

ENCLOSURES AND PROTECTIVE SUNSHADES RIZURBOX















Since 2005 OOO «NPO RIZUR» has a series production of enclosures and protective sunshades RizurBox made of metal or glass-reinforced plastic.

Due to the operational resources, we can conduct the whole range of actions on the engineering, manufacturing, and realization of enclosures and protective sunshades. Each working stage is controlled by the quality division of NPO RIZUR.

Product design developments are constantly being improved.

RizurBox are multifunctional enclosures and protective

sunshades used at different industrial facilities under various climatic conditions for equipment protection against adverse impacts: atmospheric or industrial. Average service life of RizurBox enclosure – more than 15 years, protective sunshade – more than 10 years.

Glass-reinforced and metal enclosures RizurBox are versatile in their applications and have all the necessary documents and permissions for operation even in hazardous areas. OOO «NPO RIZUR» manufactures enclosures of different dimensions, including multiple-door glass-reinforced and metal enclosures. The unit can be supplied with floor stands or other mounting elements manufactured by NPO RIZUR in accordance with the Customer's requirements or attached drawings.

In accordance with the requirements, it's possible to supply the enclosures together with the heaters, including explosionproof ones, thermoregulators or a heating cable.



Soft enclosures RIZUR are manufactured in accordance with the requirements of regulatory documents, developed in the Company, have all the necessary certificates, and comply with the international standard ISO9001.

If you have any questions about this type of equipment, you can contact the lead specialists of the «NPO RIZUR» Sales Department.



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Reinforced fiberglass enclosures RizurBox-C

Intended use and application area

RizurBox-C reinforced fiberglass enclosures (thermoboxes) are manufactured according to Technical regulations TU-3442-001-12189681-2014 and are designed for the placement of control and measuring equipment, as well as telecommunication equipment (pressure sensors, flow meters, water gauges, network devices, check valves, etc.) both in outdoor and indoor facilities. RizurBox-C are weather-resistant enclosures designed to protect equipment against low temperatures, condensation, precipitation, dust, chemicals, physical damage, unauthorized access, theft, etc.

RizurBox-C reinforced fiberglass enclosures are designed to be used in indoor and outdoor areas exposed to explosion hazards in accordance with specified requirements, relevant industrial safety guidelines, and the manufacturer's recommendations.

All enclosures are made from inflammable materials and have all the necessary certification.



 We can manufacture enclosures of any size and design upon the customer's request.

Design description

RIZURBOX-C fiberglass enclosures have a multilayer structure of the body made from inflammable unsaturated polyester resin and glass-reinforced materials. The housing is antistatic.

The outer and inner covers of enclosures are separated by a heat-insulation layer made of polyurethane foam. The K FLEX ALU additional heat-insulation layer can be applied on request.

There are several types of enclosures:

- · diagonally opening enclosures
- classical enclosures with one-door opening
- · classical enclosures with two-sided opening
- horizontally/vertically-split enclosures
- modular enclosures

Thanks to our production facilities, we're able to manufacture enclosures of any type and size.

Technical specifications

Installation area	General industrial areas Areas exposed to explosion hazards V-1a and V-1d, acc. to Electrical installation code (PUE), Ch. 7.3
Ingress protection	IP54 acc.to GOST 14254-96 IP65 acc.to GOST 14254-96 (on request) IP66 acc.to GOST 14254-96 (on request)
Ambient temperature	-60 +70 °C -70 +70 °C (with K FLEX ALU additional heat-insulation layer)
Resistivity	To oil products To chemical environments To ultraviolet radiation
Wall thickness	20-40 mm (depending on the design variant)
Fiberglass thickness	2-4 mm (depending on the design variant)
Thermal conductivity	0,03 W/m [*] K
Fitting materials (locks, hinges)	Stainless steel
Surface resistance (antistatic)	Under 10 ⁹ Ohm



Explosion-proof marking	
with electrical heating (explosion-proof heater, heating section)	II Gb II C T6T3 Gb X 1Ex e mb IIC T6T3 Gb X 1Ex e d IIC T6T3 Gb X 1Ex e d mb IIC T6T3 Gb X 1Ex e IIC T6T3 Gb X (depending on the design variant of the heater and thermoregulator used)
 water/steam heating is under 195 °C 	II Gb IIC T3 X or II Gb IIB T3 X
 water/steam heating is under 130 °C 	II Gb IIC T4 X or II Gb IIB T4 X
 water/steam heating is under 95 °C 	II Gb IIC T5 X or II Gb IIB T5 X
 water/steam heating is under 80 °C 	II Gb IIC T6 X or II Gb IIB T6 X
• without heating	II Gb IIC or II Gb IIB
Colour	RAL 7035, light grey any color (on request)
Warranty period	12 months 24/36 months (on request)
Average operation time	Over 15 years

Enclosure delivery options

Basic set

The Basic set includes an enclosure and all separately supplied components: mounting elements for equipment installation, mounting elements for enclosure installation, tube heat exchanger (water/steam), electric heater/heating section, temperature control device, signaling system, lamp, junction box, cable and tube glands, blind flanges, junctions, bolts, washers, nuts, etc.

The Basic set includes everything needed for the installation which is performed by the customer or an installation crew.



The Standard set is identical to the Basic set. However, the heaters and the inside fastening elements are installed in accordance with the Customer's technical drawings.

The installation of the enclosure as well as the monitoring and measuring equipment, is performed by the Customer or by an installation crew.

SON.

System Set

The System set is almost identical to the Standard set. However, it also includes connecting, shut-off and control equipment (fittings, valves, impulse tubes, pre-insulated tube bundles RizurPak, valve device assemblies, etc.).

The System set includes several types of equipment (enclosures, soft enclosures, insulated impulse tubes, and equipment from third parties).

Installation of the enclosure as well as monitoring and measuring equipment is performed by the Customer or by an installation crew.



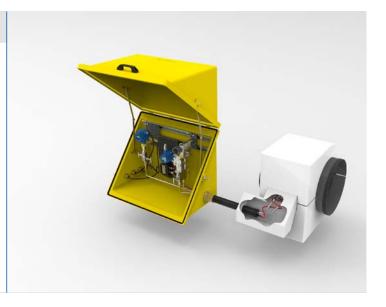
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Complete set

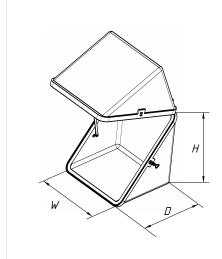
The Complete set is a fully assembled and ready-for-connection unit with installed monitoring and measuring equipment. The monitoring and measuring equipment is chosen by the Customer:

- the equipment can be preselected by our engineers in accordance with the customer's requirements
- the equipment can be specified by the Customer
- the equipment can be selected and supplied by the Customer.



Standard variants of RizurBox-C enclosures

Diagonally opening enclosures



Design variant	Dimensions for reference HxWxD*, mm
RizurBox-C-2	365x360x385
RizurBox-C-4	490x460x390
RizurBox-C-5	490x585x390
RizurBox-C-6	510x470x420
RizurBox-C-7	610x470x470
RizurBox-C-7,5	650x700x550
RizurBox-C-8	610x840x470
RizurBox-C-9	660x1010x470
RizurBox-C-10	680x680x680
RizurBox-C-11	750x595x680
RizurBox-C-12	650x970x560
RizurBox-C-13	570x750x600
RizurBox-C-16	760x860x760

^{*} The sizes of enclosures are for reference. To get the drawings with precise dimensional and internal specifications of enclosures, please contact RIZUR engineering department, +7 (4912) 20-20-80, marketing@rizur.ru



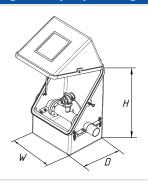
Reinforced fiberglass enclosure RizurBox-C-9 with floor-stands



Reinforced fiberglass enclosure RizurBox-C-7 with mounting clips



Diagonally opening enclosures with a tray



Design variant	Dimensions for reference HxWxD*, mm
RizurBox-C-T7	820x470x470
RizurBox-C-T8	820x840x470
RizurBox-C-T12	800x970x640
RizurBox-C-T13	940x540x540
RizurBox-C-T14	850x390x380
RizurBox-C-T15	1090x390x390
RizurBox-C-T16	900x820x440

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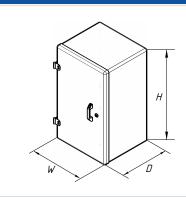


Reinforced fiberglass enclosure RizurBox-C-T7 with on-pipe fastening



Reinforced fiberglass enclosure RizurBox-C-T8 with on-pipe fastening

Enclosures with classical opening



Design variant	Dimensions for reference HxWxD*, mm
RizurBox-C-W1	600x400x350
RizurBox-C-W2	1000x600x500
RizurBox-C-W3	1000x600x350
RizurBox-C-W4	1000x1000x400
RizurBox-C-W5	500x470x300
RizurBox-C-W6	850x530x350
RizurBox-C-W7	400x400x250
RizurBox-C-W8	1090x890x480
RizurBox-C-W9	1000x800x500

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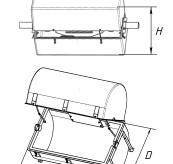
Reinforced fiberglass enclosure with classical opening RizurBox-C-W7



Reinforced fiberglass enclosure with classical opening RizurBox-C-W2



Enclosures of CASE type



Design variant**	Dimensions for reference HxWxD*, mm
RizurBox-C-B-M	780x1300x510
RizurBox-C-B2-M	750x1210x760
RizurBox-C-B2-B	900x1210x760
RizurBox-C-B2-H	900x1210x760
RizurBox-C-B2-L	1100x1210x760
RizurBox-C-B2-Lm	1080x1290x780
RizurBox-C-B3-M	750x920x760
RizurBox-C-B3-B	900x920x760
RizurBox-C-B3-H	900x920x760
RizurBox-C-B3-L	1100x920x760
RizurBox-C-B4-B	900x1520x760
RizurBox-C-B4-L	1100x1520x760
RizurBox-C-B4-M	750x1520x760
RizurBox-C-B5-B	640x890x490

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- ** The letters L and M in the names of various models of enclosures signify that the upper part is equal to the lower part.

The letter B is used if the upper part of the enclosure is larger than the lower one. The letter H shows that the lower part of the enclosure is larger than the upper one.

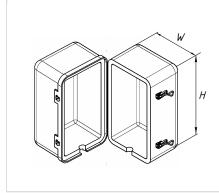


Reinforced fiberglass enclosure RizurBox-C-B3 with on-pipe fastening



Reinforced fiberglass enclosure RizurBox-C-B4 with floor-stands

Enclosures of MULTI type



Design variant	Dimensions for reference HxWxD*, mm
RizurBox-C-M1	420x250x350
RizurBox-C-M2	680x480x350
RizurBox-C-M3	760x560x560
RizurBox-C-M4	500x500x500
RizurBox-C-M5	610x450x400
RizurBox-C-M6	680x480x450
RizurBox-C-M7	350x440x420
RizurBox-C-M9	385x265x200
RizurBox-C-M10	380x430x430

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Reinforced fiberglass enclosure RizurBox-C-M6



Reinforced fiberglass enclosure RizurBox-C-M2



Horizontally/vertically-split enclosures Design variant Dimensions for reference HxWxD*, mm RizurBox-C-WD1 1140x720x820 RizurBox-C-WD2 1250x700x500 RizurBox-C-WD3 600x770x600 660x770x610 RizurBox-C-WD4 RizurBox-C-WD5 720x820x610 RizurBox-C-WD6 670x980x500

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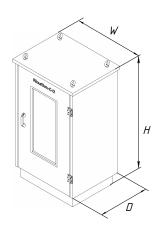


Reinforced fiberglass enclosure RizurBox-C-WD1



Reinforced fiberglass enclosure RizurBox-C-WD5

Modular enclosures with one door



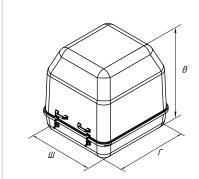
Design variant	Dimensions for reference HxWxD*, mm			
RizurBox-C-D1	1100x700x700			
RizurBox-C-D2	1100x900x700			
RizurBox-C-D3	1100x1100x700			
RizurBox-C-D4	1100x1300x700			
RizurBox-C-D5	1100x900x900			
RizurBox-C-D6	1100x1100x900			
RizurBox-C-D7	1100x1300x900			
RizurBox-C-D8	1600x700x700			
RizurBox-C-D9	1600x900x700			
RizurBox-C-D10	1600x1100x700			
RizurBox-C-D11	1600x1300x700			
RizurBox-C-D12	1600x900x900			
RizurBox-C-D13	1600x1100x900			
RizurBox-C-D14	1600x1300x900			
RizurBox-C-D15	2100x700x700			
RizurBox-C-D16	2100x900x700			
RizurBox-C-D17	2100x1100x700			
RizurBox-C-D18	2100x1300x700			
RizurBox-C-D19	2100x900x900			
RizurBox-C-D20	2100x1100x900			
RizurBox-C-D21	2100x1300x900			

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Modular enclosures with two doors Design variant Dimensions for reference HxWxD*, mm RizurBox-C-DD1 1100x1500x700 RizurBox-C-DD2 1100x1900x700 RizurBox-C-DD3 1100x2100x700 RizurBox-C-DD4 1100x1500x900 RizurBox-C-DD5 1100x1900x900 RizurBox-C-DD6 1100x2100x900 RizurBox-C-DD7 1600x1500x700 RizurBox-C-DD8 1600x1900x700 RizurBox-C-DD9 1600x2100x700 RizurBox-C-DD10 1600x1500x900 RizurBox-C-DD11 1600x1900x900 RizurBox-C-DD12 1600x2100x900 RizurBox-C-DD13 2100x1500x700 RizurBox-C-DD14 2100x1900x700 RizurBox-C-DD15 2100x2100x700 RizurBox-C-DD16 2100x1500x900 RizurBox-C-DD17 2100x1900x900 RizurBox-C-DD18 2100x2100x900

Enclosures with horizontal opening and all-around access to equipment



Модель	Размеры для справок ВхШхГ*, мм
РизурБокс-C-U1	1100x1500x700
РизурБокс-C-U2	1100x1900x700
РизурБокс-C-U3	1100x2100x700



Reinforced fiberglass enclosure RizurBox-C-DD4



Reinforced fiberglass enclosure RizurBox-C-D9



Reinforced fiberglass enclosure RizurBox-C-U1

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INQUIRY FORM Nº.

Reinforced fiberglass enclosures RizurBox-C (page 1 of 3)

Company									
Name of the facility									
Contact person									
Phone/fax/e-mail									
Min. and max. operation temperatures, °C					from		to		
Position tag									
Installed equipment (specify ordering co			alve assemblie	es, etc.)					
Number of enclosure	s acc. to	the inquiry	form				_рс	S.	
		Encl	osure vari	ant Ri	zurBox-	C HxW	хD,	mm	
Diagonally openi	ng enclosui	`es	Diagonally opening enclosures with a					/pe	
☐ RizurBox-C-2	365x3	360x385	☐ RizurBox-C-1	Г7	820x470x	470		RizurBox-C-B-M*	780x1300x510
☐ RizurBox-C-4	490x	460x390	☐ RizurBox-C-1	Г8	820x840x	¢470		RizurBox-C-B2-M*	900x1210x760
☐ RizurBox-C-5	490x	585x390	☐ RizurBox-C-1	Γ12	800x970x	640		RizurBox-C-B2-B*	900x1210x760
☐ RizurBox-C-6	510x4	70x420	☐ RizurBox-C-1	Г13	540x540x	+0x940		RizurBox-C-B2-H*	900x1210x760
☐ RizurBox-C-7	610×4	70x470	☐ RizurBox-C-1	Γ14	850x390x	380		RizurBox-C-B2-L*	1100×1210×760
☐ RizurBox-C-7,5	650x7	700x500	☐ RizurBox-C-1	Γ15	1090x390	x390		RizurBox-C-B2-Lm*	1080x1290x780
☐ RizurBox-C-8	610x8	340x470	☐ RizurBox-C-1	Γ16	900x820x	440		RizurBox-C-B3-M*	750x920x760
☐ RizurBox-C-9	660x1	010x470	Horizontall	y/verticalI	y split enclos	ures		RizurBox-C-B3-B*	900x920x760
☐ RizurBox-C-10	680x	680x680	☐ RizurBox-C-\	₩ D1	1140x720x	x820		RizurBox-C-B3-H*	900x920x760
☐ RizurBox-C-11	750x5	595x680	_		1250x700			RizurBox-C-B3-L*	1100x920x760
☐ RizurBox-C-12	650x9	970x560	_		570x710x5	590		RizurBox-C-B4-B*	900x1520x760
☐ RizurBox-C-13	570x	750x600	☐ RizurBox-C-WD4		714x610x560			RizurBox-C-B4-L*	1100x1520x760
☐ RizurBox-C-16	760x8	360×760	☐ RizurBox-C-WD5		770x670x560			RizurBox-C-B4-M*	750x1520x760
MULTI type		☐ RizurBox-C-WD6		670x980x500			RizurBox-C-B5-B*	640x890x490	
☐ RizurBox-C-M1 420x250x350		Enclosures with horizontal opening and all-around access to equipment				Enclosures with clo	assical opening		
☐ RizurBox-C-M2	680x	480x380	☐ RizurBox-C-U1		435x415x350			RizurBox-C-W1	600x400x350
☐ RizurBox-C-M3	760x5	560x560	☐ RizurBox-C-U2		435x415x500			RizurBox-C-W2	1000x600x500
☐ RizurBox-C-M4	500x	500x500	☐ RizurBox-C-U3		1105×960×	d1030 ☐ RizurBox-C-W3		RizurBox-C-W3	1000x600x350
☐ RizurBox-C-M5	610×4	50x400			: RizurBox-C			RizurBox-C-W4	1000x1000x400
☐ RizurBox-C-M6	680x	480x450	- Different size:					RizurBox-C-W5	500x470x300
☐ RizurBox-C-M7	350x4	440x420	Model:					RizurBox-C-W6	850x530x350
☐ RizurBox-C-M8	500x4	440x420	H.A.A.D.					RizurBox-C-W7	400x400x250
☐ RizurBox-C-M9	385x	265×200	HxWxD:	x	x			RizurBox-C-W8	500x470x300
☐ RizurBox-C-M10	380x	430x430						RizurBox-C-W9	1000x800x500
MODULAR ENCLOSURES RizurBox		zurBox-C-D, F	RizurBox	-C-DD			☐ Window		
Height, mm		Widt	h, mm		Dept	h, mm			
	1 door	1 door 2 doors						☐ Additional insulat	•
□ 1100	□ 1100 □ 700		□ 1500 □ 700			elastomeric foam with metal co		metal covering)	
□ 1600			□ 1700 □ 900						
□ 2100	□ 1100		□ 1900		□ 1100				
□other □ 1300 □ 2100 □other									
Mounting elements for the equipment:									
☐ Tube adapter (OD=57mm) ☐ Mountin		ng panel 🗆 DIN-rail		-rail		☐ Mounting rails ☐ Oth		Other	
Standard (250 mm) Non-standard Non-standard Non-standard		I			_mm, Lmm,pcs.		☐ Lmm,pcs.		
		(260x340	0 mm) 📙 🖂 🖂 🗀 UIN			,pcs.] Lmm,pcs.	Describe the required mounting parts in
				mm !	nm 566		Lmm,pcs. the field «Additiona information»		
			LI UIN		mm, Lmm,pcs.] Lmm,pcs.	

^{*} The letters L and M in the names of various models of enclosures signify that the upper part is equal to the lower part.

The letter B is used if the upper part of the enclosure is larger than the lower one. The letter H shows that the lower part of enclosure is larger than the upper one.





INQUIRY FORM №___

Reinforced fiberglass enclosures RizurBox-C (page 2 of 3)

	The state of the s				
Mounting elements for enclosure:	Heating:				
☐ Without mounting elements	☐ Without heating				
☐ Floor - floor stand (enclosure is mounted on a horizontal surface). Standard height 1000 mm	☐ Electric heating: ☐ FT-variant				
If not standard, please specify H= mm					
Variants of floor mounting:	□ ST-variant				
Variants of floor mounting: ☐ mounting under the bottom	-maintaining°C (specify within the range of -40°C+50°C)				
mounting to enclosure rear wall	☐ SR-variant				
mounting to enclosure real walk	-maintaining°C (specify within the range of -40°C+50°C)				
\square Wall hanging - rail for enclosure mounting onto vertical surface	-temperature when alarm indication is on (relay output)				
□ On site fence rail	°C/°C				
□ On a pipeline - clamps for enclosure mounting on a pipeline	☐ AR-variant				
Please, specify the external diameter of the pipe \emptyset = mm					
	Heating power:				
Options for mounting on a pipeline:	\square recommended by the manufacturer				
☐ Horizontal pipe passes through enclosure	w				
☐ Vertical pipe passes through enclosure ☐ Horizontal pipe passes under enclosure					
☐ Vertical pipe passes behind enclosure					
☐ On a flange	- □ Heat-exchange pipe (water/steam)				
Please, specify flange diameter Ø=mm	☐ welded ☐ thread G3/4"				
☐ Other	hread G1/2"				
Specify the necessary mounting elements	other thread				
Cable/tube glands:					
Ladie/ tu	pe glanas:				
Heating power cable \varnothing mm metal hose \varnothing mm,pcs	Holes for cable glands and impulse lines:				
Cable/tube Ø mm metal hose Ø mm, pcs	□ not drilled (supplied as a set)				
Cable/tube Ø mm metal hose Ø mm, pcs Cable/tube Ø mm metal hose Ø mm, pcs	☐ drilled (it's necessary to specify the				
Heat-insulated gland PILT pcs	holes layout in your order)				
Impulse tubing heating:					
Impulse rubing nearing.					
☐ Preinsulated tubing bundle of impulse lines RizurPak (see below)					
□ Soft enclosure RIZUR for impulse tubes (see below)					
	e of impulse lines RizurPak				
Tremsdared rubing bunda	Scope of supply:				
Length of tubing bundlem	☐ Fully assembled tubing bundle of impulse lines				
Quantity of impulse tubes inside the bundle, pcs.	(see the scheme below)				
External diameter of impulse tubes mm Maximum temperature of the medium in the tubes°C	Specify the length in accordance with the scheme:				
Temperature of cleaning/steam-cleaning°C	A=mm C=mm B=mm				
Medium temperature maintained in the tube°C	D=mm F=mm				
Maximum pressure MPa □ Compression fitting for process connection pcs.	D=IIIII 1 =IIIII				
Process connection thread type: male/female	☐ Tubes shipped in coils, without prelimenary cutting				
☐ Compression fitting for equipment connection pcs.	or other preparations.				
Equipment connection thread type male/female Heat shrinks for sealing bundle ends pcs.	Specify the required length of bundle: m Shipped as tube segments of specified lengths,				
☐ Sealing kit for junction box entry and heating cable termination	I am 11 am 5 am 5 am 12 am 5 am 12 am 5 am 12 am 13 am 1				
☐ Adjustable thermoregulator for maintaining the exact temperature	inside the Specify the required length of the bundle:				
bundle (shipped with a coating repair kit for installing the thermoregounder the bundle coating) pcs.	Jlator sensor Power cable, A				
☐ Insulation repair kit in the event of external insulation damage	pcs.				
☐ Sealant heat-shrinkable fitting for tubing bundle entry into an enc	losure Heating cable sealing the reading connection of the heating and power cables				
pcs. (Please, specify enclosure wall widthmm)	F Heat-shrinking sealing				
	/ D C B				
	Seamless stainless tube				
	Compression fitting Compression fitting				





INQUIRY FORM №

Reinforced fiberglass enclosures RizurBox-C (page 3 of 3)

If the phrasing in the inquiry form seems unclear or there're any other questions, please phone for an explanation +7 (4912) 20-20-80



RizurBox on-site



















RizurBox on-site

























Insulated metal enclosures RizurBox-M

Intended use and application area

RizurBox-M enclosures are manufactured according to TU-3442-001-12189681-2014 and are designed for different types of equipment (pressure sensors, flowmeters, level meters, network devices, shut-off valves, etc.) in outdoor and indoor facilities.

Enclosures RizurBox-M are used for the protection of the equipment from the impact of negative temperatures, condensation, atmosphere precipitation, dust, chemicals, physical damages, unlawful access, theft, etc.

Application area - hazardous areas of the indoor and outdoor facilities in accordance with the markings, industry safety instructions, and the manufacturer's recommendations.

All enclosures are made of inflammable materials and have all the necessary certification.



We can manufacture enclosures of any type and dimensions in accordance with the Customer's requirements.

Design description

Insulated enclosures RizurBox-M are welded constructions manufactured using modern high-quality equipment. The body of the enclosure is made out of carbon steel 1,5 mm thick. The inside panels are made out of galvanized steel at least 1 mm thick. Walls and doors of the enclosure are insulated. Non-flammable mineral mats or heat-insulating materials on the basis of foamed synthetic rubber are used as an insulator. The thickness of the wall in the double-walled design variant is 45 mm.

Enclosures RizurBox-M are also manufactured as single-wall constructions with an insulator of 10...40 mm thickness with a shielding coating glued onto the inside surface. The outer surface of the enclosure is carefully processed with a power-polymer coating applied later to protect the surface from the impact of the environmental factors and premature corrosion.

Depending on the intended use and dimensions, the enclosure can be made either with a supporting frame or without it. In the design variant without the supporting frame, the pressure is distributed along the enclosure walls. The standard supporting frame is a welded steel construction made out of a non-circular tube or an integrated power rack.

Main materials used for the production of the body and supporting frame of the enclosure are different kinds of steel: general-purpose and stainless. It's possible to manufacture the enclosure in a split-type design if there's a need for mounting the enclosure onto the pipeline or to install the large-size equipment. The doors and splitting points have insulation made from cold-resistant rubber along the perimeter. The insulation protects the housing from heatloss and penetration of the atmosphere precipitation, providing ingress protection of at least IP 54.

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Technical specifications

Installation area	General industrial areas Explosion hazard zones V-1a and V-1g acc. to Regulations of equipment installation (PUE), Ch.7.3
Ingress protection	IP54 acc. to GOST1425-96 (on request) IP66 acc. to GOST1425-96 (on request)
Operating temperature	-60+70 °C -70+100 °C (on request)
Wall thickness	10 50 mm (depending on the enclosure's design variant)
Metal thickness	1,22 mm (depending on the enclosure's design variant)
Thermal conductivity	0,03 W/(m·K)
Fittings materials (locks, hinges)	Galvanized steel, stainless steel
Surface resistance (antistatic agent)	Less than 10 ⁹ Ohm
Temperature maintained inside	-40 +100 °C (depending on the heating system used)
Explosion protection marking	
(• enclosure with electric heating) (enclosure with electric heating)	II Gb IIC T6T3 X 1Ex e mb IIC T6T3 Gb X 1Ex e d IIC T6T3 Gb X 1Ex e d mb IIC T6T3 Gb X 1Ex e d IIB T6T3 Gb X 1Ex e d mb IIB T6T3 Gb X 1Ex e d mb IIB T6T3 Gb X 1Ex e lIC T6T3 Gb X (depending on the design variant of the heater and thermoregulator used)
 with a heating section 	1 Ex e IIC T6T3 Gb X
• water /steam heating under 195 °C	II Gb IIC T3 X or II Gb IIB T3 X
• water /steam heating under 130 °C	II Gb IIC T4 X or II Gb IIB T4 X
 water /steam heating under 95 °C 	II Gb IIC T5 X or II Gb IIB T5 X
 water /steam heating under 80 °C 	II Gb IIC T6 X or II Gb IIB T6 X
• without heating	II Gb IIC or II Gb IIB
Colour	Dark grey (antique-silver) Any colour (on request)
Warranty period	12 months 24/36 months (on request)
Average operation time	Over 10 years

Delivery options:

Basic set

The Basic set includes an enclosure and all components that are supplied separately: mounting elements for equipment installation, mounting elements for enclosure installation, tube heat exchanger (water steam), electric heater/heating section, temperature control device, signaling system, lamp, junction box, cable, and tube glands, blind flanges, junctions, bolts, washers, nuts, etc.

Thus, the Basic set includes everything required for the installation, performed by the Customer or by an installation crew.

Standard set

The Standard set is almost identical to the Basic set. However, the heaters and the inside mounting elements are installed in accordance with the Customer's technical drawing.

The installation of the enclosure is performed by the Customer or by an installation crew. Monitoring and measuring equipment is installed and connected by the Customer or by an installation crew.



System Set

The System set is similar to the Standard set but apart from the heating system and the mounting elements it also includes all the necessary connecting, shut-off, and control equipment (fittings, valves, impulse tubes, pre-insulated tube bundles RizurPak, valve device assemblies, etc.).

This set is a package solution combining different types of equipment (enclosures, soft enclosures, preisolated impulse tubes, equipment of other manufacturers).

The Customer or an installation crew only have to install the control and measurement equipment inside and mount the enclosure itself.

Complete set

The Complete set is a fully assembled and readyfor-connection unit with installed control and measuring equipment. The control and measuring equipment is specified by the Customer:

- it can be selected by the engineers of RIZUR in accordance with the requirements of the Customer.
 - it can be specified by the Customer.
 - it can be selected and supplied by the Customer.

This set is a packaged solution that contains a fullyequipped metering station which is ready for installation.

Standard variants of the enclosures:

Enclosures RizurBox-M with a classical opening Dimensions Dimensions **Design variant** Design variant HxWxD*, mm HxWxD*, mm RizurBox-M-RK-450x600x650 450x600x650 RizurBox-M-RK-1200x800x600 1200x800x600 RizurBox-M-RK-500x350x210 500x350x210 RizurBox-M-RK-1250x1800x500 1250x1800x500 RizurBox-M-RK-500x500x400 500x500x400 RizurBox-M-RK-1350x500x300 1350x500x300 RizurBox-M-RK-600x500x500 600x500x500 RizurBox-M-RK-1400x700x600 1400x700x600 RizurBox-M-RK-600x500x600 RizurBox-M-RK-1400x800x600 600x500x600 1400x800x600 RizurBox-M-RK-600x600x600 600x600x600 RizurBox-M-RK-1490x1790x800 1490x1790x800 RizurBox-M-RK-600x900x600 600x900x600 RizurBox-M-RK-1500x600x600 1500x600x600 RizurBox-M-RK-650x400x600 650x400x600 RizurBox-M-RK-1500x1400x2000 1500x1400x2000 RizurBox-M-RK-745x745x630 745x745x630 RizurBox-M-RK-1600x800x500 1600x800x500 RizurBox-M-RK-800x500x500 800x500x500 RizurBox-M-RK-1600x800x740 1600x800x740 RizurBox-M-RK-800x600x500 800x600x500 RizurBox-M-RK-1600x1200x500 1600x1200x500 RizurBox-M-RK-800x1100x600 800x1100x600 RizurBox-M-RK-1600x1400x800 1600x1400x800 RizurBox-M-RK-1000x600x300 1000x600x300 RizurBox-M-RK-1700x600x600 1700x600x600 RizurBox-M-RK-1000x600x500 1000x600x500 RizurBox-M-RK-1850x900x500 1850x900x500 RizurBox-M-RK-1000x600x600 1000x600x600 RizurBox-M-RK-1850x1300x1300 1850x1300x1300 RizurBox-M-RK-1000x800x600 1000x800x600 RizurBox-M-RK-2000x700x700 2000x700x700 RizurBox-M-RK-1000x1500x1000 1000x1500x1000 RizurBox-M-RK-2000x990x990 2000x990x990 RizurBox-M-RK-1090x890x480 1090x890x480 RizurBox-M-RK-2000x1400x750 2000x1400x750 RizurBox-M-RK-1100x700x700 1100x700x700 RizurBox-M-RK-2060x900x600 2060x900x600 RizurBox-M-RK-1190x690x690 1190x690x690 RizurBox-M-RK-2100x1600x800 2100x1600x800 RizurBox-M-RK-1200x600x600 1200x600x600 RizurBox-M-RK-2100x2000x1100 2100x2000x1100

RizurBox-M-RK-1200x800x500



Enclosure RizurBox-M-RK



1200x800x500



2200x1000x600

RizurBox-M-RK-2200x1000x600

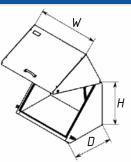
Enclosures RizurBox-M-RK, multiple-door execution

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^{*}The sizes of enclosures are for reference. To get the drawings with precise dimensional and internal specifications of enclosures, please contact RIZUR engineering department, +7 (4912) 20-20-80, marketing@rizur.ru



Enclosures RizurBox-M-RD with diagonal opening



Design variant	Dimensions HxWxD*, mm
RizurBox-M-RD-550x400x400	550x400x400
RizurBox-M-RD-650x600x600	650x600x600
RizurBox-M-RD-650x850x600	650x850x600
RizurBox-M-RD-650x1100x600	650x1100x600
RizurBox-M-RD-650x890x600	650x890x600
RizurBox-M-RD-750x600x400	750x600x400

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Enclosures RizurBox-M-RV with vertical opening				
	Design variant	Dimensions HxWxD*, mm		
W	RizurBox-M-RV-800x1700x800	800x1700x800		
	RizurBox-M-RV-1085x2685x585	1085x2685x585		
	RizurBox-M-RV-1600x1280x800	1600x1280x800		
	RizurBox-M-RV-1730x1650x1520	1730x1650x1520		
	RizurBox-M-RV-2100x1600x800	2100x1600x800		

Enclosures RizurBox-M-RG with horizontal opening Design variant Dimensions HxWxD*, mm RizurBox-M-RG-1100x600x700 1100x600x700 RizurBox-M-RG-1150x1200x600 1150x1200x600 RizurBox-M-RG-1200x2100x1100 1200x2100x1100 RizurBox-M-RG-1400x800x600 1400x800x600 RizurBox-M-RG-1400x1200x1000 1400x1200x1000

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Enclosures RizurBox-M-RG



Enclosures RizurBox-M-RD

^{*} The sizes of enclosures are for reference. To get the drawings with precise dimensional and internal specifications of enclosures, please contact RIZUR engineering department, +7(4912) 20-20-80, marketing@rizur.ru





INQUIRY FORM №_____

Insulated metal enclosure RizurBox-M (page 1 of 3)

Name of the facility	Company					
Contact person						
Phone/fax/e-mail	-					
Min. and max operation temperatures, "C						
Position tag	•	. 95				
Installed equipment specification Specify ordering codes for equipment, valve assemblies, etc.)		eratures, "L		from	fo	
Specify ordering codes for equipment, valve assembles, etc.)						
Number of enclosures acc to the inquiry form			as atal			
Diagonal opening			:s, eic./		nce	
Diagonal opening	Number of efficiosures acc. To		ant DizurBoy	M Hy\4/	<u>-'</u>	
RizurBax-M-R0-550x400x400	Disconal energina			-11 11X W /	•	
RizurBox-M-RC-650x600x600					Uptions	
RizurBox—M-R0-550x850x600				Observatio	n window	
RizurBox.M-RD-650x100x600						
RizurBox.M-RD-560x890x600	_			Additional	insulation	
RizurBox-M-RD-750x600x400	_		(fc	amed insulator	with metallized coating)	
RizurBox-M-RK-100x4000x500	_					
RizurBox-M-RK-60x60x60x60 RizurBox-M-RK-1700x600x600 RizurBox-M-RK-1700x600x600 RizurBox-M-RK-180x300x1300 RizurBox-M-RK-180x300x1300 RizurBox-M-RK-180x300x1300 RizurBox-M-RK-180x500x300x1300 RizurBox-M-RK-180x1300x1300 RizurBox-M-RK-1800x500x700x700 RizurBox-M-RK-2000x700x700 RizurBox-M-RK-2000x700x700 RizurBox-M-RK-2000x700x700 RizurBox-M-RK-2000x700x700 RizurBox-M-RK-2000x900x900 RizurBox-M-RK-2000x100x750 RizurBox-M-RK-2000x100x750 RizurBox-M-RK-2000x900x900 RizurBox-M-RK-2000x900 RizurBox-M-RK-2000x900x900 RizurBox-M				Non-insula	ted	
RizurBox-M-RK-450x600x650						
RizurBox M-RK-500x350x210				Insulated,	single-walled	
RizurBox—M-RK-500x500x400	_		(fc	amed insulator	with metallized coating)	
RizurBox_M_RK-600x500x500						
RizurBox_M-RK-600x500x600	_			☐ Made from stainless steel		
RizurBox-M-RK-600x600x600						
RizurBox-M-RK-600x900x600				RAL		
RizurBox_M-RK-650x400x600			(PC	(powder-polymer coating «antique silver»)		
RizurBox-M-RK-745x745x630	_					
☐ RizurBox-M-RK-800x500x500 ☐ RizurBox-M-RK-2200x1000x600 ☐ RizurBox-M-RK-800x600x500 ☐ RizurBox-M-RK-x_x_x_ ☐ RizurBox-M-RK-800x1100x600 Vertically-split ☐ RizurBox-M-RK-1000x600x500 ☐ RizurBox-M-RV-1008x00 ☐ RizurBox-M-RK-1000x600x500 ☐ RizurBox-M-RV-1008x2868x5855 ☐ RizurBox-M-RK-1000x500x600 ☐ RizurBox-M-RV-1000x1280x800 ☐ RizurBox-M-RK-1000x500x1000 ☐ RizurBox-M-RV-1730x1650x1520 ☐ RizurBox-M-RK-1000x500x1000 ☐ RizurBox-M-RV-1200x1600x800 ☐ RizurBox-M-RK-1000x500x1000 ☐ RizurBox-M-RV-1200x1600x800 ☐ RizurBox-M-RK-1100x70x700 Horizontally-split ☐ RizurBox-M-RK-1100x600x600 ☐ RizurBox-M-RG-1100x600x700 ☐ RizurBox-M-RK-1200x800x600 ☐ RizurBox-M-RG-1150x1200x600 ☐ RizurBox-M-RK-1200x800x500 ☐ RizurBox-M-RG-1200x2100x1100 ☐ RizurBox-M-RK-1200x800x500 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RK-1350x500x300 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RK-1350x500x300 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RG-1400x800x500 ☐ RizurBox-M-RG-1400x800x500						
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RizurBox—M-RK-800x1100x600						
RizurBox-M-RK-1000x600x300 ☐ RizurBox-M-RV-800x1700x800 ☐ RizurBox-M-RK-1000x600x500 ☐ RizurBox-M-RV-1008x2685x585 ☐ RizurBox-M-RK-1000x600x600 ☐ RizurBox-M-RV-1000x1280x800 ☐ RizurBox-M-RK-1000x1500x1000 ☐ RizurBox-M-RV-1730x1650x1520 ☐ RizurBox-M-RK-1000x1500x1000 ☐ RizurBox-M-RV-2100x1600x800 ☐ RizurBox-M-RK-1090x890x480 ☐ RizurBox-M-RVxx ☐ RizurBox-M-RK-1100x700x700 Horizontally-split ☐ RizurBox-M-RK-1200x600x600 ☐ RizurBox-M-RG-1150x1200x600 ☐ RizurBox-M-RK-1200x600x600 ☐ RizurBox-M-RG-1150x1200x600 ☐ RizurBox-M-RK-1200x800x500 ☐ RizurBox-M-RG-1200x2100x1100 ☐ RizurBox-M-RK-1250x1800x500 ☐ RizurBox-M-RG-1400x1200x1000 ☐ RizurBox-M-RK-1250x1800x500 ☐ RizurBox-M-RG-1400x1200x1000 ☐ RizurBox-M-RK-1350x500x300 ☐ RizurBox-M-RG-1xx ☐ Tube adapter (0D=57mm) ☐ Mounting panel ☐ DIN-rail ☐ Mounting rails ☐ Other ☐ Standard (250 mm) ☐ Standard (260x340 mm) ☐ DIN_mm,mm,pcs. ☐ Lmm,pcs. ☐ Lmm,pcs. ☐ DIN_mm,mm,mm,pcs. ☐ Lmm,pcs. ☐ Lmm,pcs. ☐ Lmm,pcs.						
□ RizurBox-M-RK-1000x600x500 □ RizurBox-M-RV-1085x2685x2685x268 □ RizurBox-M-RK-1000x600x600 □ RizurBox-M-RV-1600x1280x800 □ RizurBox-M-RK-1000x800x600 □ RizurBox-M-RV-1730x1650x1520 □ RizurBox-M-RK-1000x1500x1000 □ RizurBox-M-RV-2100x1600x800 □ RizurBox-M-RK-1090x890x480 □ RizurBox-M-RV-1xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx						
☐ RizurBox-M-RK-1000x600x600x ☐ RizurBox-M-RV-1600x1280x800 ☐ RizurBox-M-RK-1000x800x600 ☐ RizurBox-M-RV-1730x1650x1520 ☐ RizurBox-M-RK-1000x1500x1000 ☐ RizurBox-M-RV-2100x1600x800 ☐ RizurBox-M-RK-1090x890x480 ☐ RizurBox-M-RV-1200x1600x800 ☐ RizurBox-M-RK-1100x700x700 Horizontally-split ☐ RizurBox-M-RK-1190x690x690 ☐ RizurBox-M-RG-1150x1200x600 ☐ RizurBox-M-RK-1200x600x600 ☐ RizurBox-M-RG-1150x1200x600 ☐ RizurBox-M-RK-1200x800x500 ☐ RizurBox-M-RG-1400x800x600 ☐ RizurBox-M-RK-1250x1800x500 ☐ RizurBox-M-RG-1400x1200x1000 ☐ RizurBox-M-RK-1250x1800x500 ☐ RizurBox-M-RG-1400x1200x1000 ☐ RizurBox-M-RK-1350x500x300 ☐ RizurBox-M-RG-1xxxx Mounting elements for the equipment: ☐ Tube adapter (0D=57mm) ☐ Mounting panel ☐ DIN-rail ☐ Mounting rails ☐ Other ☐ Standard (250 mm) ☐ Standard (260x340 mm) ☐ DIN_mm,mm,pcs ☐mm,pcs ☐mm,pcs ☐ Non-standard ☐ DIN_mm,mm,mm,pcs ☐mm,pcs ☐mm,pcs						
RizurBox-M-RK-1000x800x600	_					
□ RizurBox-M-RK-1000x1500x1000 □ RizurBox-M-RV-2100x1600x800 □ RizurBox-M-RK-1090x890x480 □ RizurBox-M-RVxx □ RizurBox-M-RK-1100x700x700 Horizontally-split □ RizurBox-M-RK-1190x690x690 □ RizurBox-M-RG-1100x600x700 □ RizurBox-M-RK-1200x600x600 □ RizurBox-M-RG-1150x1200x600 □ RizurBox-M-RK-1200x800x500 □ RizurBox-M-RG-1200x2100x1100 □ RizurBox-M-RK-1250x1800x500 □ RizurBox-M-RG-1400x1200x1000 □ RizurBox-M-RK-1350x500x300 □ RizurBox-M-RGxx ■ Tube adapter (0D=57mm) □ Mounting panel □ DIN-rail □ Mounting rails □ Other □ Standard (250 mm) □ Standard (250 x340 mm) □ DIN_mm,pcs. □ L_mm,pcs. □ Describe the required mounting parts in the field Additional information»						
RizurBox-M-RK-1090x890x480						
RizurBox-M-RK-1100x700x700						
□ RizurBox-M-RK-1190x690x690 □ RizurBox-M-RG-1100x600x700 □ RizurBox-M-RK-1200x600x600 □ RizurBox-M-RG-1150x1200x600 □ RizurBox-M-RK-1200x800x500 □ RizurBox-M-RG-1200x2100x1100 □ RizurBox-M-RK-1200x800x600 □ RizurBox-M-RG-1400x800x600 □ RizurBox-M-RK-1250x1800x500 □ RizurBox-M-RG-1400x1200x1000 □ RizurBox-M-RK-1350x500x300 □ RizurBox-M-RGxx □ Tube adapter (OD=57mm) □ Mounting panel □ DIN-rail □ Mounting rails □ Other □ Standard (250 mm) □ Standard (260x340 mm) □ DIN_mm,mm,pcs. □ L_mm,pcs. □ Describe the required mounting parts in the field «Additional information» □ Non-standard □ DIN_mm,mm,mm,pcs. □ L_mm,pcs. □ L_mm,pcs.						
RizurBox-M-RK-1200x600x600 RizurBox-M-RG-1150x1200x600 RizurBox-M-RK-1200x800x500 RizurBox-M-RG-1200x2100x1100 RizurBox-M-RK-1200x800x600 RizurBox-M-RG-1400x800x600 RizurBox-M-RK-1250x1800x500 RizurBox-M-RG-1400x1200x1000 RizurBox-M-RK-1350x500x300 RizurBox-M-RGxx Mounting elements for the equipment: Tube adapter (OD=57mm) Mounting panel DIN-rail Mounting rails Other Standard (250 mm) DIN_mm,mm, _pcs. Describe the required mounting parts in the field «Additional information» information»			·			
RizurBox-M-RK-1200x800x500 RizurBox-M-RG-1200x2100x1100 RizurBox-M-RK-1200x800x600 RizurBox-M-RG-1400x800x600 RizurBox-M-RK-1250x1800x500 RizurBox-M-RG-1400x1200x1000 RizurBox-M-RK-1350x500x300 RizurBox-M-RGxx Mounting elements for the equipment: Tube adapter (0D=57mm) Mounting panel DIN-rail Mounting rails Other Standard (250 mm) DIN_mm,mm, _pcs.						
□ RizurBox-M-RK-1200x800x600 □ RizurBox-M-RG-1400x800x600 □ RizurBox-M-RK-1250x1800x500 □ RizurBox-M-RG-1400x1200x1000 □ RizurBox-M-RK-1350x500x300 □ RizurBox-M-RGxx Mounting elements for the equipment: Tube adapter (0D=57mm) Mounting panel DIN-rail Mounting rails DIN_mm, L_mm, _pcs. □ L_mm, _pcs. □ L_mm,	_					
☐ RizurBox-M-RK-1250x1800x500 ☐ RizurBox-M-RG-1400x1200x1000 ☐ RizurBox-M-RK-1350x500x300 ☐ RizurBox-M-RGxx Mounting elements for the equipment: Tube adapter (OD=57mm)	_					
RizurBox-M-RK-1350x500x300		+_				
Mounting elements for the equipment: Tube adapter (OD=57mm)						
□ Tube adapter (OD=57mm) □ Mounting panel □ DIN-rail □ Mounting rails □ Other □ Standard (250 mm) □ Standard (250 mm) □ DINmm, Lmm, _pcs. □ Lmm, _pcs. □ Describe the required mounting parts in the field «Additional information» □ Non-standard □ DINmm, Lmm, _pcs. □ Lmm, _pcs. □ Lmm, _pcs.						
Standard (250 mm) Non-standard	Mounting elements for		ments for fr	ie equipr	nent:	Ι
Non-standard Ca60x340 mm	☐ Tube adapter (OD=57mm)	☐ Mounting panel	□ DIN-rail		☐ Mounting rails	☐ Other
Non-standard Non-standard Non-standard Non-standard DIN_mm, L_mm, _pcs. mounting parts in the field «Additional information»	Standard (250 mm)			mm	☐ Lmm,pcs.	Describe the -
Non-standard DIN mm, L mm, pcs. L mm, pcs. the field «Additional information»	□ Non-standard			mm,pcs.	☐ Lmm,pcs.	mounting parts in
🗀 Diiviiiii, Lpts.		□ Non-standard	□ DIN !		☐ Lmm,pcs.	the field «Additional
			UINMM, L	nini,pcs.	☐ Lmm,pcs.	





INQUIRY FORM Nº.

Reinforced fiberglass enclosures RizurBox-M (page 2 of 3)

Mounting elements for enclosure:	Heating:			
☐ Without mounting elements	☐ Without heating			
☐ Floor - floor stand (enclosure is mounted on a horizontal surface) . Standard height 1000 mm If not standard, please specify H= mm	□ Electric heating: □ FT-variant			
<u>Variants of floor mounting:</u> ☐ mounting under the bottom	□ ST-variant -maintaining°C (specify within the range of -40°C+50°C)			
☐ mounting to enclosure rear wall ☐ Wall hanging - rail for enclosure mounting onto vertical surface. ☐ On site fence rail	□ SR-variantmaintaining°C (specify within the range of -40°C+50°C)temperature when alarm indication is on (relay output)°C/°C			
□ On a pipeline - clamps for enclosure mounting on a pipeline Please, specify the external diameter of the pipe Ø= mm □ ptions for mounting on a pipeline: □ Horizontal pipe passes through enclosure □ Vertical pipe passes through enclosure □ Horizontal pipe passes under enclosure	☐ AR-variant Heating power: ☐ recommended by the manufacturer ☐W			
☐ Vertical pipe passes behind enclosure ☐ On a flange Please, specify flange diameter Ø=mm ☐ Other Specify the necessarry mounting elements	Heat-exchange pipe (water/steam) welded thread G3/4" thread G1/2"			
	be glands:			
Heating power cable Ømm metal hose Ømm,pcs Cable/tube Ømm metal hose Ømm,pcs Cable/tube Ømm metal hose Ømm,pcs Cable/tube Ømm metal hose Ømm,pcs Heat-insulated gland PILTpcs	Holes for cable glands and impulse lines: not drilled (supplied as a set) drilled (it's necessary to specify the holes layout in your order)			
Impulse tubing heating:				
□ Without heating				
□ Preinsulated tubing bundle of impulse lines RizurPak (see below)				
□ Soft enclosure RIZUR for impulse tubes (see below)				
Preinsulated tubing bundle	e of impulse lines RizurPak			
Length of tubing bundlem Quantity of impulse tubes inside the bundle,pcs. External diameter of impulse tubesmm Maximum temperature of the medium in the tubes°C Temperature of cleaning/steam-cleaning°C Required maintained temperature of the medium in the tube°C Maximum pressure in the tubeMPaCompression fitting for process connectionpcs. Process connection thread type: male/femaleCompression fitting for equipment connectionpcs. Equipment connection thread type male/femaleHeat shrinks for sealing bundle ends pcs. Sealing kit for junction box entry and heating cable termination Adjustable thermoregulator to maintain exact temperature inside th (shipped with a coating repair kit for installing the thermoregulator so the bundle coating)pcsInsulation repair kit in the event of external insulation damage	D=mm F=mm Tubes shipped in coils, without prelimenary cutting or other preparations. Specify the required length of bundle:m m Shipped as tube segments of specified lengths, without prelimenary sealing or other preparations Specify the required length of the bundle:			
Sealant heat-shrinkable fitting for tubing bundle entry into an encl pcs. (Please, specify enclosure wall widthmm)				

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INQUIRY FORM №_____

Reinforced fiberglass enclosures RizurBox-C (page 3 of 3)

Length of the enclosure (tubing bundle)m External diameter of impulse tubes inside the bundlemm Maximum temperature of the medium in tubes°C Temperature of cleaning/steam cleaning°C Required temperature of the medium maintained in a tube°C Heating of the pressure tap Soft enclosure for the pressure tap (root, tap, diaphragm, etc.) Please, provide a drawing of the pressure tap point
□ Soft enclosure for the pressure tap (root, tap, diaphragm, etc.)
Delivery options
□ Basic (all parts are shipped non-assembled)
□ Standard (similar to the Basic set, except the heating system and all mounting components inside the enclosure are assembled)
□ System (similar to the Standard set, except it includes all the required connecting, locking and regulating components (fittings, taps, valves, impulse tubes, pre-insulated tubing bundles RizurPak, valve assemblies, etc.)
For System set, you need the following: 1. Provide the layout of tubing/impulse framework in the enclosure 2. Specify maximum temperature of the medium in the tubes°C 3. Specify maximum pressure in the tubesMPa
□ Full set (Full set includes an assembled unit ready for connection on-site, with control and measuring equipment installed) For Full set you need the following: 1. Provide the layout of tubing/impulse framework in the enclosure 2. Provide a full list of control and measuring equipment to be installed □ the equipment is delivered by the Customer
☐ the equipment is delivered by the Supplier (specify the exact codes for the required equipment or inquiry forms with preferable manufacturers) 3. Specify maximum temperature of the medium in the tubes°C 4. Specify maximum pressure in the tubesMPa
Additional information

If the phrasing in the inquiry form seems unclear or there're any other questions, please phone for an explanation +7 (4912) 20-20-80





Protective sunshades RizurBox-C-K (fiber-glass) and RizurBox-M-K (metal)

Intended use and application area

Protective sunshades RIzurBox-C-K and RizurBox-M-K are manufactured according to all the technical regualtions and are designed for the equipment protection (EC&I, pressure sensors, and indicators, flow meters, level meters, etc.) against exposure to direct sunlight, atmosphere precipitation (snow and rain), accidental mechanical impacts.

Application area - hazardous indoor and outdoor areas, in accordance with the markings, relevant industrial safety guidelines, and manufacturer's recommendations.

Protective sunshades RizurBox-C-K and RizurBox-M-K are made from inflammable materials and have all the necessary certificates.



Design description

Protective fiberglass sunshades RizurBox-C-K are made of inflammable unsaturated polyester resin and glass-reinforced materials.

Protective metal sunshades RizurBox-M-K are made of carbon steel, stainless steel, galvanized steel, and have a welded construction. Special powder-polymer coating is used for corrosion protection.

The sunshade's coating is antistatic. It can be mounted vertically, on a vertical/horizontal stand, pipeline, etc. Standard version has all the metal mounting elements made of carbon steel with powder-polymer coating antique-silver (the colour is dark grey).

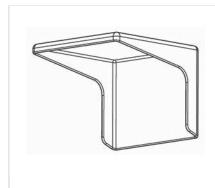
lechnical	l specification	ıs

Installation area	General industrial areas Explosion hazard zones B-1a and B-1g acc. to Regulations of equipment installation (PUE), Ch.7.3		
Operating temperature	From -70 to +70 °C		
Climatic category	UHL1 acc. to GOST 15150-69		
Resistance to aggressive environments (depending on the material)	To petroleum materials; To chemically active media; To the UV radiation		
Thickness of the sunshade's wall	1 3 mm (for the metal sunshades);3 6 mm (for the fiberglass sunshades, depending on the sunshade's dimensions)		
Material	Fiberglass; Stainless steel; Galvanized steel; Carbon steel		
Coating	Without any coating; Powder-polymer coating		
Surface resistivity (antistatic)	Less than 10 ⁹ Ohm		
Colour	Dark grey (antique-silver); RAL 7035, light-grey; Any colour acc. to RAL (on request)		
Explosion protection marking	II Gb IIC or II Gb IIB		
Warranty period	12 months 24/36 months (on request)		
Average operation time	Over 10 years		



Standard dimensions of the protective sunshades RizurBox

Protective metal sunshades RizurBox-M-K, and fiberglass sunshades RizurBox-C-K



Design variant	Reference dimensions HxWxD*, mm	
RizurBox-C-K1	200x250x260	
RizurBox-C-K2	365x320x380	
RizurBox-C-K3	430x495x440	
RizurBox-C-K4	430x750x440	
RizurBox-C-K5	400x300x300	
RizurBox-C-KX	Different dimensions upon an agreement with the manufacturer	
RizurBox-M-K5	440x500x450	
RizurBox-M-K6	440x760x450	
RizurBox-M-KX	Different dimensions upon an agreement with the manufacturer	

^{*} Sunshades' dimensions are for references. In order to get the drawings with the exact dimensions, please contact our engineering department OOO «NPO RIZUR» +7 (4912) 20-20-80, marketing@rizur.ru



Protective metal sunshade RizurBox-M-K5



Protective fiberglass sunshade RizurBox-C-K4





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Order code for the protective sunshade RizurBox

Ordering information:

 $Sunshade\ RizurBox-M-KX-600x600x300-ChS-P-1111-TS/1500-0-GS$

1	2	3	4	5	6	7
_	_	_		_	_	•

1. Design variants				
RizurBox-C-K1-200	x250x260			
RizurBox-C-K2-365x320x380		Fiberglass		
RizurBox-C-K3-430x495x440				
RizurBox-C-K4-430	x750x440			
RizurBox-C-K5-400	x300x300			
RizurBox-C-KX	xx	Fiberglass. Please, specify the dimensions HxWxD, mm		
RizurBox-M-K5-440	0x500x450			
RizurBox-M-K6-440	0x760x450	Metal		
RizurBoxc-M-KX	_xx	Metal. Please, specify the dimensions HxWxD, mm		
		r the metal sunshades)		
CS	Carbon steel			
SS	Stainless steel			
GS	Galvanized steel			
3. Coating (specify	only for the metal	sunshades)		
N	Without coating			
P	Powder-polyme	r coating		
4. Sunshade colou	. ,			
7035	RAL7035 light-gr	rey (standard for the fiberglass sunshades)		
1111 Antique-silver, dark-grey (standard for the metal sunshades)				
XXXX Other colour (specify the colour acc. to RAL)				
5. Mounting elements for the sunshade installation				
0	Without mounti			
TS/	Floor stand with clamps. Please, specify the height H*, mm			
TV/	Clamps for a vertical tube. The tube runs along the rear wall of the sunshade. Please, specify the outside diameter of the tube.			
TG/	Clamps for a horizontal tube. The tube runs along the rear wall of the sunshade. Please, specify the outside diameter of the tube.			
NP	Plate for the sunshade's mounting to the vertical surface			
XX	<u> </u>			
* Standard height	* Standard height of the floor stand H=1500mm			
6. Mounting eleme	ents for the equipm	nent installation		
0	Without mounting elements			
AG/	Tube adapter, horizontal (OD=57mm). Please, specify the height H*, mm			
AV/	Tube adapter, vertical (OD=57mm). Please, specify the height H*, mm			
MP/x	Mounting panel. Please, specify the dimensions HxW, mm			
DR/	DIN-rail. Please, specify the length L, mm			
XX	Other (specify in	written form outside the order code)		
7. Mounting eleme	ents material			
CS	Carbon steel wit	h a powder-polymer coating		
SS	Stainless steel			
GS	Galvanized steel			





INQUIRY FORM №_____

Protective sunshades RizurBox

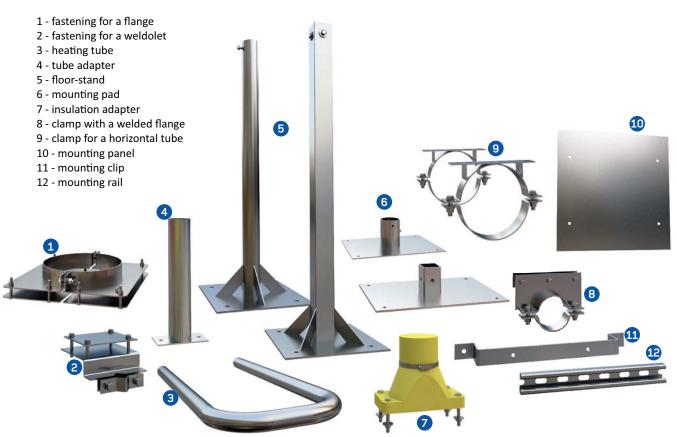
Company name			
Name of the facility			
Contact person			
Phone/fax/e-mail			
Number of sunshades	acc. to the inquiry form	pcs.	
Position tag			
Installed equipment sp	ecification		
	Design variant		Mounting elements for the sunshade
Design variant	Dimensions HxWxD, mm	Material	□ Without
□ RizurBox-C-K1	200x250x260	Fiberglass	☐ Floor stand complete with clamps Standard height 1500 mm
□ RizurBox-C-K2	365x320x380		If not standard, specify H= mm
□ RizurBox-C-K3	495x440x430		☐ Clamps for mounting on a tube Please, specify the outer diameter Ø of the tube mm
□ RizurBox-C-K4	750x440x430		☐ Horizontal tube
□ RizurBox-C-K5	400x300x300		□ Vertical tube
□ RizurBox-C-KX	xx		☐ Plate for the vertical mounting of the sunshade
□ RizurBox-M-K5	440x500x450		□ Other (specify the necessary mounting elements in the field «Additional data»)
□ RizurBox-M-K6	440x760x450	Metal	
□ RizurBox-M-KX	xx		
Material (only for RizurBox-M-K)			Equipment mounting
□ Carbon steel			□ Tube adapter OD=57mm
□ Stainless steel			Specify the height H= mm
□ Galvanized steel			│ □ Vertical adapter │ □ Horizontal adapter
Coating (only for RizurBox-M-K)			☐ Mounting panel Specify the dimensions HxW:x mm
□ Without coating			□ DIN-rail. Specify the length L= mm
□ Powder-polymer coa	ting		□ Other (specify the necessary mounting elements in the field «Additional data»)
	Colour		Mounting elements material
□ RAL7035 (light-grey, standard for RizurBox-C-K) □ Antique silver (dark grey, standard for RizurBox-M-K) □ Other colour acc. to RAL			□ Carbon steel with a powder-polymer coating □ Stainless steel □ Galvanized steel
Additional data			1

If the phrasing in the inquiry form seems unclear or there're any other questions, please phone for an explanation +7 (4912) 20-20-80





Mounting elements for enclosures



Design description

Mounting elements are used both for installation of the enclosures themselves (on-site in the required position) and the protected equipment inside them.

Mounting clips (11) attached to the bottom or back surface are used for the installation of the enclosure on a horizontal or vertical surface.

Floor-stand (5) with an attached mounting pad (6) are used in order to install the enclosure at a certain distance from a horizontal surface.

A special fastening (2) is used for the mounting of small enclosures, such as Rizur-Box-C-Multi. Big enclosures are mounted onto the pipelines with the help of the clamps for a horizontal tube (9). In this case, the weldolet enters the enclosure through the opening in its bottom surface.

Heating enclosures with diagonal, horizontal, and vertical openings are mounted to pipelines with the help of clamps with welded flanges (8).

An insulation adapter (7) is used to ensure thermal insulation of the cable glands for the impulse lines.

If the enclosure is to be heated with hot water/steam then a heating tube (3) should be placed inside.

Mounting rails (12), mounting panels (10), and tube adapters (4) are used to install equipment inside the enclosure.

Some other mounting elements can be used depending on specific technical requirements.



Example of equipment mounting

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Supports and stands



Design description

Supports and stands manufactured by OOO «NPO RIZUR» are designed for the installation of the control and measuring equipment (EC&I). The products are easy to assemble and mount combined with various elements. By choosing supports and stands manufactured OOO «NPO RIZUR» you can:

- mount EC&I on-site;
- obviate the welding process;
- minimize the mounting time.

Technical specifications

Material	 Carbon steel with polymer powder coating (standard) Stainless steel AISI 304, AISI 316, 12X18H10T Different material upon the customer's request
Climatic category	UHL1
Coating (if required)	 Conventional galvanizing Powder coating Other types of coating and corrosion coating upon the customer's request
Coating (if required)	High bearing capacity Applicability in harsh media

Supports and stands manufactured by OOO «NPO RIZUR» can be shipped in accordance with the customer's technical specifications and dimensions.



Vertical pipe stand RIZUR-CVK

Vertical pipe stand RIZUR-CVK is used for the installation of equipment and instrumentation.

Product name	H (height), mm	Ø (diameter), mm
RIZUR-CVK-1800-50	1800	50
RIZUR-CVK-3000-80	3000	80
RIZUR-CVK-XXX-XX	other dimensions - on request	



Vertical pipe stand with narrowing RIZUR-CVKS

Vertical pipe stand with narrowing is used when there's a need to mount a group of equipment or instrumentation onto one base.

Mounting height of the equipment or instrumentation on RIZUR-CVKS stand can be regulated.

Product name	H (height), mm	Ø (diameter), mm
RIZUR-CVKS-3500-100/50	3500	100/50
RIZUR-CVKS-4500-150/100	4500	150/100
RIZUR-CVKS-XXX-XX/XX	other dimensions - on request	



Vertical double pipe stand RIZUR-CVKD

RIZUR-CVKD is used for the installation of two pieces of equipment at the same height. It helps to optimize the space the stands take up.

Product name	H (height), mm	Ø (diameter), mm
RIZUR-CVKD-1600-50	1600	50
RIZUR-CVKD-2600-80	2600	80
RIZUR-CVKD-XXX-XX	other dimensions - on request	



Vertical C-channel stand RIZUR-CShV

Vertical C-channel stand RIZUR-CShV is designed for severe loads. Installation of the equipment or instrumentation is possible both by bolting and welding.

Product name	H (height), mm	C-channel number
RIZUR-CShV-1510-10P	1510	10P
RIZUR-CShV-1610-10P	1610	10P
RIZUR-CShV-XXX-XX	other dimensions - on request	





Support with wall fastening RIZUR-OKS

Support RIZUR-OKS is designed for the mounting of the measuring equipment to the wall. In the standard version, distance to the wall is 200mm, the length of the mounting seat - 500mm.

Product name	H (height), mm	Ø (diameter), mm
RIZUR-OKS-500-50	500	50
RIZUR-OKSD-700-50 (double)	700	50
RIZUR-OKS-XXX-XX	other dimensions - on request	



Mounting flange RIZUR-OF

Mounting flange RIZUR-OF is used for the vertical/horizontal installation of a bar. Mounting holes are adapted for the anchorage.

Product name	H (height), mm	Plate thickness, mm
RIZUR-OF-215x140-10	215x140	10
RIZUR-OF-XXXxXXX-XX	other dimensions - on request	



Adapters

Adapters are used for the connection and vertical erection of supports of various diameters.

Product name	Adapter's size, mm	Extension length, mm
RIZUR-P50x75 (square)	50	75
RIZUR-P50x75 (square) threaded	50	75
RIZUR-P50x200 (square)	50	200
RIZUR-P50x200 (square) threaded	50	200
RIZUR-P50x200 (circle)	50	200
RIZUR-PXXxXXX	other dimensions - on request	





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