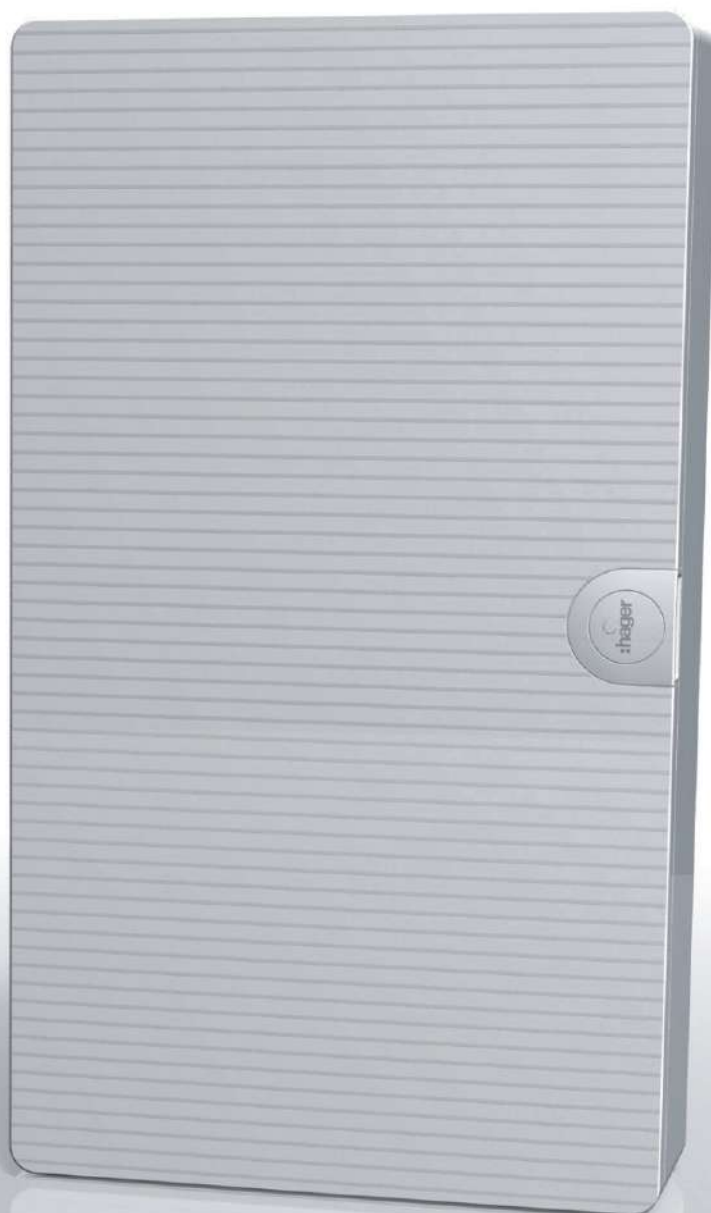




## Designed by you

New golf enclosures VS and VF series





# Discretely elegant but rich in design details

Before we sat down to design the new golf enclosures range, we decided to call in the real experts in enclosures: you. So, we started our V.O.C. (Voice Of Customer) program, gathering professional installers from all over the world and asking what was needed to make enclosure wiring jobs easier, quicker and more productive.



#### **“Make my life easier”**

In general I want the box to be easy to work in... like not having to dismount the modules to get at the mounting screws.



#### **“More room for my fingers”**

More room for running cables and space for my fingers... Not so tight and cramped.



#### **“Keep it simple”**

Clear open design that makes wiring and fitting simple... It doesn't need to be too clever, just keep it simple.



#### **“One range for all needs”**

Can't you make one range for small business and domestic jobs? Why should I have to change boxes all the time? It's confusing.



#### **“the big thing are the details”**

What about printing diagrams in the box to show you its features. I can't be using a brochure on the job. Make it clear how to save time and do the job right.

They came up with hundreds of simple and practical suggestions. Then, our R+D department applied the best of those ideas to produce an incredibly simple and smart enclosure: The new Golf: a discretely elegant new design that will set the standard for small and medium installations.

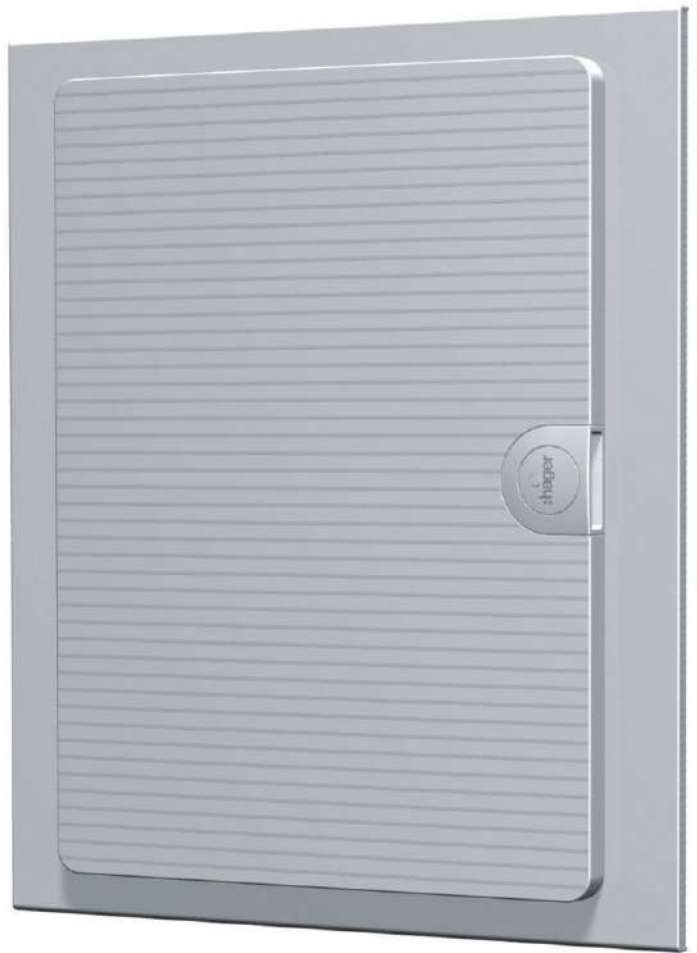
The new Golf is available in two main series: VS and VF. Discover how their new features will change the way you see your job.

At Hager we really want to know what you think. Because only with your experience we can take our products up to the next level.

So we have developed a special system for gathering your impressions, ideas or suggestions for making our products meet your needs. If you have something to say and would like to take part in our Voice of the Customer programme, please, don't hesitate: contact us

# VF Series

Discrete beauty



# Hager new golf enclosures:

Product features VF Flush mounted series.

## Advantages - VF series

### 1. Instant, hollow wall mounting

- Instant fixation in plasterboard and wooden walls using patented quick-lock snap fittings and 90° screw.

### 2. Easy to mark out wall opening

- Cut-outs around the lip make marking out the wall opening a simple task.

### 3. Optimised cable entry allows maximum installation flexibility

- Pre-cut, progressively sized knock-outs for cable and conduit entry.
- Removable sliding end-piece with pre-cut profiles.
- Quick, easy cable-tie points at slider side.
- Box can be rotated through 180° for ease of installation.

### 4. Easily accessible DIN rail key-hole fixation points saves time and trouble

- Key-hole screw mounting for quick rail assembly.
- Key-hole screw mounting located outside the modular devices area for instant access and no dismounting.

### 5. Flush modular device level guaranteed

- Plastic chassis adjusts to level of plastered wall.
- Plastic chassis can be adjusted for horizontal level.
- Choice of adjustable plastic or fixed metallic chassis.
- Both types are quickly and easily dismountable.

### 6. Easy, comfortable cable management and fixing

- Patented integrated cable fixation using clips or standard cable-ties.

### 7. More cabling space makes the job quicker and easier

- Ease of installation guaranteed by greater space for working and cabling between modular devices and terminals
- More cabling space behind DIN rails simplifies wiring.

### 8. Fast, secure cover, plastic chassis and wall fitting with 1/4 turn screws

- 90° screws for securing cover, chassis and wall fitting.
- Built-in, quick-secure screws cannot be lost.

### 9. Snapper mounted terminals

- Instant installation of snapper supporting quick connect or brass terminals.

### 10. Self-explanatory box

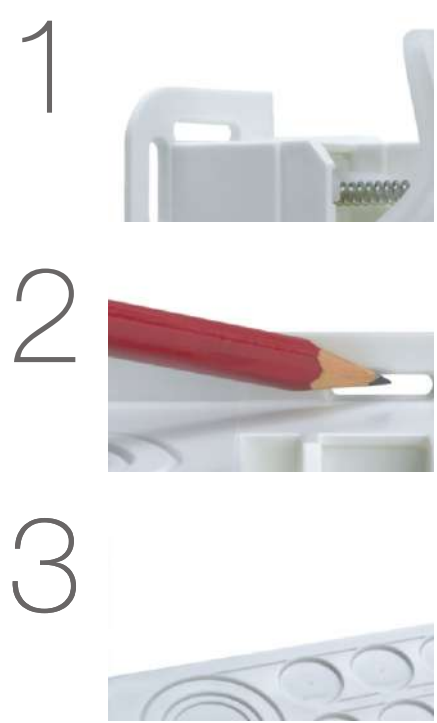
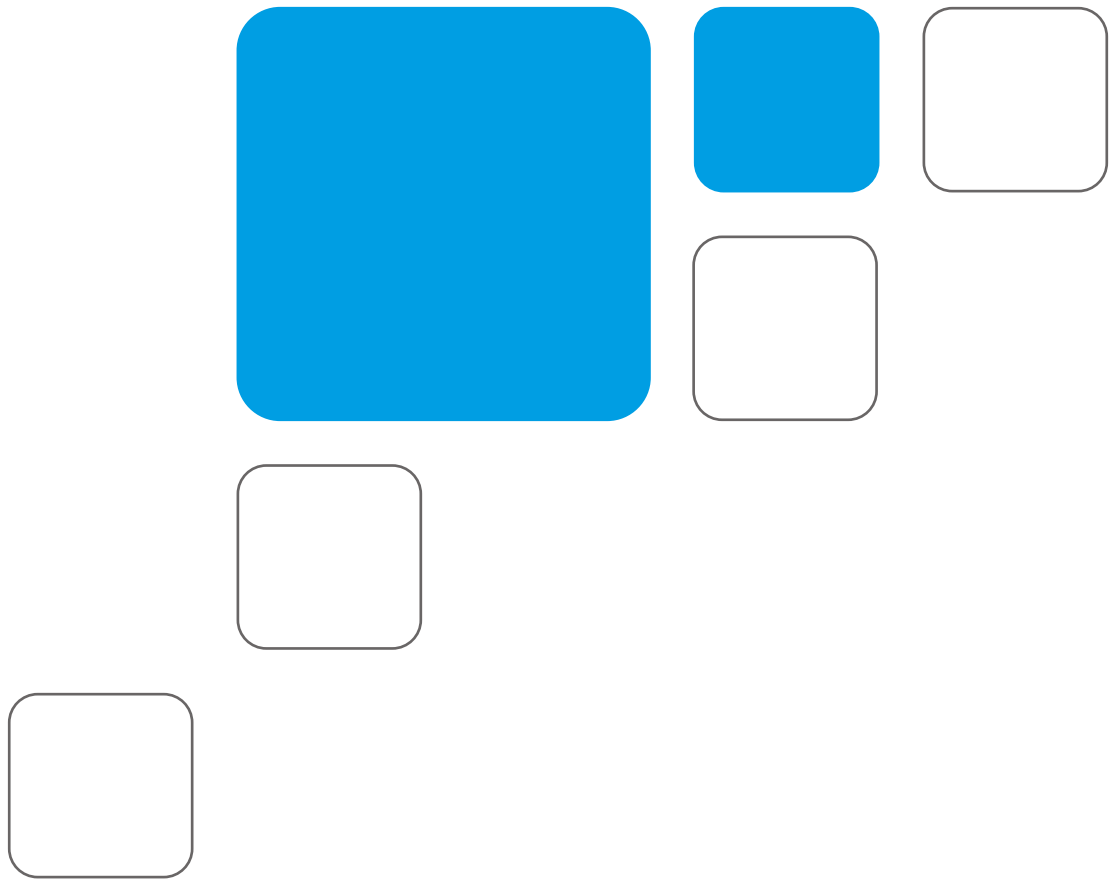
- All product features clearly indicated by illustrations in the box itself.

### 11. New, extra-clear patented marking system

- Sticker or transparent cover and paper marking system for clarity.

### 12. Unbreakable door hinges

- New design makes broken hinges a thing of the past.
- Same door for flush and surface mounted enclosures.
- Left or right facing, symmetrical door installation.



# New golf VF series

7



10



8



11



9



12



# VS Series

Perfection on the surface





# Hager new golf enclosures:

Product features VS Surface mounted series.

## Advantages - VS series

### 1. Optimised cable entry allows maximum installation flexibility

- golf VS can be installed to suit cable entry and exit from all sides.
- Box can be turned through 180° to facilitate installation.
- Pre-cut, progressively sized knock-outs for cable and conduit entry.
- Pre-cut profiles for trunking entry on cover.
- Quick, easy cable-tie points at trunking entry end.

### 2. Easy, comfortable cable management and fixing

- Patented integrated cable fixation using clips or standard cable-ties.
- Reversible clips for:
  - holding wires outside working area for maximum ease.
  - fixing wires in place on completion.

### 3. Snapper mounted terminals

- Instant installation of snapper supporting quick connect or brass terminals.

### 4. Self-explanatory box

- All product features clearly indicated by illustrations in the box itself.

### 5. More cabling space makes the job quicker and easier

- Ease of installation guaranteed by greater space for working and cabling between modular device and terminals.
- More cabling space behind DIN rails simplifies wiring.

### 6. Easily accessible DIN rail key-hole fixation points saves time and trouble

- Key-hole screw mounting for quick rail assembly.

### 7. Full access from the side for wiring

- Full access to the whole box.

### 8. Quick, safe, easy wall mounting with key-hole screws

- Enclosure easily fixed to wall using key-hole screw hole.
- Enclosure can be rotated to adjust horizontal level.
- Double insulated mounting screws with caps for extra safety.

### 9. Connect enclosures vertically or horizontally

- Connection tabs allow secure, flush horizontal and vertical joining of enclosures.

### 10. Fast, secure cover fitting with 1/4 turn

- 90° screws for securing cover.
- Built-in, quick-secure screws cannot be lost.

### 11. New, extra-clear patented marking system

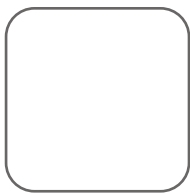
- Sticker or transparent cover and paper marking system for clarity.

### 12. Unbreakable door hinges

- New design makes broken hinges a thing of the past.
- Same door for flush and surface mounted enclosures.
- Left or right facing, symmetrical door installation.

### 13. Stylish, trendsetting design

- Discrete, uncluttered design with no visual waste is non-intrusive.
- Fine design details apparent at close quarters.
- Sophisticated appearance looks elegant and high quality.



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# New golf VS series

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Flush mounted distribution boxes from 1 to 4 rows, from 4 to 72 modules, supplied with opaque or transparent door for devices up to 70 mm installation depth. DIN profile for modular devices 47 mm under the cover. Distance between the DIN rails axis 125 mm.

Distribution boards manufactured from fire retardant plastic material. Opaque and transparent doors. Door can be fitted on right or left without dismounting the cover; optional lock and keys. Door opens up to 180°. Wall box and cover can be installed either way up. Removable cable entry slider. Cable entries for cable and conduit.

## Components included:

- Brass screw-type terminals.
- Pole fillers
- Towers to fix cable ties for clear cable management are included, cable-retaining clips are optional.
- Door protected by a plastic film.
- Carton packaging
- DIN rails fixed directly fixed to the wall box allow room for wiring behind them.
- Delivers with brick-wall mounting brackets.



VF104



VF212





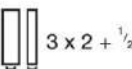


VF312

Description	Brass terminal 	Type of door	Pack.	Ref.
<b>1 row 4</b>  Wall niche: (H x W x D): 189 x 170 x 72 mm	N: 2 x 16 mm <sup>2</sup> + 2 x 10 mm <sup>2</sup> E: 2 x 16 mm <sup>2</sup> + 2 x 10 mm <sup>2</sup>  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF104PM</b>   <b>VF104TM</b>
<b>1 row 8</b>  Wall niche: (H x W x D): 189 x 242 x 72 mm	N: 2 x 16 mm <sup>2</sup> + 4 x 10 mm <sup>2</sup> E: 2 x 16 mm <sup>2</sup> + 4 x 10 mm <sup>2</sup>  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF108PM</b>   <b>VF108TM</b>
<b>1 row 12</b>  Wall niche: (H x W x D): 257 x 318 x 72 mm	N: 4 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup> E: 4 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup>  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF112PM</b>   <b>VF112TM</b>
<b>2 row 24</b>  Wall niche: (H x W x D): 382 x 318 x 72 mm	N: (5 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup> ) x 2 E: 9 x 16 mm <sup>2</sup> + 13 x 10 mm <sup>2</sup>  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF212PM</b>   <b>VF212TM</b>
<b>3 row 36</b>  Wall niche: (H x W x D): 507 x 318 x 72 mm	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 E: 1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup>  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF312PM</b>   <b>VF312TM</b>
<b>4 row 48</b>  Wall niche: (H x W x D): 652 x 318 x 72 mm	N: (1 x 25 mm <sup>2</sup> + 6 x 16 mm <sup>2</sup> + 7 x 10 mm <sup>2</sup> ) x 3 E: (1 x 25 mm <sup>2</sup> + 10 x 16 mm <sup>2</sup> + 13 x 10 mm <sup>2</sup> ) + (9 x 16 mm <sup>2</sup> + 11 x 10 mm <sup>2</sup> )  	<b>Opaque</b>   <b>Transparent</b>	1   1	<b>VF412PM</b>   <b>VF412TM</b>

## Technical data:

- IP rating:  
IP30 without door  
IP40 with door  
IK07
- Isolation Class II
- White colour RAL 9010
- Rated current:  
for devices up to 63 A
- Rated insulation:  
400 V a.c./50 Hz
- Glow wiring test: 650°C  
according to UNE 60595-2-1

**Standards:** all the products of the offer conform to IEC 60439-3 AENOR<sup>®</sup> Certification according to UNE EN 60439. All products conform to the RoHS and WEEE directives.

	Description	Brass terminal 	Type of door	Pack.	Ref.
 VF218	<b>1 row 18</b> ■	N: 7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> E: 7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup>	Opaque	1	VF118PM
	Wall niche: (H x W x D): 257 x 426 x 72 mm	 2 + <sup>1</sup> / <sub>2</sub>	Transparent	1	VF118TM
 VF318	<b>2 row 36</b> ■	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 E: 1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup>	Opaque	1	VF218PM
	Wall niche: (H x W x D): 382 x 426 x 72 mm	 2 x 2 + <sup>1</sup> / <sub>2</sub>	Transparent	1	VF218TM
 VF418	<b>3 row 54</b> ■	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 + (7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> ) E: (1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup> ) + (7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> )	Opaque	1	VF318PM
	Wall niche: (H x W x D): 507 x 426 x 72 mm	 3 x 2 + <sup>1</sup> / <sub>2</sub>	Transparent	1	VF318TM
 VF418	<b>4 row 72</b> ■	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 4 E: (1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup> ) x 2	Opaque	1	VF418PM
	Wall niche: (H x W x D): 652 x 426 x 72 mm	 3 x 2 + <sup>1</sup> / <sub>2</sub>	Transparent	1	VF418TM
 VF418	<b>1 row 22</b> ■	N: 8 x 16 mm <sup>2</sup> + 10 x 10 mm <sup>2</sup> E: 8 x 16 mm <sup>2</sup> + 10 x 10 mm <sup>2</sup>	Opaque	1	VF122PM
	Wall niche: (H x W x D): 257 x 498 x 72 mm	 2 + <sup>1</sup> / <sub>2</sub>	Transparent	1	VF122TM

Surface mounted distribution box from 1 to 4 rows, from 4 to 72 modules with opaque or transparent door for devices up to 70 mm installation depth, DIN profile for modular devices 47 mm under the cover. Distance between the DIN profiles axis 125 mm. Distribution boards manufactured from fire retardant plastic material. Opaque and transparent doors. Door can be fitted on right or left without dismantling the cover: optional lock with keys. Door opens up to 180°. Enclosure can be installed either way up. Cable entries for cable, conduit and trunking.

## Components included:

- Brass screw-type.
- Pole fillers
- Directly fixed DIN rails to the wall box to have room enough for wiring behind them. Cable tie fixation always possible (except in 4 and 8 Mod. Enclosures)
- Door protected by a plastic film.
- Carton packaging
















VS108



VS212





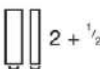

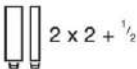

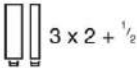

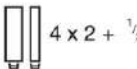

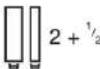
VS412

Description	Brass terminal 	Type of door	Pack.	Ref.
<b>1 row 4</b>  (H x W x D): 184 x 138 x 99 mm	N: 2 x 16 mm <sup>2</sup> + 2 x 10 mm <sup>2</sup> E: 2 x 16 mm <sup>2</sup> + 2 x 10 mm <sup>2</sup>  2 + 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS104PM</b>  <b>VS104TM</b>
<b>1 row 8</b>  (H x W x D): 184 x 210 x 99 mm	N: 2 x 16 mm <sup>2</sup> + 4 x 10 mm <sup>2</sup> E: 2 x 16 mm <sup>2</sup> + 4 x 10 mm <sup>2</sup>  2 + 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS108PM</b>  <b>VS108TM</b>
<b>1 row 12</b>  (H x W x D): 252 x 282 x 99 mm	N: 4 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup> E: 4 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup>  2 + 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS112PM</b>  <b>VS112TM</b>
<b>2 row 24</b>  (H x W x D): 377 x 282 x 99 mm	N: (5 x 16 mm <sup>2</sup> + 6 x 10 mm <sup>2</sup> ) x 2 E: 9 x 16 mm <sup>2</sup> + 13 x 10 mm <sup>2</sup>  2 x 2 + 2 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS212PM</b>  <b>VS212TM</b>
<b>3 row 36</b>  (H x W x D): 500 x 282 x 99 mm	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 E: 1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup>  3 x 2 + 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS312PM</b>  <b>VS312TM</b>
<b>4 row 48</b>  (H x W x D): 647 x 282 x 99 mm	N: (1 x 25 mm <sup>2</sup> + 6 x 16 mm <sup>2</sup> + 7 x 10 mm <sup>2</sup> ) x 3 E: (1 x 25 mm <sup>2</sup> + 10 x 16 mm <sup>2</sup> + 13 x 10 mm <sup>2</sup> ) + (9 x 16 mm <sup>2</sup> + 11 x 10 mm <sup>2</sup> )  4 x 2 + 1/2	<b>Opaque</b>  <b>Transparent</b>	1  1	<b>VS412PM</b>  <b>VS412TM</b>

**Technical data:**

- IP rating:  
IP30 without door  
IP40 with door  
IK07
- Isolation Class II
- White colour RAL 9010
- Rated current:  
for devices up to 63 A
- Rated insulation:  
400 V a.c./50 Hz
- Glow wiring test: 650°C  
according to UNE 60595-2-1

**Standards:** all the products of the offer conform to IEC 60439-3 AENOR<sup>®</sup> Certification according to UNE EN 60439. All products conform to the ROHS and WEEE directives.

	Description	Brass terminal 	Type of door	Pack.	Ref.
 VS218	<b>1 row 18</b> ■ (H x W x D): 257 x 426 x 72 mm	N: 7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> E: 7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> 	<b>Opaque</b>	1	<b>VS118PM</b>
			<b>Transparent</b>	1	<b>VS118TM</b>
 VS218	<b>2 row 36</b> ■ (H x W x D): 377 x 390 x 99 mm	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 E: 1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup> 	<b>Opaque</b>	1	<b>VS218PM</b>
			<b>Transparent</b>	1	<b>VS218TM</b>
 VS318	<b>3 row 54</b> ■ (H x W x D): 500 x 390 x 99 mm	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 2 + (7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> ) E: (1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup> ) + (7 x 16 mm <sup>2</sup> + 9 x 10 mm <sup>2</sup> ) 	<b>Opaque</b>	1	<b>VS318PM</b>
			<b>Transparent</b>	1	<b>VS318TM</b>
 VS418	<b>4 row 72</b> ■ (H x W x D): 647 x 390 x 99 mm	N: (1 x 25 mm <sup>2</sup> + 7 x 16 mm <sup>2</sup> + 8 x 10 mm <sup>2</sup> ) x 4 E: (1 x 25 mm <sup>2</sup> + 14 x 16 mm <sup>2</sup> + 17 x 10 mm <sup>2</sup> ) x 2 	<b>Opaque</b>	1	<b>VS418PM</b>
			<b>Transparent</b>	1	<b>VS418TM</b>
 VS122	<b>1 row 22</b> ■ (H x W x D): 252 x 462 x 99 mm	N: 8 x 16 mm <sup>2</sup> + 10 x 10 mm <sup>2</sup> E: 8 x 16 mm <sup>2</sup> + 10 x 10 mm <sup>2</sup> 	<b>Opaque</b>	1	<b>VS122PM</b>
			<b>Transparent</b>	1	<b>VS122TM</b>





VZ610N



VZ630N



VZ794N



VZ696N



VZ699N



VZ789N



VZ786N



VZ787N

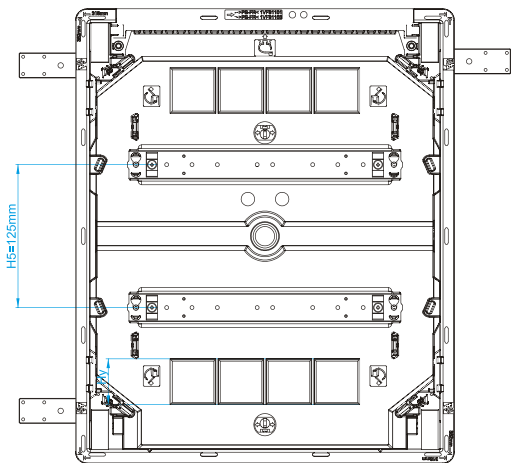
Description	Pack.	Ref.
<b>Opaque doors (Spare parts)</b>		
<b>Doors made of plastic material, RAL 9010</b>		
For the box VF/VS104	1	VZ601N
VF/VS108	1	VZ602N
VF/VS112	1	VZ603N
VF/VS212	1	VZ604N
VF/VS312	1	VZ605N
VF/VS412	1	VZ606N
VF/VS118	1	VZ607N
VF/VS218	1	VZ608N
VF/VS318	1	VZ609N
VF/VS418	1	VZ610N
<b>Transparent doors, (polycarbonate)</b>		
For the box VF/VS104	1	VZ621N
VF/VS108	1	VZ622N
VF/VS112	1	VZ623N
VF/VS212	1	VZ624N
VF/VS312	1	VZ625N
VF/VS412	1	VZ626N
VF/VS118	1	VZ627N
VF/VS218	1	VZ628N
VF/VS318	1	VZ629N
VF/VS418	1	VZ630N
<b>Lock</b>	1	VZ794N
<b>Supplied with 2 keys</b>		
<b>Hollow wall lever set</b>	4 pieces	VZ696N
<b>Cable guides VF/VS</b>	4 pieces	VZ699N
<b>Class II caps VS and horizontal assembly kit</b>	4 pieces	VZ789N
<b>Brick wall fixation brackets</b>	4 pieces	VZ786N
<b>Transparent label holder VF/VS 450 mm</b>	5 pieces	VZ787N
<b>Labelling sticker</b>	10 pieces	VZ788N



## Cable entries

### Top/bottom

One side cable entry slide, knockout-type, (VF104... and VF108... - NO slider).  
The other side pre cuts with diameters 20 mm, 25 mm, 32 mm and 40 mm the wall box is 180° turnable (slider can be placed at top or bottom).

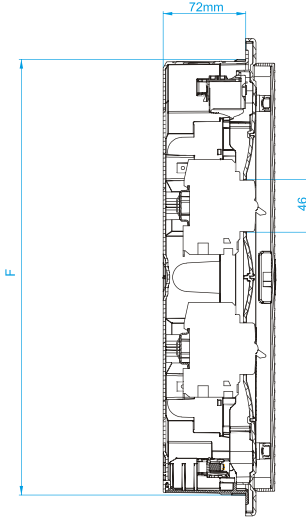
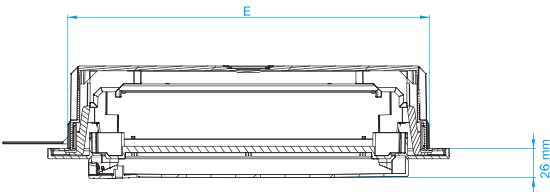
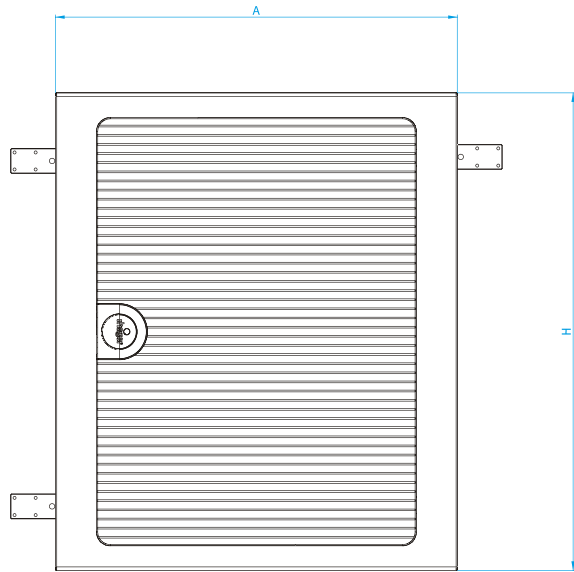


### Side

Each one knockout Ø 25 mm on the left and right in the upper and lower connection space.  
As of 2 rows, knockouts Ø 25 mm on the left and right between the device rows. (no knockouts at 4 and 8 module enclosures).

Ref.		Dimension // mm			
		Frame		Wall niche	
		A	H	E	F
VF104...	1 row 4	204	225	170	189
VF108...	2 row 8	275	225	242	189
VF112...	1 row 12	352	293	318	257
VF212...	2 row 12	352	418	318	382
VF312...	3 row 12	352	543	318	507
VF412...	4 row 12	352	688	318	652
VF118...	1 row 18	460	293	426	257
VF218...	2 row 18	460	418	426	382
VF318...	3 row 18	460	543	426	507
VF418...	4 row 18	460	688	426	652
VF122...	1 row 22	532	293	498	257

For the wall niche, these dimensions are minimal.



For hollow wall,  
the cavity wall section should be:

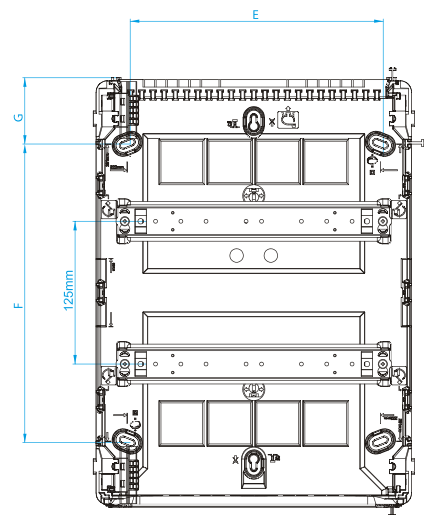
Ref.	E	F
VF104...	170	189
VF108...	242	189
VF112...	318	257
VF212...	318	382
VF312...	318	507
VF412...	318	652
VF118...	426	257
VF218...	426	382
VF318...	426	507
VF418...	426	652
VF122...	498	257

Depth must always be 72 mm min.

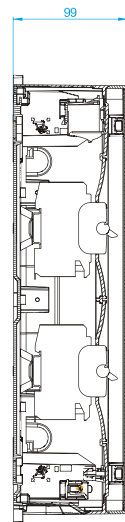
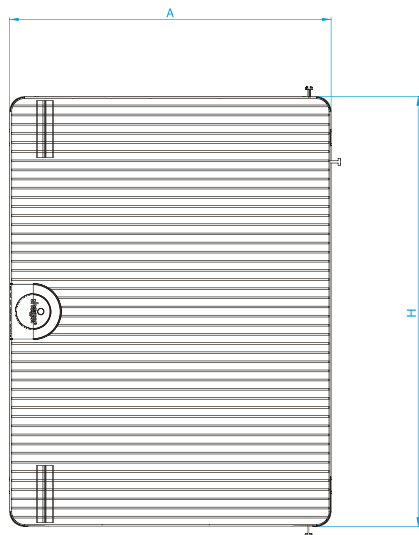
Cable entries

Top/bottom

One side cable entry optimised for use of trunking, knockout-type.  
The other side pre cuts with diameters 20 mm, 25 mm,  
32 mm and 40 mm the wall box is 180° turnable.



Ref.		Dimension		Wall fixation		
		A	H	E	F	G
VS104...	1 row 4	137,5	183,5	101	68	58
VS108...	2 row 8	209,5	183,5	173,5	68	58
VS112...	1 row 12	281,5	251,5	221,5	135,5	58
VS212...	2 row 12	281,5	376,5	221,5	260,5	58
VS312...	3 row 12	281,5	500	221,5	385,5	58
VS412...	4 row 12	281,5	646,5	221,5	491	78
VS118...	1 row 18	389,5	251,5	329,5	135,5	58
VS218...	2 row 18	389,5	376,5	329,5	260,5	58
VS318...	3 row 18	389,5	500	329,5	385,5	58
VS418...	4 row 18	389,5	646,5	329,5	491	78
VS122...	1 row 22	461,5	251,5	401,5	135,5	58



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