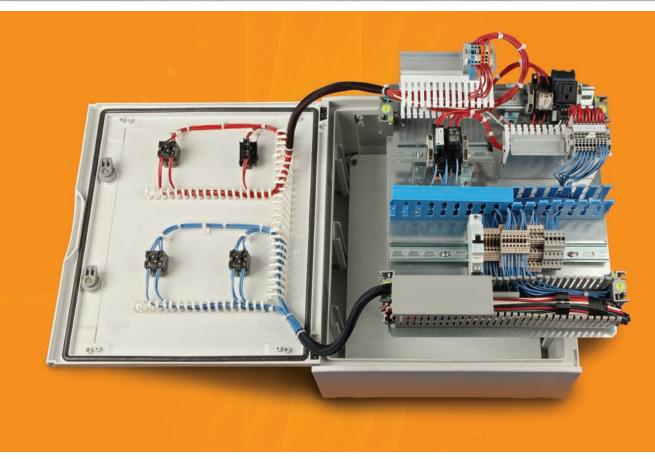


DEMAND INNOVATION





IBOCO's New Modular Fiberglass Enclosures allow you to THE BOX OUTSIDE THE BOX



THE MODULAR FIBERGLASS ENCLOSURE

An innovator in the area of wire management for over 30 years, IBOCO continues its rich tradition in offering the market a comprehensive range of products that provide effective, efficient installations.

IBOCO's New line of Fiberglass enclosures are manufactured and designed to provide the installer an "ease of use" not found with any enclosure in the marketplace.

The 14 sizes offered, and their modular accessories, provides the OEM the competitive advantage. Labor, time and budgetary concerns are alleviated.

The Modular adjustable frame allows adjustment of din rail mounting components, modular panels and inner doors to desired heights, virtually utilizing a quick quarter turn lock-in method.

Table of Contents

Exploded View of Enclosure	4-5
Product Overview	6
Family of Enclosures	7
Fiberglass Enclosures - Solid Door	8
Fiberglass Enclosures - Window Door	9
Enclosure Accessories	10-13
Dimensional Drawings	14
Technical Specifications	15

DIN Rail Assembly Blocks



Enclosure

0.

Mounting Plate

DIN Rail Assembly Insulated Mounting Plate

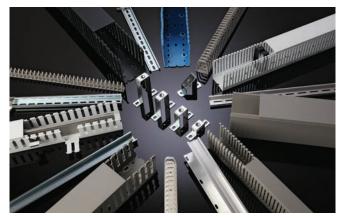


Product Overview

As control panels grow increasingly complex and crowded, schedules become tighter and budgets shrink, more engineers are realizing the advantage of IBOCO's innovative wire management system. IBOCO has always offered a comprehensive range of products that provide faster, effective, efficient installations.

IBOCO has developed a comprehensive wiring duct system that organizes, retains, separates, identifies and handles even the toughest panel wiring challenges.

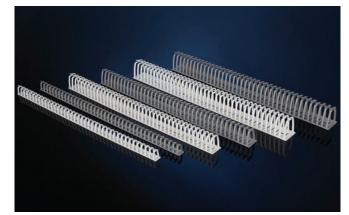
As with all of our products, the VTR series provides simple resolutions via the quick "quarter turn" modular accessories. Lower costs, superior features and quicker installations.



Wire duct



Din Rail



Dinosaur



IBOCO's reputation for unique, labor saving products has been well documented. Our commitment to value via outside sales support, highly trained customer service representatives, enduser sample support, as well as the largest inventory in North America, and unprecedented service record, has made IBOCO unique in the industry.

IBOCO's constant development and implementation of new products distinguishes and defines our customer requirements. We will continue to define and anticipate the evolving market needs of our valued partners and customers, while offering a multitude of marketing and sales strategies.

IBOCO is enthusiastic about its new family of fiberglass enclosures, and accessories, and guarantees all of the services and support that the market has grown accustomed to with our wire duct, din rail and wire management products.

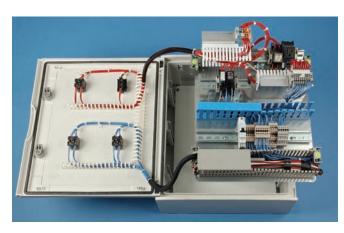
The VTR fiberglass enclosures are manufactured strictly from our proprietary formulation. Our line of maintenance free, corrosion resistant fiberglass enclosures provide optimum protection in the harshest environments, from water treatment facilities to chemical processing and oil refineries.

The gasket is poured polyurethane and provides a watertight, dust-tight seal.

It is designed for installations at -25 through +60C (-13 through +140F).

IBOCO, The World leader in Panel Management, presents its new family of fiberglass enclosures.





В івосо



FIBERGLASS ENCLOSURES SOLID DOOR

PART NU	MBER	VTR01C	VTR02C	VTR03C	VTR04C	VTR05C	VTR06C	VTR07C
SIZE		11.8"x 9.2"x 6.5"	16.7"x 12.8"x 7.1"	19.7"x 16.9"x 8.3"	25.6"x 16.9"x 8.3"	25.6"x 21.3"x 10.2"	31.7"x 24.2"x 12.4"	41.8"x 31.9"x 14.0"
ММ		303 x 265 x 167	428 x 325 x 183	504 x 434 x 210	654 x 434 x 210	654 x 543 x 265	806 x 816 x 319	1056 x 810 x 355
MODULES	5		36 (12x3)	54 (18x3)	72 (18x4)	96 (24x4)	140 (28x5)	190 (38x5)
DISSIPATI	ED 1		35	72	81	93	136	232
POWER (V	NATT) 2	34	61	111	122	132	215	342
	EMP 💮 Steel Mounting Plate	PFVTR01	PFVTR02	PFVTR03	PFVTR04	PFVTR05	PFVTR06	PFVTR07
	EPP 💮 Insulated Mounting Plate	PFVTR01IS	PFVTR02IS	PFVTR03IS	PFVTR04IS	PFVTR05IS	PFVTR06IS	
	EID 💮 Inner Door		CP02	CP03	CP04	CP05	CP06	CP07
	EMF 💮 Module Frame*		PSVTR12	PSVTR18	PSVTR18	PSVTR24	PSVTR28	PSVTR38
	EBP 💮 Blank Panel		PCVTR12	PCVTR18	PCVTR18	PCVTR24	PCVTR28	PCVTR38
2 d 2 d	EBPD 💮 Double Blank Panel		PCVTR12D0	PCVTR18D0	PCVTR18D0	PCVTR24D0	PCVTR28D0	PCVTR38D0
⊨	EDR 💮 DIN Rail Assembly		GUIDA12	GUIDA18	GUIDA18	GUIDA24	GUIDA28	GUIDA38
	EVF ⑦ Vertical Frame		MONT02	MONT03	IOM	NT04	MONT06	MONT07
	EMB 💮 Wall Bracket	0//00	0//22	0//00	0//00	0//00	0//00	0//00
F	Stainless Steel Galvanized	04688	04688	04688	04688 04680	04688 04680	04688 04680	04688 04680
	EPAB Adjustable Mounting Plate Block		SCORPF	SCORPF	SCORPF	SCORPF	SCORPF	SCORPF
	* Includes D Assembly Bl Optional Mo	DIN Rail ocks for untings	c (UL) us NEMA/UL Type 4X		Accordine IECEE CB S 23-48/23-49 IEC 6067 IN62208	CHEME 66 0-24 PROTECTION	20J L SHOCK RESISTANCE	.ock U



			WINDOW	DOOR	FIBERGL	ASS ENCI	OSURES
PART NUMBER	VTR010	VTR020	VTR030	VTR040	VTR050	VTR060	VTR070
SIZE	11.8"x 9.2"x 6.5"	16.7"x 12.8"x 7.1"	19.7"x 16.9"x 8.3"	25.6"x 16.9"x 8.3"	25.6"x 21.3"x 10.2"	31.7"x 24.2"x 12.4"	41.8"x 31.9"x 14.0"
ММ	303 x 265 x 167	428 x 325 x 183	504 x 434 x 210	654 x 434 x 210	654 x 543 x 265	806 x 816 x 319	1056 x 810 x 355
MODULES		36 (12x3)	54 (18x3)	72 (18x4)	96 (24x4)	140 (28x5)	190 (38x5)
DISSIPATED	1	35	72	81	93	136	232
POWER (WATT)	2 34	61	111	122	132	215	342
EMP C Steel Mounting Plate		PFVTR02	PFVTR03	PFVTR04	PFVTR05	PFVTR06	PFVTR07
EPP C Insulated Mounting Plate		PFVTR02IS	PFVTR03IS	PFVTR04IS	PFVTR05IS	PFVTR06IS	
EID Inner Door	>	CP02	CP03	CP04	CP05	CP06	CP07
EMF Module Frame*	>	PSVTR12	PSVTR18	PSVTR18	PSVTR24	PSVTR28	PSVTR38
EBP © Blank Panel	>	PCVTR12	PCVTR18	PCVTR18	PCVTR24	PCVTR28	PCVTR38
EBPD C Double Blank Panel	»	PCVTR12D0	PCVTR18D0	PCVTR18D0	PCVTR24D0	PCVTR28D0	PCVTR38D0
EDR C DIN Rail Assembly		GUIDA12	GUIDA18	GUIDA18	GUIDA24	GUIDA28	GUIDA38
EVF Vertical Frame)	MONT02	MONT03	MONTO)4	MONT06	MONT07
EMB Wall Brace Stainless S	ket 04688	04688	04688	04688	04688	04688	04688
Galvanized EPAB Adjustab Mounting Plate Blo		04680 SCORPF	04680 SCORPF	04680 SCORPF	04680 SCORPF	04680 SCORPF	04680 SCORPF

L

В івосо.

1.

1.

* Includes DIN Rail Assembly Blocks for Optional Mountings

UL NEMA 4X on solid door only

COLOR GREY RAL 7035

ACCORDING TO IECEE CB SCHEME IEC 60670-24 EXCEPT SIZE 7 CEI 23-48/23-49 EN62208

20J SHOCK RESISTANCE Lock U

66 PROTECTION IP



9



All Enclosure's include removable channel guides for back panel, din rail, and additional accessory mounting.



Removable door pin allows for left or right hinging in the field.



Threaded inset on back of the enclosures for wall bracket mounting.



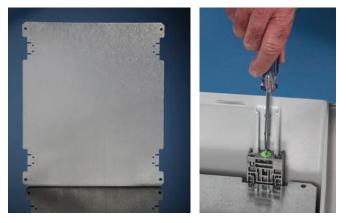


Includes standard lock, optional locks are available for increased security.





Steel mounting plate may be quickly installed onto the channel guides, at desired height, utilizing the adjustable mounting plate blocks, by literally using a quick quarter turn lock-in method.



Insulated Mounting plate is an environmental insulated back panel which allows additional mounting options.



Din Rail Assembly. This innovative adjustable height din rail assembly is designed to enable the installer to adjust the rail to any height within the enclosure.





For additional mounting options, you may utilize the din rail that has the din rail assembly blocks, which is included in the optional module frame. DIN Rail Assembly Blocks can be adjusted to a depth of 48mm or 75mm.



IBOCO's wire duct may be fastened directly onto the din rail rail assembly block utilizing the ZP-1 mounting insert, capturing the complete rail, or back panel structure. The entire panel may be quickly unlocked and entirely removed from the enclosure in order to provide maintenance "outside of the box.



Module Frames with breakout shields for device spacing. May be installed on either the channel guides, or the din rail assembly blocks, by securing push-in tabs with a screwdriver.







Blank panel/Double Blank panel are adjustable for customized installations and modifications.





Inner Door. The swing out inner door for enclosure security and device protection. Allows for right or left hinging. May be installed once placement of inner door pin is set. Inner door tab is fixed with a simple push in on the 4 tabs that are molded in the door.



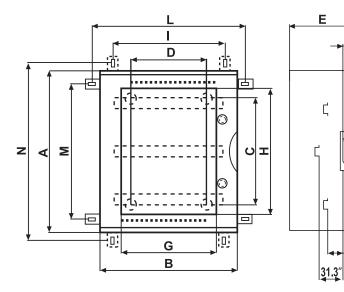
The fiberglass enclosure series is available with both solid and window doors. Removable door pin allows for left or right hinging.



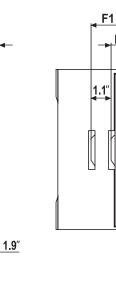
A pole mounting kit is also available. Please contact IBOCO for additional information.

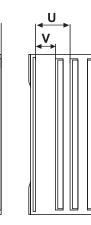
FIBERGLASS ENCLOSURES DIMENSIONAL DRAWINGS

SOLID/WINDOW TYPE



31





N. 2 POSSIBLE DISTANCES DISTANCE BETWEE BETWEEN INNER AND OUTER MOUNTING PLATE DOOR (EXCEPT SIZE 07 WHICH HAS VALUES 2.0"/3.1")

2.9″

17

DISTANCE BETWEEN AND INNER DOOR

SIZE	DESCRIPTION													DIME	NSIONS					
		ММ	INCHES	ММ	INCHES	ММ	INCHES	MM I	NCHES	ММ	INCHES	MM	INCHES	ММ	INCHES	ММ	INCHES	MM	INCHES	
		A	l		В		С	D		E	E		F		F1	6	i	1	Н	
1	VTR 01	303	12.4	265	10.8	150	6.1	110	4.3	167	6.6	-	-	-	-	161	6.3	215	8.5	
2	VTR 02	428	17.5	325	13.3	255	10.4	132	5.2	183	7.2	40	1.6	67	2.6	193	7.6	319	12.6	
3	VTR 03	504	20.6	434	17.7	330	13.5	240	9.4	210	8.3	40	1.6	67 - 94	2.6 - 3.7	300	11.8	393	15.5	
4	VTR 04	654	26.7	434	17.7	480	19.6	240	9.4	210	8.3	40	1.6	67 - 94	2.6 - 3.8	300	11.8	544	21.4	
5	VTR 05	654	26.7	543	22.2	480	19.6	348	13.7	265	10.4	40	1.6	67 - 94 - 121 - 148	2.6 - 3.7 - 4.8 - 5.8	405	15.9	544	21.4	
6	VTR 06	806	32.9	616	25.1	630	25.7	420	16.5	319	12.6	40	1.6	67 - 94 - 121 - 148 - 175 - 202	2.6 - 3.7 - 4.8 - 5.8 - 6.9 - 8.0	480	18.9	694	27.3	
7	VTR 07	1056	43.1	810	33.1	885	36.1	600	23.6	355	14.0	54	2.1	81 - 108 - 135 - 162 - 189 - 216	3.2 - 4.3 - 5.3 - 6.4 - 7.4 - 8.5	639	25.2	875	34.4	

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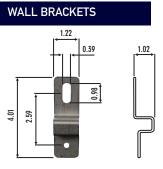
SIZE	DESCRIPTION															DI	MENSIONS								
		MM I	NCHES	MM	INCHES	ММ	INCHES	MM	INCHES	ММ	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	ММ	INCHES	ММ	INCHES
		I			L		N	N	1	I	U		٧)		P		Q	F	2	S			Т
1	VTR 01	184	7.2	316	12.4	222	8.7	354	13.9	-	-	-	-	199	7.8	240	9.4	1.5	0.06	-	-	-	-	-	-
2	VTR 02	245	9.6	377	14.8	348	13.7	480	18.9	108	4.3	78	3.1	242	9.5	365	14.4	1.5	0.06	210	8.3	314	12.4	20	0.8
3	VTR 03	353	13.9	485	19.1	423	16.7	555	21.9	135	5.3	105	4.1	350	13.8	440	17.3	1.5	0.06	318	12.5	389	15.3	20	0.8
4	VTR 04	353	13.9	485	19.1	573	22.6	705	27.8	135	5.3	105	4.1	350	13.8	590	23.2	2.0	0.08	318	12.5	539	21.2	20	0.8
5	VTR 05	462	18.2	594	23.4	573	22.6	705	27.8	188	7.4	158	6.2	458	18.0	590	23.2	2.0	0.08	425	16.7	539	21.2	20	0.8
6	VTR 06	533	21.0	665	26.2	723	28.5	855	33.7	243	9.6	213	8.4	530	20.9	740	29.1	2.0	0.08	498	19.6	689	27.1	20	0.8
7	VTR 07	713	28.1	845	33.3	974	38.3	1105	43.5	273	10.7	243	9.6	710	28.0	990	39.0	2.0	0.08	677	26.7	938	36.9	25	1.0

MOUNTING PLATE









TECHNICAL SPECIFICATIONS

MATERIALS			
Technical Characteristics	Unit of Measure	Fiber	glass
		Value	Standard
CHEMICAL-PHYSICAL PROPERTIES			
Specific Gravity	g/cm³	1,70	UNI 7092
H2O 23°C Absorption	%	< 0,2	ISO 62
Formaldehyde	ppm	not present	-
Cadmium	ppm	not present	-
MECHANICAL PROPERTIES			
Tensile stress at break	Мра	200	ISO 527
Traction Strength	Мра	-	-
Elongation at break	%	-	-
Modulus of elasticity at traction	Мра	-	-
Modulus of elasticity at flexion	Мра	9000	UNI EN63
THERMAL PROPERTIES			
Temperature VICAT	°C	> 200	ISO 306
HDT	°C	> 200	UNI 5641
Coefficent of expansion	K-1	-	-
Specific heat	kJ/kgK	-	-
Thermal conductivity	W/mK	-	-
ELECTRICAL PROPERTIES			
Dielectric constant	Adim.	5,5	VDE 0303
Dielectric strength	kV/mm	30	IEC 243
Surface resistance	Ohm	1013	IEC 93
SELF-EXTINGUISHING PROPERTIES			
Self-extinguishing 1,6 mm	Adim.	-	-
Self-extinguishing 3,2 mm	Adim.	VO	UL 94
Glow wire test (2mm)	°C	960	IEC 60695-2-12
Oxygen Number	%	-	-

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