	Plain sides
Standard color	
Base/cover:	Similar to grey RAL 7000

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester plain sides (product code, GTIN-13)	Mounting plates, galvanized steel	DIN rails galvanized steel	
						DIN-15	DIN-35
75	80	55	47,5	MGRP080806 6418677165610	MMP0808B 6418677157752	DR15.0808M 6418677158018	
	110	55	47,5	MGRP081106 6418677165627	MMP0811B 6418677157769	DR15.0811 6418677158025	
	160	55	47,5	MGRP081606 6418677165634	MMP0816B 6418677157776	DR15.0816 6418677158032	
	190	55	47,5	MGRP081906 6418677165641	MMP0819B 6418677157783	DR15.0819 6418677158063	
120	122	90	81,0	MGRP121209 6418677165658	MMP1212B 6418677157790	DR35.1212 6418677157059	
	220	90	82,0	MGRP122209 6418677165672	MMP1222B 6418677157806	DR35.1220 6418677157066	
160	160	91	81,5	MGRP161609 6418677165689	MMP1616B 6418677157813	DR35.1616 6418677157080	
	260	91	80,0	MGRP162609 6418677165702	MMP1626B 6418677157820	DR35.1626 6418677157097	
	360	91	81,5	MGRP163609 6418677165719	MMP1636B 6418677157837	DR35.1636 6418677158070	
	560	91	81,5	MGRP165609 6418677165726	MMP1656B 6418677157844	DR35.1656 6418677157103	
250	255	120	109,0	MGRP252612 6418677165733	MMP2526B 6418677157851	DR35.2526 6418677158087	
	400	120	109,0	MGRP254012 6418677165757	MMP2540B 6418677157868	DR35.2540.41 6418677158094	
400	405	120	109,0	MGRP404112 6418677165764	MMP4041B 6418677157875	DR35.2540.41 6418677158094	



Ensto Cubo M enclosures have plain sides and captive cover screws of stainless steel.



Machining polyester enclosures is difficult, for which reason ordering customized enclosures is recommended.

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
HMHI2	Hinge pair	25 x 40 x 11.5	1	6418677165443
HMFL4	Wall mounting lugs, set of 4 pcs, AISI 304	-	1	6418677165436



# Ensto Cubo N wall cabinets, IP66

Sizes 250 x 300 x 140 to 600 x 800 x 300 mm



## Ensto Cubo N wall cabinets in brief:

- Available with plain sides or with a polycarbonate window
- Available in 7 sizes
- Superb temperature resistance
- Sturdy construction and high resistance to corrosion and solvents
- Suitable for highly demanding environments such as waste water treatment and the petrochemical/chemical industries
- Quick fixture brackets at the back allow fitting without drilling
- Built-in protective edge allows you to open the door 180° in installations and also prevents entry of water when opening the door
- Vertical patterns on the inner side of the door enables correct fitting of devices

## Contents of the product package:

- Enclosure base
- Door
- Lock and DIN 3 keys (one for each lock) (or 3-point closing with swing handle)

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

Conformity	
GRP enclosures:	CE RoHS UL cUL
Technical information	
Degree of protection:	IP66
Impact resistance:	IK10, models with window IK07
Operating temperature:	-40 °C... 80 °C
Short term temperature range:	-50 °C... 140 °C
Flammability rating:	UL 746C
UL File no:	E189312
UL category:	NITW, NITW7
Insulation:	Class II
Material	
Base/cover:	Fibreglass reinforced polyester
Lock:	Double bit DIN 3.0 mm
Gasket:	PUR (polyurethane)
Enclosure side types	
GRP enclosures:	Plain sides / customer-specific knockouts
Standard color	
Base/cover:	Grey RAL 7035

## Ensto Cubo N wall cabinets

Width (mm)	Height (mm)	Depth (mm)	Polyester plain sides (product code, GTIN-13)	Polyester 3-point closing with swing handle / DIN3, plain sides (product code, GTIN-13)	Polyester polycarbonate window plain sides (product code, GTIN-13)	UL-listed, polyester plain sides (product code, GTIN-13)	UL-listed, polyester polycarbonate window plain sides (product code, GTIN-13)
250	300	140	NGRP253014 6438100123451		NGRW253014 6438100123642	NGRP253014.U 6438100133528	NGRW253014.U 6438100133597
300	400	200	NGRP304020 6438100123468	NGRP304020P3SH 6438100123581	NGRW304020 6438100123659	NGRP304020.U 6438100133535	NGRW304020.U 6438100133603
400	400	200	NGRP404020 6438100123475	NGRP404020P3SH 6438100123598	NGRW404020 6438100123666	NGRP404020.U 6438100133542	NGRW404020.U 6438100133610
	500	200	NGRP405020 6438100123482	NGRP405020P3SH 6438100123604	NGRW405020 6438100123673	NGRP405020.U 6438100133559	NGRW405020.U 6438100133627
	600	230	NGRP406023 6438100123499	NGRP406023P3SH 6438100123611	NGRW406023 6438100123680	NGRP406023.U 6438100133566	NGRW406023.U 6438100133634
500	600	230	NGRP506023 6438100123505	NGRP506023P3SH 6438100123628	NGRW506023 6438100123697	NGRP506023.U 6438100133573	NGRW506023.U 6438100133641
600	800	300	NGRP608030 6438100123512	NGRP608030P3SH 6438100123635	NGRW608030 6438100123703	NGRP608030.U 6438100133580	NGRW608030.U 6438100133658



NGRP506023



NGRP404020P3SH



NGRW304020

## Mounting plates and DIN rails

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Mounting plates, GRP</b>				
NGRMP2530	For 250 x 300 mm enclosures	213 x 268 x 4	1	6438100123833
NGRMP3040	For 300 x 400 mm enclosures	260 x 358 x 4	1	6438100123840
NGRMP4040	For 400 x 400 mm enclosures	360 x 358 x 4	1	6438100123857
NGRMP4050	For 400 x 500 mm enclosures	360 x 458 x 4	1	6438100123864
NGRMP4060	For 400 x 600 mm enclosures	360 x 558 x 4	1	6438100123871
NGRMP5060	For 500 x 600 mm enclosures	460 x 558 x 4	1	6438100123888
NGRMP6080	For 600 x 800 mm enclosures	556 x 754 x 4	1	6438100123895
<b>Mounting plates, galvanized steel</b>				
NMP2530	For 250 x 300 mm enclosures	207 x 268 x 2	1	6438100123970
NMP3040	For 300 x 400 mm enclosures	254 x 358 x 2	1	6438100123987
NMP4040	For 400 x 400 mm enclosures	354 x 358 x 2	1	6438100123994
NMP4050	For 400 x 500 mm enclosures	354 x 458 x 2	1	6438100124007
NMP4060	For 400 x 600 mm enclosures	354 x 558 x 2	1	6438100124014
NMP5060	For 500 x 600 mm enclosures	454 x 558 x 2	1	6438100124021
NMP6080	For 600 x 800 mm enclosures	558 x 754 x 2	1	6438100124038
<b>DIN rails, DIN 46277/3, galvanized steel</b>				
DR35220.6	For 250 mm sides	230 x 35	1	6438100174071
DR35270.6	For 300 mm sides	280 x 35	1	6438100174088
DR35370.6	For 400 mm sides	380 x 35	1	6438100159733
DR35470.6	For 500 mm sides	480 x 35	1	6438100174095
DR35565.6	For 600 mm sides	575 x 35	1	6438100174101



NGRMP3040



NMP5060

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Chassis for modular devices, IP20</b>				
NMC3040.24	For 300 x 400 mm wall cabinets, 2 DIN openings for 12 modules	-	1	6438100124366
NMC4040.36	For 400 x 400 mm wall cabinets, 2 DIN openings for 18 modules	-	1	6438100124373
NMC4050.54	For 400 x 500 mm wall cabinets, 3 DIN openings for 18 modules	-	1	6438100124380
NMC4060.54	For 400 x 600 mm wall cabinets, 3 DIN openings for 18 modules	-	1	6438100124397
NMC5060.69	For 500 x 600 mm wall cabinets, 3 DIN openings for 23 modules	-	1	6438100124403
NMC6080.116	For 600 x 800 mm wall cabinets, 4 DIN openings for 29 modules	-	1	6438100124410
<b>Internal door kit, GRP</b>				
NID3040	For 300 x 400 mm wall cabinets	258 x 366	1	6438100124304
NID4040	For 400 x 400 mm wall cabinets	358 x 366	1	6438100124311
NID4050	For 400 x 500 mm wall cabinets	358 x 466	1	6438100124328
NID4060	For 400 x 600 mm wall cabinets	358 x 566	1	6438100124335
NID5060	For 500 x 600 mm wall cabinets	458 x 566	1	6438100124342
NID6080	For 600 x 800 mm wall cabinets	558 x 766	1	6438100124359
<b>Wall mounting lugs</b>				
NFL1	Set of 4 pcs, plastic	-	1	6438100124670
NFL2	Set of 4 pcs, AISI 304	-	1	6438100169954
<b>Locks</b>				
NDIN1	DIN 3 lock with T-handle (standard lock)	-	1	6438100160296
NKL1	Key lock with a T-handle	-	1	6438100124816
NPD3041	Padlocking accessory, AISI 304	-	1	6438100124854



Chassis for modular devices, NMC4060.54. The kit includes a metal frame with DIN rails and module cover plates.



Internal door kit, NID4060.



Wall mounting lugs, NFL1.



Key lock with a T-handle, NKL1.



Padlocking accessory, NPD3041.



# Sheet steel enclosures

Steel is a cost-effective material that has high impact-resistance and high degree of protection. The available materials include polyester-painted mild steel and stainless steel AISI 304 and AISI 316L. Polyester-painted mild steel enclosures are ideally suited for the enclosure of electric, hydraulic and pneumatic control units. The AISI 304 is suitable for outdoor use since it has excellent corrosion-resistance and resistance to UV radiation. The AISI 316L enclosures are ideal for chemical agents environments and other demanding environments where, for instance, the resistance to sea water corrosion and extremely versatile temperatures is needed.

## Benefits of using our solutions



### Quick deliveries

Our leadtime is one of the shortest in the market. Enclosing solutions are ready to be delivered promptly after the receipt of an approved purchase order and technical drawing.



### Excellent water-resistance

We use special hydrophobic gasketing in our solutions. This improves the water-resistance of our solutions and therefore increases the safety of your operations.



### Corrosion-resistance

The corrosion-resistance of our solutions is excellent, this improves product lifetime and reduces your maintenance costs.



### Freely customized shapes without special tools

Our enclosure dimensions and shapes can be optimized according to your needs: you get the exact required size. This helps you to optimize both your costs and human resources.



# Range comparison

## Ensto Cubo E wall cabinets, IP66

- Sizes 200 x 300 x 150 to 1000 x 1200 x 300 mm
- Standard models of polyester-painted enclosures have flange openings
- Stainless steel models have plain sides
- Welded M8 bolts for a mounting plate in the bottom of the base and M6 bolts for DIN rail profiles or DIN rails in the door
- M6 bolts for earthing on two sides of the base
- Polyester-painted enclosures with wall mounting holes
- Stainless steel versions with drill marks only



## Ensto Cubo EO wall cabinets, IP66

- Sizes 190 x 240 x 138 to 480 x 960 x 248 mm
- Flange knockouts on each side of the base
- Door fitted with a quarter-turn slotted fastener
- Fixed M8 inserts for a mounting plate in the bottom of the base
- M6 bolt for earthing on one side of the base
- Equipped with two M6 bolts in the door for earthing



## Ensto Cubo F terminal enclosures, IP66

- Sizes 150 x 150 x 80 to 800 x 400 x 120 mm
- Available with plain sides
- 120 mm deep polyester-painted enclosures are also available with flange openings or polycarbonate window as standard
- Include a perforated support for DIN rail or mounting plate enabling the maximum use of all sides of the enclosure for cable entries
- M6 bolt for earthing on one side of the base
- Polyester-painted enclosures with wall mounting holes
- Stainless steel versions with drill marks only





# Ensto Cubo E wall cabinets

## IP66, with two doors IP55

### Sizes 200 x 300 x 150 to 1000 x 1200 x 300 mm



#### Ensto Cubo E wall cabinet in brief:

- Standard models of polyester-painted enclosures have flange openings, while standard stainless steel models have plain sides
- Available in 31 sizes
- Welded M8 bolts for a mounting plate in the bottom of the base and M6 bolts for DIN rail profiles or DIN rails in the door
- M6 bolts for earthing on two sides of the base
- Door can be opened 110°
- Door can easily be changed from right to left-hand hinged
- Customer-specific dimensionings also available in small volumes at competitive prices
- Polyester-painted enclosures with wall mounting holes. Stainless steel versions with drill marks only.

#### Contents of the product package:

- Enclosure base
- Door
- Cover plate(s) for flange opening(s), bolts and nuts (polyester painted enclosures)
- Mounting plate with required nuts
- M8 bolt, washers and a nut for earth connection of the mounting plate
- Earth marks
- DIN 3 lock and one DIN 3 key
- Cover plugs for mounting holes (polyester-painted enclosures) and hinge holes
- Nut and washers for M6 bolts

#### Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



A rain shelter is recommended if a cabinet is used outdoors.

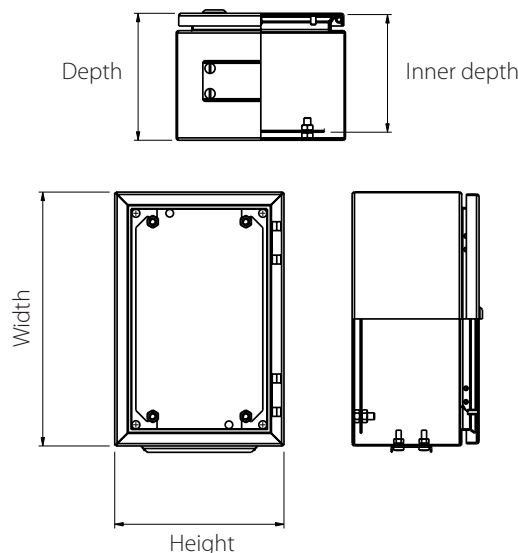


The enclosure has welded M8 bolts in the bottom of the base and M6 bolts in the door. There is also an M6 bolt for earthing on one side.

Conformity	
Steel enclosures:	CE
Technical information	
Degree of protection:	IP66, with two doors IP55
Impact resistance:	IK09 (-25 °C... +35 °C)
Operating temperature:	-40 °C... +80 °C
Short term temperature range:	-40 °C... +120 °C
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	Type 1, 4x, 12, 13 (or type 1)
Material	
Base/door:	Polyester-painted mild steel, stainless steel AISI 304 or AISI 316L
Gasket:	PUR (polyurethane)
Mounting plate:	Galvanized steel
Locks:	Chrome plated zinc die in painted enclosures, AISI 304 or AISI 316 in stainless steel enclosures
Hinges:	Stainless steel
Enclosure side types	
Polyester-painted mild steel cabinets:	Plain sides or flange openings
Stainless steel cabinets:	Plain sides
Standard color	
Polyester-painted mild steel cabinets:	Grey RAL 7035

#### Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



# Ensto Cubo E wall cabinets

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted steel plain sides (product code, GTIN-13)	Polyester-painted steel flange openings (product code, GTIN-13)	Stainless steel AISI 304 plain sides (product code, GTIN-13)	Stainless steel AISI 316L plain sides (product code, GTIN-13)	UL-listed polyester-painted steel plain sides (product code, GTIN-13)	UL-listed stainless steel AISI 304 plain sides (product code, GTIN-13)	UL-listed stainless steel AISI 316L plain sides (product code, GTIN-13)	
200	300	150	139	EFEP203015A 6418677158476	EFEP203015A <sup>1)</sup> 6418677158124	ESSP203015 6418677179518	EASP203015 6438100030094	EFEP203015.U 6438100163440	ESSP203015.U 6438100163754	EASP203015.U 6438100166953	
300	200	150	139	EFEP302015A 6418677158483	EFEP302015A <sup>2)</sup> 6418677158131	ESSP302015 6418677179525	EASP302015 6438100030100	EFEP302015.U 6438100163457	ESSP302015.U 6438100163761	EASP302015.U 6438100166960	
		300	150	139	EFEP303015A 6418677158490	EFEP303015A <sup>2)</sup> 6418677158148	ESSP303015 6418677179532	EASP303015 6438100030117	EFEP303015.U 6438100163464	EASP303015.U 6438100166977	
	400	200	189	EFEP303020A 6418677158506	EFEP303020A <sup>2)</sup> 6418677158155	ESSP303020 6418677179549	EASP303020 6438100030124	EFEP303020.U 6438100163471	ESSP303020.U 6438100163785	EASP303020.U 6438100166984	
		300	189	EFEP304020A 6418677158513	EFEP304020A <sup>2)</sup> 6418677158162	ESSP304020 6418677179556	EASP304020 6438100030131	EFEP304020.U 6438100163488	ESSP304020.U 6438100163792	EASP304020.U 6438100166991	
400	300	150	139	EFEP403015A 6418677158520	EFEP403015A <sup>2)</sup> 6418677158179	ESSP403015 6418677179563	EASP403015 6438100030148	EFEP403015.U 6438100163495	ESSP403015.U 6438100163808	EASP403015.U 6438100167004	
		200	189	EFEP403020A 6418677158537	EFEP403020A <sup>2)</sup> 6418677158186	ESSP403020 6418677179570	EASP403020 6438100030155	EFEP403020.U 6438100163501	ESSP403020.U 6438100163815	EASP403020.U 6438100167011	
	400	200	189	EFEP404020A 6418677158544	EFEP404020A <sup>2)</sup> 6418677158193	ESSP404020 6418677179587	EASP404020 6438100030162	EFEP404020.U 6438100163518	ESSP404020.U 6438100163822	EASP404020.U 6438100167028	
		300	289	EFEP404030A 6418677158551	EFEP404030A <sup>2)</sup> 6418677158209	ESSP404030 6418677179594	EASP404030 6438100030179	EFEP404030.U 6438100163525	ESSP404030.U 6438100163839	EASP404030.U 6438100167035	
	500	200	189	EFEP405020A 6418677158568	EFEP405020A <sup>2)</sup> 6418677158216	ESSP405020 6418677179600	EASP405020 6438100030186	EFEP405020.U 6438100163532	ESSP405020.U 6438100163846	EASP405020.U 6438100167042	
		600	200	189	EFEP406020A 6418677158575	EFEP406020A <sup>2)</sup> 6418677158223	ESSP406020 6418677179617	EASP406020 6438100030193	EFEP406020.U 6438100163549	ESSP406020.U 6438100163853	EASP406020.U 6438100167059
	600	300	289	EFEP406030A 6418677158582	EFEP406030A <sup>2)</sup> 6418677158230	ESSP406030 6418677179624	EASP406030 6438100030209	EFEP406030.U 6438100163556	ESSP406030.U 6438100163860	EASP406030.U 6438100167066	
			500	200	189	EFEP505020A 6418677158599	EFEP505020A <sup>3)</sup> 6418677158247	ESSP505020 6418677179631	EASP505020 6438100030216	EFEP505020.U 6438100163563	ESSP505020.U 6438100163877
	500	300	289	EFEP505030A 6418677158605	EFEP505030A <sup>3)</sup> 6418677158254	ESSP505030 6418677179648	EASP505030 6438100030223	EFEP505030.U 6438100163570	ESSP505030.U 6438100163884	EASP505030.U 6438100167080	
				600	300	289	EFEP506030A 6418677158612	EFEP506030A <sup>3)</sup> 6418677158261	ESSP506030 6418677179655	EASP506030 6438100030230	EFEP506030.U 6438100163587
600	400	200	189	EFEP604020A 6418677158629	EFEP604020A <sup>3)</sup> 6418677158278	ESSP604020 6418677179662	EASP604020 6438100030247	EFEP604020.U 6438100163594	ESSP604020.U 6438100163907	EASP604020.U 6438100167165	
		300	289	EFEP604030A 6418677158636	EFEP604030A <sup>3)</sup> 6418677158285	ESSP604030 6418677179679	EASP604030 6438100030254	EFEP604030.U 6438100163600	ESSP604030.U 6438100163914	EASP604030.U 6438100167172	
	600	200	189	EFEP606020A 6418677158643	EFEP606020A <sup>3)</sup> 6418677158292	ESSP606020 6418677179686	EASP606020 6438100030261	EFEP606020.U 6438100163617	ESSP606020.U 6438100163921	EASP606020.U 6438100167103	
		300	289	EFEP606030A 6418677158650	EFEP606030A <sup>3)</sup> 6418677158308	ESSP606030 6418677179693	EASP606030 6438100030278	EFEP606030.U 6438100163624	ESSP606030.U 6438100163938	EASP606030.U 6438100167110	
	800	200	189	EFEP608020A 6418677158667	EFEP608020A <sup>3)</sup> 6418677158315	ESSP608020 6418677179709	EASP608020 6438100030285	EFEP608020.U 6438100163631	ESSP608020.U 6438100163945	EASP608020.U 6438100167127	
				300	289	EFEP608030A 6418677158674	EFEP608030A <sup>3)</sup> 6418677158322	ESSP608030 6418677179716	EASP608030 6438100030292	EFEP608030.U 6438100163648	ESSP608030.U 6438100163952
	1000	300	289	EFEP6010030A 6418677159404	EFEP6010030A <sup>3)</sup> 6418677158339	ESSP6010030 6418677179723	EASP6010030 6438100030308	EFEP6010030.U 6438100163655	ESSP6010030.U 6438100163969	EASP6010030.U 6438100167141	
				1200	300	289	EFEP6012030A 6418677159411	EFEP6012030A <sup>3)</sup> 6418677158346	ESSP6012030 6418677179730	EASP6012030 6438100030315	EFEP6012030.U 6438100163662
	800	600	300	289	EFEP806030A 6418677159428	EFEP806030A <sup>4)</sup> 6418677158353	ESSP806030 6418677179747	EASP806030 6438100030322	EFEP806030.U 6438100163679	ESSP806030.U 6438100163983	EASP806030.U 6438100167219
					800	200	189	EFEP808020A 6418677159435	EFEP808020A <sup>4)</sup> 6418677158360	ESSP808020 6418677179754	EASP808020 6438100030339
1000		300	289	EFEP808030A 6418677159442	EFEP808030A <sup>4)</sup> 6418677158377	ESSP808030 6418677179761	EASP808030 6438100030346	EFEP808030.U 6438100163693	ESSP808030.U 6438100164003	EASP808030.U 6438100167189	
				1200	300	289	EFEP8010030A 6418677159459	EFEP8010030A <sup>4)</sup> 6418677158384	ESSP8010030 6418677179778	EASP8010030 6438100030353	EFEP8010030.U 6438100163709
1000		300	289	EFEP8012030A 6418677159466	EFEP8012030A <sup>4)</sup> 6418677158391	ESSP8012030 6418677179785	EASP8012030 6438100030360	EFEP8012030.U 6438100163716	ESSP8012030.U 6438100164027	EASP8012030.U 6438100167202	
				800	200	189	EFEP1008030A 6418677159473	EFEP1008030A <sup>5)</sup> 6418677158407	ESSP1008030 6418677179792	EASP1008030 6438100030087	EFEP1008030.U 6438100163723
1000	300	289	EFEP10010030A 6418677159480	EFEP10010030A <sup>5)</sup> 6418677158414	ESSP10010030 6418677179808	EASP10010030 6438100030377	EFEP10010030.U 6438100163730	ESSP10010030.U 6438100164040	EASP10010030.U 6438100167240		
			1200	300	289	EFEP10012030A 6418677159497	EFEP10012030A <sup>5)</sup> 6418677158421	ESSP10012030 6418677179815	EASP10012030 6438100030384	EFEP10012030.U 6438100163747	ESSP10012030.U 6438100164058
800	800	300	289	EFEP808030DA <sup>4)</sup> 6418677158438	EFEP808030DA <sup>4)</sup> 6418677158445	ESSP808030D 6418677179822	EASP808030D 6438100030390	EFEP808030D.U <sup>6)</sup> 6438100163730	ESSP808030D.U <sup>6)</sup> 6438100164041	EASP808030D.U <sup>6)</sup> 6438100167248	
				1000	300	289	EFEP8010030DA <sup>4)</sup> 6418677158455	EFEP8010030DA <sup>4)</sup> 6418677158462	ESSP8010030D 6418677179839	EASP8010030D 6438100030400	EFEP8010030D.U <sup>6)</sup> 6438100163747
1000	1000	300	289	EFEP10010030DA <sup>5)</sup> 6418677158452	EFEP10010030DA <sup>5)</sup> 6418677158459	ESSP10010030D 6418677179846	EASP10010030D 6438100030410	EFEP10010030D.U <sup>6)</sup> 6438100163754	ESSP10010030D.U <sup>6)</sup> 6438100164065	EASP10010030D.U <sup>6)</sup> 6438100167262	
				1200	300	289	EFEP10012030DA <sup>5)</sup> 6418677158469	EFEP10012030DA <sup>5)</sup> 6418677158476	ESSP10012030D 6418677179853	EASP10012030D 6438100030420	EFEP10012030D.U <sup>6)</sup> 6438100163761

<sup>1)</sup> 1 x F1 flange opening  
<sup>2)</sup> 1 x F2 flange opening  
<sup>3)</sup> 2 x F2 flange opening  
<sup>4)</sup> 3 x F2 flange opening  
<sup>5)</sup> 4 x F2 flange opening

<sup>7)</sup> Environmental Type 1 only



Door stopper set , EDS2.



Door grounding, EG200.



Fastening lugs, 20 mm high, EFFL2.20.



Counter part for fastening lugs, EFLM4.

## Accessories

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Rain shelters, painted, RAL 7035 (product code, GTIN-13)	Rain shelters, stainless steel (product code, GTIN-13)	Mounting plate* (product code, GTIN-13)	DIN rail DIN 35 for door (product code, GTIN-13)	DIN rail DIN 35 for base (product code, GTIN-13)	DIN rail profile for door (pair) (product code, GTIN-13)	DIN rail profile for base (pair) (product code, GTIN-13)	
200	300	150	139	ERS2015A 6418677159541	ERS2015B 6418677176005	EMP23 <sup>1)</sup> 6418677199240	DR3520D 6418677176456	DR3520B 6418677176371	EDP30 6418677176197	EBP30 6418677176296	
300	200	150	139	ERS3015A 6418677159558	ERS3015B 6418677176012	EMP32 <sup>1)</sup> 6418677199257	DR3530D 6418677176463	DR3530B 6418677176388	EDP20 6418677176180	EBP20 6418677176289	
		300	150	139	ERS3015A 6418677159558	ERS3015B 6418677176012	EMP33 <sup>1)</sup> 6418677199264	DR3530D 6418677176463	DR3530B 6418677176388	EDP30 6418677176197	EBP30 6418677176296
	400	200	189	ERS3020A 6418677159572	ERS3021B 6418677176036	EMP33 <sup>1)</sup> 6418677199264	DR3530D 6418677176463	DR3530B 6418677176388	EDP30 6418677176197	EBP30 6418677176296	
		200	189	ERS3020A 6418677159572	ERS3021B 6418677176036	EMP34 <sup>1)</sup> 6418677199271	DR3530D 6418677176463	DR3530B 6418677176388	EDP40 6418677176203	EBP40 6418677176302	
400	300	150	139	ERS4015A 6418677159565	ERS4015B 6418677176029	EMP43 <sup>1)</sup> 6418677199288	DR3540D 6418677176470	DR3540B 6418677176395	EDP30 6418677176197	EBP30 6418677176296	
		200	189	ERS4020A 6418677159589	ERS4021B 6418677176043	EMP43 <sup>1)</sup> 6418677199288	DR3540D 6418677176470	DR3540B 6418677176395	EDP30 6418677176197	EBP30 6418677176296	
	400	200	189	ERS4020A 6418677159589	ERS4021B 6418677176043	EMP44 <sup>1)</sup> 6418677199295	DR3540D 6418677176470	DR3540B 6418677176395	EDP40 6418677176203	EBP40 6418677176302	
		300	289	ERS4030A 6418677159626	ERS4031B 6418677176081	EMP44 <sup>1)</sup> 6418677199295	DR3540D 6418677176470	DR3540B 6418677176395	EDP40 6418677176203	EBP40 6418677176302	
	500	200	189	ERS4020A 6418677159589	ERS4021B 6418677176043	EMP45 <sup>2)</sup> 6418677199301	DR3540D 6418677176470	DR3540B 6418677176395	EDP50 6418677176210	EBP50 6418677176319	
		200	189	ERS4020A 6418677159589	ERS4021B 6418677176043	EMP46 <sup>2)</sup> 6418677199318	DR3540D 6418677176470	DR3540B 6418677176395	EDP60 6418677176227	EBP60 6418677176326	
	600	300	289	ERS4030A 6418677159626	ERS4031B 6418677176081	EMP46 <sup>2)</sup> 6418677199318	DR3540D 6418677176470	DR3540B 6418677176395	EDP60 6418677176227	EBP60 6418677176326	
			200	189	ERS5020A 6418677159596	ERS5021B 6418677176050	EMP55 <sup>2)</sup> 6418677199325	DR3550D 6418677176487	DR3550B 6418677176401	EDP50 6418677176210	EBP50 6418677176319
	500	300	289	ERS5030A 6418677159633	ERS5031B 6418677176098	EMP55 <sup>2)</sup> 6418677199325	DR3550D 6418677176487	DR3550B 6418677176401	EDP50 6418677176210	EBP50 6418677176319	
			300	289	ERS5030A 6418677159633	ERS5031B 6418677176098	EMP56 <sup>2)</sup> 6418677199332	DR3550D 6418677176487	DR3550B 6418677176401	EDP60 6418677176227	EBP60 6418677176326
600	400	200	189	ERS6020A 6418677159602	ERS6021B 6418677176067	EMP64 <sup>2)</sup> 6418677199349	DR3560D 6418677176494	DR3560B 6418677176418	EDP40 6418677176203	EBP40 6418677176302	
		300	289	ERS6030A 6418677159640	ERS6031B 6418677176104	EMP64 <sup>2)</sup> 6418677199349	DR3560D 6418677176494	DR3560B 6418677176418	EDP40 6418677176203	EBP40 6418677176302	
	600	200	189	ERS6020A 6418677159602	ERS6021B 6418677176067	EMP66 <sup>2)</sup> 6418677199356	DR3560D 6418677176494	DR3560B 6418677176418	EDP60 6418677176227	EBP60 6418677176326	
		300	289	ERS6030A 6418677159640	ERS6031B 6418677176104	EMP66 <sup>2)</sup> 6418677199356	DR3560D 6418677176494	DR3560B 6418677176418	EDP60 6418677176227	EBP60 6418677176326	
	800	200	189	ERS6020A 6418677159602	ERS6021B 6418677176067	EMP68 <sup>2)</sup> 6418677199363	DR3560D 6418677176494	DR3560B 6418677176418	EDP80 6418677176234	EBP80 6418677176333	
		300	289	ERS6030A 6418677159640	ERS6031B 6418677176104	EMP68 <sup>2)</sup> 6418677199363	DR3560D 6418677176494	DR3560B 6418677176418	EDP80 6418677176234	EBP80 6418677176333	
	1000	300	289	ERS6030A 6418677159640	ERS6031B 6418677176104	EMP610 <sup>3)</sup> 6418677199370	DR3560D 6418677176494	DR3560B 6418677176418	EDP100 6418677176241	EBP100 6418677176340	
			289	ERS6030A 6418677159640	ERS6031B 6418677176104	EMP612 <sup>3)</sup> 6418677199387	DR3560D 6418677176494	DR3560B 6418677176418	EDP120 6418677176258	EBP120 6418677176357	
	800	600	300	289	ERS8030A 6418677159657	ERS8031B 6418677176111	EMP86 <sup>3)</sup> 6418677199394	DR3580D 6418677176500	DR3580B 6418677176425	EDP60 6418677176227	EBP60 6418677176326
			800	200	189	ERS8020A 6418677159619	ERS8021B 6418677176074	EMP88 <sup>3)</sup> 6418677199400	DR3580D 6418677176500	DR3580B 6418677176425	EDP80 6418677176234
300		289	ERS8030A 6418677159657	ERS8031B 6418677176111	EMP88 <sup>3)</sup> 6418677199400	DR3580D 6418677176500	DR3580B 6418677176425	EDP80 6418677176234	EBP80 6418677176333		
		289	ERS8030A 6418677159657	ERS8031B 6418677176111	EMP810 <sup>3)</sup> 6418677199417	DR3580D 6418677176500	DR3580B 6418677176425	EDP100 6418677176241	EBP100 6418677176340		
1200		300	289	ERS8030A 6418677159657	ERS8031B 6418677176111	EMP812 <sup>3)</sup> 6418677199424	DR3580D 6418677176500	DR3580B 6418677176425	EDP120 6418677176258	EBP120 6418677176357	
1000		800	300	289	ERS10030A 6418677159664	ERS10031B 6418677176128	EMP108 <sup>3)</sup> 6418677199431	DR35100D 6418677176517	DR35100B 6418677176432	EDP80 6418677176234	EBP80 6418677176333
	300		289	ERS10030A 6418677159664	ERS10031B 6418677176128	EMP1010 <sup>3)</sup> 6418677199448	DR35100D 6418677176517	DR35100B 6418677176432	EDP100 6418677176241	EBP100 6418677176340	
	1200	300	289	ERS10030A 6418677159664	ERS10031B 6418677176128	EMP1012 <sup>3)</sup> 6418677199455	DR35100D 6418677176517	DR35100B 6418677176432	EDP120 6418677176258	EBP120 6418677176357	

\* mounting plate is included in all standard enclosure deliveries

<sup>1)</sup> mounting plate 2.0 mm thick

<sup>2)</sup> mounting plate 2.5 mm thick

<sup>3)</sup> mounting plate 3.0 mm thick

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
EVF2A	Ventilation flange F2 size	93 x 222 x 7,5	1	6418677159671
ECF1A	Cover plate F1 size	48 x 137 x 7,5	1	6418677159688
ED10	Delta lock with 11 mm key	ø 28 x 32 x ø 22	1	6418677176531
ED10M6	Lock with wing handle, width 50 mm	50 x 45 x ø 22	1	6418677176548
EKL1	Lock Includes 2 keys	ø 27 x 33 x ø 22	1	6418677176555
EH1	Black swing handle for three point locking	48 x 180 x 50	1	6418677176579
EDS2	Door stopper, set, galvanized steel	-	1	6438100102265
EG200	Door grounding, M6>M6, 2,5 mm <sup>2</sup>	L=220	5	6418677199615
EFFL2.20	Fastening lugs, 20 mm high, set of 4 pcs	-	1	6418677199622
EFFL2.50	Fastening lugs, 50 mm high, set of 4 pcs	-	1	6418677199639
EFLM4	Counter part for fastening lugs, set of 4 pcs	-	1	6418677199608
OLT42KEY	DIN 3 key for standard lock	50 x 53 x ø22	1	6418677172410



Lock Includes 2 keys, EKL1.



# Ensto Cubo EO wall cabinets, IP66

Sizes 190 x 240 x 138 to 480 x 960 x 248 mm



## Ensto Cubo EO wall cabinet in brief:

- Flange knockouts on each side of the base
- Available in 22 sizes
- Door fitted with a quarter-turn slotted fastener
- Door can be opened 110°
- Fixed M8 inserts for a mounting plate in the bottom of the base
- M6 bolt for earthing on one side of the base
- Equipped with two M6 bolts in the door, for earthing
- Excellent choice for creating larger assemblies

## Contents of the product package:

- Enclosure base
- Door
- M8 mounting screws and earthing accessories
- Mounting plate
- Quarter-turn slotted lock

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

## Conformity

Steel enclosures:



## Technical information

Degree of protection:	IP66
Impact resistance:	IK09 (-25 °C... +35 °C)
Operating temperature:	-40 °C... +80 °C
Short term temperature range:	-40 °C... +120 °C
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	Type 1, 4x, 12, 13 (or type 1)

## Material

Base/door:	Polyester-painted mild steel
Gasket:	PUR (polyurethane)
Mounting plate:	Galvanized steel

## Enclosure side types

Polyester-painted mild steel cabinets:	Flange knockouts
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## Standard color

Polyester-painted mild steel cabinets:	Grey RAL 7035
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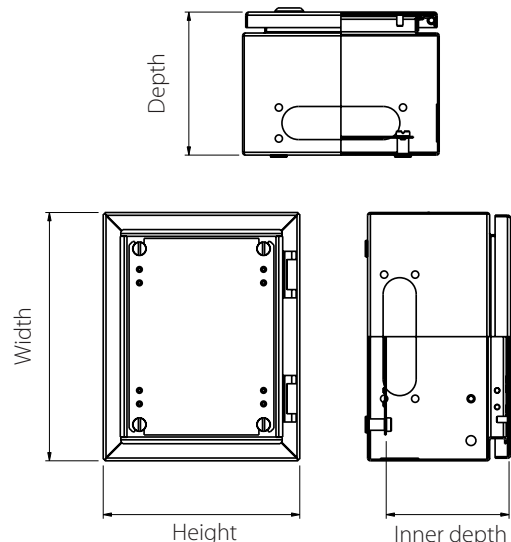
A 1.5 mm mounting plate complete with M8 bolts and earthing accessories are included in the delivery of standard enclosures.



The enclosures include flange knockouts on all four sides.

## Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



## Ensto Cubo EO wall cabinets with flange knockouts, polyester-painted mild steel

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted steel flange knockouts (product code, GTIN-13)	Mounting plates, galvanized steel					
					1.5 thick	2.5 thick				
190	240	138	118	EOK192414A <sup>1)</sup> 6418677198946	EOK1 6418677186660					
				280	138	EOJ192814A <sup>2)</sup> 6418677198922	EOJ1 6418677186653			
	193	173	EOJ192819A <sup>2)</sup> 6418677198939			EOJ1 6418677186653				
			380		138	118	EOM193814A <sup>2)</sup> 6418677198960	EOM1 6418677186684		
	193	173					EOM193819A <sup>2)</sup> 6418677198977	EOM1 6418677186684		
			240	280	138	118	EOL242814A <sup>2)</sup> 6418677198953	EOL1 6418677186677		
280	280	138					118	EOO282814A <sup>3)</sup> 6418677198984	EOO1 6418677186691	
			193	173	EOO282819A <sup>3)</sup> 6418677198991	EOO1 6418677186691				
		380			138	118	EOP283814A <sup>3)</sup> 6418677199004	EOP1 6418677186707		
			193	173			EOP283819A <sup>3)</sup> 6418677199011	EOP1 6418677186707		
	560	138			118	EOT285614A <sup>4)</sup> 6418677199042	EOT1 6418677186721			
			193	173		EOT285619A <sup>4)</sup> 6418677199059	EOT1 6418677186721			
	380	380			138	118	EOR383814A <sup>3)</sup> 6418677199028	EOR1 6418677186714		
			193	173			EOR383819A <sup>3)</sup> 6418677199035	EOR1 6418677186714		
					560	138	118	EOU385614A <sup>4)</sup> 6418677199066	EOU1 6418677186738	EOU3 6418677186745
			193	173				EOU385619A <sup>4)</sup> 6418677199073	EOU1 6418677186738	EOU3 6418677186745
248		228				EOU385625A <sup>4)</sup> 6418677199080	EOU1 6418677186738	EOU3 6418677186745		
			840	193		173	EOV388419A <sup>5)</sup> 6418677199103	EOV1 6418677186769	EOV3 6418677186776	
248		228			EOV388425A <sup>5)</sup> 6418677199110		EOV1 6418677186769	EOV3 6418677186776		
			480	480	248	228	EOY484825A <sup>3)</sup> 6418677199097	EOY1 6418677186752		
760		248					228	EOZ487625A <sup>4)</sup> 6418677199127	EOZ1 6418677186783	EOZ3 6418677186790
								960	248	228

<sup>1)</sup> 4 x F1 knockout

<sup>2)</sup> 2 x F1 knockout + F2 knockout

<sup>3)</sup> 4 x F2 knockout

<sup>4)</sup> 6 x F2 knockout

<sup>5)</sup> 8 x F2 knockout



EOJ192814A



EOR383814A



EOJ1

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Lock alternatives</b>				
EO71.04	Adapter for padlock	-	1	6418677186820
EO71.05	Adapter for padlock Includes T handle	-	1	6418677186837
EO71.06	DIN 3 lock	DIN 3	1	6418677186844
EO71.07	T handle lock	△ 10/M5	1	6418677186851
OLT42KEY	Key for DIN 3 lock	50 x 53 x ø22	1	6418677172410
<b>Accessories for flanges</b>				
EO72.07	Fastening bolt set for F1 size flange	M6	1	6418677186875
EO72.08	Fastening bolt set for F2 size flange	M8	1	6418677186882
EO72.10	Counter rib/M6 for F1 size flange	M6	1	6418677186899
EO72.11	Counter rib/M8 for F2 size flange	M8	1	6418677186905
<b>Fastening lugs</b>				
EOFL2.20	Fastening lug set, 20 mm high	20	1	6418677199578
EOFL2.50	Fastening lug set, 50 mm high	50	1	6418677199585
<b>Other accessories</b>				
EVF2A	Ventilation flange F2 size	93 x 222 x 7,5	1	6418677159671
EDS2	Door stopper, set, galvanized steel	-	1	6438100102265



Fastening lug set, 20 mm high, EOFL2.20.



Adapter for padlock, EO71.04.



Adapter for padlock Includes T handle, EO71.05.



DIN 3 lock, EO71.06.



T handle lock, EO71.07.

# Ensto Cubo F terminal enclosures, IP66

Sizes 100 x 100 x 90 to 800 x 400 x 120 mm



## Ensto Cubo F terminal enclosure in brief:

- Available with plain sides
- 120 mm deep polyester-painted enclosures are also available with flange openings or polycarbonate window as standard
- Available in 30 sizes and in two depth alternatives
- Small push button enclosures also available in four sizes
- Include a perforated support for DIN rail or mounting plate enabling the maximum use of all sides of the enclosure for cable entries
- M6 bolt for earthing on one side of the base
- Customer-specific dimensionings also available in small volumes at competitive prices
- All versions can be supplied with hinges
- Polyester-painted enclosures with wall mounting holes
- Stainless steel versions with drill marks only

## Contents of the product package:

- Enclosure base
- Cover
- Cover screws with gaskets and cage nuts
- Mounting screws
- Cover plugs for mounting holes
- A M6 nut and a washer for earthing
- Earth marks
- Models with flange openings include also cover plates, bolts and washers

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



These enclosures include a perforated support for a DIN rail or mounting plate as standard. The optimised mounting supports enable the maximum use of all sides of the enclosure for cable entries.

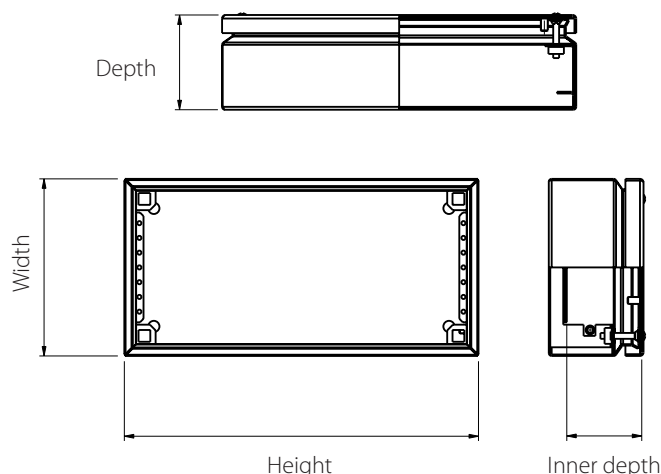


120 mm deep polyester-painted enclosures are also available with flange openings. The product package includes cover plates, bolts and washers.

Conformity	
Steel enclosures:	CE RoHS FI UL cUL
Technical information	
Degree of protection:	IP66, models with two cover screws IP65
Impact resistance:	IK09 (-25 °C... +35 °C), models with window IK07 (-5 °C...+35 °C)
Operating temperature:	-40 °C... +80 °C
Short term temperature range:	-40 °C... +120 °C
UL File no:	E189312
UL category:	NITW, NITW7
Environmental type (UL):	Type 1, 4x, 12, 13 (or type 1)
Material	
Base/cover:	Polyester-painted mild steel, stainless steel AISI 304 or AISI 316L
Gasket:	PUR (polyurethane)
Cover screw gasket:	Dryflex (SEBS)
Enclosure side types	
Polyester-painted mild steel cabinets:	Plain sides, flange openings
Stainless steel cabinets:	Plain sides
Standard color	
Polyester-painted mild steel cabinets:	Grey RAL 7035

## Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).





## Ensto Cubo F terminal enclosures with plain sides

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted steel plain sides (product code, GTIN-13)	Stainless steel AISI 304 plain sides (product code, GTIN-13)	Stainless steel AISI 316L plain sides (product code, GTIN-13)	UL-listed Polyester-painted steel plain sides (product code, GTIN-13)	UL-listed Stainless steel AISI 304 plain sides (product code, GTIN-13)	UL-listed Stainless steel AISI 316L plain sides (product code, GTIN-13)
150	150	80	63.5	FFUP151508A 6418677159701	FSUP151508 6418677189548	FAUP151508 6438100032685	FFUP151508.U 6438100164362	FSUP151508.U 6438100164065	FAUP151508.U 6438100167264
		120	103.5	FFUP151512A 6418677159855	FSUP151512 6418677189692	FAUP151512 6438100032708	FFUP151512.U 6438100164379	FSUP151512.U 6438100164072	FAUP151512.U 6438100167271
200	200	80	63.5	FFUP202008A 6418677159718	FSUP202008 6418677189555	FAUP202008 6438100032715	FFUP202008.U 6438100164386	FSUP202008.U 6438100164089	FAUP202008.U 6438100167288
		120	103.5	FFUP202012A 6418677159862	FSUP202012 6418677189708	FAUP202012 6438100032739	FFUP202012.U 6438100164393	FSUP202012.U 6438100164096	FAUP202012.U 6438100167295
300	150	80	63.5	FFUP301508A 6418677159725	FSUP301508 6418677189562	FAUP301508 6438100032746	FFUP301508.U 6438100164409	FSUP301508.U 6438100164102	FAUP301508.U 6438100167301
		120	103.5	FFUP301512A 6418677159879	FSUP301512 6418677189715	FAUP301512 6438100032760	FFUP301512.U 6438100164416	FSUP301512.U 6438100164119	FAUP301512.U 6438100167318
	200	80	63.5	FFUP302008A 6418677159732	FSUP302008 6418677189579	FAUP302008 6438100032777	FFUP302008.U 6438100164423	FSUP302008.U 6438100164126	FAUP302008.U 6438100167325
		120	103.5	FFUP302012A 6418677159886	FSUP302012 6418677189722	FAUP302012 6438100032791	FFUP302012.U 6438100164430	FSUP302012.U 6438100164133	FAUP302012.U 6438100167332
	300	80	63.5	FFUP303008A 6418677159749	FSUP303008 6418677189586	FAUP303008 6438100032807	FFUP303008.U 6438100164447	FSUP303008.U 6438100164140	FAUP303008.U 6438100167349
		120	103.5	FFUP303012A 6418677159893	FSUP303012 6418677189739	FAUP303012 6438100032821	FFUP303012.U 6438100164454	FSUP303012.U 6438100164157	FAUP303012.U 6438100167356
400	200	80	63.5	FFUP402008A 6418677159756	FSUP402008 6418677189593	FAUP402008 6438100032838	FFUP402008.U 6438100164461	FSUP402008.U 6438100164164	FAUP402008.U 6438100167363
		120	103.5	FFUP402012A 6418677159909	FSUP402012 6418677189746	FAUP402012 6438100032852	FFUP402012.U 6438100164478	FSUP402012.U 6438100164171	FAUP402012.U 6438100167370
	300	80	63.5	FFUP403008A 6418677159763	FSUP403008 6418677189609	FAUP403008 6438100032869	FFUP403008.U 6438100164485	FSUP403008.U 6438100164188	FAUP403008.U 6438100167387
		120	103.5	FFUP403012A 6418677159916	FSUP403012 6418677189753	FAUP403012 6438100108076	FFUP403012.U 6438100164492	FSUP403012.U 6438100164195	FAUP403012.U 6438100167394
400	400	80	63.5	FFUP404008A 6418677159770	FSUP404008 6418677189616	FAUP404008 6438100032883	FFUP404008.U 6438100164508	FSUP404008.U 6438100164201	FAUP404008.U 6438100167400
		120	103.5	FFUP404012A 6418677159923	FSUP404012 6418677189760	FAUP404012 6438100032906	FFUP404012.U 6438100164515	FSUP404012.U 6438100164218	FAUP404012.U 6438100167417
500	200	80	63.5	FFUP502008A 6418677159787	FSUP502008 6418677189623	FAUP502008 6438100032913	FFUP502008.U 6438100164522	FSUP502008.U 6438100164225	FAUP502008.U 6438100167424
		120	103.5	FFUP502012A 6418677159930	FSUP502012 6418677189777	FAUP502012 6438100032937	FFUP502012.U 6438100164539	FSUP502012.U 6438100164232	FAUP502012.U 6438100167431
	300	80	63.5	FFUP503008A 6418677159794	FSUP503008 6418677189630	FAUP503008 6438100032944	FFUP503008.U 6438100164546	FSUP503008.U 6438100164249	FAUP503008.U 6438100167448
		120	103.5	FFUP503012A 6418677154683	FSUP503012 6418677189784	FAUP503012 6438100032968	FFUP503012.U 6438100164553	FSUP503012.U 6438100164256	FAUP503012.U 6438100167455
600	200	80	63.5	FFUP602008A 6418677159800	FSUP602008 6418677189647	FAUP602008 6438100032975	FFUP602008.U 6438100164560	FSUP602008.U 6438100164263	FAUP602008.U 6438100167462
		120	103.5	FFUP602012A 6418677154690	FSUP602012 6418677189791	FAUP602012 6438100032999	FFUP602012.U 6438100164577	FSUP602012.U 6438100164270	FAUP602012.U 6438100167479
	300	80	63.5	FFUP603008A 6418677159817	FSUP603008 6418677189654	FAUP603008 6438100033002	FFUP603008.U 6438100164584	FSUP603008.U 6438100164287	FAUP603008.U 6438100167486
		120	103.5	FFUP603012A 6418677154706	FSUP603012 6418677189807	FAUP603012 6438100033026	FFUP603012.U 6438100164591	FSUP603012.U 6438100164294	FAUP603012.U 6438100167493
	400	80	63.5	FFUP604008A 6418677159824	FSUP604008 6418677189661	FAUP604008 6438100033033	FFUP604008.U 6438100164607	FSUP604008.U 6438100164300	FAUP604008.U 6438100167509
		120	103.5	FFUP604012A 6418677154713	FSUP604012 6418677189814	FAUP604012 6438100033057	FFUP604012.U 6438100164614	FSUP604012.U 6438100164317	FAUP604012.U 6438100167516
800	200	80	63.5	FFUP802008A 6418677159831	FSUP802008 6418677189678	FAUP802008 6438100033064	FFUP802008.U 6438100164621	FSUP802008.U 6438100164324	FAUP802008.U 6438100167523
		120	103.5	FFUP802012A 6418677154720	FSUP802012 6418677189821	FAUP802012 6438100033088	FFUP802012.U 6438100164638	FSUP802012.U 6438100164331	FAUP802012.U 6438100167530
	400	80	63.5	FFUP804008A 6418677159848	FSUP804008 6418677189685	FAUP804008 6438100033095	FFUP804008.U 6438100164645	FSUP804008.U 6438100164348	FAUP804008.U 6438100167547
		120	103.5	FFUP804012A 6418677154737	FSUP804012 6418677189838	FAUP804012 6438100033118	FFUP804012.U 6438100164652	FSUP804012.U 6438100164355	FAUP804012.U 6438100167554



FSUP151508



FFUP303012A



FFUP302012A



FSPB221009

## Ensto Cubo F terminal enclosures with flange openings, polyester-painted mild steel

Flange opening size: 192 x 62 mm

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted steel, flanges 192 x 62 mm (product code, GTIN-13)
300	150	120	103.5	FFUF301512A 6418677154744 Flanges/side: 1 + 1 + 0 + 0
	200	120	103.5	FFUF302012A 6418677154751 Flanges/side: 1 + 1 + 0 + 0
	300	120	103.5	FFUF303012A 6418677154768 Flanges/side: 1 + 1 + 1 + 1
400	200	120	103.5	FFUF402012A 6418677154775 Flanges/side: 1 + 1 + 0 + 0
	300	120	103.5	FFUF403012A 6418677154782 Flanges/side: 1 + 1 + 1 + 1
	400	120	103.5	FFUF404012A 6418677154799 Flanges/side: 1 + 1 + 1 + 1
500	200	120	103.5	FFUF502012A 6418677154805 Flanges/side: 2 + 2 + 0 + 0
	300	120	103.5	FFUF503012A 6418677154812 Flanges/side: 2 + 2 + 1 + 1
600	200	120	103.5	FFUF602012A 6418677154829 Flanges/side: 2 + 2 + 0 + 0
	300	120	103.5	FFUF603012A 6418677154836 Flanges/side: 2 + 2 + 1 + 1
	400	120	103.5	FFUF604012A 6418677154843 Flanges/side: 2 + 2 + 1 + 1
800	200	120	103.5	FFUF802012A 6418677198830 Flanges/side: 3 + 3 + 0 + 0
	400	120	103.5	FFUF804012A 6418677198847 Flanges/side: 3 + 3 + 1 + 1

## Ensto Cubo F terminal enclosures with polycarbonate window, polyester-painted mild steel

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted steel, with polycarbonate window (product code, GTIN-13)
200	200	120	101.5	FFUW202012A 6418677198861 Window size: 120 x 120 mm
300	200	120	101.5	FFUW302012A 6418677198878 Window size: 220 x 120 mm
400	200	120	101.5	FFUW402012A 6418677198885 Window size: 320 x 120 mm
500	200	120	101.5	FFUW502012A 6418677198892 Window size: 420 x 120 mm
600	200	120	101.5	FFUW602012A 6418677198908 Window size: 520 x 120 mm
800	200	120	101.5	FFUW802012A 6418677198915 Window size: 720 x 120 mm

## Ensto Cubo F push button enclosures

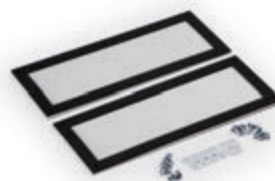
Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Push button openings (product code, GTIN-13)
100	100	90	73.5	FSPB101009 6438100123109
160	100	90	73.5	FSPB161009 6438100123116
220	100	90	73.5	FSPB221009 6438100123123
280	100	90	73.5	FSPB281009 6438100123130

## Mounting plates and DIN rails

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Mounting plates, galvanized steel</b>				
FMP1515	For 150 x 150 mm enclosures	135 x 100 x 2	10	6418677157394
FMP2020	For 200 x 200 mm enclosures	185 x 150 x 2	10	6418677157417
FMP3015	For 300 x 150 mm enclosures	285 x 100 x 2	10	6418677199462
FMP3020	For 300 x 200 mm enclosures	285 x 150 x 2	10	6418677199479
FMP3030	For 300 x 300 mm enclosures	285 x 250 x 2	10	6418677157479
FMP4020	For 400 x 200 mm enclosures	385 x 150 x 2	10	6418677199486
FMP4030	For 400 x 300 mm enclosures	385 x 250 x 2	5	6418677199493
FMP4040	For 400 x 400 mm enclosures	385 x 350 x 2	5	6418677157516
FMP5020	For 500 x 200 mm enclosures	485 x 150 x 2	5	6418677199509
FMP5030	For 500 x 300 mm enclosures	485 x 250 x 2	5	6418677199516
FMP6020	For 600 x 200 mm enclosures	585 x 150 x 2	5	6418677199523
FMP6030	For 600 x 300 mm enclosures	585 x 250 x 2	5	6418677199530
FMP6040	For 600 x 400 mm enclosures	585 x 350 x 2	5	6418677199547
FMP8020	For 800 x 200 mm enclosures	785 x 150 x 2	5	6418677199554
FMP8040	For 800 x 400 mm enclosures	785 x 350 x 2	5	6418677199561
<b>DIN rails, galvanized steel</b>				
DR3515	For 150 mm side	35 x 140	10	6418677156878
DR3520	For 200 mm side	35 x 190	10	6418677156885
DR3530	For 300 mm side	35 x 290	10	6418677156892
DR3540	For 400 mm side	35 x 390	10	6418677156908
DR3550	For 500 mm side	35 x 490	5	6418677156915
DR3560	For 600 mm side	35 x 590	5	6418677156922
DR3580	For 800 mm side	35 x 790	5	6418677156939



FMP1515



Cover plate, FFUF1A.

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
FFUF1A	Cover plate	84 x 214 x 2	1	6418677198854
FHI2	Hinge pair, stainless steel	30 x 15 x 11	1	6418677199592
EFFL2.20	Fastening lugs, 20 mm high, set of 4 pcs	-	1	6419677199622
EFFL2.50	Fastening lugs, 50 mm high, set of 4 pcs	-	1	6419677199639
FFL1	Fastening lugs, 10 mm high, set of 4 pcs	-	1	6438100123147
FFL2	Fastening lugs, 10 mm high, set of 4 pcs	-	1	6438100127848



Hinge pair, FHI2.

# Aluminium enclosures

The weight of aluminium is only about a quarter of that of steel. It has high impact-resistance, a wide temperature-resistance range and excellent corrosion-resistance.

## Benefits of using our solutions



### Quick deliveries

Our leadtime is one of the shortest in the market. Enclosing solutions are ready to be delivered promptly after receipt of purchase order and approved technical drawing.



### Wide size range

We offer a particularly wide range of standard enclosure sizes.



### Light weight

Due to the properties of aluminium, the enclosures are light but have high impact-resistance.



### Excellent water-resistance

Our enclosures are water-resistant with a high degree of protection (IP66). Enclosures are polyester-painted, which improves our product lifetime and reduces your maintenance costs.



# Ensto Cubo H enclosures, IP66

Sizes 50 x 45 x 30 to 310 x 601 x 180 mm



## Ensto Cubo H enclosure in brief:

- Available with plain sides
- Available in 29 sizes
- Meets the requirements of the machine and military industry as regards to resistance to solvents, petrol and oil

## Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws

## Further information

- Service offering, page 12–13
- Common enclosure accessories, page 48–53
- Product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).

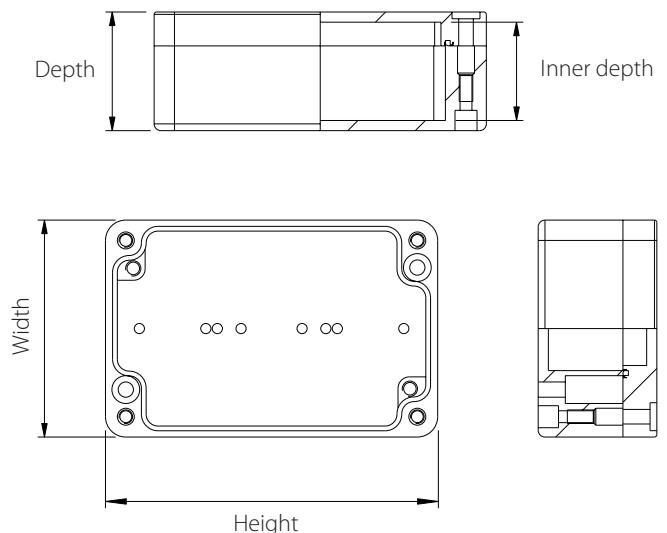
Conformity	
Aluminium enclosures:	CE
Technical information	
Degree of protection:	IP66
Impact resistance:	7 Nm
Operating temperature:	-40 °C... +80 °C
Material	
Base/cover:	Polyester-painted aluminium
Cover screws:	Stainless steel
Gasket:	PUR (polyurethane)
Enclosure side types	
Aluminium enclosures:	Plain sides
Standard color	
Base/cover:	Grey RAL 7001



Captive cover screws of stainless steel are included in the delivery of Ensto Cubo H enclosures. Mounting screws are integrated in the enclosure base.

## Dimensions

You can find the following dimensions on the product tables. More information, product cards, dimensional drawings and 3D models can be found at [www.ensto.com](http://www.ensto.com).



## Ensto Cubo H enclosures

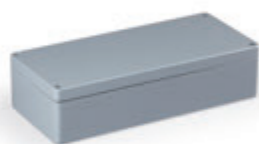
Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Polyester-painted aluminium plain sides (product code, GTIN-13)	Mounting plates, galvanized steel (product code, GTIN-13)	DIN rails, galvanized steel	
						DIN-15	DIN-35
50	45	30.0	24.5	HALP050503 6418677165450			
64	58	34.0	28.5	HALP060604 6418677165771			
	98	35.0	29.0	HALP061004 6418677165788		DR15.0610 6418677156991	
	150	35.0	27.5	HALP061504 6418677165795		DR15.0615 6418677157004	
80	75	57.5	51.5	HALP080806 6418677165801	HMP0808B 6418677157578	DR15.0808H 6418677157011	
	125	58.0	52.5	6418677165818	HMP0813B 6418677157585	DR15.0813 6418677157028	
		125.5	117.5	HALP081313 6438100088279	HMP0813B 6418677157585	DR15.0813 6418677157028	
	175	58.0	52.0	HALP081806 6418677165825	HMP0818B 6418677157592	DR15.0818 6418677157035	
	250	57.5	50.5	HALP082506 6418677165832		DR15.0825 6418677157042	
120	122	82.0	72.5	HALP121208 6438100090395	HMP1212B 6418677157608	DR35.1212 6418677157059	
		92.5	83.0	HALP121209 6418677165849	HMP1212B 6418677157608	DR35.1212 6418677157059	
	220	81.5	72.5	HALP122208 6438100088286	HMP1222B 6418677157615	DR35.1220 6418677157066	
		91.0	82.5	HALP122009 6418677165856	HMP1222B 6418677157615	DR35.1220 6418677157066	
121	360	82.5	72.5	HALP123608 6418677165863	HMP1236B 6418677157622	DR35.12/1636 6418677157073	
160	160	92.0	82.0	HALP161609 6418677165870	HMP1616B 6418677157639	DR35.1616 6418677157080	
	260	91.5	82.0	HALP162609 6418677165887	HMP1626B 6418677157646	DR35.1626 6418677157097	
	360	91.5	82.0	HALP163609 6418677165894	HMP1636B 6418677157653	DR35.12/1636 6418677157073	
	560	92.0	81.0	HALP165609 6418677165900	HMP1656B 6418677157660	DR35.1656 6418677157103	
202	232	111.5	102.5	HALP202311 6418677165917	HMP2023B 6418677157677	DR35.2023 6418677157110	
200	230	181.0	172.0	HALP202318 6418677165924	HMP2023B 6418677157677	DR35.2023 6418677157110	
230	280	111.5	102.5	HALP232811 6418677165931	HMP2333B 6418677157691	DR35.2333 6418677157141	
233	335	112.0	102.5	HALP233311 6418677165948	HMP2360B 6418677157714	DR35.23/3160 6418677157165	
234	335	182.0	172.0	HALP233318 6418677165955	HMP2328B 6418677157684	DR35.2328 6418677157134	
230	400.5	111.5	99.0	HALP234011 6418677165962	HMP2333B 6418677157691	DR35.2333 6418677157141	
	600	114.0	101.5	HALP236011 6418677165979	HMP2340B 6418677157707	DR35.23/3140 6418677157158	
310	403	111.5	100.5	HALP314011 6418677165986	HMP3160B 6418677157738	DR35.23/3160 6418677157165	
		181.5	171.0	HALP314018 6418677165993	HMP3160B 6418677157738	DR35.23/3160 6418677157165	
	601	112.0	102.0	HALP316011 6418677166006	HMP3140B 6418677157721	DR35.23/3140 6418677157158	
		180.0	169.0	HALP316018 6418677166013	HMP3140B 6418677157721	DR35.23/3140 6418677157158	

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
HMH12	Hinge pair	25 x 40 x 11.5	1	6418677165443
HMFL4	Wall mounting lugs, set of 4 pcs, AISI 304	-	1	6418677165436



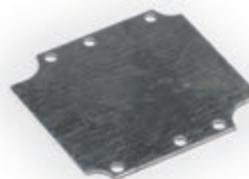
HALP050503



HALP163609



HMH12



HMP0808B



DR15.0808H

# Common enclosure accessories

We offer a wide range of accessories, for instance flanges, pole mounting brackets, thermal management accessories, cable glands, rubber grommets, expansion and reduction nipples.

## Benefits of using our accessories



### Wide range of accessories

We offer a wide range of high-quality accessories for industrial use.



### Sourcing of third-party accessories

We offer our sourcing services in the event that our range does not cover all accessories suitable for your needs.



### Assembly services

We also offer assembly services, saving you time and other resources and guaranteeing safe and reliable assemblies.





## Flanges

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Cover plates for flange openings</b>				
F1151	F1 size excl. gasket, PC/ABS	137 x 48	1	6418677171833
F2251	F2 size Includes PUR gasket, PC	216 x 86	1	6418677171949
<b>Gland flanges</b>				
F1165	F1 size, excl. gasket, 3 x M20, PC/ABS	137 x 48	1	6418677152641
F1166	F1 size, excl. gasket, 3 x M25, PC/ABS	137 x 48	1	6418677152658
F1167	F1 size, excl. gasket, 1 x M32, PC/ABS	137 x 48	1	6418677152665
F2157	F2 size, Includes PUR gasket, 3 x Pg21 + 4 x Pg16, PC	216 x 86	1	6418677171956
F2158	F2 size, Includes PUR gasket, 2 x Pg29 + 6 x Pg16, PC	216 x 86	1	6418677171963
F2159	F2 size, Includes PUR gasket, 2 x Pg36 + 4 x Pg16, PC	216 x 86	1	6418677171970
F2160	F2 size, Includes PUR gasket, 8 x Pg16, PC	216 x 86	1	6418677171987
F2161	F2 size, Includes PUR gasket, 10 x Pg13.5, PC	216 x 86	1	6418677171994
F2168	F2 size, Includes PUR gasket, 4 x M20 + 1 x M25 + 2 x M32, PC	216 x 86	1	6418677152672
F2169	F2 size, Includes PUR gasket, 6 x M20 + 1 x M32 + 1 x M40, PC	216 x 86	1	6418677152689
F2170	F2 size, Includes PUR gasket, 4 x M20 + 2 x M40, PC	216 x 86	1	6418677152696
F2171	F2 size, incl, PUR gasket, 8 x M20, PC	216 x 86	1	6418677152702
F2172	F2 size, incl, PUR gasket, 10 x M16, PC	216 x 86	1	6418677152719
<b>Knockout flanges</b>				
F2252	F2 size, Includes PUR gasket, 7 x Pg11 + 7 x Pg9/16, PC	216 x 86	1	6418677172113
F2253	F2 size, Includes PUR gasket, 2 x Pg21/29/36 + 2 x Pg9/16 + 1 x Pg11, PC	216 x 86	1	6418677172397
F2254	F2 size, Includes PUR gasket, 5 x Pg16/21 + 2 x Pg11 + 1 x Pg9/16, PC	216 x 86	1	6418677172403
F2255	F2 size, Includes PUR gasket, 7 x M16 + 7 x M12/20, PC	216 x 86	1	6418677172595
F2256	F2 size, Includes PUR gasket, 2 x M20/32/50 + 2 x M12/20 + 2 x M16, PC	216 x 86	1	6418677172625
F2257	F2 size, Includes PUR gasket, 5 x M20/32 + 2 x M16 + 1 x M12/20, PC	216 x 86	1	6418677172700
<b>Membrane flanges</b>				
F1201	F1 size, for 5x ø 7-30 mm cables, EPDM	138 x 48	1	6418677171871
F2202	F2 size, for 25 x ø 5-26 mm cables, EPDM	216 x 84	1	6418677172007
F2203	F2 size, for 35 x ø 5-26 mm cables, EPDM	216 x 84	1	6418677172014
F2204	F2 size, for 3 x ø 24-60 mm cables, EPDM	216 x 84	1	6418677172021
F1155	F1 size, excl. gasket, 3 x ø 21 + 4 x ø 15 mm, TPE	135 x 47	1	6418677171888
F1156	F1 size, excl. gasket, 4 x ø 16 + 6 x ø 13 mm, TPE	135 x 47	1	6418677171895
F2162	F2 size, excl. gasket, 3 x ø30 + 6 x ø18 + 16 x ø14 mm, TPE	226 x 87	1	6418677172038
F2163	F2 size, excl. gasket, 9 x ø18 + 24 x ø14 mm, TPE	226 x 87	1	6418677172045
<b>Membrane flange for steel enclosures only</b>				
PMR331	F2 size, for cable ø: 37/32/27/22/17/12 mm	79 x 210 x 28	10	6418677163555

EPDM = ethylene propylene diene M-class rubber

TPE = thermoplastic elastomer



F2251



F2157



F2252



F2202

## Flange accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
F2CE.1	Cable spreader for 1 cable	216 x 86 x 68	1	6418677181672
F2CS0E	50 mm extension frame for F2 flange, polycarbonate	216 x 86 x 50	1	6418677173448
F1G	Self-adhesive flange gasket, F1 size	137 x 48	1	6418677171925
F2G	Self-adhesive flange gasket, F2 size	216 x 84	1	6418677172076
F1SS20	Flange bolt set, F1 size, steel bolt with plastic head	M6 x 20	1	6418677173066
F2SS20	Flange bolt set, F2 size, steel bolt with plastic head	M6 x 25	1	6418677171932
F2SS20L	Flange bolt set, F2 size, steel bolt with plastic head + steel connector	M8 x 20	1	6418677181689
F1PA25	Flange bolt set, F1 size, polyamide	M6 x 25	1	6418677173080
F2PA30	Flange bolt set, F2 size, polyamide	M8 x 30	1	6418677172083
PMR1857	Flange/base support for F2 size, polyamide	216 x 22	10	6418677172106
PMR1858	Isolating cup for support PMR1857, polyamide	ø 18 mm	20	6418677171796



Cable spreader for 1 cable, F2CE.1.

## Flange and gland sets

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
F2202KIT	Flange set, F2202, F2 size	84 x 215 x 40	1	6418677182556
F2CE.1T	Complete cable entry, F2 size	84 x 215 x 40	1	6418677181535
KTM1.1	Cable gland set: 2 x M12, 3 x M16, 2 x M20	135 x 210 x 25	1	6418677173233
KTM2.1	Cable gland set: 3 x M16, 2 x M20, 2 x M25	135 x 210 x 30	1	6418677173240
KTM3.1	Cable gland set: 4 x M20, 2 x M25, 1 x M32	135 x 210 x 55	1	6418677173257
F2GSS20T	Mounting kit for Cubo C bases, F2 size	200 x 250 x 15	1	6418677181504
OLSH1.2	Hinged and slotted cover screw, pair (blue)	130 x 170 x 15	1	6418677181511



## Pole mounting brackets for plastic and metal enclosures

Pole mounting brackets were designed to securely fasten your Ensto Cubo metal and plastic enclosure to a pole. The pole mounting brackets are a set of two rails or a plate with a pole clamp and needed screws. The diameter for the pole can vary between 38 mm and 140 mm.

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Sets of two rails</b>				
PMB15	For 150 mm wide enclosure	28 x 35 x 145	1	6438100131814
PMB20	For 200 mm wide enclosure	28 x 35 x 195	1	6438100131739
PMB25	For 250 mm wide enclosure	28 x 35 x 245	1	6438100135430
PMB30	For 300 mm wide enclosure	28 x 35 x 295	1	6438100131753
PMB40	For 400 mm wide enclosure	28 x 35 x 395	1	6438100131760
PMB50	For 500 mm wide enclosure	28 x 35 x 495	1	6438100131777
PMB60	For 600 mm wide enclosure	28 x 35 x 595	1	6438100131784
<b>Sets with a plate</b>				
PMB1515	For 150 mm wide enclosure	41 x 150 x 155	1	6438100131722
PMB2020	For 200 mm wide enclosure	41 x 200 x 205	1	6438100131746



Pole mounting brackets can be used with both metal and plastic enclosures.

## Ventilation devices and breathers

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
VDRI18	Ventilation device, IP43, polyamide	25 x 28	10	6418677151231
VDRI29	Ventilation device, IP24, polyamide	30.5 x 69	1	6418677151248
BPA10H	Breather, IP68, polyamide, grey, 120 l/h	ø19 x 17	1	6418677184314
BPA10HB	Breather, IP68, polyamide, black, 120 l/h	ø19 x 17	1	6418677184321
BSS10S	Breather, IP68, AISI 304, 16l/h	ø19 x 21	1	6418677184307
BSS10H	Breather, IP68, AISI 304, 120l/h	ø19 x 21	1	6418677184963
DWP1	Drain water plug, IP44, rubber	ø33	10	6418677172731
BVD22	Ventilation device, IP55, polycarbonate siloxane	50 x 50 x 20	1	6438100161590



Ventilation device, IP43, VDRI18.

## Distance bushings

Product code	Description	Dimensions	Package size (pcs)	GTIN-13
PSK36.025	External ø 10 mm, aluminium	Length 2.5 mm	100	6418677166891
PSK36.050	External ø 10 mm, aluminium	Length 5.0 mm	100	6418677166907
PSK36.085	External ø 10 mm, aluminium	Length 8.5 mm	100	6418677166914
PSK36.100	External ø 10 mm, aluminium	Length 10.0 mm	100	6418677166921
PSK36.120	External ø 10 mm, aluminium	Length 12.0 mm	100	6418677166938
PSK36.150	External ø 10 mm, aluminium	Length 15.0 mm	100	6418677166945
PSK36.200	External ø 10 mm, aluminium	Length 20.0 mm	100	6418677166952
PSK36.250	External ø 10 mm, aluminium	Length 25.0 mm	100	6418677166969
PSK36.300	External ø 10 mm, aluminium	Length 30.0 mm	50	6418677166976
PSK36.350	External ø 10 mm, aluminium	Length 35.0 mm	50	6418677166983
PSK36.400	External ø 10 mm, aluminium	Length 40.0 mm	50	6418677166990
PSK36.450	External ø 10 mm, aluminium	Length 45.0 mm	50	6418677167003
PSK36.500	External ø 10 mm, aluminium	Length 50.0 mm	50	6418677167010



PSK36.150

## Fans and filters

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
<b>Fans with filters</b>				
VFAN12	12 m³/h	48 x 80 x 80	1	6438100137236
VFAN12EMC	EMC 12 m³/h	48 x 80 x 80	1	6438100137243
VFAN35	35 m³/h	101 x 119 x 119	1	6438100137250
VFAN35EMC	EMC 35 m³/h	101 x 119 x 119	1	6438100137267
VFAN67	67 m³/h	89 x 152 x 152	1	6438100137274
VFAN67EMC	EMC 67 m³/h	89 x 152 x 152	1	6438100137281
VFAN190	190 m³/h	135 x 250 x 250	1	6438100137298
VFAN190EMC	EMC 190 m³/h	135 x 250 x 250	1	6438100137304
VFAN370	370 m³/h	112 x 250 x 250	1	6438100137311
VFAN370EMC	EMC 370 m³/h	112 x 250 x 250	1	6438100137328
<b>Filters</b>				
VFIL12	For fan VFAN12	16 x 80 x 80	1	6438100137335
VFIL12EMC	For fan VFAN12EMC	16 x 80 x 80	1	6438100137342
VFIL35	For fan VFAN35	39 x 119 x 119	1	6438100137359
VFIL35EMC	For fan VFAN35EMC	39 x 119 x 119	1	6438100137366
VFIL67	For fan VFAN67	42 x 152 x 152	1	6438100137373
VFIL67EMC	For fan VFAN67EMC	42 x 152 x 152	1	6438100137380
VFIL190	For fans VFAN190, VFAN370	44 x 250 x 250	1	6438100137397
VFIL190EMC	For fans VFAN190EMC, VFAN370EMC	44 x 250 x 250	1	6438100137403



## Thermostats

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
VTERMNC	Thermostat NC, 0-60 °C	43 x 60 x 32	1	6438100137410
VTERMNO	Thermostat NO, 0-60 °C	50 x 62 x 32	1	6438100137434
VTERMNCNO	Dual thermostat NC/NO, 0-60 °C	46 x 67 x 50	1	6438100137427
VHYGCO	Hygrostat, mech. CO, 35-95 % RH	38 x 67 x 50	1	6438100137441



## Heaters

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
VHEA10	Mini heater w/cab 10W 110-250V	13 x 25 x 50	1	6438100137458
VHEA20	Touch safe heater 20W 120-240V	70 x 98 x 38	1	6438100137465
VHEA30	Heater w/cab 30W 110-250VAC/DC	50 x 65 x 70	1	6438100137472
VHEA45	Heater w/cab 45W 110-250VAC/DC	50 x 65 x 70	1	6438100137489
VHEA75	Heater w/cab 75W 110-250VAC/DC	50 x 140 x 70	1	6438100137496
VHEA150	Heater w/cab 150W 110-250VAC/DC	50 x 220 x 70	1	6438100137502



VHEA30/45/75/150

## Cable glands, metric thread

Dimensions	Cable gland, grey polyamide with strain relief, IP68 (product code, GTIN-13)	Cable gland, grey polyamide with strain relief, IP68, long thread (product code, GTIN-13)	Counter nut grey polyamide (product code, GTIN-13)	Cover plug grey polyamide (product code, GTIN-13)	Cable gland, brass with strain relief Includes O ring, IP68 (product code, GTIN-13)	Counter nut brass (product code, GTIN-13)	Blind plug brass (product code, GTIN-13)
M12	KTM24.12 6416031851124 Cable Ø 3-6.5 mm, thread length 8 mm		PMR1218.12 6416031859120	PMR1217.12 6416031853128	KTM12.12 6416031812125 Cable Ø 3-6.5 mm, thread length 6 mm	PTK16.12 6416031813122	PTK17.12 6416031814129
M16	KTM24.16 6416031851162 Cable Ø 5-10 mm, thread length 10 mm	KTM24.16L 6418677171062 Cable Ø 5-10 mm, thread length 15 mm	PMR1218.16 6416031859168	PMR1217.16 6416031853166	KTM12.16 6416031812163 Cable Ø 4-8 mm, thread length 7 mm	PTK16.16 6416031813160	PTK17.16 6416031814167
M20	KTM24.20 6416031851209 Cable Ø 10-14 mm, thread length 10 mm	KTM24.20L 6418677171079 Cable Ø 10-14 mm, thread length 15 mm	PMR1218.20 6416031859205	PMR1217.20 6416031853203	KTM12.20 6416031812200 Cable Ø 6-12 mm, thread length 8 mm	PTK16.20 6416031813207	PTK17.20 6416031814204
M25	KTM24.25 6416031851254 Cable Ø 13-18 mm, thread length 10 mm	KTM24.25L 6418677171086 Cable Ø 13-18 mm, thread length 15 mm	PMR1218.25 6416031859250	PMR1217.25 6416031853258	KTM12.25 6416031812255 Cable Ø 10-14 mm, thread length 8 mm	PTK16.25 6416031813252	PTK17.25 6416031814259
M32	KTM24.32 6416031851322 Cable Ø 18-25 mm, thread length 18 mm		PMR1218.32 6416031859328	PMR1217.32 6416031853326	KTM12.32 6416031812323 Cable Ø 13-18 mm, thread length 9 mm	PTK16.32 6416031813320	PTK17.32 6416031814327
M40	KTM24.40 6416031851407 Cable Ø 22-32 mm, thread length 18 mm		PMR1218.40 6416031859403	PMR1217.40 6416031853401	KTM12.40 6416031812408 Cable Ø 18-25 mm, thread length 9 mm	PTK16.40 6416031813405	PTK17.40 6416031814402
M50	KTM24.50 6416031851506 Cable Ø 30-38 mm, thread length 18 mm		PMR1218.50 6416031859502	PMR1217.50 6416031853500	KTM12.50 6416031812507 Cable Ø 22-32 mm, thread length 9 mm	PTK16.50 6416031813504	PTK17.50 6416031814501
M63	KTM24.63 6418677171031 Cable Ø 34-44 mm, thread length 18 mm		PMR1218.63 6418677171048	PMR1217.63 6418677171055	KTM12.6332 6416031812637 Cable Ø 34-44 mm, thread length 14 mm	PTK16.63 6416031813634	PTK17.63 6416031814631

## Cable glands, Pg thread

Dimensions	Cable gland, grey polyamide with strain relief, IP68 (product code, GTIN-13)	Cable gland, black polyamide with strain relief, IP68 (product code, GTIN-13)	Counter nut grey polyamide (product code, GTIN-13)	Blind plug grey polyamide (product code, GTIN-13)
Pg7	KT24.07 6418677170836 Cable Ø 3-6 mm, thread length 8 mm	KT24.07/BLACK 6418677158803 Cable Ø 2-5 mm, thread length 8 mm	PMR444.07 6418677170935	PMR442.07 6418677169960
Pg9	KT24.09 6418677170843 Cable Ø 4-8 mm, thread length 8 mm	KT24.09/BLACK 6418677158810 Cable Ø 2-6 mm, thread length 8 mm	PMR444.09 6418677170942	PMR442.09 6418677169403
Pg11	KT24.11 6418677170850 Cable Ø 5-10 mm, thread length 8 mm	KT24.11/BLACK 6418677158827 Cable Ø 3-7 mm, thread length 8 mm	PMR444.11 6418677170959	PMR442.11 6418677169410
Pg13.5	KT24.13 6418677170867 Cable Ø 6-12 mm, thread length 9 mm	KT24.13/BLACK 6418677158834 Cable Ø 5-9 mm, thread length 9 mm	PMR444.13 6418677170966	PMR442.13 6418677169427
Pg16	KT24.16 6418677170874 Cable Ø 10-13 mm, thread length 10 mm	KT24.16/BLACK 6418677158841 Cable Ø 7-12 mm, thread length 10 mm	PMR444.16 6418677170973	PMR442.16 6418677169434
Pg21	KT24.21 6418677170881 Cable Ø 13-18 mm, thread length 11 mm	KT24.21/BLACK 6418677158858 Cable Ø 9-16 mm, thread length 11 mm	PMR444.21 6418677170980	PMR442.21 6418677169441
Pg29	KT24.29 6418677170898 Cable Ø 18-25 mm, thread length 11 mm	KT24.29/BLACK 6418677158865 Cable Ø 12-20 mm, thread length 11 mm	PMR444.29 6418677170997	PMR442.29 6418677169458
Pg36	KT24.36 6418677170904 Cable Ø 22-31 mm, thread length 13 mm	KT24.36/BLACK 6418677158872 Cable Ø 20-26 mm, thread length 13 mm	PMR444.36 6418677171000	PMR442.36 6418677169465
Pg42	KT24.42 6418677170911 Cable Ø 30-38 mm, thread length 13 mm	KT24.42/BLACK 6418677158889 Cable Ø 25-31 mm, thread length 13 mm	PMR444.42 6418677171017	
Pg48	KT24.48 6418677170928 Cable Ø 34-44 mm, thread length 14 mm	KT24.48/BLACK 6418677158896 Cable Ø 29-35 mm, thread length 14 mm	PMR444.48 6418677171024	



KTM12.12



PMR1218.12



PMR1217.12

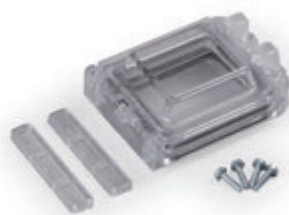


## Expansion and reduction nipples, metric thread

Dimensions	Expansion nipple grey polyamide (Product code, GTIN-13)	Expansion nipple brass (Product code, GTIN-13)	Expansion nipple grey polyamide, M > Pg (Product code, GTIN-13)	Expansion nipple brass, M > Pg (Product code, GTIN-13)	Reduction nipple grey polyamide (Product code, GTIN-13)	Reduction nipple brass (Product code, GTIN-13)	Reduction nipple brass, M > Pg (Product code, GTIN-13)
M12	PMR1220.1216 6416031856129 M12 > M16	PTK19.1216 6416031816123 M12 > M16	PMR1221.1209 6416031855122 M12 > Pg9	PTK21.1209 6416031822124 M12 > Pg9			
M16	PMR1220.1620 6416031856167 M16 > M20	PTK19.1620 6416031816161 M16 > M20	PMR1221.1609 6416031855160 M16 > Pg9	PTK21.1611 6416031822162 M16 > Pg11	PMR1219.1612 6416031854163 M16 > M12	PTK18.1612 6416031815164 M16 > M12	PTK20.1607 6416031821165 M16 > Pg7
M20	PMR1220.2025 6416031856204 M20 > M25	PTK19.2025 6416031816208 M20 > M25	PMR1221.2011 6416031855207 M20 > Pg11	PTK21.2016 6416031822209 M20 > Pg16	PMR1219.2012 6416031854200 M20 > M12	PTK18.2012 6416031815201 M20 > M12	PTK20.2009 6416031821202 M20 > Pg9
			PMR1221.2013 6416031855214 M20 > Pg13.5		PMR1219.2016 6416031854217 M20 > M16	PTK18.2016 6416031815218 M20 > M16	
M32	PMR1220.2532 6416031856259 M25 > M32	PTK19.2532 6416031816253 M25 > M32	PMR1221.2516 6416031855252 M25 > Pg16	PTK21.2521 6416031822254 M25 > Pg21	PMR1219.2512 6416031854255 M25 > M12	PTK18.2516 6416031815256 M25 > M16	PTK20.2511 6416031821264 M25 > Pg11
			PMR1221.2521 6416031855269 M25 > Pg21		PMR1219.2516 6416031854262 M25 > M16	PTK18.2520 6416031815263 M25 > M20	PTK20.2513 6416031821271 M25 > Pg13.5
					PMR1219.2520 6416031854279 M25 > M20		
M40	PMR1220.3240 6416031856327 M32 > M40	PTK19.3240 6416031816321 M32 > M40	PMR1221.3229 6416031855320 M32 > Pg29	PTK21.3229 6416031822322 M32 > Pg29	PMR1219.3216 6416031854330 M32 > M16	PTK18.3220 6416031815324 M32 > M20	PTK20.3216 6416031821332 M32 > Pg16
					PMR1219.3220 6416031854347 M32 > M20	PTK18.3225 6416031815331 M32 > M25	PTK20.3221 6416031821349 M32 > Pg21
					PMR1219.3225 6416031854354 M32 > M25		
M40		PTK19.4050 6416031816406 M40 > M50	PMR1221.4029 6416031855405 M40 > Pg29	PTK21.4036 6416031822407 M40 > Pg36	PMR1219.4020 6416031854415 M40 > M20	PTK18.4025 6416031815409 M40 > M25	PTK20.4021 6416031821417 M40 > Pg21
					PMR1219.4025 6416031854422 M40 > M25	PTK18.4032 6416031815416 M40 > M32	PTK20.4029 6416031821424 M40 > Pg29
					PMR1219.4032 6416031854439 M40 > M32		
M50		PTK19.5063 6416031816505 M50 > M63	PMR1221.5036 6416031855504 M50 > Pg36	PTK21.5042 6416031822506 M50 > Pg42	PMR1219.5025 6416031854514 M50 > M25	PTK18.5032 6416031815508 M50 > M32	PTK20.5029 6416031821516 M50 > Pg29
			PMR1221.5042 6416031855511 M50 > Pg42	PTK21.5048 6416031822513 M50 > Pg48	PMR1219.5032 6416031854521 M50 > M32	PTK18.5040 6416031815515 M50 > M40	PTK20.5036 6416031821523 M50 > Pg36
					PMR1219.5040 6416031854538 M50 > M40		
M63			PMR1221.6348 6416031855634 M63 > Pg48		PMR1219.6332 6416031854644 M63 > M32	PTK18.6340 6416031815638 M63 > M40	PTK20.6336 6416031821646 M63 > Pg36
					PMR1219.6340 6416031854651 M63 > M40	PTK18.6350 6416031815645 M63 > M50	PTK20.6342 6416031821653 M63 > Pg42
					PMR1219.6350 6416031854668 M63 > M50		

## Inspection windows, polycarbonate

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
VMA2	For 2 modules	67 x 59	1	6418677151170
VMA4	For 4 modules	67 x 94	1	6418677151187
VMA6	For 6 modules	67 x 130	1	6418677151194
VMA8	For 8 modules	67 x 163	1	6418677151200
VMA10	For 10 modules	67 x 200	1	6418677151217
VMA12	For 12 modules	67 x 233	1	6418677151224
VMA1519	Opening: 113 x 153 mm, includes screws	150 x 190 x 10	1	6418677174193



VMA2



VMA1519

## Expansion and reduction nipples and conduit fittings, Pg thread

Dimensions	Expansion nipple grey polyamide (Product code, GTIN-13)	Reduction nipple grey polyamide (Product code, GTIN-13)
Pg9	PMR440.094 6418677169564 Pg9 > Pg11	
Pg11	PMR440.114 6418677169571 Pg11 > Pg16	PMR439.111 6418677169472 Pg11 > Pg9
Pg13.5	PMR440.134 6418677169588 Pg13.5 > Pg16	PMR439.131 6418677169489 Pg13.5 > Pg11
Pg16	PMR440.164 6418677169595 Pg16 > Pg21	PMR439.161 6418677169496 Pg16 > Pg9  PMR439.162 6418677169502 Pg16 > Pg11

Dimensions	Expansion nipple grey polyamide (Product code, GTIN-13)	Reduction nipple grey polyamide (Product code, GTIN-13)
Pg21	PMR440.214 6418677169601 Pg21 > Pg29	PMR439.211 6418677169519 Pg21 > Pg11  PMR439.212 6418677169526 Pg21 > Pg16
Pg29	PMR440.294 6418677169618 Pg29 > Pg36	PMR439.291 6418677169533 Pg29 > Pg16  PMR439.292 6418677169540 Pg29 > Pg21
Pg36		PMR439.361 6418677169557 Pg36 > Pg29

## Rubber grommets, metric thread

Dimensions	Membrane gasket (product code, GTIN-13)	Membrane gasket, V-0 (product code, GTIN-13)
M12	RGM12 6438100143442 Cable Ø 4-7 mm	RGM12.V0 6438100143305 Cable Ø 3-5 mm
M16	RGM16 6438100143459 Cable Ø 5-9 mm	RGM16.V0 6438100143312 Cable Ø 5-7 mm
M20	RGM20 6438100143466 Cable Ø 8-13 mm	RGM20.V0 6438100143329 Cable Ø 7-10 mm
M25	RGM25 6438100143473 Cable Ø 11-17 mm	RGM25.V0 6438100143336 Cable Ø 10-14 mm
M32	RGM32 6438100143480 Cable Ø 15-20 mm	RGM32.V0 6438100143343 Cable Ø 14-20 mm
M40	RGM40 6438100143497 Cable Ø 19-28 mm	RGM40.V0 6438100143350 Cable Ø 20-26 mm
M50	RGM50 6438100143503 Cable Ø 27-35 mm	RGM50.V0 6438100143367 Cable Ø 26-35 mm

## Rubber grommets, Pg thread

Dimensions	Membrane gasket (product code, GTIN-13)	Membrane gasket, V-0 (product code, GTIN-13)
PG11	RGP11 6438100143398 Cable Ø 7-10 mm	RGP11.V0 6438100143251 Cable Ø 7-10 mm
PG16	RGP16 6438100143404 Cable Ø 10-14 mm	RGP16.V0 6438100143268 Cable Ø 10-14 mm
PG21	RGP21 6438100143411 Cable Ø 14-20 mm	RGP21.V0 6438100143275 Cable Ø 14-20 mm
PG29	RGP29 6438100143428 Cable Ø 20-26 mm	RGP29.V0 6438100143282 Cable Ø 20-26 mm
PG36	RGP36 6438100143435 Cable Ø 26-35 mm	RGP36.V0 6438100143299 Cable Ø 26-35 mm
PG7	RGP7 6438100143374 Cable Ø 3-5 mm	RGP7.V0 6438100143237 Cable Ø 3-5 mm
PG9	RGP9 6438100143381 Cable Ø 5-7 mm	RGP9.V0 6438100143244 Cable Ø 5-7 mm

## Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)	GTIN-13
PMR54.20	Socket joint, for cable Ø 9-13 mm, grey plastic	Ø 26 x 17	50	6418677163579
PMR70.1612	Wiring plug, cable lead-through 16 mm, 12 ea./set	Ø 20/16	5	6418677163784
PMR70.2012	Wiring plug, cable lead-through 20 mm, 12 ea./set	Ø 22/20	5	6418677163791
PMR70.25	Wiring plug, cable lead-through 25 mm	Ø 30/25	100	6418677163708
PMR70.32	Wiring plug, cable lead-through 32 mm	Ø 37/32	100	6418677163715
PMR30	Cover for kWh opening for steel enclosures	39 x 110 x 4	10	6418677166723
PMR1387	Plug for cover panel, Ø 6 mm hole	20 x 31 x 6	100	6418677166730
PME1	Cover plate, width 45 mm, length 2 m (PVC)	45 x 2000 x 7	1	6418677166747
KY2.15	Plastic latch, 15 mm closing space	Ø 23 x 26	100	6418677166754
KY3	Delta wrench, Δ	20 x 50 x 22	10	6418677166761
KY3.10	Delta wrench, lockable. Δ 11 mm	20 x 50 x 22	10	6418677166778
ST80/U	Delta key, Δ 11 mm	34 x 52 x 16	10	6418677170430
KY4	Metal latch, 18 mm closing space	Ø 28 x 31	10	6418677166785
KY6	Lock for modular covers	21 x 15 x 15	1	6418677173431
KY1.20	Fixing screw for kWh meter	M5 x 22	100	6418677166792
PTK14	Sealing screw, M4 x 10/16mm	L = 16	100	6418677166808
PTK13	Sealing screw, M4 x 16/22mm	L = 22	100	6418677166815
PTK11	Sealing screw, M4 x 20/25mm	L = 25	100	6418677166822
PLE152	Sealing screw, F4,2 x 16/21 mm	L = 21	100	6418677166839



Socket joint, PMR54.20.



Wiring plug, 12 ea./set, PMR70.1612.





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EFEP608020A.....	38	EOU385619A.....	41	ESSP6010030.U.....	38	FAUP404012.U.....	43	FFUP603012A.....	43
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EFEP808030A.....	38	EOZ1.....	41	ESSP8012030.U.....	38	FAUP503012.U.....	43	FFUP802008.U.....	43
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EMP56.....	39	ESSP302015.....	38	F2160.....	30, 49	FFUF503012A.....	44	FSPB221009.....	44
EMP64.....	39	ESSP302015.U.....	38	F2161.....	30, 49	FFUF602012A.....	44	FSPB281009.....	44
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EOO1.....	41	ESSP606020.U.....	38	FAUP302008.U.....	43	FFUP403012.U.....	43	FSUP404012.U.....	43
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EOO282819A.....	41	ESSP606030.U.....	38	FAUP302012.U.....	43	FFUP404008.U.....	43	FSUP502008.U.....	43
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FSUP602008.U .....	43	KT24.09.....	51	NGRMP4050 .....	34	OABP303018T.....	25	OPCM304018T.....	25
FSUP602012 .....	43	KT24.09/BLACK.....	51	NGRMP4060 .....	34	OABP304010B.....	27	OPCM304018T.U.....	25
FSUP602012.U .....	43	KT24.11.....	51	NGRMP5050 .....	34	OABP304013G.....	25	OPCM306010B.....	27
FSUP603008 .....	43	KT24.11/BLACK.....	51	NGRMP6080 .....	34	OABP304013T.....	25	OPCM306013G.....	25
FSUP603008.U .....	43	KT24.13.....	51	NGRP253014 .....	33	OABP304018G.....	25	OPCM306013G.U.....	25
FSUP603012 .....	43	KT24.13/BLACK.....	51	NGRP253014.U.....	33	OABP304018T.....	25	OPCM306013T.....	25
FSUP603012.U .....	43	KT24.16.....	51	NGRP304020 .....	33	OABP306010B.....	27	OPCM306013T.U.....	25
FSUP604008 .....	43	KT24.16/BLACK.....	51	NGRP304020P3SH.....	33	OABP306013G.....	25	OPCM306018G.....	25
FSUP604008.U .....	43	KT24.21.....	51	NGRP304020.U.....	33	OABP306013T.....	25	OPCM306018G.U.....	25
FSUP604012 .....	43	KT24.21/BLACK.....	51	NGRP404020 .....	33	OABP306018G.....	25	OPCM306018T.....	25
FSUP604012.U .....	43	KT24.29.....	51	NGRP404020P3SH.....	33	OABP306018T.....	25	OPCM306018T.U.....	25
FSUP802008 .....	43	KT24.29/BLACK.....	51	NGRP404020.U.....	33	OABP404010B.....	27	OPCP202006E.....	27
FSUP802008.U .....	43	KT24.36.....	51	NGRP405020 .....	33	OABP404013G.....	25	OPCP202010B.....	27
FSUP802012 .....	43	KT24.36/BLACK.....	51	NGRP405020P3SH.....	33	OABP404013T.....	25	OPCP202013G.....	25
FSUP802012.U .....	43	KT24.42.....	51	NGRP405020.U.....	33	OABP404018G.....	25	OPCP202013G.U.....	25
FSUP804008 .....	43	KT24.42/BLACK.....	51	NGRP406023 .....	33	OABP404018T.....	25	OPCP202013T.....	25
FSUP804008.U .....	43	KT24.48.....	51	NGRP406023P3SH.....	33	OABP406010B.....	27	OPCP202013T.U.....	25
FSUP804012 .....	43	KT24.48/BLACK.....	51	NGRP406023.U.....	33	OABP406013G.....	25	OPCP202018G.....	25
FSUP804012.U .....	43	KTM1.1.....	49	NGRP506023 .....	33	OABP406013T.....	25	OPCP202018G.U.....	25
		KTM2.1.....	49	NGRP506023P3SH.....	33	OABP406018G.....	25	OPCP202018T.....	25
<b>H</b>		KTM3.1.....	49	NGRP506023.U.....	33	OABP406018T.....	25	OPCP202018T.U.....	25
		KTM12.12.....	51	NGRP608030 .....	33	OB11.....	29	OPCP203006E.....	27
HALP050503 .....	47	KTM12.16.....	51	NGRP608030P3SH.....	33	OBIA1.04.....	29	OPCP203010B.....	27
HALP060604 .....	47	KTM12.20.....	51	NGRP608030.U.....	33	OBS15.....	29	OPCP203013G.....	25
HALP061004 .....	47	KTM12.25.....	51	NGRW253014.....	33	OBS15.04.....	29	OPCP203013G.U.....	25
HALP061504 .....	47	KTM12.32.....	51	NGRW253014.U.....	33	OBS20.....	29	OPCP203013T.....	25
HALP080806 .....	47	KTM12.40.....	51	NGRW304020.....	33	OBS20.04.....	29	OPCP203013T.U.....	25
HALP081313 .....	47	KTM12.50.....	51	NGRW304020.U.....	33	OBS30.....	29	OPCP203018G.....	25
HALP081806 .....	47	KTM12.6332.....	51	NGRW404020.....	33	OBS30.04.....	29	OPCP203018G.U.....	25
HALP082506 .....	47	KTM24.12.....	51	NGRW404020.U.....	33	OC1.....	29	OPCP203018T.....	25
HALP121208 .....	47	KTM24.16.....	51	NGRW405020.....	33	OCS22.46.....	29	OPCP203018T.U.....	25
HALP121209 .....	47	KTM24.16L.....	51	NGRW405020.U.....	33	OEL1.....	29	OPCP204006E.....	27
HALP122009 .....	47	KTM24.20.....	51	NGRW406023.....	33	OELA1.04.....	29	OPCP204010B.....	27
HALP122208 .....	47	KTM24.20L.....	51	NGRW406023.U.....	33	OES1.....	29	OPCP204013G.....	25
HALP123608 .....	47	KTM24.25.....	51	NGRW506023.....	33	OESA1.04.....	29	OPCP204013G.U.....	25
HALP161609 .....	47	KTM24.32.....	51	NGRW506023.U.....	33	OESA1.06.....	29	OPCP204013T.....	25
HALP162609 .....	47	KTM24.40.....	51	NGRW608030.....	33	OFL1.....	29	OPCP204013T.U.....	25
HALP163609 .....	47	KTM24.50.....	51	NGRW608030.U.....	33	OHI1.....	29	OPCP204018G.....	25
HALP165609 .....	47	KTM24.63.....	51	NID3040.....	34	OHCIP1.....	29	OPCP204018G.U.....	25
HALP202311 .....	47	KWHP3040.....	28	NID4040.....	34	OKL1.....	29	OPCP204018T.....	25
HALP202318 .....	47	KWHP3060.....	28	NID4050.....	34	OLS32.....	29	OPCP204018T.U.....	25
HALP232811 .....	47	KWHP4040.....	28	NID4060.....	34	OLS42.....	29	OPCP303006E.....	27
HALP233311 .....	47	KWHP4060.....	28	NID5060.....	34	OLS42N.....	29	OPCP303010B.....	27
HALP233318 .....	47	KY1.20.....	53	NID6080.....	34	OLSA42.4.....	29	OPCP303013G.....	25
HALP234011 .....	47	KY2.15.....	53	NKL1.....	34	OLSA42.6.....	29	OPCP303013G.U.....	25
HALP236011 .....	47	KY3.....	53	NMC3040.24.....	34	OLSH1.....	29	OPCP303013T.....	25
HALP314011 .....	47	KY3.10.....	53	NMC4040.36.....	34	OLSH1.2.....	49	OPCP303013T.U.....	25
HALP314018 .....	47	KY4.....	53	NMC4050.54.....	34	OLT42.....	29	OPCP303018G.....	25
HALP316011 .....	47	KY6.....	53	NMC4060.54.....	34	OLT42KEY.....	29, 39, 41	OPCP303018G.U.....	25
HALP316018 .....	47			NMC5060.69.....	34	OLTA42.4.....	29	OPCP303018T.....	25
HMFL4 .....	32, 47			NMC6080.116.....	34	OLTA42.6.....	29	OPCP303018T.U.....	25
HMH12 .....	32, 47	<b>M</b>		NMP2530.....	34	OLTA42.041.....	29	OPCP304006E.....	27
HMP0808B .....	47	MGRP080806.....	32	NMP3040.....	34	OLW55.....	29	OPCP304010B.....	27
HMP0813B .....	47	MGRP081106.....	32	NMP4040.....	34	OLWA55.4.....	29	OPCP304013G.....	25
HMP0818B .....	47	MGRP081606.....	32	NMP4050.....	34	OLWA55.6.....	29	OPCP304013G.U.....	25
HMP1212B .....	47	MGRP081906.....	32	NMP4060.....	34	OLWH1.....	29	OPCP304013T.....	25
HMP1222B .....	47	MGRP121209.....	32	NMP5060.....	34	OMP2020.....	28	OPCP304013T.U.....	25
HMP1236B .....	47	MGRP122209.....	32	NMP6080.....	34	OMP2030.....	28	OPCP304018G.....	25
HMP1616B .....	47	MGRP161609.....	32	NP3041.....	34	OMP2040.....	28	OPCP304018G.U.....	25
HMP1626B .....	47	MGRP162609.....	32			OMP3030.....	28	OPCP304018T.....	25
HMP1636B .....	47	MGRP163609.....	32	<b>O</b>		OMP3040.....	28	OPCP304018T.U.....	25
HMP1656B .....	47	MGRP165609.....	32	OABG202003L.....	27	OMP3060.....	28	OPCP306006E.....	27
HMP2023B .....	47	MGRP252612.....	32	OABG204003L.....	27	OMP4040.....	28	OPCP306010B.....	27
HMP2328B .....	47	MGRP254012.....	32	OABG303003L.....	27	OMP4060.....	28	OPCP306013G.....	25
HMP2333B .....	47	MGRP404112.....	32	OABG304003L.....	27	OMS1.....	29	OPCP306013G.U.....	25
HMP2340B .....	47	MMP0808B.....	32	OABG306003L.....	27	OPCG36KWH.....	27	OPCP306013T.....	25
HMP2360B .....	47	MMP0811B.....	32	OABG404003L.....	27	OPCG202003L.....	27	OPCP306013T.U.....	25
HMP3140B .....	47	MMP0816B.....	32	OABG406003L.....	27	OPCG203003L.....	27	OPCP306018G.....	25
HMP3160B .....	47	MMP0819B.....	32	OABG406003L.....	27	OPCG204003L.....	27	OPCP306018G.U.....	25
		MMP1212B.....	32	OABG202010B.....	27	OPCG303003L.....	27	OPCP306018T.....	25
		MMP1222B.....	32	OABP202013G.....	25	OPCG304003L.....	27	OPCP306018T.U.....	25
		MMP1616B.....	32	OABP202013T.....	25	OPCG306003L.....	27	OPCP404006E.....	27
		MMP1626B.....	32	OABP202018G.....	25	OPCG404003L.....	27	OPCP404010B.....	27
		MMP1636B.....	32	OABP202018T.....	25	OPCG406003L.....	27	OPCP404013G.....	25
		MMP1656B.....	32	OABP203010B.....	27	OPCM303010B.....	27	OPCP404013G.U.....	25
		MMP2526B.....	32	OABP203013G.....	25	OPCM303013G.....	25	OPCP404013T.....	25
		MMP2540B.....	32	OABP203013T.....	25	OPCM303013T.U.....	25	OPCP404018G.....	25
		MMP4041B.....	32	OABP203018G.....	25	OPCM303013T.U.....	25	OPCP404018G.U.....	25
				OABP203018T.....	25	OPCM303018G.....	25	OPCP404018T.U.....	25
				OABP204010B.....	27	OPCM303018G.U.....	25	OPCP406006E.....	27
		<b>N</b>		OABP204013G.....	25	OPCM303018T.....	25	OPCP406010B.....	27
		NDIN1 .....	34	OABP204013T.....	25	OPCM303018T.U.....	25	OPCP406013G.....	25
				OABP204018G.....	25	OPCM304010B.....	27	OPCP406013G.U.....	25
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OPCP406018G.....	25	PMR1219.3225.....	52	PTK20.6336.....	52	SABP131813LT.....	19	SPCK131815G.U.....	21
OPCP406018G.U.....	25	PMR1219.4020.....	52	PTK20.6342.....	52	SABP131813T.....	19	SPCK131815T.....	21
OPCP406018T.....	25	PMR1219.4025.....	52			SABP131815G.....	19	SPCK131815T.U.....	21
OPCP406018T.U.....	25	PMR1219.5025.....	52			SABP131815T.....	19	SPCK181808G.....	21
OPCT202003L.....	27	PMR1219.5032.....	52			SABP132513G.....	19	SPCK181808G.U.....	21
OPCT203003L.....	27	PMR1219.5040.....	52			SABP132513T.....	19	SPCK181808T.....	21
OPCT204003L.....	27	PMR1219.6332.....	52	RGM12.....	53	SABP181808G.....	19	SPCK181808T.U.....	21
OPCT303003L.....	27	PMR1219.6340.....	52	RGM12.V0.....	53	SABP181808T.....	19	SPCK181810G.....	21
OPCT304003L.....	27	PMR1219.6350.....	52	RGM16.....	53	SABP181810G.....	19	SPCK181810G.U.....	21
OPCT306003L.....	27	PMR1220.1216.....	52	RGM16.V0.....	53	SABP181810T.....	19	SPCK181810T.....	21
OPCT404003L.....	27	PMR1220.1620.....	52	RGM20.....	53	SABP181813G.....	19	SPCK181810T.U.....	21
OPCT406003L.....	27	PMR1220.2025.....	52	RGM20.V0.....	53	SABP181813T.....	19	SPCK181813G.....	21
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OTSA1.04.....	29	PMR1220.3240.....	52	RGM25.V0.....	53	SABP181815T.....	19	SPCK181813T.....	21
		PMR1221.1209.....	52	RGM32.....	53	SABP182508G.....	19	SPCK181813T.U.....	21
		PMR1221.1609.....	52	RGM32.V0.....	53	SABP182508T.....	19	SPCK181815G.....	21
		PMR1221.2011.....	52	RGM40.....	53	SABP182510G.....	19	SPCK181815G.U.....	21
		PMR1221.2013.....	52	RGM40.V0.....	53	SABP182510T.....	19	SPCK181815T.....	21
		PMR1221.2516.....	52	RGM50.....	53	SABP182515G.....	19	SPCK181815T.U.....	21
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PMB20.....	50	PMR1221.5036.....	52	RGP9.....	53	SBS40.....	21	SPCK182508T.U.....	21
PMB25.....	50	PMR1221.5042.....	52	RGP9.V0.....	53	SCP08.....	21	SPCK182510G.....	21
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PMB1515.....	50	PRE2.14.....	28	RGP21.....	53	SLS60.....	21	SPCK182515G.U.....	21
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PMR30.....	53	PRE3.32.....	28	RGP29.V0.....	53	SLSA60.04.....	21	SPCM081306G.....	20
PMR54.20.....	53	PRE4.14.....	28	RGP36.....	53	SLW1.....	21	SPCM081306G.U.....	20
PMR70.25.....	53	PRE4.32.....	28	RGP36.V0.....	53	SMP0813.....	20	SPCM081306T.....	20
PMR70.32.....	53	PRE75.14.....	28			SMP1010.....	20	SPCM081306T.U.....	20
PMR70.1612.....	53	PRE75.32.....	28			SMP1313.....	20	SPCM081308G.....	20
PMR70.2012.....	53	PSK36.025.....	50			SMP1318.....	20	SPCM081308G.U.....	20
PMR331.....	49	PSK36.050.....	50			SMP1325.....	20	SPCM081308T.....	20
PMR439.211.....	53	PSK36.085.....	50	SABP081304LG.....	19	SMP1818.....	20	SPCM081308T.U.....	20
PMR439.212.....	53	PSK36.100.....	50	SABP081304LT.....	19	SMP1825.....	20	SPCM081310G.....	20
PMR439.291.....	53	PSK36.120.....	50	SABP081305LG.....	19	SMS1.....	21	SPCM081310G.U.....	20
PMR439.292.....	53	PSK36.150.....	50	SABP081305LT.....	19	SPCK081306G.....	21	SPCM081310T.....	20
PMR439.361.....	53	PSK36.200.....	50	SABP081306G.....	19	SPCK081306G.U.....	21	SPCM081310T.U.....	20
PMR440.094.....	53	PSK36.250.....	50	SABP081306T.....	19	SPCK081306T.....	21	SPCM081310T.U.....	20
PMR440.114.....	53	PSK36.300.....	50	SABP081308G.....	19	SPCK081306T.U.....	21	SPCM081313G.....	20
PMR440.134.....	53	PSK36.350.....	50	SABP081308LG.....	19	SPCK081306T.U.....	21	SPCM081313G.U.....	20
PMR440.164.....	53	PSK36.400.....	50	SABP081308LT.....	19	SPCK081308G.....	21	SPCM081313T.....	20
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PMR440.294.....	53	PSK36.500.....	50	SABP081310G.....	19	SPCK081308T.....	21	SPCM101006G.....	20
PMR442.07.....	51	PTK11.....	53	SABP081310LT.....	19	SPCK081308T.U.....	21	SPCM101006G.U.....	20
PMR442.09.....	51	PTK13.....	53	SABP081310LG.....	19	SPCK081310G.....	21	SPCM101006T.....	20
PMR442.11.....	51	PTK14.....	53	SABP081310LT.....	19	SPCK081310G.U.....	21	SPCM101006T.U.....	20
PMR442.13.....	51	PTK17.....	51	SABP081310T.....	19	SPCK081310T.....	21	SPCM131306G.....	20
PMR442.16.....	51	PTK17.12.....	51	SABP081313G.....	19	SPCK081310T.U.....	21	SPCM131306G.U.....	20
PMR442.21.....	51	PTK17.16.....	51	SABP081313T.....	19	SPCK081313G.....	21	SPCM131306T.....	20
PMR442.29.....	51	PTK17.20.....	51	SABP101004LG.....	19	SPCK081313G.U.....	21	SPCM131306T.U.....	20
PMR442.36.....	51	PTK17.25.....	51	SABP101004LT.....	19	SPCK081313T.....	21	SPCM131308G.....	20
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PMR444.09.....	51	PTK17.40.....	51	SABP101006T.....	19	SPCK131306G.....	21	SPCM131308T.....	20
PMR444.11.....	51	PTK17.50.....	51	SABP131304LG.....	19	SPCK131306G.U.....	21	SPCM131308T.U.....	20
PMR444.13.....	51	PTK17.63.....	51	SABP131304LT.....	19	SPCK131306T.....	21	SPCM131310G.....	20
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PMR444.42.....	51	PTK18.2520.....	52	SABP131308G.....	19	SPCK131308T.U.....	21	SPCM131313G.U.....	20
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PMR1217.12.....	51	PTK18.3225.....	52	SABP131308LT.....	19	SPCK131310G.....	21	SPCM131313T.U.....	20
PMR1217.16.....	51	PTK18.4025.....	52	SABP131308T.....	19	SPCK131310G.U.....	21	SPCM131313T.U.....	20
PMR1217.20.....	51	PTK18.4032.....	52	SABP131310G.....	19	SPCK131310T.....	21	SPCM131806G.....	20
PMR1217.25.....	51	PTK18.5032.....	52	SABP131310LG.....	19	SPCK131310T.U.....	21	SPCM131806G.U.....	20
PMR1217.32.....	51	PTK18.5040.....	52	SABP131310LT.....	19	SPCK131313G.....	21	SPCM131806T.....	20
PMR1217.40.....	51	PTK18.6340.....	52	SABP131310T.....	19	SPCK131313G.U.....	21	SPCM131806T.U.....	20
PMR1217.50.....	51	PTK18.6350.....	52	SABP131313G.....	19	SPCK131313T.....	21	SPCM131808G.....	20
PMR1217.63.....	51	PTK19.1216.....	52	SABP131313LT.....	19	SPCK131313T.U.....	21	SPCM131808G.U.....	20
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PMR1218.16.....	51	PTK19.2025.....	52	SABP131804LG.....	19	SPCK131806G.U.....	21	SPCM131808T.U.....	20
PMR1218.20.....	51	PTK19.2532.....	52	SABP131804LT.....	19	SPCK131806T.....	21	SPCM131808T.U.....	20
PMR1218.25.....	51	PTK19.3240.....	52	SABP131805LG.....	19	SPCK131806T.U.....	21	SPCM131810G.....	20
PMR1218.32.....	51	PTK19.4050.....	52	SABP131805LT.....	19	SPCK131808G.....	21	SPCM131810G.U.....	20
PMR1218.40.....	51	PTK19.5063.....	52	SABP131806G.....	19	SPCK131808G.U.....	21	SPCM131810T.....	20
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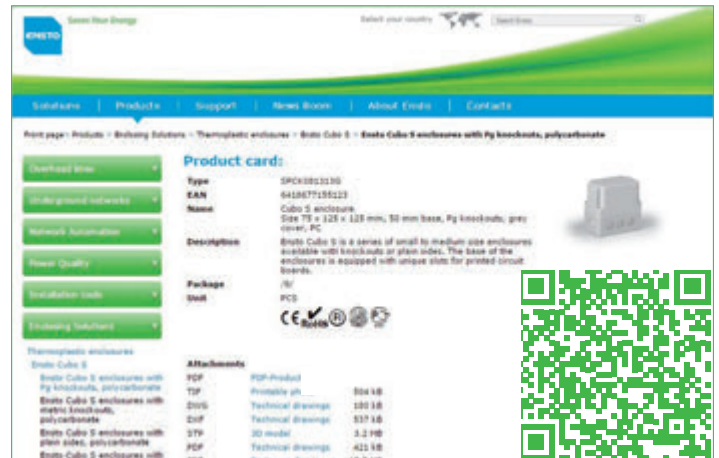
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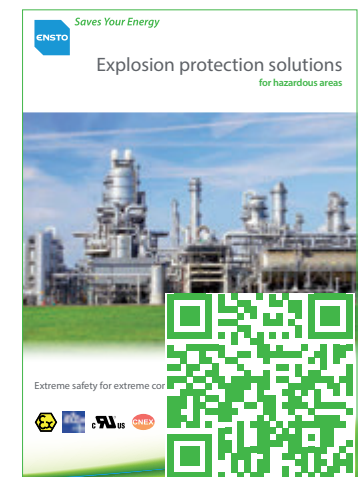
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## Facts

- Established in 1958
- 1670 people in Europe, Asia and Americas
- Local presence in 20 countries
- Turnover EUR 280 million
- Headquarters located in Finland.

## Cleantech

Cleantech refers to all those products, services, processes, and technologies which prevent or reduce the impact of harmful actions on the environment. Cleantech stands for higher quality, efficiency, and profitability. Ensto and other Finnish companies are already world leaders in several key cleantech sectors.

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Ensto Finland Oy  
Ensio Miettisen Katu 2, P.O. Box 77  
FIN-06101 Porvoo, Finland  
Tel. +358 204 76 21  
industrial.solutions@ensto.com  
www.ensto.com

Local contact information can be found on our web pages