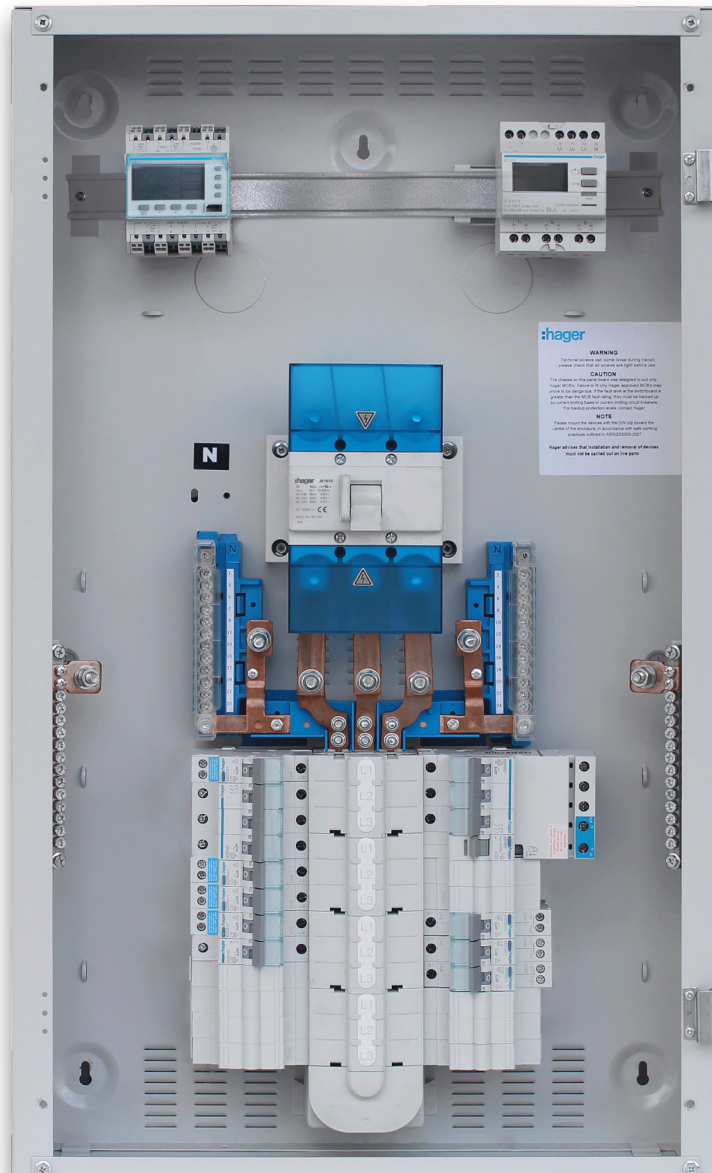


Panelboard Range

Our invicta Panelboards are designed to suit large home, light commercial or retail applications. The range comes fitted with 2 x 8 poles of DIN space and offers split N & E links for ease of cabling, a reversible door and optional MCB incomer link kit. These features make it the benchmark for multi-usage panelboards.



invicta Panelboards	23
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Panelboard Solutions

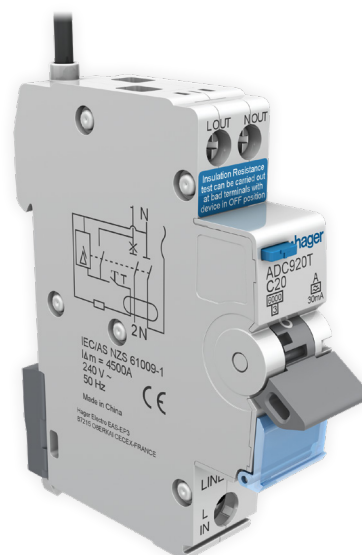
invicta Panelboards



Developed as an optimised solution for small to medium commercial installations and large home projects. Available in 24, 36, 48, 60 and 72 pole.



onekombo ADC9xxT, MSNxxxx, MDNxxxx



Our onekombo RCBO range offers a breaking capacity of 6kA, are type A rated and can be swiftly mounted with all other modular protection devices in invicta panelboards.

Refer to Page 60

Features

- Available in 24, 36, 48, 60 & 72 poles
- 1.2mm tough powdercoated galvanised steel construction
- Powdercoated RAL7035 (light grey)
- IP30
- Complete with either a 160A or 250A main isolator switch prefitted
- Split earth and neutral links for easy cabling
- Fully type tested chassis
- 2 x 8 pole DIN space each side of main incomer
- Lockable door (CL001)
- Safety pole fillers remain with chassis when escutcheon is removed
- Circuit identification card
- Positive MCB alignment system

Technical information: [Page 24](#)

invicta Panelboards

Description	Characteristics	Cat. ref
With 160A main switch	24 pole chassis	JVC2400S16TW
	36 pole chassis	JVC3600S16TW
	48 pole chassis	JVC4800S16TW
	60 pole chassis	JVC6000S16TW
	72 pole chassis	JVC7200S16TW
With 250A main switch	24 pole chassis	JVC2400S25TW
	36 pole chassis	JVC3600S25TW
	48 pole chassis	JVC4800S25TW
	60 pole chassis	JVC6000S25TW
	72 pole chassis	JVC7200S25TW



JVC2400S16TW

Extension Boxes

Description	Characteristics	Cat. ref
Supplied without gland plates. Gland plates only required if mounting as a stand alone.	2 row 18 DIN	JVC0EXTDW



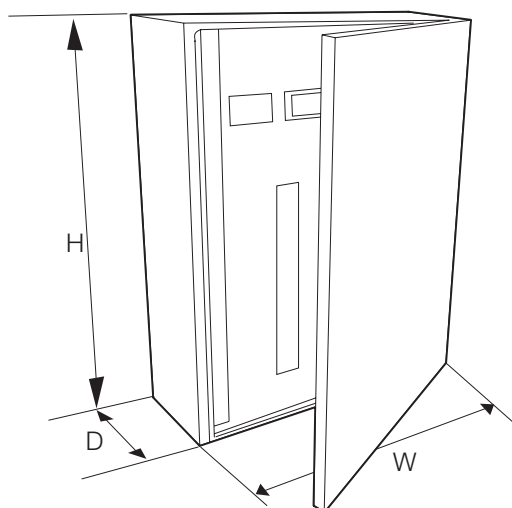
JVC0EXTDW

Accessories

Description	Characteristics	Width	Cat. ref
Incomer link kit	For 3Ø 80-125A MCB	4.5mod	JVC0M12
	For 3Ø up to 63A MCB	3 mod	JVC0M06
MEN kit			JVC0MEN
Gland plates			JVC0GPL
Safety pole fillers (10Pk)			JVC0PFL
1 mod pole fillers (10PK)			JP012
Door lock and key (CL604)			JVCL604
Door lock and key (CL001)			JVC0LCK
Door lock and key (92268)			JVC92268
Spare keys (CL001)	2 keys		JVC0LSK
Document holder			JK2X007AU



JVC0M12



Enclosure dimensions (mm)		H	W	D
invicta	JVC2400xxxTW	800	480	135
panelboard	JVC3600xxxTW	900	480	135
	JVC4800xxxTW	1000	480	135
	JVC6000xxxTW	1128	480	135
	JVC7200xxxTW	1235	480	135
Extension box	JVC0EXTDW	350	480	135

Enclosure

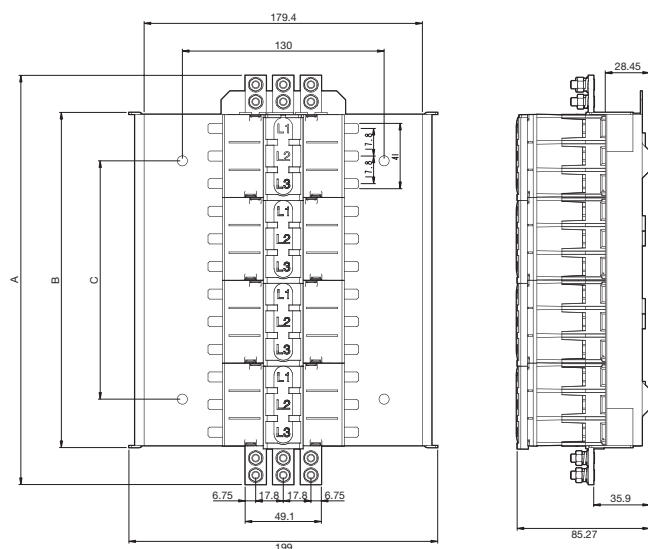
Material	1.2mm galvanised steel
Powdercoat	Ripple finish RAL7035 (light grey)

Mechanical

IP rating	IP30	
Split earth and neutral bars	Earth bars	12mm x 9mm
	Neutral bars	12mm x 9mm
	Single screw tunnel	7mm diameter (25mm ² cable)
	Rating	250A

Connections

Main earth & neutral incomer	M10 bolt (30-44Nm max. torque)
160A isolator	M8 bolt (30-44Nm max. torque)
250A isolator	M8 bolt (30-44Nm max. torque)



Standard chassis

Standard chassis		A	B	C
Dimensions (mm)	JVC2400xxxTW	263.7	216	153.6
	JVC3600xxxTW	370.7	322.8	130.2
	JVC4800xxxTW	477.7	429.6	183.6
	JVC6000xxxTW			
	JVC7200xxxTW			

Chassis Type	Standard Chassis
Compatible product series	MSNxxx and MDNxxx MCBs, 6kA, 6-63A, Type C and ADC9xxT RCBOs, 6kA, 6-32A, Type C, Add-On Block
Rated current (InA)	250A
Rated voltage (Un)	250V
Rated operational Voltage (Ue)	415V, 50Hz
Rated Insulation Voltage (Ui)	690V
Rated Impulse voltage (Uimp)	4kV
Rated short circuit capability	20kA, 0.2sec 40kA, peak
Rated short circuit withstand current of main busbar Icw,	20kA rms, 40kA peak, 200ms
Tee-Off Direction	Left / Right
Split Chassis	No
Tee-Off Isolator	Yes
Capped Tee-Offs	50 %
Split-In Field	No
Number of Poles, 18mm Pitch	From 24 to 48, 18mm Pitch
Output Phases	3P
IP rating	IP2x

invicta panelboard



Optimised solution

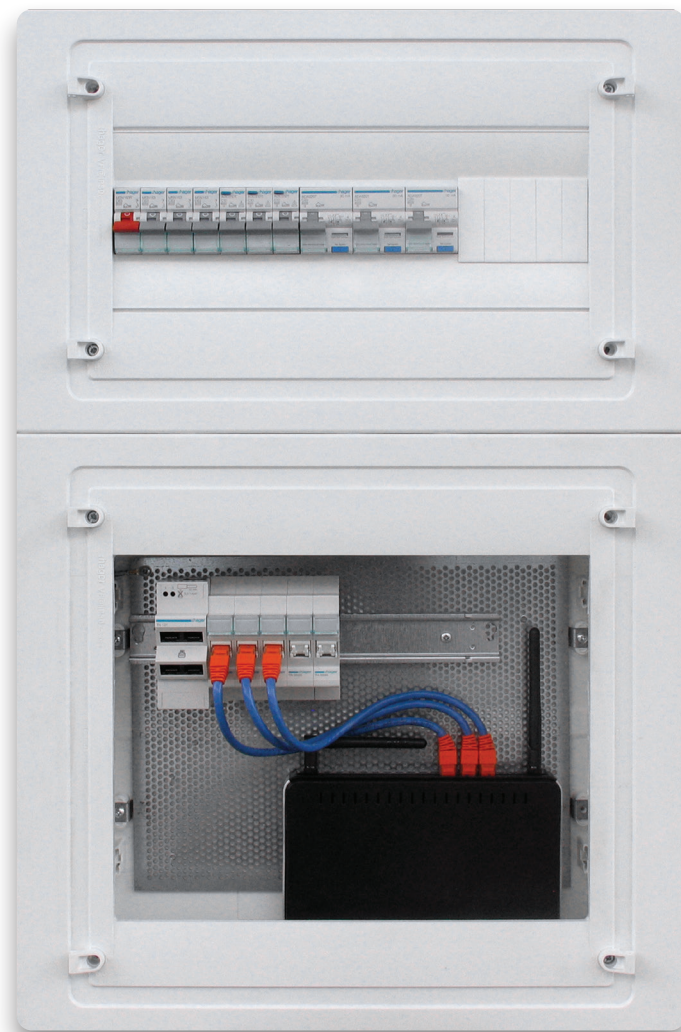
More possibilities

Developed as an optimised solution for small to medium commercial installations and large home projects. invicta is available in 24, 36, 48, 60 and 72 Poles.

For complete protection against touching live parts once energised, safety caps and safety pole fillers (which remain with chassis after the removal of escutcheon) are also provided.

Residential Enclosures and Load Centres

Our Residential Enclosures and Load Centres have been developed with a strong aesthetic integrating unique features as a result of feedback from homeowners, electrical contractors and house builders. There is sure to be a Hager Enclosure to suit your specific application.



Guide to the Residential Enclosure and Load Centre Range	28
VD IP30 Enclosures - Surface Mounted IP30	30
GD Enclosures - Surface Mounted IP30/IP40	31
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vector Enclosures - Surface Mounted IP65	33
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Residential Enclosures and Load Centres



VD IP30 Range
Page 30



GD IP30/IP40 Range
Page 31



VT Range
Page 32



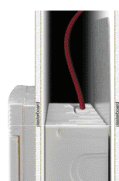
VE IP65 Range
Page 33

No. of Modules	1 - 10	2 - 6	9 - 48	3 - 48
Mounting	Surface	Surface	Surface or Flush	Surface
Material	Plastic	Plastic	1.2mm galvanised steel	UV stabilised plastic
Colour	RAL 9010 (pure white)	RAL 9010 (pure white)	RAL 9002 (grey white)	RAL 7035 (light grey)
IP	IP30	IP30, IP40 with door	IP30w	IP65
Links	Brass links in 8 mod only	Not supplied with enclosure	Brass links	Brass links
Doors	Supplied with enclosure 6 - 8 mod only Opaque or transparent	Not supplied with enclosure	Not supplied with enclosure	Supplied with enclosure Transparent
Spare doors	Not available	Opaque - GP1xxP Transparent - GP1xxT	Opaque only - VT04x VT92263 - VT03x	Transparent
Optional key lock part	VZ313	VZ313	JK1XKLS	VZ311
Additional pole fillers	JP011 - White	JP011 - White	JP010 - Grey	JP010 - Grey

DIN rail enclosures

golf Enclosure Accessories

Pg 36, 38



Earthed metal back plates



Accessories



Enclosure Sliders

References	VFxxBP	Key lock - VZ794N Cable guides - VZ699N Labelling stickers - VZ788N	VZ849N VZ850N VZ852N
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vega D Enclosure Accessories

Pg 41



Key Locks



Schedule Holder



Universal Hybrid Link Terminal Mounting Support

References	FD00S0 FD00S1	FZ794	KN00A
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Gear Tray Module

FD02C2



Cable Management

UZ25V1
UZ25V2
UZ01V1



DIN Rail

UZ02B9

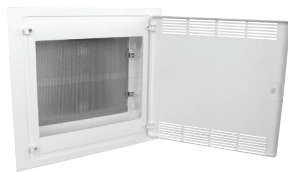


RAL 9010 pole fillers

JP002



golf Range
Page 34



golf Home Networking Range
Page 37



vega D Range
Page 40

4 - 72	12	96 - 168
Surface or Flush	Surface or Flush	Surface or Flush
Plastic	Plastic	Sheet metal and injected plastic combination
RAL 9010 (pure white)	RAL 9010 (pure white)	RAL 9010 (pure white)
IP40	IP40	IP40 with door (flush) IP41 with door (surface)
Brass links Q-Links	Not supplied with enclosure	Brass links
Supplied with enclosure Opaque or transparent	Supplied with enclosure Opaque only	Not supplied with enclosure
Opaque - VZ60/1xN Transparent - VZ62/3xN	Opaque - VZ85xN	Opaque - FDxxPN Transparent - FDxxTN
VZ794N	VZ794N	FD00S0
JP011 - White	Not applicable	JP002 or JP010



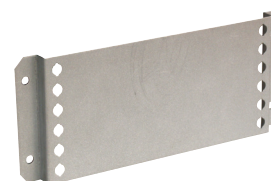
Connectors



Telephone Splitters



Patch Cables



Plates

TN002S TN003S TN010S	TN131 TN111	TN735B	VZ851N
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Enclosure Width Hybrid  Link Terminal Mounting Support



Neutral Hybrid Screw &  Link Terminals



Earth Hybrid Screw &  Link Terminals

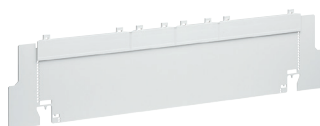


Phase Hybrid Screw &  Link Terminals

FD00Q1	Neutral - KNxxN	Earth - KNxxE	Phase - KNxxP
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Passive Vent Kit



Internal Partitions



External Wall Brackets



Mounting Anchors

FD00P5	FD00A3 FD00A4	FD00F2	VZ405N
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Description

Our VD series offers 1 row plastic covers for 1 to 18 modules.

They are suitable as pole covers and small load centres for devices up to 70mm installation depth with multiple mounting, cable entry positions and stylish design.

Specifications

- IP30, IK07
- Isolation Class II / Double insulated
- Larger size enclosures equipped with plain or transparent door
- Colour: RAL 9010
- Cover fixed by screws
- Suitable for MPD up to 80A - depending on power dissipation loss

Standards

- Compliant to AS/NZS 5112 and AS/NZS 61439-3

Dimension data: [Page 42](#)

DIN rail enclosures



VD102NT



VD104NT

VD Surface Mounted Pole Cover Enclosures without door

Facility to be tampered sealed with wire.

Description	Number of module(s)	Dimensions (mm)	Cat ref.
1 row	1 mod	27.5w x 163.5h x 71d	VD101NT
- plastic DIN rail	2 mod	45.5w x 163.5h x 71d	VD102NT
	3 mod	63.5w x 163.5h x 71d	VD103NT
	4 mod	81.5w x 163.5h x 71d	VD104NT



VD106TT



VD118TT

VD Surface Mounted Enclosures with opaque or transparent door

Description	Number of Module(s)	80A brass terminal	50 60000000 00		Dimensions (mm)	Cat ref.	Cat ref.
			16mm ²	35mm ²		Transparent door	Opaque door
1 row	6 mod	-	-	-	134.5 w x 170h x 91d	VD106TT	VD106PT
	8 mod	Neutral	8	1	170.5w x 170h x 91d	VD108TT	VD108PT
		Earth	6	1			
	10 mod	Neutral	10	2	206.5 w x 170h x 91d	VD110TT	VD110PT
		Earth	7	2			
	12 mod	Neutral	13	4	292.5w x 200h x 91d	VD112TT	VD112PT
		Earth	7	2			
	18 mod	Neutral	20	4	400w x 200h x 91d	VD118TT	VD118PT
		Earth	10	2			



JP011

VD Enclosure Accessories

Description	Cat ref.
Door locking kit with 2 keys - 61005	VZ313
Spare key - 61005	VZ312
Pole filler set - White - 5pk 0.5 mod	JP011
2x brass terminals set - 3 x 35mm ² + 7x16mm Brass terminals suitable for VD enclosures with door	2AR904AU

Description

Our GD series offers 1 row insulated enclosures for 2, 4 and 6 modules.

They offer generous wiring space on top, bottom and the sides with an extensive choice of mounting positions. Constructed of durable 100% recyclable and insulated plastic. Available empty or loaded.

Specifications

- Facility for cover to be sealed
- Cover fixed by quarter turn screws
- IP30 without door installation
- IP40 with a door installed
- IK05
- Suitable for MPD up to 63A - depending on power dissipation loss
- Marking strip clips on escutcheon
- Isolation Class II / Double insulated

Options:

- Opaque or transparent doors
- Key lock
- Pole fillers - JP011

Standards

- Compliant to AS/NZS 61439-3

Dimension data: [Page 43](#)

GD Surface Mounted Pole Cover Enclosures without door

Description	Number of module(s)	Dimensions (mm)	Cat ref.
1 row	2 mod	55w x 160h x 94d	GD102T
	4 mod	110w x 180h x 94d	GD104T
	6 mod	148w x 180h x 94d	GD106T



GD104T

Doors for GD Surface Mounted Pole Cover Enclosures

To suit	Cat ref. Transparent door	Cat ref. Opaque door
GD102T	GP102T	GP102P
GD104T	GP104T	GP104P
GD106T	GP106T	GP106P



GP106P

GD Enclosure suitable for Meter Panels

Description	Number of rows and module(s)	Dimensions (mm)	Cat ref.
Plastic sub-board to mount to black meter panel. - DIN rail and no back plate	1 row, 10 mod (Expandable to 12)	250w x 140h x 65d	GD10T



GD10T

GD Enclosure Accessories

Description	Cat ref.
Locking kit with 2 keys - 61005 - Also suits GD1xxT above	VZ313
Spare key - 61005 - fits VZ313	VZ312
Pole filler set - RAL 9010 - 0.5 module wide	JP011
Cover strip, universal, 18 modules wide	JP015
2x brass terminals set - 3 x 35mm ² + 7x16mm ²	2AR904AU



VZ313



2AR904AU

Description

Our VT series are surface or flush mounted enclosures with 1 to 4 rows, allowing for 9 to 12 modules in total.

They are designed for indoor or sheltered applications that require a robust construction.

Specification

- 150mm between DIN rails
- 1.2mm tough powdercoated galvanised steel construction
- Powdercoated RAL 9002 (light grey)
- IP30 without door
- IP40 with door
- Suitable for MPD up to 100A, depending on power dissipation loss

Supplied with

- Neutral and Earth links
- circuit ID labels
- 10 x grey pole fillers

Standards

- Complies with AS/NZS 61439-3, AS/NZS 3012 and AS/NZS 5112

Accessories

- Not compatible with Hager Vertical Busbars (KCL)

Dimension data: [Page 44](#)



VT12S



VT18S



VT09TP

VT Surface and Flush Mounted Enclosures

Number of rows and module(s)	100A brass terminal	100A brass terminal		Dimensions (mm)	Cat ref. Surface	Cat ref. Flush
		4mm ² - 16mm ²	16mm ² - 25mm ²			
1 row, 9 mod	Neutral	9	3	260w x 260h x 70d	VT09S	
	Earth	5	3	305w x 295h x 10d		VT09F
1 row, 12 mod	Neutral	12	3	310w x 260h x 70d	VT12S	
	Earth	6	3	355w x 305h x 10d		VT12F
1 row, 18 mod	Neutral	18	3	417w x 260h x 70d	VT18S	
	Earth	9	3	462w x 305h x 10d		VT18F
2 rows of 12 24 mod total	Neutral	24	3	370w x 420h x 70d	VT24S	
	Earth	12	3	415w x 460h x 10d		VT24F
3 rows of 12 36 mod total	Neutral	36	3	370w x 610h x 70d	VT36S	
	Earth	18	3	415w x 655h x 10d		VT36F
4 rows of 12 48 mod total	Neutral	48	3	465w x 750h x 70d	VT48S	
	Earth	24	3	510w x 795h x 10d		VT48F
1 row of 9 mod with 7.5 mod lock cover	Neutral	9	3	259w x 250h x 71d	VT09TP	
	Earth	5	3			
1 row of 12 mod with 10.5 mod lock cover	Neutral	12	3	309w x 259h x 71d	VT12TP	
	Earth	6	3			

VT Enclosure Accessories

Description	Characteristics	Cat ref.
Top hinged doors with easy knockout for CL001 lock	To suit VT09S, VT09F	VT031
	To suit VT12S, VT12F	VT032
	To suit VT18S, VT18F	VT033
Side hinged doors with easy knockout for CL001 lock	To suit VT24S, VT24F	VT034
	To suit VT36S, VT36F	VT035
	To suit VT48S, VT48F	VT036
Top hinged doors with easy knockout for additional lock	To suit VT09S, VT09F	VT041
	To suit VT12S, VT12F	VT042
	To suit VT18S, VT18F	VT043
Side hinged doors with easy knockout for additional lock	To suit VT24S, VT24F	VT044
	To suit VT36S, VT36F	VT045
	To suit VT48S, VT48F	VT046
Optional extra - key lock suits all VT series doors - with 2 keys - 2333		JK1XKLS
Pole filler set - Grey - 5pk 5.5 mod		JP010
Pole filler set - White - 5pk 0.5 mod		JP011
92268 lock for VT03x doors		VT92268



VT041

Description

Our vector series are IP65 surface mounted enclosures with 1 to 4 rows, allowing for 3 to 48 modules in total.

They come with adjustable DIN rail depth for shoulder measurement 47mm and 63mm. Supplied with a reversible, transparent, hinged door.

Specification

- UV resistant
- RAL 7035 (light grey)
- IP65
- IK07 < 12mod, IK08 ≥ 12 mod
- Isolation class II / Double Insulated
- 125mm between DIN rails in 12mod
- 150mm between DIN rails in 18 mod
- VE103H and VE106H suitable for MPDs up to 63A. Other models suitable for 80A.

Supplied with

- Links, 12 modules (KDN180A) or 18 modules (KDN180G) 80A busbar (except for VE103H) and circuit ID labels
- Premarked knock outs for bushes or cable glands M20, M25, M32, M40 and M50
- Two lateral knockouts for cable entry
- Sealable cover and optional locking facilities

Standards

- Complies with AS/NZS 61439-3
- Neutral and Earth links comply with AS/NZS 5112

Accessories

- Hager Vertical busbar (KCL) only compatible with 12 pole version

Dimension data: [Page 45](#)

KCL Vertical Busbar

Compatibility chart: [Page 49](#)

vector VE Enclosures with transparent door

Number of rows and module(s)	80A brass terminal	16mm ² 35mm ²		Busbar	Dimensions (mm)	Cat ref.
		16mm ²	35mm ²			
1 row, 2 mod + 1 moulded blank		-	-	0	111w x 175h x 93d	VE103H
1 row, 4 mod + 2 moulded blanks	Neutral	6	1	1	165w x 190h x 113d	VE106H
	Earth	4	1			
1 row, 8 mod + 2 moulded blanks	Neutral	11	3	1	237w x 210h x 114d	VE110H
	Earth	7	2			
1 row, 12 mod	Neutral	12	6	1	310w x 302h x 151d	VE112H
	Earth	6	2			
1 row, 18 mod	Neutral	18	6	1	418w x 302h x 151d	VE118H
	Earth	10	2			
2 rows of 12, 24 mod total	Neutral	24	8	2	310w x 427h x 151d	VE212H
	Earth	21	1			
2 rows of 18, 36 mod total	Neutral	36	8	2	418w x 452h x 151d	VE218H
	Earth	30	2			
3 rows of 12, 36 mod total	Neutral	37	7	3	310w x 552h x 151d	VE312H
	Earth	31	1			
3 rows of 18, 54 mod total	Neutral	48	8	3	418w x 602h x 151d	VE318H
	Earth	30	2			
4 rows of 12, 48 mod total	Neutral	42	5	4	310w x 677h x 151d	VE412H
	Earth	30	2			



VE112H



VE212H



VE312H

vector VE Enclosure Accessories

Description	Cat ref.
Key lock - supplied with 2 keys - 61005	VZ311
Pole filler set - Grey - 5pk 5.5 mod	JP010
2x brass terminals set - 7 x 16mm ² + 3 x 35mm ²	2AR904AU
Connector - 35mm ² cable adaptor for main neutral link	KM035



VZ011



VZ311

Description

The golf VS are surface mounted enclosures with 1 to 2 rows, allowing for 4 to 36 modules in total and supplied with an opaque or transparent door.

Suitable for all Hager Modular Circuit Protection and for devices up to 70mm installation depth. Door can be fitted on right or left, optional lock and keys. Door opens up to 180°. 125mm between DIN rails.

Supplied with

- Earth & Neutral terminals
- Pole fillers
- Adhesive Circuit identification labels
- Cable management clips
- Supplied with protection film
- 12 modules (KDN180A) or 18 modules (KDN180G) busbar supplied with most references.

Technical data

- IP30 without door
- IP40 with door
- IK07
- Isolation Class II / Double insulated
- Colour RAL 9010: white
- Brass terminals $I_n \leq 80A$
- Rated insulation voltage: 400V AC/50Hz

Standards

- All golf products conform to AS/NZS 61439-3.
- N&E brass terminals comply to AS/NZS 5112.

Technical information: [Page 46](#)

KCL Vertical Busbar

Compatibility chart: [Page 49](#)

DIN rail enclosures



VS118PT



VS218PT

VS Surface Mount golf Enclosure with brass terminals 4 - 72 Modules

Number of rows and module(s)	Single phase busbar supplied:	80A brass terminal			Dimensions (mm)	Cat ref. Opaque Door
			16mm²	35mm²		
1 row, 4 mod	None	Neutral	4	1	138w x 184h x 99d	VS104PT
		Earth	3	1		
1 row, 8 mod	None	Neutral	8	1	210w x 184h x 99d	VS108PT
		Earth	4	1		
1 row, 12 mod	1 x 12 pole	Neutral	12	6	282w x 252h x 99d	VS112PT
		Earth	6	2		
1 row, 18 mod	1 x 18 pole	Neutral	18	6	390w x 252h x 99d	VS118PT
		Earth	10	2		
2 rows of 12, 24 mod total	2 x 12 pole	Neutral	24	8	282w x 377h x 99d	VS212PT
		Earth	21	1		
2 rows of 18 36 mod total	2 x 18 pole	Neutral	35	8	390w x 377h x 99d	VS218PT
		Earth	30	2		
3 rows of 12 36 mod total	3 x 12 pole	Neutral	37	7	282w x 500h x 99d	VS312PT
		Earth	31	1		
3 rows of 18 54 mod total	3 x 18 pole	Neutral	56	8	390w x 500h x 99d	VS318PT
		Earth	30	2		
4 rows of 12, 48 mod total	4 x 12 pole	Neutral	42	5	282w x 647h x 99d	VS412PT
		Earth	30	2		
4 rows of 18 72 mod total	4 x 18 pole	Neutral	65	10	390w x 647h x 99d	VS418PT
		Earth	44	4		

Description

The golf VF are flush mounted enclosures with 1 to 4 rows, allowing for 4 to 72 modules in total and supplied with an opaque or transparent door.

Suitable for all Hager Modular Circuit Protection and for devices up to 70mm installation depth. Door can be fitted on right or left, optional lock and keys. Door opens up to 180°. 125mm between DIN rails.

Supplied with

- Earth & neutral terminals
- Pole fillers
- Patented marking system and cable management clips in enclosures > 36 modules
- Supplied with protection film
- 12 modules (KDN180A) or 18 modules (KDN180G) busbar supplied with most references.

Technical data

- IP30 without door
IP40 with door
- IK07
- Isolation Class II / Double insulated
- Colour RAL 9010: white
- Brass terminals In ≤ 80A
- Rated insulation voltage: 400V AC/50Hz

Standards

- All golf products conform to AS/NZS 61439-3.
- N&E brass terminals comply to AS/NZS 5112.

Technical information: [Page 47](#)
KCL Vertical Busbar
Compability chart: [Page 49](#)

VF Flush Mount golf Enclosure with 80A brass terminals 4 - 72 Modules

Number of rows and module(s)	Single phase busbar supplied:	80A brass terminal	16mm ² 35mm ²		Dimensions (mm)	Cat ref. Opaque Door
			16mm ²	35mm ²		
1 row, 4 mod	None	Neutral	4	1	204w x 225h x 72d	VF104PT
		Earth	3	1		
1 row, 8 mod	None	Neutral	8	1	275w x 225h x 72d	VF108PT
		Earth	4	1		
1 row, 12 mod	1 x 12 pole	Neutral	12	6	352w x 293h x 72d	VF112PT
		Earth	6	2		
1 row, 18 mod	1 x 18 pole	Neutral	18	6	460w x 293h x 72d	VF118PT
		Earth	10	2		
2 rows of 12, 24 mod total	2 x 12 pole	Neutral	24	8	352w x 418h x 72d	VF212PT
		Earth	21	1		
2 rows of 18 36 mod total	2 x 18 pole	Neutral	35	8	460w x 418h x 72d	VF218PT
		Earth	30	2		
3 rows of 12 36 mod total	3 x 12 pole	Neutral	37	7	352w x 543h x 72d	VF312PT
		Earth	31	1		
3 rows of 18 54 mod total	3 x 18 pole	Neutral	56	8	460w x 543h x 72d	VF318PT
		Earth	30	2		
4 rows of 12, 48 mod total	4 x 12 pole	Neutral	42	5	352w x 688h x 72d	VF412PT
		Earth	30	2		
4 rows of 18 72 mod total	4 x 18 pole	Neutral	65	10	460w x 688h x 72d	VF418PT
		Earth	44	4		



VF112PT



VF218PT

DIN rail enclosures

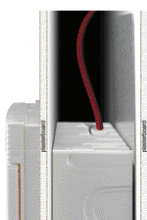
Description

golf Enclosure Accessories includes an extensive range, from cable retainers to hollow wall anchors, keys, locks and doors. Every feature is conceived to save time and simplify installation.

Earthed metal back plate

dimensions: [Page 47](#)

DIN rail enclosures



Earthed Metal Back Plate for golf VF

Provides mechanical protection of cables

To suit	Pack	Cat ref.
VF112	1	VF112BP
VF118	1	VF118BP
VF212	1	VF212BP
VF218	1	VF218BP
VF312	1	VF312BP
VF318	1	VF318BP
VF412	1	VF412BP
VF418	1	VF418BP



VZ794N



VZ699N



2AR904AU

golf VF/VS Accessories

Description	Pack	Cat ref.
Pole filler set - Grey - 5pk 5.5 mod		JP010
Pole filler set - White - 5pk 0.5 mod		JP011
Cover strip, universal, 18 modules wide		JP015
Key lock supplied with 2 keys - 61005	1	VZ794N
Cable guides VF/VS	1	VZ699N
White adhesive labeling strip - 10 pieces 31mm high, 369mm long	1	VZ788N
Hollow wall anchors (prawn clips) - suit VF adhesive enclosures (Set of 4) For plaster walls from 7 to 30mm thickness	1	VZ696N
2x brass terminals set 7 x 16mm ² + 3 x 35mm ²	1	2AR904AU
Kit with 4 plastic screws for golf cover surface mount	1	VZ862N
Kit with 12 metal screws for golf cover flush mount	1	VZ790N
Connector - 35mm ² cable adaptor for main neutral link	1	KM035



VZ610N



VZ630N

Doors

Description	Cat ref. Opaque door	Cat ref. Transp. door
VF/VS104	VZ601N	VZ621N
VF/VS108	VZ602N	VZ622N
VF/VS112	VZ603N	VZ623N
VF/VS212	VZ604N	VZ624N
VF/VS312	VZ605N	VZ625N
VF/VS412	VZ606N	VZ626N
VF/VS118	VZ607N	VZ627N
VF/VS218	VZ608N	VZ628N
VF/VS318	VZ609N	VZ629N
VF/VS418	VZ610N	VZ630N

Description

Our golf Home Networking Enclosures allow you to combine Mains Distribution Boards with home networking or as a stand alone enclosure.

VS Surface and VF Flush mount available.

Features

- 18 pole wide enclosures
- Steel mounting pan
- Vented door
- DIN rail (12 mods wide)
- Reversible door
- Suitable and complaint to NBN requirements for NTD and BBPSU

VF Flush mount only features

- Vertical double outlet
- Slider (incorporates power outlet mounting block)

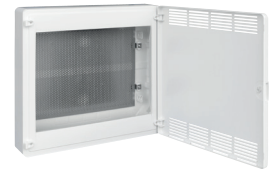
NOTE: Double sliders for use with 18 module wide VF flush enclosures only.

Technical information:

Surface mount [Page 46](#)
Flush mount [Page 47](#)

VS Surface Mount Enclosures

Description	Number of rows and module(s)	Dimensions (mm)	Cat ref.
Surface enclosure with	1 x row of 12 (optional)	390w x 252h x 99d	VS218PZD
- Vented door		390w x 500h x 99d	VS318PZD
- Mounting pan		390w x 647h x 99d	VS418PZD
- DIN rail (not fitted)			



VS218PZD

VF Flush Mount Enclosures

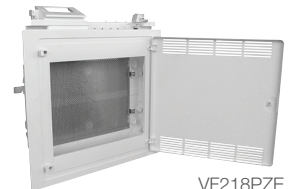
Description	Number of rows and module(s)	Dimensions (mm)	Cat ref.
Flush enclosure with:	1 x row of 12	460w x 418h x 72d	VF218PZD
- Vented door		460w x 543h x 72d	VF318PZD
- Pre installed vertical twin socket		460w x 688h x 72d	VF418PZD
- Mounting pan			
- DIN rail			
- Single slider			



VF218PZD

VF Flush Mount Extension Box

Description	Number of rows and module(s)	Dimensions (mm)	Cat ref.
Flush enclosure with:	1 x row of 12	460w x 418h x 72d	VF218PZE
- Reversible vented door			
- Mounting pan			
- Pre installed vertical twin socket			
- DIN rail			
- Double slider (VZ850N) for combining and extending any other VFx18 golf enclosure			



VF218PZE

Sliders & Accessories

Hager Sliders are designed to allow installers to modify or join flush mount, 18 module wide, golf enclosures to have a double power outlet.

Description	Suits	Cat ref.
Single slider	VFx18	VZ852N
- Provides mounting point for a double outlet		
- Can be installed top or bottom of enclosure		
Double hybrid slider	VFx18	VZ849N
- Used to combine LV and home networking / VDI, double insulated, includes isolation plate		
- Supports 1x double outlet and 1x terminal bar on opposite sides		
Double slider	VFx18	VZ850N
- Used to combine two Home Networking / VDI enclosures		
- Mounting point for 2x double outlet (1x socket outlet in each enclosure)		
Spare isolation plate for double sliders	VZ850N	VZ851N
- between low voltage and extra low voltage		
- between main distribution board and home networking enclosure		



VZ852N



VZ849N



VZ850N



VZ851N

Description

The components that come supplied as standard within the Hager TN network enclosures are also available separately.

Patching modules in Cat6 and Cat6 shielded, F-type modules, telephone splitters and other accessories are available.

The TN003S and TN002S Cat6 UTP and STP patch modules provide a toolless wiring system (no punch down required) with positive cable retention ensuring every cable remains in place and stays connected.

The TN111 2 in 8 out telephone splitter can be bridged to give a 1 in 8 out configuration if required.

DIN rail enclosures



TN010S

TN002S



TN131



TN735B

General accessories

Description	Characteristics	Cat ref.
Connectors	RJ45 Cat 6 shielded patch modules	TN002S
	RJ45 Cat 6 unshielded patch modules	TN003S
	Coax F/F module	TN010S
RJ45 splitter	1 RJ45 input / 4 RJ45 output	TN131
	2 RJ45 input / 8 RJ45 output	TN111
Din rail	Din rail to suit golf 12 pole / module length	VZ854N
Patch cable	RJ45 Cat 6 patch cable 0.5m	TN735B
Segregation Plate	for VZ850N	VZ851N
Replacement doors	for VS/VF218	VZ855N
	for VS/VF318	VZ856N
	for VS/VF418	VZ857N
Key lock supplied with 2 keys	61005 for golf enclosure	VZ794N



Description

Our vega D series offers surface or flush mounted enclosures with 4 to 7 rows, allowing for 96 to 168 modules in total.

They combine sheet metal and injected plastic to achieve a light yet strong double insulated enclosure perfect for commercial installations or smart homes.

Features

- 150mm between DIN rails
- IP30 / IK07 without door
- IP40 / IK08 with door - flush
- IP41 / IK08 with door - surface
- Removable chassis with DIN rails for ease of installation.
- Powder coated metal exterior
- Pole fillers
- Cable brackets on each DIN rail
- Marking strips / label holders

Standards

Compliant to AS/NZS 5112 and AS/NZS 61439-3.

Supplied with Hybrid Q-link Earth links only. Additional Neutral or Phase Hybrid Q-links must be ordered separately.

Accessories

- Not compatible with Hager Vertical Busbars (KCL)

Dimension data: [Page 48](#)

DIN rail enclosures



FD42DN



FD72DN

vega D FD surface and FU flush enclosures without doors

Description	Number of rows and module(s)	Dimensions (mm)	Cat ref. Surface	Cat ref. Flush
Supplied with: 1 x terminal mount (FD00Q1)	4 rows of 24, 96 mod total	750h x 550w x 193d	FD42DN	
1 x Q-link Earth - (KN22E)		837h x 550w x 150d		FU42DN
1 x Q-link Earth - (KN26E)	5 rows of 24, 120 mod total	900h x 550w x 193d	FD52DN	
		987h x 550w x 150d		FU52DN
Supplied with: 2 x terminal mounts (FD00Q1)	6 rows of 24, 144 mod total	1050h x 550w x 193d	FD62DN	
3 x Q-link Earth - (KN26E)		1137h x 550w x 150d		FU62DN
	7 rows of 24, 168 mod total	1200h x 550w x 193d	FD72DN	
		1287h x 550w x 150d		FU72DN

vega D transparent doors



FD52TN

Description	Characteristics	Cat ref.
Reversible, suitable for FD surface and FU flush enclosures. Sheet metal and powder coated, c/w 3mm hardened glass.	To suit FD42DN or FU42DN	FD42TN
	To suit FD52DN or FU52DN	FD52TN
	To suit FD62DN or FU62DN	FD62TN
Inclusion of door improves isolation class to IP41.	To suit FD72DN or FU72DN	FD72TN

vega D plain doors



FD52PN

Description	Characteristics	Cat ref.
Reversible, suitable for FD surface and FU flush enclosures. Sheet metal and powder coated.	To suit FD42DN or FU42DN	FD42PN
	To suit FD52DN or FU52DN	FD52PN
	To suit FD62DN or FU62DN	FD62PN
Inclusion of door improves isolation class to IP41.	To suit FD72DN or FU72DN	FD72PN

Accessories

Description	Characteristics	Cat ref.
Standard vega D door latch	Standard rotary latch, can be sealed with max Ø1.5mm wire	FD00S0
vega D keyed lock	Used to upgrade the standard latch to lock and key. Key No.1242E	FD00S1
Circuit schedule holder	To suit A4 sized document	FZ794
Black universal support to mount Q-Link terminal blocks	Can mount a combination of up to 6 modules wide Q Link terminals	KN00A
Enclosure width support to mount Hybrid Q-Link terminal blocks	Can mount a combination of up to 24 mod* wide KN Hybrid Q-Link terminals	FD00Q1
Neutral Hybrid Q-Link terminal blocks 63A (Blue)	2 x 25mm ² (screw) + 8 x 4mm ² (Q Link) terminal	2.5 mod* wide KN10N
	3 x 25mm ² (screw) + 11 x 4mm ² (Q Link) terminal	3.5 mod* wide KN14N
	4 x 25mm ² (screw) + 14 x 4mm ² (Q Link) terminal	4 mod* wide KN18N
	5 x 25mm ² (screw) + 17 x 4mm ² (Q Link) terminal	5 mod* wide KN22N
	6 x 25mm ² (screw) + 20 x 4mm ² (Q Link) terminal	6 mod* wide KN26N
	Blue bridging clip x 10	KN99N
Earth Hybrid Q-Link terminal blocks 63A (Green)	2 x 25mm ² (screw) + 8 x 4mm ² (Q Link) terminal	2.5 mod* wide KN10E
	3 x 25mm ² (screw) + 11 x 4mm ² (Q Link) terminal	3.5 mod* wide KN14E
	4 x 25mm ² (screw) + 14 x 4mm ² (Q Link) terminal	4 mod* wide KN18E
	5 x 25mm ² (screw) + 17 x 4mm ² (Q Link) terminal	5 mod* wide KN22E
	6 x 25mm ² (screw) + 20 x 4mm ² (Q Link) terminal	6 mod* wide KN26E
	Green bridging clip x 10	KN99E
Phase Hybrid Q-Link terminal blocks 63A (Red)	2 x 25mm ² (screw) + 8 x 4mm ² (Q Link) terminal	2.5 mod* wide KN10P
	3 x 25mm ² (screw) + 11 x 4mm ² (Q Link) terminal	3.5 mod* wide KN14P
	4 x 25mm ² (screw) + 14 x 4mm ² (Q Link) terminal	4 mod* wide KN18P
	5 x 25mm ² (screw) + 17 x 4mm ² (Q Link) terminal	5 mod* wide KN22P
	6 x 25mm ² (screw) + 20 x 4mm ² (Q Link) terminal	6 mod* wide KN26P
	Red bridging clip x 10	KN99P
Modular Neutral connecting block 125A	To connect the main neutral cable up to 50mm ² when the enclosure is utilised for low voltage installation.	KRN199
Gear tray module with perforated plate 370 x 290mm to fit non modular device	415mm x 235mm (Not suitable for FU flush enclosures)	FD02C2
Cable management retainer to hide cables below DIN rail	(x20) large (Not suitable for FU flush enclosures)	UZ25V1
	(x20) small	UZ25V2
Retainer support / extension arms	(x20)	UZ01V1
DIN rail to suit vega D	(x2)	UZ02B9
24 pole filler / cover strip	1 strip - 24 modules wide Width 430mm, Height 54mm - to suit 46mm slot Colour: RAL 9010	JP002
Passive vent kit (changes IP41 to IP30)	Pair	FD00P5
Internal partition IP2X for physical separation between higher and lower voltage / current	For FD surface enclosure	FD00A3
	For FU flush enclosure	FD00A5
External wall mount brackets	To fix FD surface enclosures	FD00F2
Mounting anchors (x4) to suit FU flush enclosures	For plaster walls from 7 to 30mm thickness	VZ405N
Frame mounting screws - plastic (x4)	For vega D FU flush and FD surface enclosures	ZZ42BS



FZ794



KN00A



FD00Q1



KN10N, KN10E, KN10P



FD02C2



UZ25V1

UZ25V2



UZ02B9



JP002



FD00P5



FD00A3

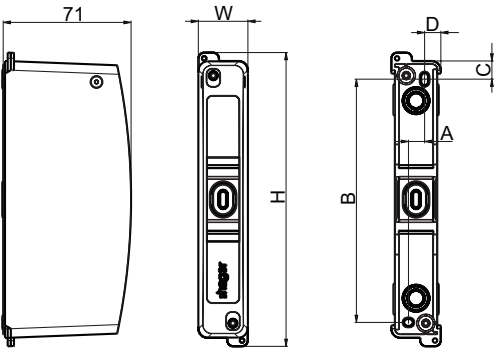


FD00F2



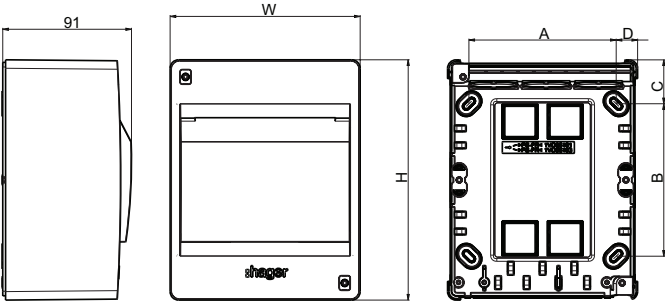
VZ405N

1 to 4 pole VD Enclosures



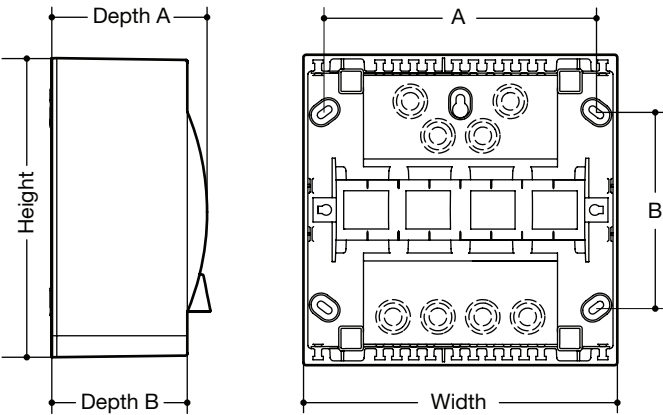
Refs	Width	Height	A	B	C	D
VD101NT	27.5	163.5	9	135.5	10	9
VD102NT	45.5	163.5	26	135.5	10	9
VD103NT	63.5	163.5	35.5	126	12.5	15
VD104NT	81.5	163.5	52.7	125	13	16

6 to 10 pole VD Enclosures



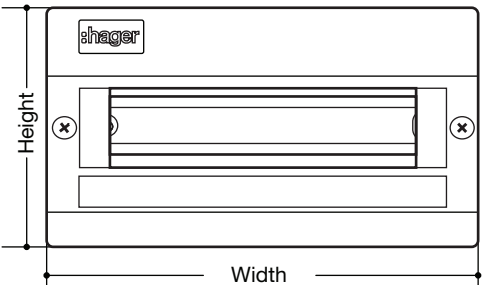
Refs	Width	Height	A	B	C	D
VD106NT	134.5	170	104	108	31	15
VD108NT	170.5	170	139.5	107	31.5	15.5
VD110NT	206.5	170	176	107	32	15
VD112NT	292.5	200	262.5	137	32	15
VD118NT	400	200	371.5	131.5	34	14.5

2 to 6 mod wide GD Enclosures



Refs	Dimensions (mm)				Fixing centres	
	Width	Height	Depth A	Depth B	A	B
GD102T	55	160	94	82	N/A	N/A
GD104T	110	180	94	82	86	114
GD106T	148	180	94	82	122	114

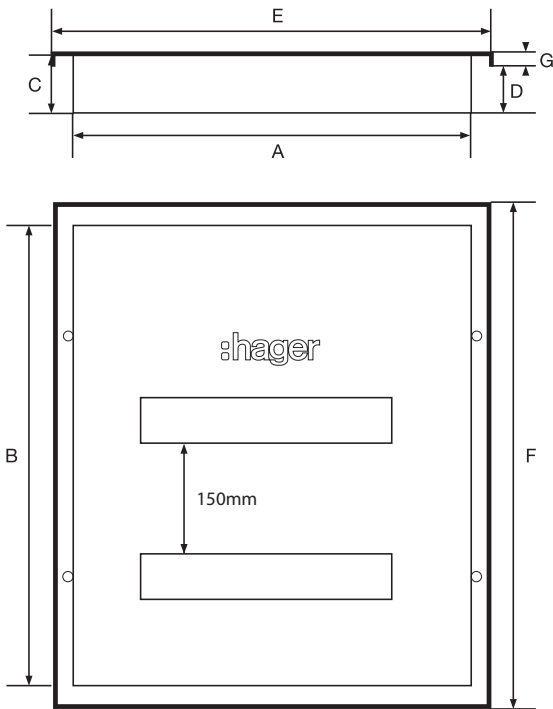
GD10T Enclosures



Refs	Dimensions (mm)		
	Width	Height	Depth
GD10T	250	140	65

DIN rail
enclosures

DIN rail
enclosures

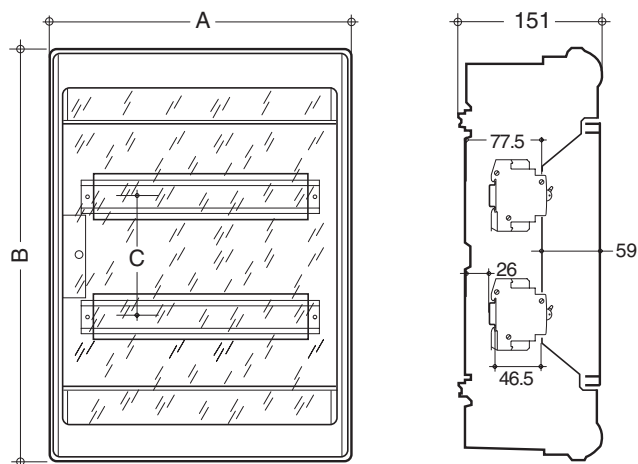


VT Flush Enclosures

Refs	Row	Enclosure sizes (Cut-out)			Escutcheon		
		Width	Height	Recess	Width	Height	Depth
		A	B	D	E	F	G
VT09F	1	255	245	60	305	295	10
VT12F	1	305	255	60	355	305	10
VT18F	1	410	255	60	462	305	10
VT24F	2	360	415	60	415	460	10
VT36F	3	360	605	60	415	655	10
VT48F	4	460	745	60	510	795	10

VT Surface Enclosures

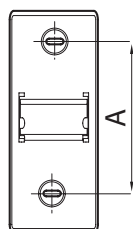
Refs	Row	Enclosure sizes		
		Width	Height	Depth
		A	B	C
VT09S	1	260	260	70
VT12S	1	310	260	70
VT18S	1	417	260	70
VT24S	2	370	420	70
VT36S	3	370	610	70
VT48S	4	465	750	70



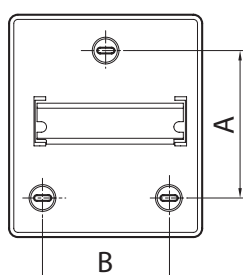
vector Enclosures

References	Width	Height	Between DIN
	A	B	C
VE103	111	175	N/A
VE106	165	190	N/A
VE110	237	210	N/A
VE112	310	302	N/A
VE118	418	302	N/A
VE212	310	427	125
VE218	418	452	150
VE312	310	552	125
VE318	418	602	150
VE412	310	677	125

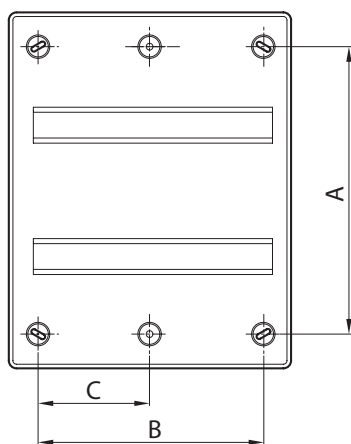
VE103



VE106 - VE110



VE112 - VE318

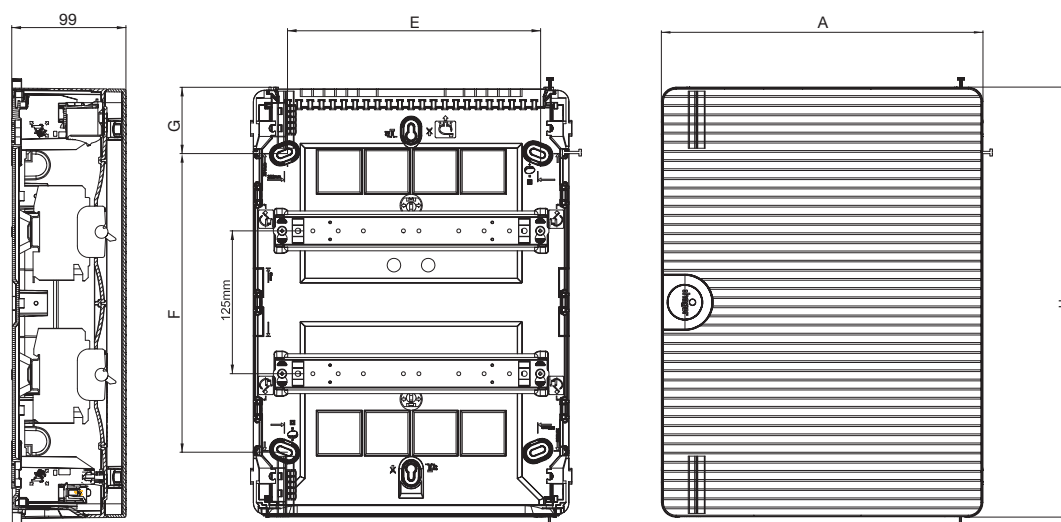


Mounting holes

	Fixing centres		
	A	B	C
VE103	120	N/A	N/A
VE106	126	108	N/A
VE110	136	180	N/A
VE112	155	230	115
VE212	280	230	115
VE312	405	230	115
VE412	530	230	115
VE118	155	338	169
VE218	305	338	169
VE318	455	338	169

Uniform enclosure dimensions across the golf VS range

The dimensions below are for all golf VS / surface mount enclosures, including the golf home networking VS / surface mount enclosures



DIN rail enclosures

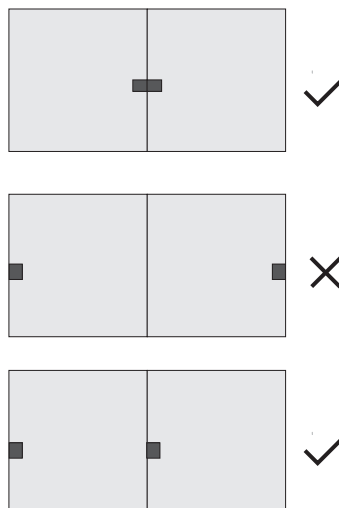
Ref		Dimension		Wall fixation		
		A	H	E	F	G
VS104...	1 row 4I	138	184	101	68	58
VS108...	1 row 8I	210	184	174	68	58
VS112...	1 row 12I	282	252	222	136	58
VS118...	1 row 18I	390	252	330	136	58
VS212...	2 rows of 12I 24I total	282	377	222	261	58
VS218...	2 rows of 18I 36I total	390	377	330	261	58
VS312...	3 rows of 12I 36I total	282	500	222	386	58
VS318...	3 rows of 18I 54I total	390	500	330	386	58
VS412...	4 rows of 12I 48I total	282	647	222	491	78
VS418...	4 rows of 18I 72I total	390	647	330	491	78

Cable entries - top/bottom

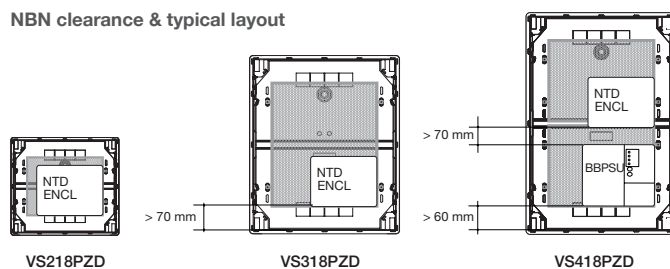
One side of the surface enclosure is designed for the use of trunking and knock outs. The other side of the enclosure has dimples located for the various sizes of conduit entries, 20mm, 25mm, 32mm and 40mm. The enclosure is symmetrical through 180°.

Side by side installation

The design of golf allows for two enclosures to be mounted side by side. However installers should note the door hinges should not both be in the middle.

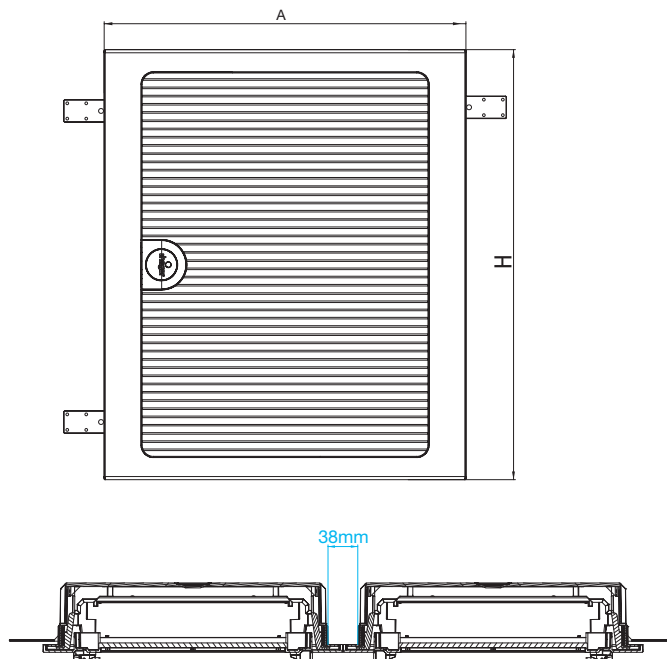
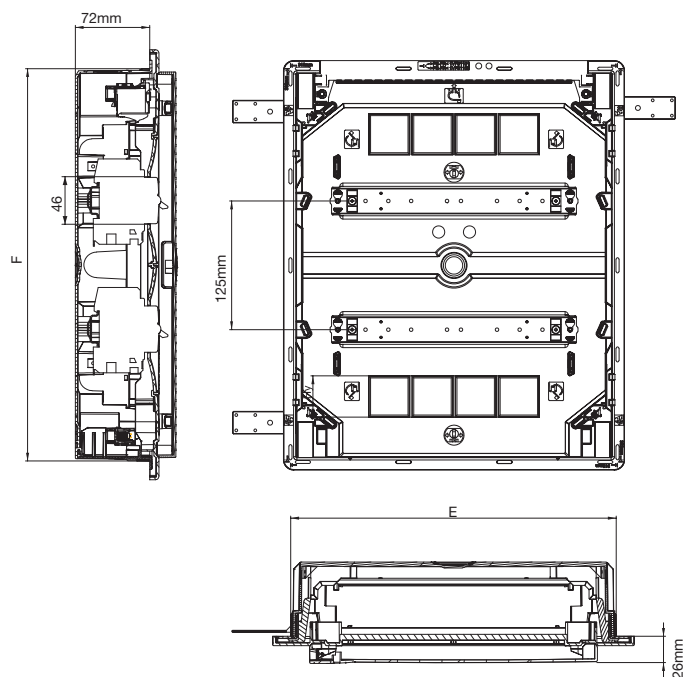


NBN clearance & typical layout



Uniform enclosure dimensions across the golf VF range

The dimensions below are for all golf VF / flush mount enclosures, including the golf home networking VF / flush mount enclosures



Cable entries - top/bottom

The flush enclosures have dimples precut with diameters 20, 25, 32 and 40mm. The wall box is 180° rotatable, to provide slider position on top or bottom.

Flush Ref		Dimension		Wall Cut Out	
		A	H	E	F
VF104...	1 row 4I	204	225	170	189
VF108...	1 row 8I	275	225	242	189
VF112...	1 row 12I	352	293	318	257
VF118...	1 row 18I	460	293	426	257
VF212...	2 rows of 12I 24 total	352	418	318	382
VF218...	2 rows of 18I 36I total	460	418	426	382
VF312...	3 rows of 12I 36I total	352	543	318	507
VF318...	3 rows of 18I 54I total	460	543	426	507
VF412...	4 rows of 12I 48I total	352	688	318	652
VF418...	4 rows of 18I 72I total	460	688	426	652

For the wall cut out, these dimensions are minimal. Depth must always be 72mm min.

Earthed metal back plate dimensions

Cat Ref.	Height (mm)	Width (mm)	Thickness (mm)	Suits encl.
VF112BP	353	310	1	VF112xT
VF212BP	478	310	1	VF212xT
VF312BP	602	310	1	VF312xT
VF412BP	748	310	1	VF412xT
VF118BP	353	418	1	VF118xT
VF218BP	478	418	1	VF218xT
VF318BP	602	418	1	VF318xT
VF418BP	748	418	1	VF418xT

Cutout for combined boards utilising double slider

When connecting 2 x VFx18 enclosures with a double slider, an additional 38mm must be added to the total cutout height of the boards.

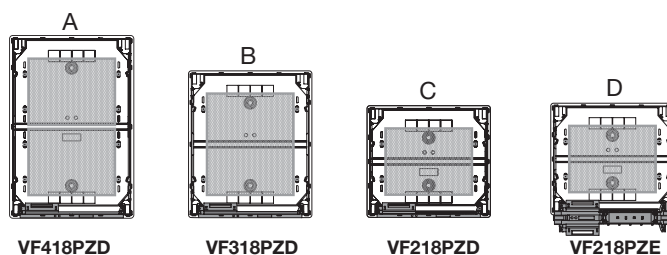
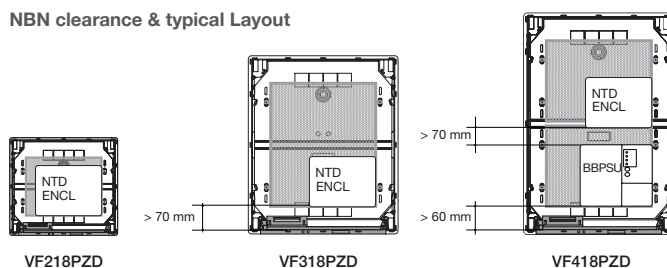
e.g. VF118PT joining with a VF218PZD = 257mm + 382mm + 38mm.

Total height for the cutout = 677mm.

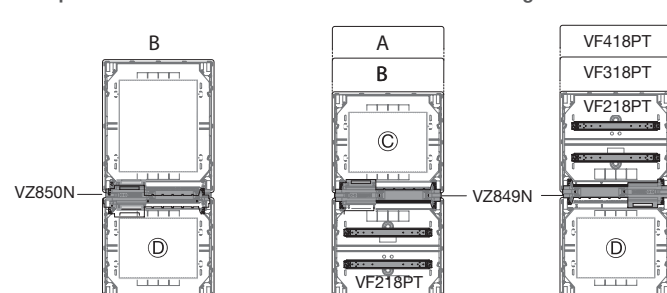
Width remains consistent at 426mm.

NOTE: Joining double slider for use with 18 module wide flush enclosures only.

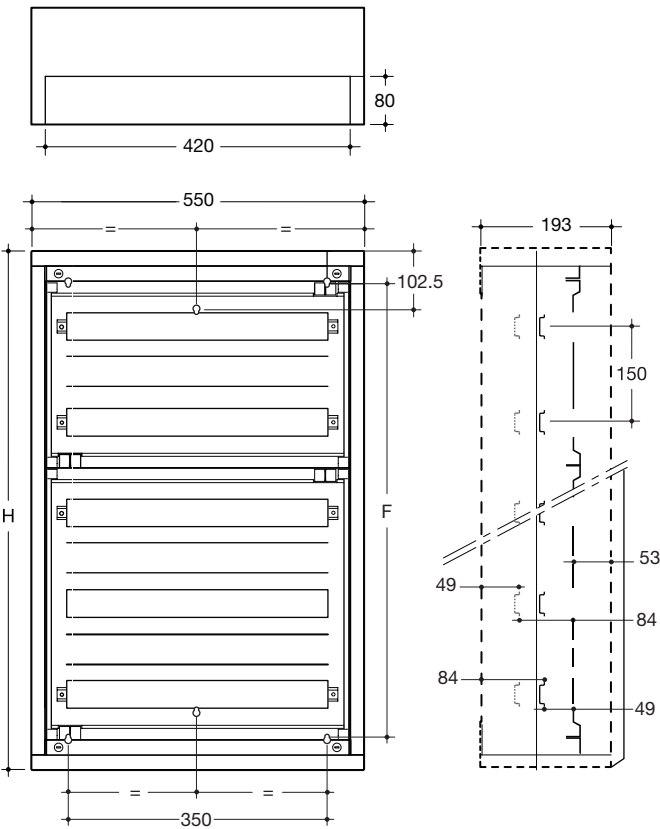
NBN clearance & typical Layout



Example combination of mains distribution and networking combined

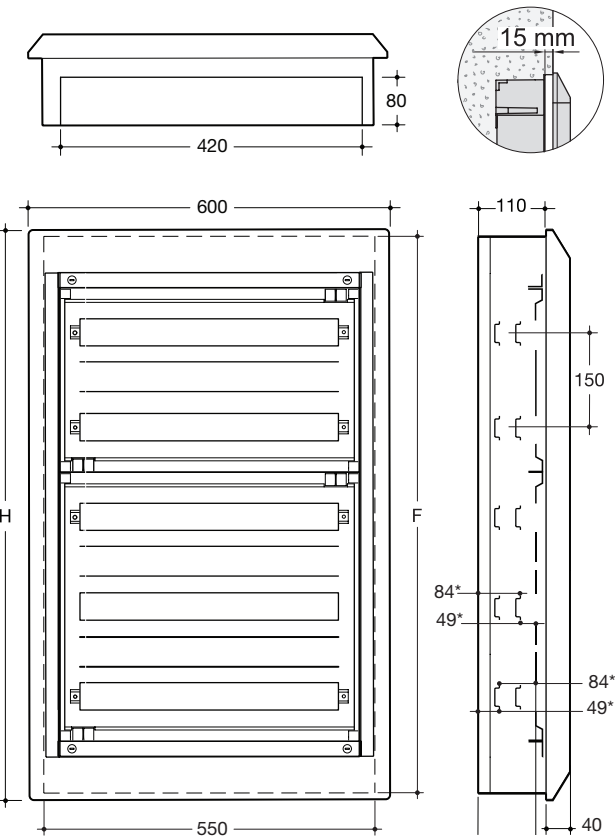


vega D Surface Mount Enclosures



Dims (mm)	H	Fixing centres F
FD42DN	750	625
FD52DN	900	775
FD62DN	1050	925
FD72DN	1200	1075

vega D Flush Mount Enclosures



Dims (mm)	H	Hole height F
FU42DN	837	806
FU52DN	987	956
FU62DN	1137	1106
FU72DN	1287	1256

Ref.	Description	KCL363L	KCL368L
Vector enclosures			
VE212H	vector, IP65, 24M	•	
VE312H	vector, IP65, 36M	•	•
VE412H	vector, IP65, 48M	•	•
golf enclosures (flush mount)			
VF212PT	golf flush, 24M, white door	•	
VF212TT	golf flush, 24M, transparent door	•	
VF218PT	golf flush, 36M, white door	•	
VF218TT	golf flush, 36M, transparent door	•	
VF312PT	golf flush, 36M, white door	•	•
VF312TT	golf flush, 36M, transparent door	•	•
VF318PT	golf flush, 54M, white door	•	•
VF318TT	golf flush, 54M, transparent door	•	•
VF412PT	golf flush, 48M, white door		
VF412TT	golf flush, 48M, transparent door		
VF418PT	golf flush, 72M, white door		
VF418TT	golf flush, 72M, transparent door		
golf enclosures (surface mount)			
VS212PT	golf surface, 24M, white door	•	
VS212TT	golf surface, 24M, transparent door	•	
VS218PT	golf surface, 36M, white door	•	
VS218TT	golf surface, 36M, transparent door	•	
VS312PT	golf surface, 36M, white door	•	•
VS312TT	golf surface, 36M, transparent door	•	•
VS318PT	golf surface, 54M, white door	•	•
VS318TT	golf surface, 54M, transparent door	•	•
VS412PT	golf surface, 48M, white door	•	•
VS412TT	golf surface, 48M, transparent door	•	•
VS418PT	golf surface, 72M, white door	•	•
VS418TT	golf surface, 72M, transparent door	•	•