



# COMBIESTER

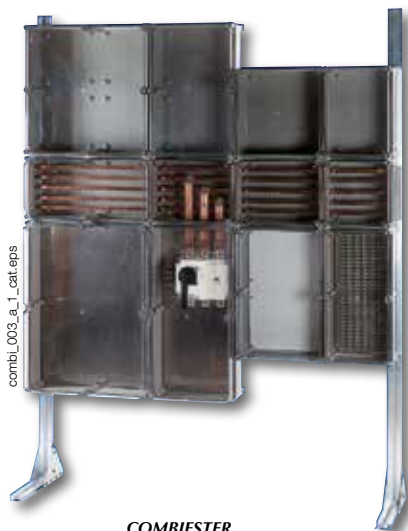
## Enclosures

Enclosures  
& accessories



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**COMBIESTER**  
with transparent cover



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**COMBIESTER**  
can be assembled

### The solution for

- > Any electrical device



### Strong points

- > Safety
- > Wide range
- > Protection degree: IP66 and IK10
- > Flexibility: can be assembled

### Conformity to standards

- > IEC 60529
- > NF C 20010-20455
- > IEC 62208
- > IEC 61439-1



### Load break switches

- > The SIRCO and SIRCO AC range can be easily fitted in our COMBIESTER enclosures.
- > The SIRCO AC is intended for severe applications 690 VAC - AC23.



### Available on request

- > Pre-drilled casing and cover
- > Pre-assembled enclosures
- > Pre-mounted accessories
- > Construction of support frames

### Function

**COMBIESTERs** are modular insulated enclosures. They protect all low voltage electrical equipment against direct contact.

#### General characteristics

- 960°C self-extinguishable (polyester glasswool loaded); 850°C (polycarbonate); 650°C (polyamide)
- Protection degree IP66, IK10
- Case and cover with opaque colour RAL 7035

### Advantages

#### Safety

These enclosures ensure electrical safety with a double isolation, a good resistance to creepage current, an excellent withstanding to climatic conditions and a high resistance to chemical agents.

#### Wide range

- Monobloc and modular enclosures.
- 4 dimensions for monobloc enclosures and 15 dimensions for constructible enclosures.
- 2 types of sealable covers: transparent or opaque (polycarbonate).

## References

### Monobloc enclosures

Dimensions H x W x D (mm)	Casing with transparent cover	Casing with opaque polycarbonate cover
	Reference	Reference
130 x 80 x 100		PE12 0710 <sup>(1)</sup>
180 x 130 x 100	PE17 121L <sup>(1)</sup>	PE17 1210 <sup>(1)</sup>
180 x 180 x 100	PE17 171L <sup>(1)</sup>	PE17 1710 <sup>(1)</sup>

*(1) The seal and cover fixing screws on the casing are included in the enclosure supply.*

### Constructible enclosures

Dimensions H x W x D (mm)	Casing with transparent cover	Casing with opaque polycarbonate cover
	Reference	Reference
180 x 135 x 129	U0E1 813L	UE18 13L0
270 x 180 x 171	U00E 2718	U0E2 7180
270 x 270 x 171	U00E 2727	U0E2 7270
270 x 360 x 171	U00E 2736	U0E2 7360
270 x 360 x 201	U0E2 736H	
360 x 360 x 171	U00E 3636	U0E3 6360
360 x 360 x 201	U0E3 636H	
540 x 270 x 171	U00E 5427	U0E5 4270
540 x 270 x 201	U0E5 427H	UE54 27H0
540 x 360 x 171	U00E 5436	U0E5 4360
540 x 360 x 201	U0E5 436H	
540 x 540 x 171	U00E 5454	U0E5 4540
540 x 540 x 201	U0E5 454H	
720 x 360 x 201	U0E7 236H	UE72 36H0
720 x 540 x 201	U0E7 254H	UE72 54H0

## Accessories

### Mounting plate

#### Use

For equipment installation.

#### Variant

Solid plate in polyester or aluminium.

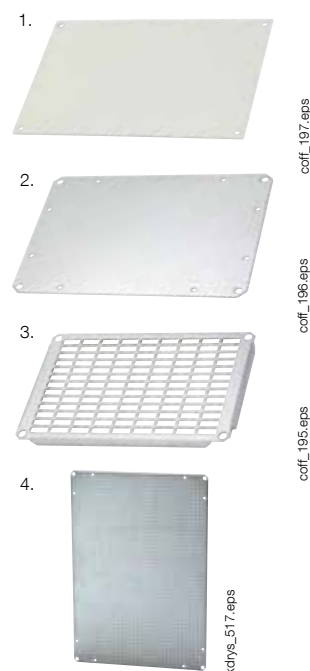
#### Packaging

One part.

#### Mounting screws

Supplied.

For enclosure H x W x D (mm)	1 polyester	2 aluminium	3 perforated steel	4 drilled steel
	Reference	Reference	Reference	Reference
180 x 135	U0BP 1813	POAL 1813	POPF 1813	POPP 1813
270 x 180	U0BP 2718	POAL 2718	POPF 2718	POPP 2718
270 x 270	U0BP 2727	POAL 2727	POPF 2727	POPP 2727
270 x 360	U0BP 2736	POAL 2736	POPF 2736	POPP 2736
360 x 180	U0BP 3618	POAL 3618	POPF 3618	POPP 3618
360 x 360	U0BP 3636	POAL 3636	POPF 3636	POPP 3636
540 x 270	U0BP 5427	POAL 5427	POPF 5427	POPP 5427
540 x 360	U0BP 5436	POAL 5436	POPF 5436	POPP 5436
540 x 540	U0BP 5454	POAL 5454	POPF 5454	POPP 5454
720 x 360	U0BP 7236	POAL 7236	POPF 7236	POPP 7236
720 x 540	U0BP 7254	POAL 7254	POPF 7254	POPP 7254



### Accessories

#### Device mounting accessories

**Use**

For securing devices onto the mounting plates.

**Material:** white zinc-coated steel



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Type	For screw	Ø hole (mm)	To be ordered in multiples of	Reference
Insert	M4	5.5	20	P000 OPM4
Insert	M5	6.5	20	P000 OPM5
Insert	M6	8.0	20	P000 OPM6
Insert	M8	10.0	20	P000 OPM8
Clip-on nut	M4		20	5160 0004
Clip-on nut	M5		20	5160 0005
Clip-on nut	M6		20	5160 0006
Self-tapping screw	CB Z M5x12		100	5119 0026

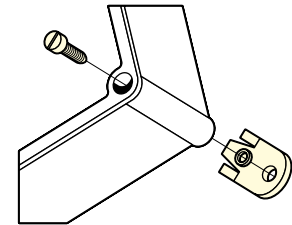
#### Set of 4 mounting lugs

**Use**

Enables a flat-pack box to be wall-mounted.

**Material:** bichromate stainless steel.

**Mounting screws:** supplied



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For enclosure	To be ordered in multiples of	Reference
Larger sizes	1	U000 CB18 <sup>(1)</sup>

<sup>(1)</sup> Stainless steel

#### Spacers

**Use**

To increase the depth of the enclosure.

**Mounting screws:**

supplied with seal.

**Material:** polyester.



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Enclosure width H x W x D (mm)	To be ordered in multiples of	Reference
270 x 360 x 62.5	1	U0FD 2737
540 x 270 x 62.5	1	U0FD 5428
540 x 360 x 62.5	1	U0FD 5437
540 x 540 x 125	1	U0FD 5455

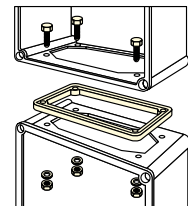
#### Assembly frame

**Use**

Allows the coupling of 2 enclosures while keeping the same protection index.

**Material:** polyester.

**Mounting screws:** supplied with seal.



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Enclosure width L (mm)	To be ordered in multiples of	Reference
180	1	U000 CP18
270	1	U000 CP27
360	1	U000 CP36

#### Closing plate

**Use**

To close standard cut-outs and/or either install protective earth conductors and grommets.

**Material:** polyester.

**Mounting screws:** supplied with seal.



envel\_009\_eps

Enclosure width L (mm)	To be ordered in multiples of	Reference
180	1	U000 EC18
270	1	U000 EC27
360	1	U000 EC36

## Extended cable box

**Use**

To facilitate the implementation of power supply cables in the enclosure.

**Material:** polyester.

**Mounting screws:** supplied with seal.

Enclosure width L (mm)	To be ordered in multiples of	Reference
270	1	U000 <b>CB27</b>
360	1	U000 <b>CB36</b>



combi\_010.eps

## Cable box

**Use**

To facilitate the implementation of power supply cables in the enclosure. In the lower part, this box is fitted with 2 pre-drilled holes to install a PE conductor.

**Material:** polyester.

**Mounting screws:** supplied.

Enclosure width L (mm)	To be ordered in multiples of	Reference
270	1	U00S <b>CB27</b>



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## Hinge

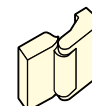
**Use**

Hinges can only be used on enclosures with a depth of 171 and 201 mm.

**Material:** polyamide.

**Mounting screws:** supplied.

Type	To be ordered in multiples of	Reference
Paire de charnières extérieures	1	U000 <b>00KK</b>
Plug for barrel, hinge side	1	P000 <b>0018</b>



combi\_020\_b\_1\_x\_cat

## Screws and key for cover

**Use**

To replace the screwdriver head screws originally used on the enclosure.

Type	To be ordered in multiples of	Reference
Slotted head screw for enclosures (H x L) 270 x 180 mm	1	U0TF <b>T400</b>
Slotted head screw for enclosures (H x L) 180 x 135 mm	1	UTFT <b>4000</b>
Slotted head screw for enclosures (H x L) 270 x 180 mm	1	U000 <b>SD14</b>



combi\_021\_Lb\_1\_x\_cat

## Grommets

Ø with reducing ring (mm)	Ø drilling (mm)	To be ordered in multiples of	Reference
5 ... 18	22	10	U00R <b>GA18</b>
10 ... 28	31	10	U00R <b>GA28</b>
12 ... 35	41	50	U00R <b>GA35</b>
30 ... 58	67-68	25	U00R <b>GA58</b>
10 ... 60	75	5	U00R <b>GD60</b>
12 ... 80	95	10	U00R <b>GD80</b>



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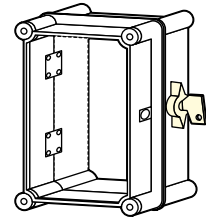
### Accessories (continued)

#### Locking knob with key for enclosure

**Use**

Allows the cover to be locked with a lock key type system.

**Mounting screws:** supplied.



combi\_002\_b\_1\_x\_cat

Locking knob	To be ordered in multiples of	Reference
with 405 type key	1	P040 5LLK <sup>(1)</sup>
with 455 type key	1	P040 5LLK <sup>(1)</sup>

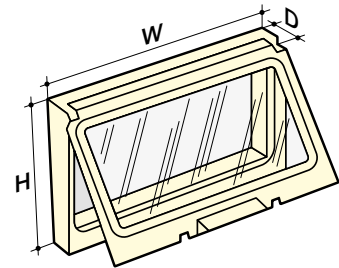
(1) Other keys on request.

#### Window

**Use**

Allows access to the inside of an enclosure without opening the door. Supplied with seal.

Dimensions H x W x D (mm)	Case degree of protection	Pack qty	Reference
44 x 50 x 25	IP55	1	U00T R2AM
78 x 95 x 25	IP55	1	U00T R4AM
78 x 130 x 25	IP55	1	U00T R5AM
78 x 163 x 25	IP55	1	U00T R8AM
78 x 200 x 25	IP55	1	U0TR 10AM
78 x 235 x 25	IP55	1	U0TR 12AM



combi\_006\_b\_1\_gbo\_cat

#### Inspection trap-door

**Use**

Allows limited access to controls positioned on the front of the enclosure.

This inspection trap-door is grated on the bottom part to allow evacuation of condensation.

**Mounting screws:** supplied.

Dimensions H x W x D (mm)	Pack qty	Reference
225 x 165 x 65	1	P00T R1AM



combi\_007\_eps

### Dimensions

#### Monobloc enclosures

##### Pre-cut inputs

H x W x D (mm)	Large side	Small side
130 x 80 x 100	2xM32/M20	1xM25/M16
180 x 130 x 100	3xM25/M16	2xM32/M20
180 x 180 x 100	3xM32/M20	3xM25/M16
255 x 180 x 100	8xM20, 1xM50/M32	2xM32/M20, 1xM20

Dimensions (continued)

Constructible enclosures

Fig. 1

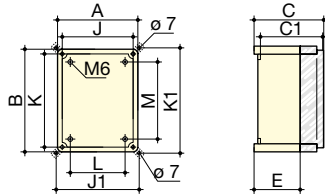


Fig. 2

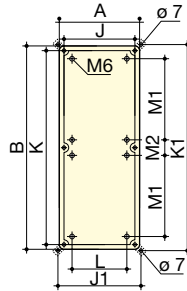
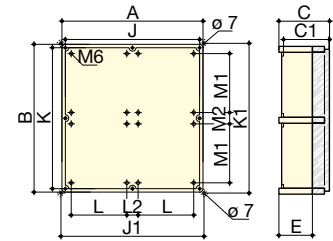


Fig. 3



H x W x D (mm)	Fig.	Dimensions (mm)					Enclosure mounting (mm)					Plate mounting (mm)			
		A	B	C	C1	E	J	J1	K	K1	L	L2	M1	M2	
180 x 135 x 129	1	135	180	129	113	106	116	137	162	182	87				132
270 x 270 x 171	1	270	270	171	157	126	245	272	245	272	200				200
270 x 360 x 171	1	360	270	171	157	126	335	362	245	272	290				200
270 x 360 x 201	1	360	270	201	187	126	335	362	245	272	290				200
360 x 360 x 171	1	360	360	171	157	126	135	362	335	362	290				290
360 x 360 x 201	1	360	360	201	187	126	335	362	335	362	290				290
540 x 270 x 171	2	270	540	171	157	126	245	272	515	542	200			200	70
540 x 270 x 201	2	270	540	201	187	126	245	272	515	542	200			200	70
540 x 360 x 171	2	360	540	171	157	126	335	362	515	542	290			200	70
540 x 360 x 201	3	540	540	171	157	126	515	542	515	542	290			200	70
540 x 540 x 171	2	360	720	201	187	126	335	362	698	542	200	70		200	70
540 x 540 x 201	3	540	540	201	187	126	515	542	515	542	200	70		200	70
720 x 360 x 201	2	360	720	201	187	126	335	362	698	722	290			290	70
720 x 540 x 201	3	540	720	201	187	126	515	542	698	722	200	70		290	70

How to define the openings of your constructible enclosures?

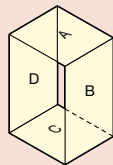
Indicate:

- the enclosure reference,
- the side of the casing on which the opening has to be positioned (identified with letters A to D).

Example: Enclosure P00E5436 (size 540 x 360) with openings in A<sub>1</sub>, D<sub>1</sub> and B<sub>2</sub>.

For enclosures H x L (mm):

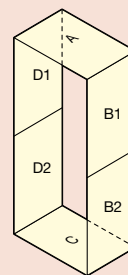
- 180 x 135 mm
- 270 x 180 mm
- 270 x 270 mm
- 360 x 270 mm
- 360 x 180 mm
- 360 x 360 mm



combi\_030\_a\_1\_x\_cat

For enclosures H x L (mm):

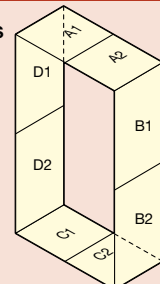
- 540 x 270 mm
- 540 x 360 mm
- 720 x 360 mm



combi\_031\_a\_1\_x\_cat

For enclosures H x L (mm):

- 540 x 540 mm
- 720 x 540 mm

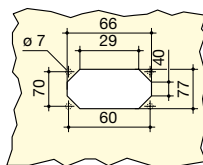


combi\_032\_a\_1\_x\_cat

Note: Cut-out item code is P0000001 - ordering as per the number of units.

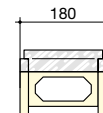
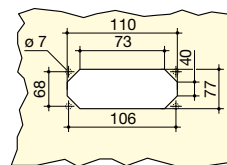
Dimensions of openings

135 mm width enclosure



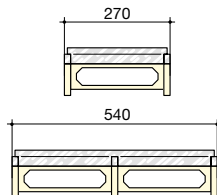
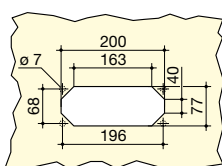
combi\_033\_a\_1\_x\_cat

180 mm width enclosure



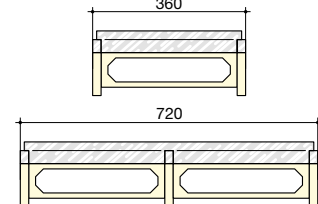
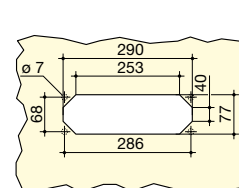
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270 mm width enclosure



combi\_035\_a\_1\_x\_cat

360 mm width enclosure



combi\_036\_a\_1\_x\_cat