

NEW

ARCA Cabinet



Protection in demanding environments

IP 66

+80 °C

-40 °C





FIBOX ARCA cabinets

Fibox is a brand name synonymous with the manufacture and global supply of the highest quality enclosure solutions for use in harsh and demanding environments since 1966.

A testament to the fact that our enclosures are built to withstand the rigours of the global climate is examples of our EK range, the first produced by Fibox back in the 60's, can still be seen today doing exactly what they were designed to do..... protect!

The bedrock to Fibox' continuing success is a two-fold philosophy. Firstly, a sound knowledge of the demands of the markets in which we operate, and secondly, injection moulding and engineering innovation unrivalled in the enclosure industry.

The word "partner" is taken very seriously in Fibox. Our aim is to become a partner to you, our customer. But to do that we must offer you more than just an enclosure. That is why our sales teams will work alongside you to produce an enclosure solution which is tailored exactly to your requirement. Whether it is a simple gland entry or extremely complex customising involving special components or assembly, Fibox has the capability to deliver a solution which is sympathetic to the many and varied links in your value chain. We fully understand it is not all about the product and other factors are equally as important.

This catalogue is dedicated to Fibox ARCA IEC, a brand new range of robust Polycarbonate wall mounting cabinets which typifies the innovation and market driven approach to new product development highlighted earlier. Over 2 years in the making, ARCA is a first, and the market now has what it has demanded.....a viable and cost effective alternative to the many sheet steel cabinets which are being installed in totally unsuitable environments. In a nutshell, all the features of steel but the benefits of high grade thermoplastic.

Just take a look below at a few of the many features you will see in more detail further into the catalogue;

- Non corrosive
- IP66 ingress protection
- IK10 Impact resistance
- A multitude of locking options
- Aesthetic design
- UV stabilised
- Can be safely machined without conductive swarf residue, in situ or in the workshop
- Smooth surface for graphics and components

The Fibox ARCA IEC range in this catalogue carries on the tradition set by the ARCA JIC product family introduced in North America in 2007. This has in a short period of time become the product being seen as the benchmark in this very discerning market. We are confident this innovative new range will have a similar impact.

We trust you will find the basis of your wall mounting cabinet requirement in this catalogue. We then look forward to your invitation to assist you in making it your exact requirement.

Fibox operates globally, so wherever in the world you are, a Fibox representative is close by!

The Fibox team

FIBOX web services

Always up-to-date

Please visit www.fibox.com regularly to find out the latest developments from the Fibox team. Fibox is continuously launching new products and improving services in the pursuit of helping its customers to succeed. Fibox prides itself in supplying high quality products with excellent service. Besides orders shipped correctly and on time, excellent service also means providing an extensive package of design aids and technical information about Fibox products and services.

Engineering assistance

Selecting the right enclosure for your application is made easier with clear, easily accessible technical and engineering data.

At www.fibox.com you can obtain detailed technical information about enclosures including photos, raw material specifications, dimensional drawings and CAD files. Additionally, Fibox also offers copies of regulatory agency approvals and certificates in pdf format.

CAD drawings

Fibox supports engineers, designers and buyers with full CAD drawings either in 2D or 3D formats. Engineering time and costs can significantly be reduced by using easily accessible Fibox 3D models, which are widely used globally. All CAD files can be downloaded at www.fibox.com.

Download catalogues and leaflets

At www.fibox.com you find a variety of brochures and catalogues in pdf format. Please visit our web site at www.fibox.com to download the latest catalogues and leaflets.

Around the world

As a global company Fibox has currently full web services in Chinese, Danish, Dutch, English, Finnish, French, German, Japanese, Korean, Polish, Russian and Swedish.

Let us know how we can improve

Please give us feedback. Contact us via www.fibox.com or email at info@fibox.fi. We are committed to improve our service to you. Please help us by sharing your opinions to make Fibox World even better.

www.fibox.com

FIBOX customizing services

FIBOX machining services

To increase the range and flexibility of our enclosure solutions, Fibox has developed a comprehensive range of services, permitting cost effective customization for specific applications. The two most important of these are machining services and customized tooling.

Our sophisticated CNC machinery can supply enclosures with holes, cutouts and openings to your specification. This solution is best suited for small to medium volumes of enclosures. Fibox knowledge of enclosure materials ensures that the machining method is compatible with the chosen enclosure material.

Prior to machining a production run, product specification and drawings need to be prepared. Either the customer or Fibox can create these drawings. Enclosure specifications and technical data are available at www.fibox.com. CAD support 2D-drawings are available in IGES, DWG and DXF formats and 3D-models in IGES and Parasolid formats adaptable to your design system requirements.

Assembly services

Many enclosure solutions utilize Fibox accessories to improve the functionality of the enclosure system. Fibox can provide assembly services and install accessories specified by the end user, allowing delivery of "ready to use" mechanical packaging assemblies, saving labour costs and speeding up the manufacturing process. The Fibox accessory program includes a large number of items ranging from hinges and latches, cable glands and wiring accessories, to inspection windows and ventilators.

Customized tooling

For large volume OEM requirements, it is often possible to customize the moulding of a standard product to meet the OEM's specific needs. Provided the mould is a sophisticated multiple slide mould, any enclosure side may be customized without requiring an entirely new mould. It is important that the OEM consult with Fibox early in their design process to determine what, if any, mould change restrictions exist.

Altering an existing Fibox mould can be a very cost effective alternative to creating a custom mould. In essence, you lease a high volume, standard product mould with minimal initial tooling cost. This can shorten product development times and permit customizing even those products with projected short life cycles. Your new product reaches the market sooner.

Coloured plastic enclosures

Fibox offers custom moulding of standard enclosures in customer specified colours. Standard colour specifications are based upon RAL system, however custom colour matching is possible. The type of plastic has significant impact on colour match, colour consistency and cost. Please consult your Fibox representative for guidance. Custom colour moulding becomes economical in volumes over 1000 pieces, but lower volumes are also possible. Cost adders are based upon increased raw material costs, plus the cost to prepare moulds prior to production and then clean the moulds and injection machines after production. These mould preparation costs are highly volume dependent.

Painted enclosures

Painting enclosures is recommended for plastic enclosures when volumes do not justify custom moulding. Critical colour matching, if required, is also easier to accomplish with paint. Paint type is dependent upon the choice of enclosure material. Please consult your Fibox representative for guidance.

EMC - plastic enclosures

Plastic enclosures can be prepared to provide EMC shielding. Various methods are available, but painting the internal surface with Cu paint is the preferred method. This coating, combined with a conductive gasket material such as CHO-SEAL 1350, can provide significant shielding levels. Proper selection of materials is very application specific. Please consult your Fibox representative for guidance.
























Printed enclosures

Silk screen printing is recommended for enclosure batches of less than 1000 pieces. This method is mainly suitable for flat surfaces, and can be used for large areas. Tampo printing is the best solution for volumes greater than 1000 pieces. It is suitable for printing on both flat and curved surfaces of limited size. Tampo printing is also ideal for tight spots like the inside surface of the enclosure.

The IP and IK classifications

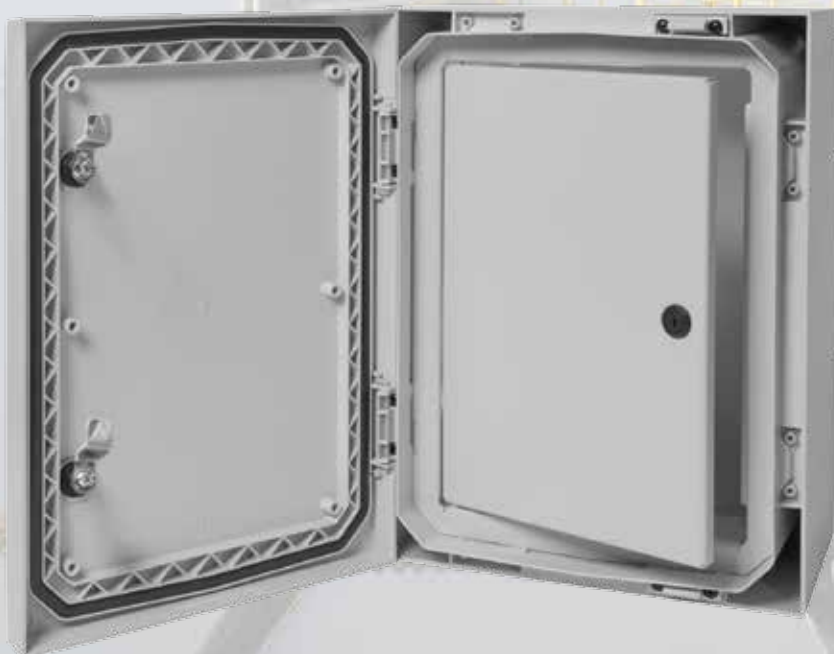
Ingress protection class of enclosures is given in the form of IP classification, a two digit coding which is shown below. Fibox has tested the enclosures according to EN 60529. The standard requires the second digit to be tested from class 6 upwards separately to each level of class, thus the double marking IP 66 / IP 67 indicates that the actual tests have been made for both levels.

The new European standard for empty enclosures, EN 62208 includes the IK impact test too. This test is described in EN 62262, and as Fibox enclosures are tested to EN 62208, the data for impact resistance will be available as well.

| FIRST DIGIT Protection against solid objects | | SECOND DIGIT Protection against liquids | | IK CODE Protection against mechanical impacts | |
|---|---|--|--|--|---|
| IP | TEST | IP | TEST | IK | TEST |
| 0 |  no protection | 0 |  no protection | 00 |  no protection |
| 1 |  protected against solid objects up to 50 mm e.g. hands | 1 |  protected against vertically falling drops of water | 01-05 |  impact < 1 joule |
| 2 |  protected against solid objects up to 12 mm e.g. fingers | 2 |  protected against direct sprays of water up to 15° from the vertical | 06 |  impact 1 joule |
| 3 |  protected against solid objects over 2,5 mm (tools+ small wires) | 3 |  protected against water sprayed from all directions - limited ingress permitted | 07 |  impact 2 joule |
| 4 |  protected against solid objects over 1 mm (tools+ small wires) | 4 |  protected against water sprayed from all directions - limited ingress permitted | 08 |  impact 5 joule |
| 5 |  protected against dust - limited ingress permitted (no harmful deposit) | 5 |  protected against low pressure jets of water from all directions - limited ingress permitted | 09 |  impact 10 joule |
| 6 |  totally protected against dust | 6 |  protected against strong jets of water e.g. for use on shipdecks - limited ingress permitted | 10 |  impact 20 joule |
| | | 7 |  protected against the effects of immersion between 15 cm and 1 m | | |
| | | 8 |  protected against long periods of immersion under pressure | | |

ARCA cabinets

Long-lasting solution for harsh and demanding environments



Door

- Door opening angle 120°
- Both horizontal and vertical option
- Pre-formed fixing studs inside
- Easy access to the contents
- Door stop available



Patent pending hinge design

- Easy assembly and refined appearance



Declined design on base

- Better waterproof

Locking

- Double-bit
- Changeable lock inserts



Mounting pods

- On the base, cover and four base sides



Gasket

- Wide and secured gasket with PUR material for high quality sealing.

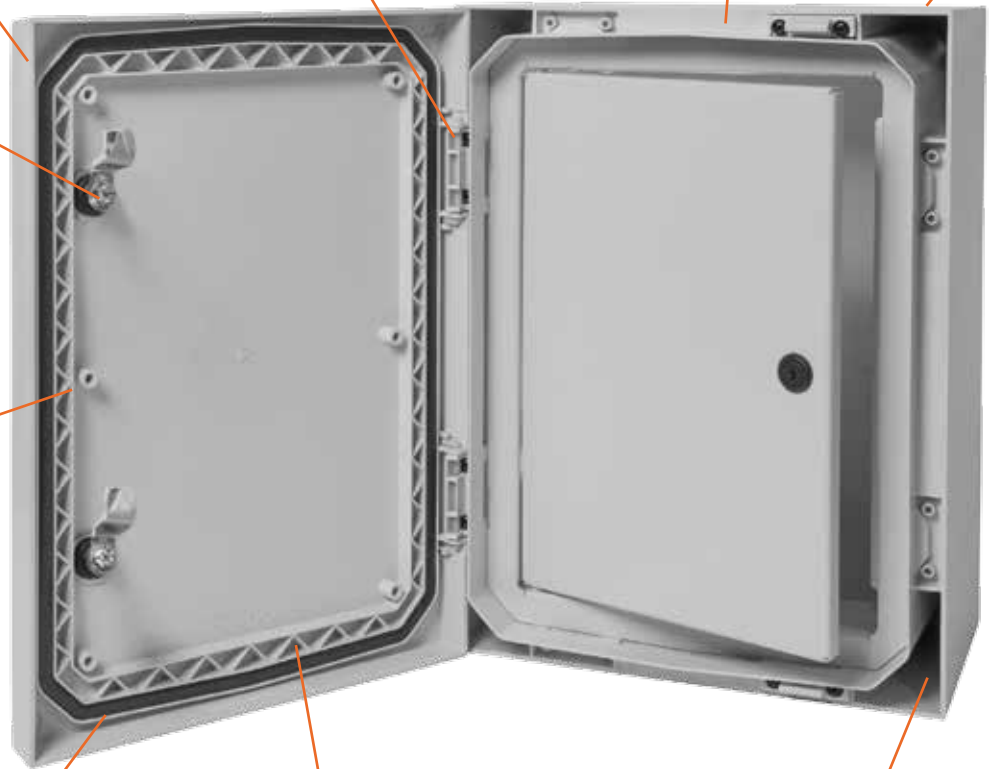
Special molded rib design

- For making the cabinet extra stabile and solid



Corner design

- Double corner to secure fixing without destroying the IP
- Robust and rigid cabinet



Base

The main body of the Fibox ARCA cabinet is made from rugged polycarbonate which offers many benefits;

- Non corrosive
- High impact resistance
- Low maintenance
- UV resistant
- Aesthetically pleasing

Mounting plate

- Galvanized steel as standard
- Pertinax and perforated galvanized steel on request



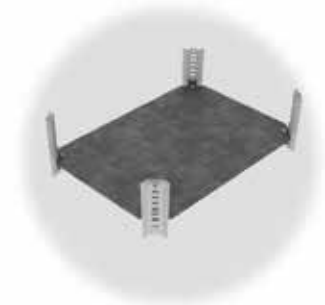
DIN rail frame set *

- Including DIN rail frame, front plate, corner brackets and screws for installation
- Easy and quick installation
- Patent pending



Adjustable mounting plate *

- Easy to assemble the mounting plate to desired depth with special corner brackets.



Inner door *

- No tools needed for installation
- Lockable
- Patent pending



Window cover *



Wall mounting lugs *

- 2 depths (10 and 40 mm) in stainless 316 steel



Swing handle *

- Secure 3-point closing with swing handle
- Changeable lock inserts



Flanges *

- Membrane, thread and smooth flange plates
- Multiple cable entry features



Door guide *

- Secure closing for bigger cabinet sizes



*Accessory. Sold separately.

ARCA IEC ARCA 2030

200 x 300

PC: IP66, IK 10



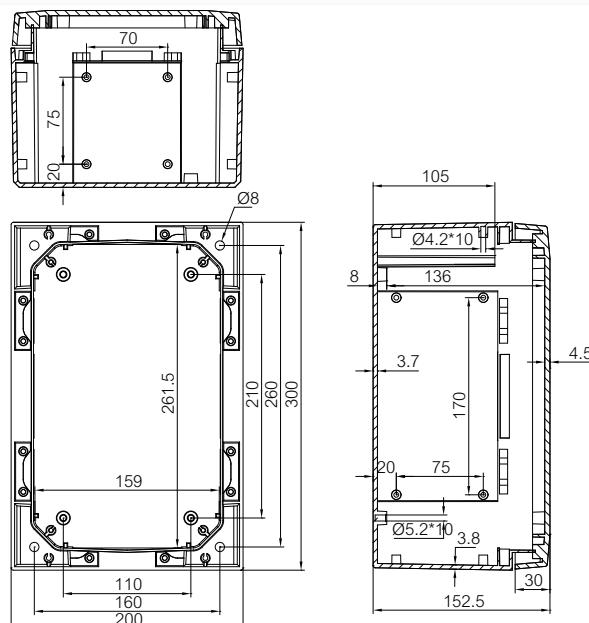
Including: Cabinet base, door with PUR gasket, mounting plate, screws for mounting plate. 3 mm double bit lock(s) with key. S versions with swinghandle 3-point locking system. F versions with flange opening. Door guide included.

Cabinets

| Order Symbol | Code | Dimensions | Description |
|----------------|---------|-----------------|---|
| ARCA 203015 | 8120020 | 200 x 300 x 150 | Cabinet, PC ▪ Grey cover, 1-point locking, hinges on the short side |
| ARCA 203015S | 8120100 | 200 x 300 x 150 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the short side |
| ARCA 203015W | 8120140 | 200 x 300 x 150 | Cabinet, PC ▪ Grey cover with window, 1-point locking, hinges on the short side |
| ARCA 203015SW | 8120220 | 200 x 300 x 150 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 203015F | 8120260 | 200 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover, 1-point locking, hinges on the short side |
| ARCA 203015SF | 8120340 | 200 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 203015WF | 8120380 | 200 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, 1-point locking, hinges on the short side |
| ARCA 203015SWF | 8120460 | 200 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |

Accessories

| Order Symbol | Code | Dimensions | Description |
|-----------------|---------|------------|--|
| MPS ARCA 3020 | 8120731 | 250 x 150 | Mounting plate ▪ Galvanized steel, for size 300x200x150 |
| MPP ARCA 3020 | 8120751 | 250 x 150 | Mounting plate perforated ▪ Galvanized steel, for size 300x200x150 |
| MPX ARCA 3020 | 8120741 | 250 x 150 | Mounting plate ▪ Pertinax, for size 300x200x150 |
| DRS ARCA 203015 | 8120791 | | DIN rail frame set ▪ 1 row x 11 modules, for size 200x300x150 |
| PMK ARCA 30 | 8120840 | | Pole mounting kit ▪ For size 200x300x150, 400x300x150/210 |





ARCA IEC ARCA 3020

300 x 200

PC: IP66, IK 10

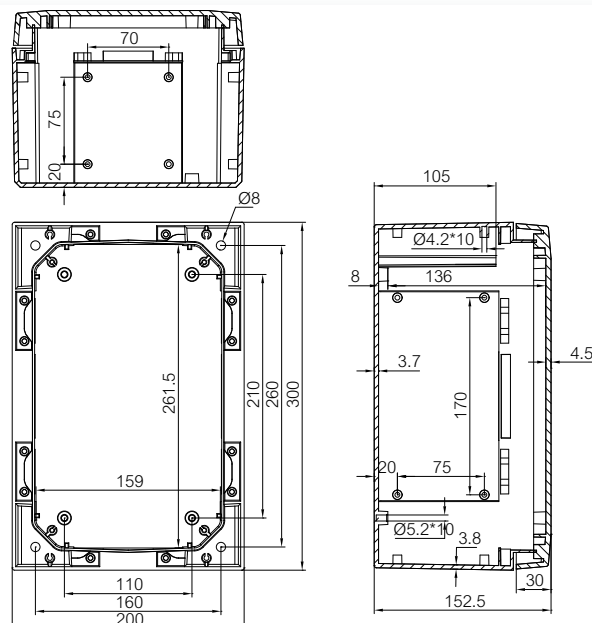
Including: Cabinet base, door with PUR gasket, mounting plate, screws for mounting plate. 3 mm double bit lock(s) with key. S versions with swinghandle 3-point locking system. F versions with flange opening. Door guide included.

Cabinets

| Order Symbol | Code | Dimensions | Description |
|----------------|---------|-----------------|--|
| ARCA 302015 | 8120002 | 300 x 200 x 150 | Cabinet, PC ▪ Grey cover, 1-point locking, hinges on the long side |
| ARCA 302015S | 8120082 | 300 x 200 x 150 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the long side |
| ARCA 302015W | 8120122 | 300 x 200 x 150 | Cabinet, PC ▪ Grey cover with window, 1-point locking, hinges on the long side |
| ARCA 302015SW | 8120202 | 300 x 200 x 150 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 302015F | 8120242 | 300 x 200 x 150 | Cabinet, PC, flange ▪ Grey cover, 1-point locking, hinges on the long side |
| ARCA 302015SF | 8120322 | 300 x 200 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 302015WF | 8120362 | 300 x 200 x 150 | Cabinet, PC, flange ▪ Grey cover with window, 1-point locking, hinges on the long side |
| ARCA 302015SWF | 8120442 | 300 x 200 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |

Accessories

| Order Symbol | Code | Dimensions | Description |
|-----------------|---------|------------|--|
| MPS ARCA 3020 | 8120731 | 250 x 150 | Mounting plate ▪ Galvanized steel, for size 300x200x150 |
| MPP ARCA 3020 | 8120751 | 250 x 150 | Mounting plate perforated ▪ Galvanized steel, for size 300x200x150 |
| MPX ARCA 3020 | 8120741 | 250 x 150 | Mounting plate ▪ Pertinax, for size 300x200x150 |
| DRS ARCA 302015 | 8120760 | | DIN rail frame set ▪ 1 row x 5 modules, for size 300x200x150 |
| IDS ARCA 3020 | 8120711 | | Inner door set ▪ Galvanized steel, for size 300x200x150 |
| PMK ARCA 20 | 8120841 | | Pole mounting kit ▪ For sizes 300x200x150 |



ARCA IEC ARCA 3040

300 x 400

PC: IP66, IK 10



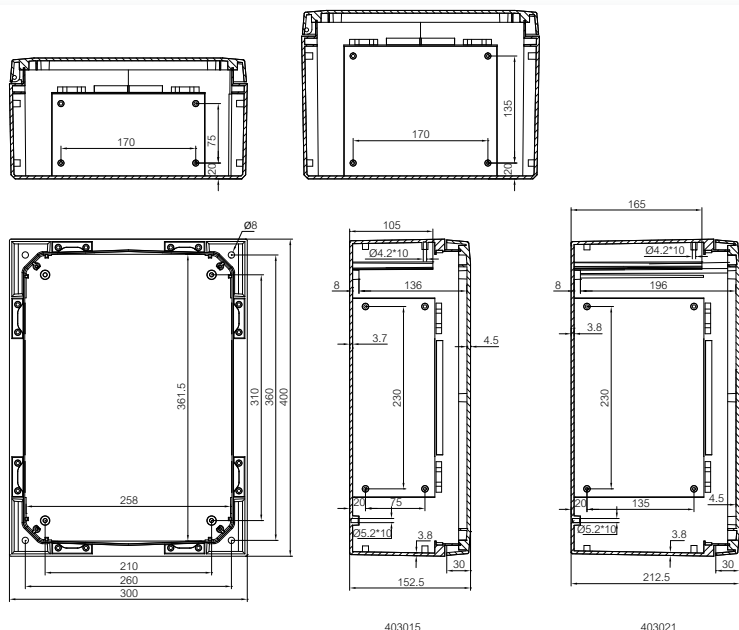
Including: Cabinet base, door with PUR gasket, mounting plate, screws for mounting plate. 3 mm double bit lock(s) with key. S versions with swinghandle 3-point locking system. F versions with flange opening. Door guide included.

Cabinets

| Order Symbol | Code | Dimensions | Description |
|----------------|---------|-----------------|---|
| ARCA 304015 | 8120022 | 300 x 400 x 150 | Cabinet, PC ▪ Grey cover, 2-point locking, hinges on the short side |
| ARCA 304021 | 8120023 | 300 x 400 x 210 | Cabinet, PC ▪ Grey cover, 2-point locking, hinges on the short side |
| ARCA 304015S | 8120102 | 300 x 400 x 150 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the short side |
| ARCA 304021S | 8120103 | 300 x 400 x 210 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the short side |
| ARCA 304015W | 8120142 | 300 x 400 x 150 | Cabinet, PC ▪ Grey cover with window, 2-point locking, hinges on the short side |
| ARCA 304021W | 8120143 | 300 x 400 x 210 | Cabinet, PC ▪ Grey cover with window, 2-point locking, hinges on the short side |
| ARCA 304015SW | 8120222 | 300 x 400 x 150 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 304021SW | 8120223 | 300 x 400 x 210 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 304015F | 8120262 | 300 x 400 x 150 | Cabinet, PC, flange ▪ Grey cover, 2-point locking, hinges on the short side |
| ARCA 304021F | 8120263 | 300 x 400 x 210 | Cabinet, PC, flange ▪ Grey cover, 2-point locking, hinges on the short side |
| ARCA 304015SF | 8120342 | 300 x 400 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 304021SF | 8120343 | 300 x 400 x 210 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 304015WF | 8120382 | 300 x 400 x 150 | Cabinet, PC, flange ▪ Grey cover with window, 2-point locking, hinges on the short side |
| ARCA 304021WF | 8120383 | 300 x 400 x 210 | Cabinet, PC, flange ▪ Grey cover with window, 2-point locking, hinges on the short side |
| ARCA 304015SWF | 8120462 | 300 x 400 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |
| ARCA 304021SWF | 8120463 | 300 x 400 x 210 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the short side |

Accessories

| Order Symbol | Code | Dimensions | Description |
|-----------------|---------|------------|---|
| MPS ARCA 4030 | 8120733 | 350 x 250 | Mounting plate ▪ Galvanized steel, for sizes 400x300x150/210 |
| MPP ARCA 4030 | 8120753 | 350 x 250 | Mounting plate perforated ▪ Galvanized steel, for sizes 400x300x150/210 |
| MPX ARCA 4030 | 8120743 | 350 x 250 | Mounting plate ▪ Pertinax, for sizes 400x300x150/210 |
| DRS ARCA 304015 | 8120793 | | DIN rail frame set ▪ 1 row x 16 modules, for size 300x400x150 |
| DRS ARCA 304021 | 8120794 | | DIN rail frame set ▪ 1 row x 16 modules, for size 300x400x210 |
| PMK ARCA 40 | 8120841 | | Pole mounting kit ▪ For sizes 300x400x150/210, 500x400x210 |





ARCA IEC ARCA 4030

400 x 300

PC: IP66, IK 10

Including: Cabinet base, door with PUR gasket, mounting plate, screws for mounting plate. 3 mm double bit lock(s) with key. S versions with swinghandle 3-point locking system. F versions with flange opening. Door guide included.

Cabinets

| Order Symbol | Code | Dimensions | Description |
|----------------|---------|-----------------|--|
| ARCA 403015 | 8120006 | 400 x 300 x 150 | Cabinet, PC ▪ Grey cover, 2-point locking, hinges on the long side |
| ARCA 403015S | 8120086 | 400 x 300 x 150 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the long side |
| ARCA 403015W | 8120126 | 400 x 300 x 150 | Cabinet, PC ▪ Grey cover with window, 2-point locking, hinges on the long side |
| ARCA 403015SW | 8120206 | 400 x 300 x 150 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 403015F | 8120246 | 400 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover, 2-point locking, hinges on the long side |
| ARCA 403015SF | 8120326 | 400 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 403015WF | 8120366 | 400 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, 2-point locking, hinges on the long side |
| ARCA 403015SWF | 8120446 | 400 x 300 x 150 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 403021 | 8120007 | 400 x 300 x 210 | Cabinet, PC ▪ Grey cover, 2-point locking, hinges on the long side |
| ARCA 403021S | 8120087 | 400 x 300 x 210 | Cabinet, PC ▪ Grey cover, swinghandle, hinges on the long side |
| ARCA 403021W | 8120127 | 400 x 300 x 210 | Cabinet, PC ▪ Grey cover with window, 2-point locking, hinges on the long side |
| ARCA 403021SW | 8120207 | 400 x 300 x 210 | Cabinet, PC ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 403021F | 8120247 | 400 x 300 x 210 | Cabinet, PC, flange ▪ Grey cover, 2-point locking, hinges on the long side |
| ARCA 403021SF | 8120327 | 400 x 300 x 210 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |
| ARCA 403021WF | 8120367 | 400 x 300 x 210 | Cabinet, PC, flange ▪ Grey cover with window, 2-point locking, hinges on the long side |
| ARCA 403021SWF | 8120447 | 400 x 300 x 210 | Cabinet, PC, flange ▪ Grey cover with window, swinghandle, hinges on the long side |

Accessories

| Order Symbol | Code | Dimensions | Description |
|-----------------|---------|------------|---|
| MPS ARCA 4030 | 8120733 | 350 x 250 | Mounting plate ▪ Galvanized steel, for sizes 400x300x150/210 |
| MPP ARCA 4030 | 8120753 | 350 x 250 | Mounting plate perforated ▪ Galvanized steel, for sizes 400x300x150/210 |
| MPX ARCA 4030 | 8120743 | 350 x 250 | Mounting plate ▪ Pertinax, for sizes 400x300x150/210 |
| DRS ARCA 403015 | 8120764 | | DIN rail frame set ▪ 2 rows x 11 modules, for size 400x300x150 |
| DRS ARCA 403021 | 8120765 | | DIN rail frame set ▪ 2 rows x 11 modules, for size 400x300x210 |
| IDS ARCA 4030 | 8120713 | | Inner door set ▪ Galvanized steel, for sizes 400x300x150/210 |
| PMK ARCA 30 | 8120842 | | Pole mounting kit ▪ For sizes 200x300x150, 400x300x150/210 |

