

Vineta Ltd., engineering plant

Product Catalog

www.vineta.ru/en





Table of contents

Water Treatment and Preparation Systems Fresh water desalination units Units to treat fresh water for domestic use Oily water separators СНЛВ type Waste water treatment units УОСВ type Sea water desalination unit YOMB type Ballast water treatment systems СУБВ type	1.0 8 9 10 11 12 14
Heat-exchange Equipment Coolers ΟΚΠ type Coolers ΟΚΗ type Coolers ΟΠΒ type Charge air coolers Marine steam oil heaters ΠΜ type High-speed water heaters ΠC type Capacitive water heaters ΠΕ type High-speed water heaters Πβ type High-speed water heaters Πβ type High-speed water heaters Πβ type Flow-through hot-water heater ΠΒ-15 Exhausted steam condensers XB type Exhausted steam condensers XB200 type Air-steam drier Flow-through oil heater ΠΜΠ-1500	2.0 16 17 21 22 23 24 25 26 27 28 29 30 32
 Fuel preparation equipment Fine fuel filter – separator ΦCT type Fuel filter ΦT type Diesel fuel separation unit БC type Diesel fuel static automatically controlled separation unit CCAΦ type Oil separation unit БСМп type Б-3B and ЛЗ-КТЗ oil separation unit БСП-02 type Oil separation unit with heating БСП-01 type 	3.0 34 35 36 37 38 39 40
Filters • Sea water filters • Flanged sea water filters • Port sea water filters • Screen inline sea water, oil and fuel filters with durite attachment • Oil and fuel filters • Flanged inline oil and fuel filters • Flanged slotted oil and fuel filters • Portable oil and fuel filters • Port slotted oil and fuel filters	42 43 44 45 46 47 48



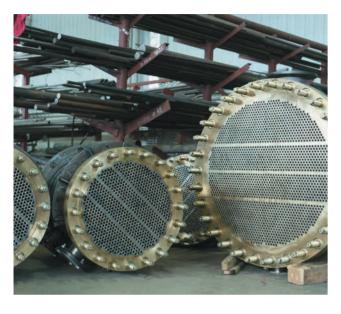
		40
	Flanged duplex filters with the switching unit of plug type	49
	Port duplex filters with the switching unit of plug type iesel fuel filters	50
		E1
	Flanged angle filters with nonwoven cartridge Screen duplex filters	51 52
	Automatic fuel filters	
		53
•	ther filters	E 4
	Flanged fresh water filters	54
	Port screen single filters	55
	Duplex screen and disc filters	56
	lon-exchange filters	57
	Deodorizers	58
	Steam strainers Steam strainers	59
	Feed water filters	60
•	Condensate filters	61
Δi	r and Gas Purification Equipment	5.0
	• •	5.0
O Sy	stem to clean and cool exhaust gas of heat engines	63
	ir separators	64
o In	ertial separator, single-stage, hinged version	65
o In	ertial separator, two-stage, one-piece case	66
o Pr	Teurnatic pressure tarks (nyurorors)	68
• A	ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel	7.0 70 71 72 73
• A	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1.	7.0 70 71 72 73 74
• A	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates	7.0 70 71 72 73 74 75
• A • A • A • B • C • C • C • C • C • C • C • C • C • C	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1.	7.0 70 71 72 73 74
• A • • • • • • • • • •	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads	7.0 70 71 72 73 74 75 76 77
Maria A	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Ther Equipment	7.0 70 71 72 73 74 75 76
Maria A	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment olution storage tanks	7.0 70 71 72 73 74 75 76 77
Otto Sci	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads cher Equipment blution storage tanks cam fire extinguishing units	7.0 70 71 72 73 74 75 76 77
Otto	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment Solution storage tanks soam fire extinguishing units Solution preparation tanks	7.0 70 71 72 73 74 75 76 77
Ot	ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment Solution storage tanks soam fire extinguishing units Solution preparation tanks seeder	7.0 70 71 72 73 74 75 76 77
Ot	arine Valves ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eeck plates ght flow indicators eak-tight locking vent heads Ther Equipment blution storage tanks cam fire extinguishing units clution preparation tanks eeder and gearing to control valves	7.0 70 71 72 73 74 75 76 77 8.0 81 82
Ot	ir pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment Solution storage tanks soam fire extinguishing units Solution preparation tanks seeder	7.0 70 71 72 73 74 75 76 77 8.0 81 82 83
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Ot	Air pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment Oution storage tanks count fire extinguishing units olution preparation tanks eeder od gearing to control valves adiators (vertical, horizontal, single and two-row) last signal	7.0 70 71 72 73 74 75 76 77 8.0 81 82 83 84 85 86
Ot	Air pipe automatic closing devices Air pipe automatic closing device with guard mesh and float. Type 1. Steel Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. eck plates ght flow indicators eak-tight locking vent heads Cher Equipment Oution storage tanks count fire extinguishing units olution preparation tanks eeder od gearing to control valves adiators (vertical, horizontal, single and two-row) last signal	7.0 70 71 72 73 74 75 76 77 8.0 81 82 83 84 85 86
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About Us





Our enterprise has been designing and producing products for the navy and civil feet, ship repair, nuclear industry, transport and fuel and energy complex for more than 25 years.

The enterprise was founded on July 25th, 1996. Office premises and production facilities are located in Nikolskoe, Tosno district, Leningrad region.

The enterprise was founded by specialist in shipbuilding and repairing in order to meet current needs of shipbuilding and ship repairing yards in high-quality ancillary equipment: marine valves, filters, heat exchangers, fuel and water preparation and treatment systems, etc.

Within a relatively short period of its brisk growth, Vineta Ltd. has become fully-integrated state-of-the-art enterprise: from the design engineering up to the finished-product output, subject to the quality control at all production stages. It minimizes the quantity of the faulty products and increases the labour productivity in the whole.

We quickly and effectively respond to occurring demands of the industry and effectively adapt to fast-changing market conditions. The range of products, designed and produced by our enterprise, includes more than a thousand items.

At the time being we produce the following products in lots:

- Water treatment and preparation systems
- Heat exchangers
- Fuel preparation equipment
- Filters of various types
- · Air and gas purification equipment
- Marine diesel engines
- Equipment of the water-supply systems
- Marine valves

Own design bureau, production areas, precision and highperformance state-of-the-art equipment, future-oriented technologies, as well as highly qualified personnel allow us to accept orders on non-standard equipment under specific requirements of our Customers.

We cooperate with leading Russian shipyards and design bureaus.

The enterprise was given 85,04 points and A category (low risk category) according to results of the audit of United Shipbuilding Corporation.











Our products:



Water treatment and preparation systems



Filters of various types



Fuel and oil preparation equipment



Small vessels out of composite



Air and gas purification



Heat exchangers



Marine diesel engines



Equipment of water-supply systems



Marine valves



Other equipment

1996
Year of foundation

21,5

Production and managerial premises, th. m²

1000+

Total range of products, more than

85,04

Points by USC's audit

Fully-integrated enterprise



Own design bureau



Test and X-ray laboratory



Manufacturing preparation



Product acceptance by QC department



Advanced machinery equipment

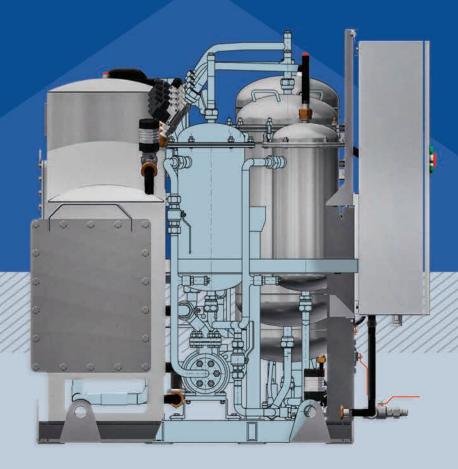


Packing and shipment



Water Treatment and Preparation Systems

- Fresh water desalination units
- Units to treat fresh water for domestic use
- Oily water separators СНЛВ type
- Waste water treatment units YOCB type
- Sea water desalination unit YOMB type
- Ballast water treatment systems СУБВ type

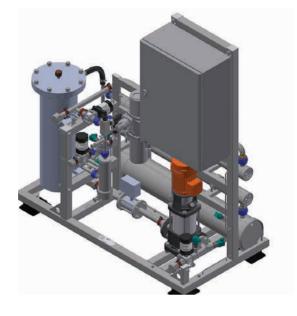


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Fresh water desalination units

Function

• The unit is intended to desalinate fresh water



Technical data, main parameters and characterist	tics
Name	Value
Medium	fresh water under Sanitary Rules and Regulations 2.1.3684 and 1.2.3685 with initial salt content max 500 mg/l
Temperature, °C	from +5 up to +32
Fresh water flow rate, m³/day	max 13.0
WP, MPa	0.7 in fresh water unit
Capacity, m³/h	1.0
Desalinated water quality:	salt content – max 5 mg/l; water hardness (under ΓΟCT 31865-2012) – max 4 dH
Required extreme inlet pressure, MPa	from 0.05 up to 0.10
Control board/location	yes/in-frame
Power, kW	Max 5.0
Dry weight, kg	300
L×W×H	1380 × 706 × 1600
Maintenance area (availability)	Yes/in-frame

Other technical requirement under the specification



Units to treat fresh water for domestic use

- The unit is intended to onboardly treat domestic fresh water and supply it to the consumers under applicable sanitary rules
- The unit secures the storage, distribution, chlorination, decontamination and heating of fresh water.
- The unit incorporates MB-50 mineralizer to fortify water with minerals
- The control and monitoring of parameters are carried out using the control board, located on the unit frame



Technical data, main parameters and characterist	tics
Name	Value
Medium	Fresh water for domestic use
Temperature, °C	up to +30
WP, MPa	0.4
Capacity, m³/h	cold water – 8.5; hot water – 1.0
Control board/location	yes/in-frame
Power, kW	42.0
Dry weight, kg	2110
L×W×H	5790 × 2500 × 2400
Maintenance area (availability)	yes



Oily water separators CHЛВ type

Function

- Oily water separator is intended to purify ship bilge water from oil products under requirements of MEPC.107 (49).
- It is a three-stage purification system, consisting of the following equipment installed and mounted in series on a single frame:
 - preliminary treatment unit,
- · intermediate filter,
- fine filter,
- single-screw pump,
- NEVA-412 oil products content signaling device,
- control board
- Approval of the Russian Maritime Register of Shipping



Technical data, main parameters and characterist	tics		
Name		Value	
Index	СНЛВ-1,0	СНЛВ-2,5	СНЛВ-5,О
Medium	oily (bilge) water (the compos	ition of the inlet medium to be puri	fied is under the specification)
Temperature, °C		roducts (black product), with its de oducts (diesel fuel), with its density	
WP, MPa	0.4	max 0.5	max 0.4
Capacity, m³/h	1.0	2.5	5.0
Control board/location		yes/in-frame	
Dry weight, kg	1000	770	1370
L/W/H	1730 / 1505 / 1560	1300 / 1200 / 1500	1500 / 1815 / 1720
Power, kW	2.5	7.0	10.0



Waste water treatment units YOCB type

- The unit is designed to disinfect bilge wastewater and galley room water
 - The unit secures continuous automatic operation;
 - Complies with the requirements of MEPC 227 (64);
 - Approval of the Russian Maritime Register of Shipping.



Technical data, main parameters and characterist	ics		
Name		Value	
Index	YOCB 10	YOCB 21	YOCB 50
Type of the unit		Physico-chemical	
Type of the disinfectant		35% hydrogen dioxide	
Medium		Black- and greywater, sea water	
Capacity, m³/day, min	10	21	50
Power, kW, max	2.5	3.0	7.0

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Sea water desalination unit YOMB type

Function

 The unit is intended to prepare portable quality water out of sea water.

Advantages:

- Continuous automatic operation;
- Remote control;

VINETA ENGINEERING PLANT

- The climatic version is OM4 as per FOCT 15150 to operate under ambient temperature up to +50 °C and relative humidity of 98%;
- Desalinated water complies with the requirements of Sanitary Rules and Norms 2.1.3684-21.

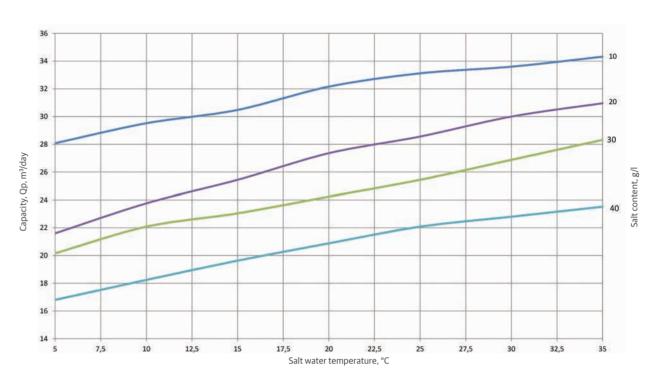


Technical data, main parameters and characterist	tics		
Index	YOMB-005.10.01	YOMB-015.10.01	УОМВ-030.10.01
Fresh water capacity, m³/day	5 ¹⁾	15 ¹⁾	30 ¹⁾
Medium		sea water	
Temperature, °C		-2+ 32	
Flow rate, m³/h	2.7	3.5	10.0
WP in the desalination unit, MPa		6.5	
Max sea water salt content, g/l		42	
Required inlet excessive pressure, MPa	from 0.25	5 up to 0.6	from 0.25 up to 0.5
Control board/location	yes/separately	yes/in-frame	yes/separately
Power, kW	4.0	4.3	12.3
Dry weight, kg	300	460	734
L/W/H	1128 / 676 / 774	1200 / 864 / 1021	1300 / 888 / 800
Maintenance area (availability)		yes	

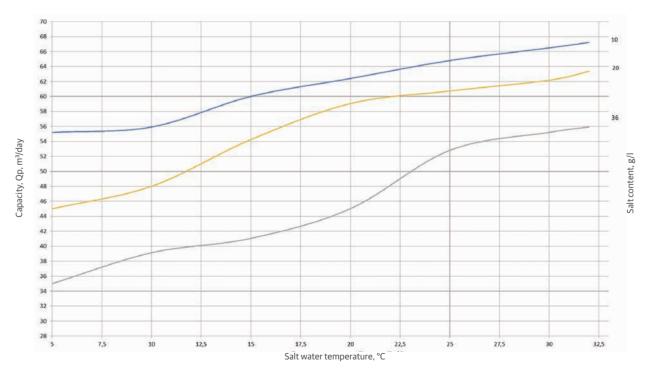
- ¹⁾ Standard terms for the capacity calculation:
 - sea water salt content 36 g/l
 - sea water temperature +5 °C

The capacity of units under conditions other than standard ones is shown in diagrams (see Pic. 1 and 2).

Other technical requirements are under the specification.



Pic. 1. Dependence of YOMB-015.10.01 capacity on the sea water temperature and salt content



Pic. 2 Dependence of YOMB-030.10.01 capacity on the sea water temperature and salt content



Ballast water treatment systems СУБВ type

Function

- The system is intended to purify the ballast water;
- Purification method is the ozone treatment;
- It complies with the D2, D3 rules of International Convention for the Control and Management of Ships' Ballast Water and Sediments (2004);
- It is equipped with the control board and monitoring panel.



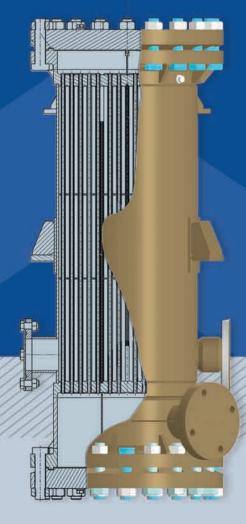
Technical data, main parameters and characterist	tics				
Name			Value		
Capacity, m³/h	160	250	500	1000	3000
Hydraulic resistance, MPa (kgf/cm²), max			0.05 (0.5)		
Filtration degree, mcm			50		
Max WP, MPa (kgf/cm²)			0.6 (6.0)		
Power: - Frequency, Hz - Voltage, V			50 380		



Heat-exchange Equipment

Coolers ΟΚΠ type

- Coolers OKH type
- Coolers ΟΠΒ type
- Charge air coolers
- Marine steam oil heaters ΠM type
- High-speed water heaters ΠC type
- Capacitive water heaters ΠΕ type
- High-speed water heaters ΠЭ, ΠΠЭ type
- Flow-through hot-water heater ΠΒ-15
- Exhausted steam condensers XB type
- Exhausted steam condensers XB200 type
- Air-steam drier
- Flow-through oil heater ΠΜΠ-1500



Index	ОКП 3,4-170	4-170	ОКП17-420	420	ОКП 29-420	-420	ОКП 58-600	909	ОКП 9	ОКП 90-700			ОКП 190-920	0-920		
Medium to be cooled	Fresh water	ater	Steam-turbine oil Tn-46 FOCT 9972-74 or T46 TY38-101251-77	rrbine FOCT or T46 251-77	Gas turbine oil FOCT 10289-79	oine CT -79	Steam- turbine oil Tn-46 FOCT 9972-74 or 746 TY38- 101251-77	Steam- turbine oil FOCT 10289-79	Steam- oil Tn-4 9972-7. TY38-1	Steam-turbine oil Tn-46 FOCT 9972-74 or T46 TV38-101251-77	65% mixture of steam-turbine oil rOCT 10289-79 and 35% mixture of MC-20 oil rOCT 21743-76	ture of rbine oil 289-79 mixture 20 oil 743-76	Steam-turbine oil Tn-46 FOCT 9972-74	rbine oil T 9972-74	Fresh water	vater
Inlet temperature of the medium to be cooled, °C	36	06	55	130	120	130	55	130	70	130	70	06	72	93	63	72
Outlet temperature of the medium to be cooled, °C	22	52	35	28	50	28	35	28	38	58	40	20	42	53	35	40
Flow of the medium to be cooled, kg/sec (t/h)	0.83	1.3 (5.0)	2.7 (10.0)	(0:	2.7 (10.0)	(0:	13.8 (50.0)	0.0)	11 (40	11.0 (40.0)	27.7 (100.0)	38.8 (140.0)	27.7 (100.0)	38.8 (140.0)	29.1 (105.0)	50.0 (180.0)
Pressure of the medium to be cooled, MPa (kgf/cm²)	1.0 (10.0)	0.0)	1.0 (10.0)	(0:	1.0 (10.0)	(O:	0.6 (6.0)	(0)	1.0 (1.0 (10.0)			1.0 (10.0)	0.0)		
Inlet temperature of the cooling medium, $^{\circ}\text{C}$	15	28	20	30	20	30	20	30	20	30		20			25	10
Flow of the cooling medium, kg/sec (t/h)	2.78 (10.0)	4.17 (15.0)	6.9 (25.0)	10.8 (39.0)	11.1 (40.0)	0.0)	27.7 (100.0)	44.4 (160.0)	19.4 (70.0)	44.5 (160.0)		55.5 (200.0)		83.3 (300.0)	(400.0)	00:0)
Pressure of the cooling medium, MPa (kgf/cm2)								0	0.6 (6.0)							
Overall dimensions, L × W × H, mm	1395 × 290 × 335	290	1351 × 600 × 730	0000	1760 × 600 × 730	009	1974 × 780 × 931) × 931	2015 × 9(2015 × 900 × 1055			2450 × 1170 × 1290	.0 × 1290		
Weight, kg	441	_	209		633		1246		21	2110			3570	0		

Coolers OKH type

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Index		ОКН 0,2-74-1МД	4-1МД		ОКН 2,5-170-2МД	70-2МД		OKH 7,5-310-1	-310-1	ОКН 9,7-420-1
Medium to be cooled	Oil and hydraulic oil	draulicoil	Fresh and distilled water	Spindle improved petrole- um-based plain mineral oil, hydraulic fire resistant fluid	oved petrole- in mineral oil, resistant fluid	Fresh water	water	Fresh water	vater	Fresh water
Mode	-	2	m	-	7	т	4	-	2	-
Inlet temperature of the medium to be cooled, °C	57.0	70.0	80.0	60.0	40.0	18.5	36.0	0.06	0	0.09
Outlet temperature of the medium to be cooled, °C	55.0	65.0	75.0	40.0	35.0	15.0	22.0	76.0	73.0	55.0
Flow of the medium to be cooled, kg/sec (t/h)	0.4(1.5)	0.4(1.5)	0.4(1.5)	1(3.6)	1.3 (4.8)	0.8 (3.2)	0.83 (3.0)	8.3(30.0)	0.0)	25.0(90.0)
Pressure of the medium to be cooled, MPa (kgf/cm²)		0.6(6.0)	6		1.0(10.0)	0.0)		0.6(6.0)	.0)	1.0(10.0)
Cooling medium					Sea	Sea water				
Inlet temperature of the cooling medium, $^{\mathrm{o}}\mathrm{C}$	32	30	28	20	10	6	15	32	30	28
Flow of the cooling medium, kg/sec (t/h)	0.8(2.8)	0.8(2.8)	0.8(2.8)	2.7(10.0)	0.5 (2.0)	1.9(7.0)	2.7 (10.0)	min 8.3 (30.0)	13.8(50)	19.4 (70)
Pressure of the cooling medium, MPa (kgf/cm²)		4.3(43.	(0:		4.3(43.0)	3.0)		0.6(6.0)	(0)	0.6(6.0)
Overall dimensions, L × W × H, mm		559 × 188 × 169	× 169		1000 × 290 × 340	10 × 340		954 × 460 × 530	0 × 530	1125 × 600 × 725
Weight, kg		27.5			129	0		265	25	413

Index				ОКН 9,7-420-2	2			OKH15,8-420-1	3-420-1	Ŏ	ОКН 15,8-420-1П	_
Medium to be cooled				Fresh water				Distilled water FOCT 6709	r FOCT 6709	Distille	Distilled water FOCT 6709	6029
Моде	-	7	m	4	ιΩ	9	7	-	2	-	2	m
Inlet temperature of the medium to be cooled, °C		~	85		09		75	47	38	51.7	53.7	56
Outlet temperature of the medium to be cooled, °C	44	55	45	54	55	56	09	36	35		45	
Flow of the medium to be cooled, kg/sec (t/h)		2.2	2.2(8.0)		25.0(90)	(06)	11.1(40)	4.1(15)	6.9 (25)	4.1 (15)	4.1(15)	4.1(15)
Pressure of the medium to be cooled, MPa (kgf/cm²)				1.0(10.0)				1.0(10.0)	0.0)		1.0(10.0)	
Cooling medium					Sea water						Fresh water	
Inlet temperature of the cooling medium, °C	78	28	30	21.4	28	32	28	28	30		40	
Flow of the cooling medium, $kg/sec\left(t/h\right)$	17.5(63)	16.4(59)	17.5(63)	17.5(63)	19.4 (70)	19.4(70)	11.1(40)	8.3 (30)	6.9(25)	23(6.4)	8.3 (30)	7.5(27)
Pressure of the cooling medium, MPa (kgf/cm²)				0.6(6.0)				4.3(43.0)	3.0)		4.3(43.0)	
Overall dimensions, L × W × H, mm			_	1125 × 600 × 725	55			1080 × 600 × 650)0 × 650	11:	1125 × 600 × 650	
Weight, kg				418				613	m		591	

VINETAENGINEERING PLANT

Coolers OKH type

Index	ОКН 26,9-420-1	OKH 26,9-420MK	9-420MK	OKH28,6-600-1	OKH 108-700-2
Medium to be cooled	Distilled water FOCT 6709	Hydraulic oil Tn-46 F	Hydraulic oil Tn-46 FOCT 9972-74 or T46	Fresh water	High-purity water
Mode	1	-	2	1	1
Inlet temperature of the medium to be cooled, °C	40.5	56	70	60.0	12.0
Outlet temperature of the medium to be cooled, °C	34.0	37	45	55.0	8.0
Flow of the medium to be cooled, kg/ sec (t/h)	15.0(54.0)	5.27(19.0)	19.0)	(38.8)140.0	22.2(80.0)
Pressure of the medium to be cooled, MPa (kgf/cm²)	1.0(10.0)	0.6(0.6(6.0)	0.6(6.0)	1.0(10.0)
Cooling medium	Sea water	Fresh water	water	Sea water	Sea water
Inlet temperature of the cooling medium, °C	28.0	ĸ	32	28.5	7.0
Flow of the cooling medium, kg/sec (t/h)	22.2(80.0)	27.7(100.0)	10.25(37.0)	27.7(100.0)	83.3(300.0)
Pressure of the cooling medium, MPa (kgf/cm²)	4.3(43.0)	1.0(10.0)	0.0)	1.0(10.0)	0.6(6.0)
Overall dimensions, L × W × H, mm	1560 × 600 × 725	1619 × 921 × 881	21×881	1645×780×936	2262 × 900 × 1056
Weight, kg	758)9	608	1013	2251

Coolers OKH type

Index		OKH 220-1050-1			ОКН 220-1050-3	1050-3		OKH 376-1050-1
Mode	1	2	m	1	2	m	4	-
Cooling medium	Hydraulic oil Tn- 46 FOCT 9972	Fresh water	Hydraulic oil Tn- 46 FOCT 9972 or T46 OCT 38.01281	Hydraulicoil Tn-46 FOCT 9972 or 746 OCT 38.01281	oil Tn-46 2 or T46 .01281	Fresh water	water	Hydraulic oil Tn-46 FOCT 9972 or T46 OCT 38.01281
Inlet temperature of the medium to be cooled, °C	09	72	70	59	70	63	72	55
Outlet temperature of the medium to be cooled, °C	42	40	50	42	50	35	40	38
Flow of the medium to be cooled, kg/sec (t/h)		50(180.0)		50(180.0)	0.0)	29.1(105.0)	50(180.0)	55.5(200.0)
Pressure of the medium to be cooled, MPa (kgf/cm²)		1.0(10.0)			1.0(10.0)	(0.0		0.11(1.1)
Cooling medium					Sea water			
Inlet temperature of the cooling medium, °C	25	25	30	25	30	25	2	25
Flow of the cooling medium, kg/sec (t/h)	83.3(300.0)	111.1(400.0)	125(450.0)	83.3(300.0)	125(450.0)	111.1(400.0)	00.00	97.2(350.0)
Pressure of the cooling medium, MPa (kgf/cm²)		0.6(6.0)			0.6(6.0)	6.0)		0.012(0.12)
Overall dimensions, L \times W \times H, mm		3045 × 1310 × 1398			3045 × 13	3045 × 1310 × 1398		4630 × 1310 × 1398
Weight, kg		4337			52	5266		5703



Coolers O∏B type

Function and Technical data

• The cooler is intended to cool oil, hydraulic systems liquids, fresh and distilled water, as well as sea water in systems of marine power stations, auxiliary and other systems of ships and vessels

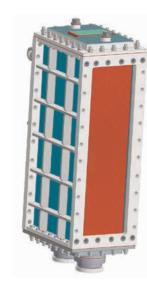


Technical data, main parameters and	character	istics						
Index	ОПВ	14-3	ОПІ	B-17	OED 47	ОПЕ	3-135	OED 155
Index	mode 1	mode 2	mode 1	mode 2	• ОПВ-47	mode 1	mode 2	ОПВ-155
Medium to be cooled	Fresh	water	Fresh or dis	tilled water	Fresh or distilled water		Fresh water	
Inlet flow of the medium to be cooled, m³/h	30	50	22.4	28	100	200	150	105
Inlet temperature of the medium to be cooled, °C	42	43	37.7	48	42	40	37.7	from +40 up to +82
Outlet temperature of the medium to be cooled, °C	38	37	35	42.5	38	36	25	-
Outlet temperature of the cooling medium, °C		m -2 o +33	from -2 up to +32	from +22 up to +36	32	32	20	from -2 up to +32
Inlet flow of the cooling medium, m³/h, max	30	50	3	0	100	100	200	
Design (operating) pressure of the cooling medium, MPa (kgf/cm²), max	6.0 (6.0 (60.0) 6.4 (64.0) 0.5 (5.0)			6.4 (64.0)		8.5 (85)	
Design (operating) pressure of the medium to be cooled, MPa (kgf/cm²), max	0.4	(4.0)	0.7	0.7 (7.0) 1.0 (10)			(10)	
Hydraulic resistance of the medium to be cooled, MPa (kgf/cm²), max	0.03 (0.3)	0.065 (0.65)	0.014 (0.14)	0.02 (0.2)	0.05 (0.5)	0.08	(0.8)	0.07 (0.7)
Hydraulic resistance of the cooling medium, MPa (kgf/cm²), max	0.035 (0.35)	0.075 (0.75)	0.023 (0.23)	0.02 (0.2)	0.06 (0.6)	0.016 (0.16)	0.003 (0.03)	0.017 (0.17)
Heat-transfer surface, m ²	13	3.7	16	5.7	45-50	135		155
OD and WT of the heat-exchange tube, mm			10x1.5				14x1.5	
Q-ty of heat-exchange tubes, pcs.	53	38	78	38	876	18	66	664
Weight, kg	335,	/445	43	30	763	2500	/3650	3778/4958
Overall dimensions, mm	565×58	80×1265	1303×7	717×718	2475×717 ×842		×1150 246	3350×1180 ×1100

Charge air coolers

Function and Technical data

 The charge air cooler is intended to cool charge air in the dieselgenerator set.



Technical data, main parameters and	characteristics		
Index	20HB.000-01 OM4	20HB.000-06-02 OM4	6ДМ-185ВС
Medium to be cooled		Charge air	
Flow of the medium to be cooled, kg/sec (kg/h)	0.7(2700)	1(3600)	1.4(5040)
Inlet temperature of the medium to be cooled, K(°C)	423(150)	433(160)	543(270)
Outlet temperature of the medium to be cooled, K(°C)	348	3(75)	338(65)
Inlet relative pressure of the medium to be cooled, kPa (kgf/cm²)	118(1.2)	186(1.9)	534(5.34)
Pressure drop in the cavity of the medium to be cooled, kPa (kgf/cm²)		5(0.5)	
Cooling medium	Sea v	water	Cooling fluid of the fresh water circuit of the engine cooling system
Flow of the cooling medium, kg/sec (kg/h)	5.6(20	6.5	
Inlet temperature of the cooling medium, K (°C)	313	323(50)	
Inlet relative pressure of the cooling medium, kPa (kgf/cm²)	245	(2.5)	620(6.2)
Pressure drop in the cavity of the cooling medium, kPa (kgf/cm²)	44.1(0.45)	30(0.3)
Overall dimensions,L×W×H, mm	370×310×510	370×310×610	258×190×625
Weight, kg	115	130	95



Marine steam oil heaters ΠM type

Function and Technical data

- Marine steam oil heaters ΠM type are intended to heat oil in oil separation systems as well as for other purposes in electric power installations of ships and watercrafts.
- Principle of operation: the medium to be heated enters the tube cavity, washed with the steam, is heated to a certain temperature and delivered to the consumer.
- Type: shell-and-tube with U-shaped heat-exchange tubes.

Technical data, main parameters and characteristics

- Medium to be heated: M16Д and M-16E30 engine oil, T57 turbine oil, spindle improved petroleum-based plain mineral oil.
- Heating medium: saturated steam.



recimical data; main parameters and character					
Index	ПМ 1,7Г	ПМ 6,5В	ПМ 15-В-10М-1		
Medium to be heated in the tubular space		Oil			
Inlet temperature of oil, °C	15	30	30		
Outlet temperature of oil, °C	75	90	90		
Design (operating) pressure of oil, MPa (kgf/cm^2), max		0.8(8)			
Heating medium in the intertubular space		Saturated steam			
	Data on the heating mediu	m:			
Design (operating) pressure of saturated steam, MPa (kgf/cm^2), max		1.6(16)			
	General data				
OD and WT of heat-exchange tube, mm	12x1.5				
Heat-transfer surface, m ²	1.74	6.46	14.7		
Q-ty of heat-exchange tubes, pcs.	30	90	159		
Overall dimensions, L×W×H, mm	985×374×420	1373×506×618	1613×621×641		
Weight, kg	105	315	484		



High-speed water heaters ΠC type

Function and Technical data

- High-speed water heaters ΠC type are intended to heat fresh washing water;
- Heaters are part of the equipment of sanitary and amenity facilities (shower and wash rooms, galleys, sculleries);
- Type: shell-and-tube;
- Heating element is of a helical spiral form;
- Operating position: vertical;
- Heating medium: dry saturated steam.



Technical da	ta, main parameters and	d characteristics				
Index	Designation	Medium	Туре	Weight, kg (dry/active)	Capacity under the differential pressure of 60 °C, I/h, max	Flow of dry saturated steam under the max capacity, kg/h
ПС 700 ст	ИУШД.065157.001	Fresh water	Shell-and-tube		700	90
ПС 700 цП	ИУШД.065157.001-01	Fresh water	Shell-and-tube		700	90
ПС 700 мП	ИУШД.065157.001-09	Fresh water	Shell-and-tube	9/10	700	90
ПС 700 цМ	ИУШД.065157.001-10	Sea water	Shell-and-tube		700	90
ПС 700 мМ	ИУШД.065157.001-11	Sea water	Shell-and-tube		700	90
ПС 1100 ст	иушд.065157.001-02	Fresh water	Shell-and-tube		1100	140
ПС 1100 цП	ИУШД.065157.001-03	Fresh water	Shell-and-tube		1100	140
ПС 1100 мП	ИУШД.065157.001-08	Fresh water	Shell-and-tube	10/12	1100	140
ПС 1100 цМ	ИУШД.065157.001-06	Sea water	Shell-and-tube		1100	140
ПС 1100 мМ	ИУШД.065157.001-07	Sea water	Shell-and-tube		1100	140
ПС 1900 ст	ИУШД.065157.001-04	Fresh water	Shell-and-tube		1900	230
ПС 1900 цП	иушд.065157.001-05	Fresh water	Shell-and-tube		1900	230
ПС 1900 мП	ИУШД.065157.001-12	Fresh water	Shell-and-tube	11/14	1900	230
ПС 1900 цМ	ИУШД.065157.001-13	Sea water	Shell-and-tube		1900	230
ПС 1900 мМ	ИУШД.065157.001-14	Sea water	Shell-and-tube		1900	230



Capacitive water heaters ΠE type

Function and Technical data

- Capacitive water heaters ΠE type are intended to heat washing and fresh drinking water;
- Heaters are part of the equipment of sanitary and amenity facilities;
- Type: shell-and-tube with U-shaped heat-exchange tubes;
- Upon the installation, heaters are of two versions horizontal and vertical;



Technical data, main parameters and characteristics

Index	ПЕ 200 Вк ПЕ 200Г лев. К	ПЕ 500Г лев. К ПЕ 500Г пр. К			
Medium to be heated	Washing and	d drinking water			
Capacity, I/h, max - under the temperature drop of 60 °C; - under the temperature drop of 35 °C;	3000 5000	8000 13000			
Outlet temperature of water, °C	90				
Max water pressure, MPa (kgf/cm^2)	0.65(6.5)				
Heating medium in the intertubular space	Satura	ted steam			

Data on the heating medium:

Steam pressure at the max capacity, MPa (kgf/cm²)		0.5((5.0)	
Flow of dry saturated steam under the max capacity, kg/h	37	70	98	30
OD and WT of heat-exchange tube, mm		16>	1,5	
Heat-exchange surface, m ²	3.7		8.0	05
Overall dimensions, L×W×H, mm	1850×795×720	1715×720×916	2038×897×1117	2038×897×1117
Weight, kg	28	30	51	12
Active weight, kg	48	30	10	12

High-speed water heaters ПЭ, ППЭ type

Function and Technical data

 Water heaters ΠЭ, ΠΠЭ type are intended to heat washing and fresh drinking water



Technical data, main p	arameters and charac	teristics			
Index	Volume. I	Voltage, V	Power, kW	Volumetric flow rate, I/h dr	, under the temperature op
				35 °C	60°C
ПЭ 100/12	100	220/380	12	295	175
ПЭ 100/24	100	220/380	24	590	345
ПЭ 100/35	100	220/380	34.8	850	500

			Characteristics of	f the steam heating	
Index	Volume, I		e, I/h, max, under the ture drop	Pressure of dry saturated steam under management	Flow of dry saturated steam under max capacity, kg/h
		35 °C	60°C	- MPa	
ППЭ 100/24	100	1700	1000	0.5(5.0)	120
ППЭ 100/35	100	1700	1000	0.5(5.0)	120
ППЭ 200/35	200	5000	3000	0.5(5.0)	370
ППЭ 500/35	500	1300	8000	0.5(5.0)	980
ППЭ 500/70	500	1300	8000	0.5(5.0)	980
ППЭ 200/35 ППЭ 500/35	200	5000 1300	3000 8000	0.5(5.0) 0.5(5.0)	370 980

	Characteristics of the electric heating		
Power, kW	Voltage, V		, under the temperature op
		35 °C	60°C
12	220/380	295	175
24	220/380	590	345
34.8	220/380	850	500
34.8	220/380	850	500
35	220/380	850	500
70	220/380	1700	1000



Flow-through hot-water heater ΠΒ-15

Function and Technical data

 The hot-water heater is intended to prepare hot water for sanitary and daily living needs.



Technical data, main parameters and characteristics	
Index	ПВ-15
Designation	иушд.065115.082
Power, kW	15
Medium	Fresh water under Sanitary Regulations and Standards 1.2.3685-21
Operating pressure, WP, max, MPa (kgf/cm²)	0.45(4.5)
Capacity, max, I/min	5±0,5
Max outlet temperature of the water to be pumped, °C	65±5
Voltage, V	380
Weight, kg - dry - active	64 85
Protection degree	IP44
Overall dimensions, L×W×H, mm	510×336×525

VINETA

Exhausted steam condensers XB type

Function and Technical data

• Exhausted steam condensers are installed on ships of all types and purposes, and are intended to condensate steam and cool



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Techi	nical data, main parameters and characterist	tics						
			XB 4.3			ХВ	9.1	
No	Name	1	2	3	Modes 1	2	3	4
	Steam, entering the condenser:	-		_	-	_		
1	Flow rate, kg/h	450	_	600	2100	2300	2700	5600
	Max pressure, MPa (kg/cm²)	0.5 (5.0)	-	0.5 (5.0)	0.3 (3.0)	-	-	0.3 (3.0)
2	Condensate, entering the condenser:							
2	Flow rate, kg/h	600	1900	-	2700	3000	1640	-
3	Outlet temperature of the condensate, K, °C		343 (70)			318 (45)		353 (80)
4	Pressure, MPa (kg/cm²)		0.1 (1.0)			0.015 (0.15)		0.1 (1.0)
	Cooling water:							,
	Flow rate, kg/h	1000				150 000		170 000
5	Pressure, MPa (kg/cm²)	0.35 (3.5)			0.3 (3.0)			
	Inlet temperature, K, °C	301 (28)			291 (18)			305 (32)
6	Cooling area, m ²		4.5		23.1			
7	Size of heat-exchange tubes of the cooler (OD, WT), mm				16 × 1.5 16 × 1.0			
	Q-ty of heat-exchange tubes							
8	16 × 1,5		15			3	5	
	16 × 1,0		123			3	11	



Exhausted steam condensers XB200 type

- Condensers are installed on ships of the unrestricted navigation and intended for the steam condensation and condensate
- Type surface integral condenser with flat tubes, two-way as per the cooling medium.



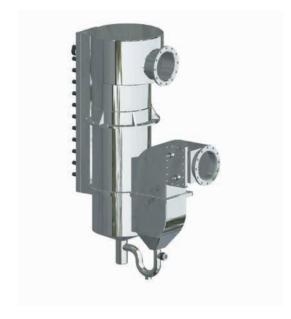
Tec	chnical data, main parameters and characteristics				
		Mode			
√ 0	Name	I	П	III	
	Steam, entering the condenser:				
1	Flow rate, kg/h	24	24.0		
	Temperature before the humidification, °C	26	300		
	Exhausted steam, entering the condenser:				
	Flow rate, kg/h	2.5	2.5	2.5	
2	Max possible flow rate, t/h	_	5.0	5.0	
	Inlet temperature, °C	185	185	185	
	Pressure, MPa (kgf/cm²)	0.103 (1.03)	0.103 (1.03)	0.103 (1.03)	
	Condensate for humidification:				
3	Flow rate, kg/h	2.0		3.96	
	Pressure, MPa (kgf/cm²)	0.5-0.7 (5-7) 0.5		0.5-0.7 (5-7)	
4	Outlet temperature, °C	65			
5	Pressure in the condenser		atmospheric		
6	Max pressure, defined by the setting of the relief valve on the steam-supply pipeline, MPa (kgf/cm²)		0.4 (4.0)		
	Cooling medium:	sea water			
	Flow rate, kg/h	800.0	500.0	600.0	
7	Pressure, MPa (kgf/cm²)	0.4 (4.0)	0.4 (4.0)	0.4 (4.0)	
	Inlet temperature, °C	33	21	23	
	Permissible pressure loss, MPa (kgf/cm²), max	0.035 (0.35)	0.035 (0.35)	0.035 (0.35)	
8	Cooling surface, m ²	176.2			
	Heat-exchange tubes:				
9	Size (OD × WT), mm	16 × 1.5			
	q-ty, pcs.	1754			
0	Dry weight, kg, max		5000		
1	Active weight, kg, max		6100		

VINETA ENGINEERING PLANT

Air-steam drier

Function and Technical data

 Air-steam driers are intended to dry air-steam mixture in the air cleaning system, emitted by apparatuses of main and auxiliary unit assemblies as well as of refrigerating units.



Technical data, main parameters and characteristics		
Index	OBC 1-2	OBC 4/4
Mass flow rate of the air-steam mixture, kg/h (kg/sec)	380(0.1)	298.8(0.083)
Mass flow rate of steam vapor of the air-steam mixture, kg/h (kg/sec)	60(0.016)	29.88-34.92(0.0083-0.0097)
Inlet temperature of the air-steam mixture, °C	10-70	65
Inlet pressure of the air-steam mixture, MPa (kgf/cm²)	0.004-0.04(0.04-0.4)	-
Absolute inlet pressure of the air-steam mixture, MPa (kgf/cm²)	-	0.125(1.25)
Outlet parameters of air: a) temperature, °C b) humidity, %, max c) absolute moisture load, g/kg, max	28-35 70 –	45 94 33
Mass flow rate of the moisture, extracted out of the mixture, discharged out of the drier, kg/h, max	56	-
Mass flow rate of the cooling water, kg/sec (kg/h)	0.97(3500)	1.39(5004)
Heat flux in the cooler, W (kcal/h)	46520(40000)	_
Temperature of the cooling water, °C: - specified - permissible	-	15 22



Index	OBC 1-2	OBC 4/4
Inlet temperature of the cooling water,°C	5-9	_
Cooling area, m ²	7.1	-
Pressure of the cooling water, MPa (kgf/cm²)	4.0 (40.0)	1.0 (10.0)
Heat flux in the heater, W (kcal/h)	2093	-
Heating surface area, m ²	0.073	-
Pressure resistance of the water loop of the drier, MPa (kgf/cm²)	-	0.04-0.01 (0.4-0.1)
Air flow resistance of the air-steam loop, MPa (kgf/cm²)	-	0.007 (0.7)
Heat duty of the heater, W	-	290.7
Size of heat-exchange tubes (OD×WT), m	-	0.16×0.001
Q-ty of heat-exchange tubes, pcs.	-	151
Heat duty of the cooler, W	-	24450
Mass flow rate of the heating steam, kg/h	3.3	-
Pressure of the heating steam, MPa (kgf/cm)	0.2-1.5 (2-15)	-
Temperature of the heating steam, °C	270-300	-
Size of heat-exchange tubes of the cooler (OD×WT), m	-	0.01×0.001
Q-ty of heat-exchange tubes of the cooler, pcs.	-	400
Total heat exchange surface area, m ²	_	4
Weight, kg: Dry Active	239 245	413 453
Allowable weight variation, %	From + 2,	5 up to - 6,0

VINETAENGINEERING PLANT

Flow-through oil heater ΠΜΠ-1500

Function and Technical data

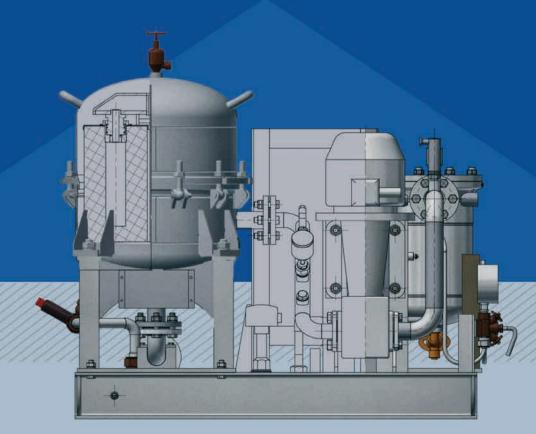
• The heater is intended to heat hydraulic oil



Technical data, main parameters and characteristics				
Index	ПМП-1500			
DN	32			
Capacity, m³/h	1.5			
Medium	ЛЗ-КТЗ oil spec. 0253-021-5694358; Б-3В oil spec. 38.101295; Тп-22, Тп-30, Тп-46 hydraulic oil ГОСТ 9972			
Operating pressure, MPa	0.4			
Temperature of the medium, °C	Inlet: from +5 up to +20; Outlet: from +55 up to +70			
Power, kW	39			
Overall dimensions, LxWxH,mm	448×281×775			
Dry weight, kg	89			
Control board/location	Yes/separately			
Maintenance area (availability)	Removal height of heating elements			

Fuel preparation equipment

- Fine fuel filter separator ΦCT type
- Fuel filter ΦT type
- Diesel fuel separation unit BC type
- Diesel fuel static automatically controlled separation unit CCAΦ type
- Oil separation unit БСМπ type
- Б-3B and Л3-КТ3 oil separation unit БСП-02 type
- Oil separation unit with heating БСΠ-01 type





Fine fuel filter - separator ΦCT type

Function and Technical data

- The filter-separator is intended for the separation and fine cleaning of diesel fuel, gas turbine, hydraulic and motor oil from mechanical impurities, water and biofouling.
- Medium:
- diesel fuel under ΓΟCT 305;
- Tπ-22, Tπ-46 hydraulic oils under ΓΟCT 9972;
- motor oils for diesel engines under ΓΟCT 12337;
- \bullet oil for marine gas turbine under $\Gamma OCT\,10289$
- Temperature of the medium, °C:
 - fuel: from +5 up to +60
 - oil: up to + 80



Technical data, main parameters and characteristics					
Name	Value				
Index	ФСТ40/10	ФСТ50/10	ФСТ50/4		
DN	40	50	50		
L/W/H	458 / 547 / 785	730 / 760 / 842,5	630 / 660 / 960		
Dry weight, kg	72 140		123,1		
Filtration degree, mcm	5,0				
WP, MPa	1.0	1.0	0.4		
Capacity, m³/h	fuel: 3,0 fuel: 5,0 oil: 1,5 oil: 2,5		fuel: 5,0 oil: 2,5		
Water removal efficiency (initial content up to 3%)	trace amount of water				
Maintenance area (availability)	height of the filter elements' removal				
Control board	-	yes/separately	-		



Fuel filter ΦT type

- The filter is intended for the separation and fine cleaning of diesel fuel from mechanical impurities, water and biofouling.
- Medium:
- diesel fuel under FOCT 305; FOCT 32511; FOCT P 52368
- Temperature of the medium, °C:
 - max +62



Technical data, main parameters and characteristics			
Name	Value		
Index	ФТ80/25-15		
DN	80		
L/W/H	1030 / 1330 / 1780		
Dry weight, kg	750		
Filtration degree, mcm	15		
WP, MPa	0.4		
Capacity, m³/h	25		
Water removal efficiency (initial content up to 3%)	trace amount of water		
Maintenance area (availability)	height of the filter elements' removal		
Control board	yes/separately		

Diesel fuel separation unit **BC** type

Function and Technical data

- the unit is intended for the separation and fine cleaning of diesel fuel (except 5C 3,0/2,2-5M - is intended to clean and separate gas turbine, hydraulic and engine oils) from mechanical impurities, water and biofouling.
- the unit is controlled from the control board. Remote control is also possible.
- the control board can be installed either on the frame itself or separately at a service-friendly area.
- the pressure drop, which manifests the degree of pollution of the separation unit, is controlled by pressure sensors.

Medium

- diesel fuel under ΓΟCT 305 (except БC 3,0/2,2-5M)
- gas turbine oil under ΓΟCT 10289 (only БС 3,0/2,2-5M)
- hydraulic oils under ΓΟCT 9972 (only БС 3,0/2,2-5M)
- motor oils for diesel engines under ΓΟCT 12337 (only БС 3,0/2,2-5M)



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Technical data, main parameters and characteristics						
Name	Value					
Index	БС1,0/1,5-5	БС1,5/1,5-5	БС 3,0/2,2-5	БС3,0/2,2- 5M*	БС10/6,1-5 (left/right)	БС 25/7,5-5
DN	2	0	40		50	80
WP, MPa (kgf/cm²)	0.4 (4.0)				1.0 (10.0)	0.4 (4.0)
Capacity, m ³ /h	1.0	1.5	3.0	1.5	12.5	21.0
Temperature of the medium, °C	max	+60	max +62 max +75		max +62	
Weight (control board on the frame/ separately), kg	155/125 156		350/230	260	799	1010
Overall dimensions (control board on the frame, separately), LxWxH, kg	761/481/1260. 761/481/886 800/523/966		1220/832/1005. 1136/ 665/1005	1147/665/1017	1380/1140/828	2029/ 935/1833
Filtration degree, mcm			15			
Max permissible pressure drop under the filter clogging at nominal capacity, MPa	o.08					
Water removal efficiency (initial content up to 3%)	trace amount of water height of the filter elements' removal					
Maintenance area (availability)						



Diesel fuel static automatically controlled separation unit CCAΦ type

Function and Technical data

- the unit is intended to clean diesel fuel from mechanical impurities, water and biofouling in ship (marine) systems.
 The unit has the following operating modes:
- fuel transfer from back-up fuel tanks
- direct separation from back-up fuel tanks to feed systems
- fuel annular separation in back-up fuel tanks
- freeing of back-up fuel and feed tanks

Medium:

- diesel fuel under ΓΟCT 305
- Euro diesel fuel grade C under ΓΟCT 32511; ΓΟCT P 52368, Λ-62B under ΓΟCT PB 9130-002 with its closed flash point being not lower than 62 °C



Technical data, main parameters and characteristics					
Name	Value				
Index	ССАФ-5	ССАФ-10			
DN	50				
WP, kgf/cm ²	4.0				
Capacity, m³/h	5.0	5.0×2			
Temperature of the medium, °C	Max	+62			
Weight, kg	406	850			
Overall dimensions, L/W/H, mm	1805/650/1210	1590/1263/1141			
Filtration degree, mcm	5.0				
Power input, kW	3	6			
Max permissible pressure drop under the filter clogging at nominal capacity, MPa	0.08				
Water removal efficiency (initial content up to 3%)	trace amount of water				
Maintenance area (availability)	height of the filter elements' removal				



Oil separation unit БСМп type

Function and Technical data

- the unit is intended to heat, fine clean and separate engine oil from mechanical impurities, water and biofouling.
- Medium:
 - engine oils according to the restrictive list under FOCT PB 50920
- Tπ-22, TΠ-46 oils under ΓΟCT 9972
- Temperature of the medium, °C:
 - from 5 up to 70
 - the oil heating is carried out with the help of the steam heater



Technical data, main parameters and characteristics			
Name	Value		
Index	БСМп-1.0		
DN	25		
WP, MPa	0.4		
Capacity, m³/h	1.0		
Weight, kg	330		
Overall dimensions, L/W/H, mm	1404/788/995		
Filtration degree, mcm	5.0		
Power input, kW	1.3		
Max permissible pressure drop under the filter clogging at nominal capacity, MPa	0.08		
Water removal efficiency (initial content up to 3%)	trace amount of water		
Maintenance area (availability)	height of the filter elements' removal		



Б-3B and Л3-КТ3 oil separation unit БСП type

- the unit is intended to heat and clean hydraulic oils from mechanical impurities and water in ship (marine) systems
- all units are to be mounted on-site as per customer requirements
- Medium:
 - 5-3B hydraulic oil under spec.38.101295-85
 - ЛЗ-КТЗ hydraulic oil spec.0253-021-56194358-2008 (rev. 1-2)
- Temperature of the medium, °C:
 - max +70
 - the oil heating is carried out with the help of the electric heater



Technical data, main parameters and characteristics					
Name	Value				
Index	БСП-2 БСП-02 with electrical pump u				
DN	50				
WP, kgf/cm²	0.4				
Capacity, m³/h	1.5				
Weight, kg	280 320				
Overall dimensions, L/W/H, mm: - oil filter-separator DN 50, WP 4 - fine fuel filter DN 50, WP 4 - heater ПМП-1500 - electrical pump unit - control board	590/855/1145 502/620/725 448/281/775 — 600/250/800	590/855/1145 502/620/725 448/281/775 520/ 240/ 285 600/250/800			
Filtration degree, mcm	5,	0			
Power input, kW	43.0	44.0			
Max permissible pressure drop under the filter clogging at nominal capacity, MPa	0.08				
Water removal efficiency (initial content up to 3%)	trace amount of water				
Maintenance area (availability)	height of the filter	elements' removal			



Oil separation unit with heating БСП-01 type

Function and Technical data

- the unit is intended for the continuous fine cleaning of oil from the mechanical impurities, water and biofouling in ship (marine)
- control board can be mounted both on frame or separately
- hydraulic oils under ΓΟCT 9972
- motor oils for diesel engines under ΓΟCT 12337
- oils for marine gas turbines under ΓΟCT 10289
- Temperature of the medium, °C:
 - max +70
 - the heating is carried out with the help of the electric heater



Technical data, main parameters and characteristics			
Name	Value		
DN	40		
WP, MPa	0.4		
Capacity, m³/h	1.5		
Weight, kg	305		
Overall dimensions, L×W×H, mm	1407/596/1006		
Filtration degree, mcm	5.0		
Power input, kW	44.0		
Max permissible pressure drop under the filter clogging at nominal capacity, MPa	0.08		
Water removal efficiency (initial content up to 3%)	trace amount of water		
Maintenance area (availability)	height of the filter elements' removal		



Filters

Sea water filters

- Flanged sea water filters
- Port sea water filters
- Screen inline sea water, oil and fuel filters with durite attachment

Oil and fuel filters

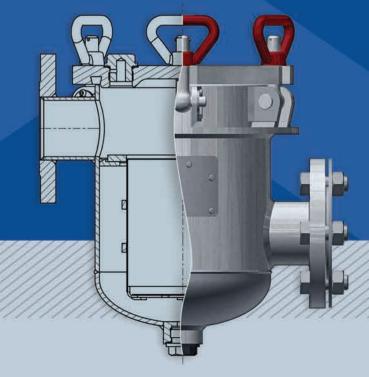
- Flanged inline oil and fuel filters
- Flanged slotted oil and fuel filters
- Portable oil and fuel filters
- Port slotted oil and fuel filters
- Flanged duplex filters with the switching unit of plug type
- Port duplex filters with the switching unit of plug type

Diesel fuel filters

- Flanged angle filters with nonwoven cartridge
- Screen duplex filters
- Automatic fuel filters

Other filters

- Flanged fresh water filters
- Port screen single filters
- Duplex screen and disc filters
- Ion-exchange filters
- Deodorizers
- Steam strainers
- Feed water filters Condensate filters



Function and Technical data

 Sea water filters are intended for the coarse filtering of outboard fresh and sea water with the salinity up to 4000 °Brandt from mechanical impurities in ship and watercraft systems.

Flanged sea water filters

- Medium: sea water
- Filtration degree, mm: 0,3; 2,5; 5
- Flanged under GOST 1536-76



Technical data, main parameters and characteristics							
Index	DN, mm	PN, kgf/cm²	Material	L,mm	H,mm	Weight, kg	
ФЗВ 40/40-0.3	40	40	bronze	310	445	44.0	
ФЗВ 40/4-2.5М	40	4	Cu-Ni alloy	250	295	10.0	
Ф3В 50/4-2.5М	50	4	Cu-Ni alloy	260	310	13.0	
Ф3В 80/4-2.5М	80	4	Cu-Ni alloy	310	420	22.0	
ФЗВ 100/2-2.5	100	2	Cu-Ni alloy	390	545	38.0	
ФЗВ 100/4-2.5М	100	4	Cu-Ni alloy	400	562	48.0	
ФЗВ 125/4-2.5М	125	4	Cu-Ni alloy	400	587	55.0	
ФЗВ 150/4-2.5М	150	4	Cu-Ni alloy	460	670	69.0	
ФВ 150/6-4.5	150	6	bronze	460	663	100.0	
Ф3В 200/4-2.5М	200	4	Cu-Ni alloy	610	850	150.0	
ФЗВ 250/4-2.5М	250	4	Cu-Ni alloy	610	1003	153.0	
Ф3В300/4-2.5М	300	4	Cu-Ni alloy	620	1145	181.0	
Ф3В 350/4-2.5М	350	4	Cu-Ni alloy	730	1281	265.0	
Ф3В 600/4-2,5М	600	4	Cu-Ni alloy	1292	820	565.0	



Port sea water filters

- Filters are intended for the coarse filtering of sea water from mechanical impurities in ship and watercraft systems.
- Material: bronze
- Delivery specification under OCT5P.4404-2010.



Technical data, main parameters and characteristics									
Index	DN, mm	PN, kgf/ cm²	Medium	Temperature of the medium, °C	Degree of filtration, mm	Service area (availability)	L×W×H,mm	Dry weight, kg	
IФ3B 20/40-2,5	20	40	Sea water with its salinity up to 4000 °Brandt	from -2 up to +32	2.5	yes	186×147×213	7.6	
2Ф3В 20/40-2,5	20	40	Sea water with its salinity up to 4000 °Brandt	from -2 up to +32	2.5	yes	186x147×213	7.6	

О.

Function and Technical data

• Filters are intended to be installed in oil and fuel ship systems as a filtering unit.

with durite coupling

Screen inline sea water, oil and fuel filters

- Material: bronze
- O Degree of filtration, mm: 2,5
- Flanges under ΓΟCT 1536-76.



Technical data, main	parameters and	l characteristics					
Index	DN, mm	PN, kgf/cm ²	Medium	Material	L,mm	H,mm	Weight, kg
ФМТ 20/3-0,5	20	3	Oil, fuel	Light alloy	166	185	0.97
ФМТ 32/3-0,5	32	3	Oil, fuel	Light alloy	190	240	1.5
ФМТ 40/3-0,5	40	3	Oil, fuel	Light alloy	190	240	1.5
-	20	1	Sea water	Cu-Ni alloy	160	180	1.84
ФЗВ 20/4-2,5	20	4	Sea water	Cu-Ni alloy	165	192	3.8
-	32	1	Sea water	Cu-Ni alloy	170	198	2.3
ФЗВ 32/4-2,5	32	4	Sea water	Cu-Ni alloy	190	273	6.1
ФШ50/4-2,5	50	4	Sea water	Cu-Ni alloy	210	192	6.4
Ф3В 50/4-2,5	50	4	Sea water	Cu-Ni alloy	280	300	6.0
ФЗВ 65/4-2,5	65	4	Sea water	Cu-Ni alloy	340	400	10.2
ФЗВ 80/4-2,5	80	4	Sea water	Cu-Ni alloy	340	400	10.7



Flanged inline oil and fuel filters

- Filters are intended to be installed on pipelines of ship power plants to clean the medium from mechanical impurities.
- PN, kgf/cm²: 6
- Material: bronze
- Degree of filtration, mm: 1 for oil/fuel
- Flanges under ΓΟCT 1536-76.



Technical data, main parameters and characteristics								
Index	DN, mm	Material	L,mm	H,mm	Weight, kg			
ФМТ 20/6-1	20	Carbon steel	180	200	3.0			
ФМТ 32/6-1	32	Carbon steel	200	268	6.5			
ФМТ 50/6-1-1	50	Stainless steel	260	310	14.5			
ФМТ 50/6-1	50	Carbon steel	260	310	14.5			
ФМТ 80/6-1-1	80	Stainless steel	310	430	22.0			
ФМТ 80/6-1	80	Carbon steel	310	430	22.0			
ФМТ 100/6-1-1	100	Stainless steel	400	570	42.0			
ФМТ 100/6-1	100	Carbon steel	400	570	42.0			
ФМТ 150/6-1	150	Carbon steel	460	670	60.0			
ФМТ 200/6-1	200	Carbon steel	610	845	137.0			
ФМТ 250/6-1	250	Carbon steel	610	1000	153.0			
ФМТ 300/6-1	300	Carbon steel	620	1147	172.0			

Function and Technical data

• Filters are intended to clean oil and fuel from mechanical impurities in ship power plants.

Flanged slotted oil and fuel filters

- Degree of filtration, mm: 0,25; 0,4
- Capacity, t/h 12
- Medium: oil and fuel
- Material: carbon steel
- PN, kgf/cm²: 6, 40
- Flanges under ΓΟCT 1536-76
- Possible to equip with a servomotor for the automatic cleaning as well as electromagnetic drain valve. Filters can be equipped with steam heating to pump high-viscosity fluids



Technical data, main p	arameters and charac	teristics			
Index	DN, mm	PN, kgf/cm²	L,mm	H,mm	Weight, kg
1ФЩ32/40-0,25	32	40	306	540	36.0
2ФЩ32/40-0,4	32	40	306	540	35.9
1ФЩ 40/40-0,25	40	40	310	600	39.6
2ФЩ40/40-0,4	40	40	310	600	39.5
1ФЩ50/6-0,25	50	6	336	585	43.8
2ФЩ50/6-0,4	50	6	336	585	43.6
1ФЩ50/40-0,25	50	40	356	625	58.4
2ФЩ50/40-0,4	50	40	356	625	58.2
2ФЩ 65/6-0,4	65	6	338	715	53.1
1ФЩ 65/40-0,25	65	40	352	755	69.1
2ФЩ 65/40-0,4	65	40	352	755	68.8
1ФЩ 65/6-0,25	65	6	338	715	53.4



Portable oil and fuel filters

- Filters are intended to clean oil and fuel from mechanical impurities upon their acceptance on-site.
- The installation position: vertical, with the air valve located upwards.
- Medium: oil, fuel
- O Degree of filtration, mm: 1,7
- Material: carbon steel



Technical data, main parameters and characteristics								
Index	DN, mm	PN, kgf/cm²	L,mm	H,mm	Weight, kg			
ФМТ 50/10-1,7	50	10	430	605	29.6			
ФМТ 100/10-1,7	100	10	455	630	34.3			
ФМТ 100/10-1,7К	100	10	200	612	31.2			
ФМТ 150/10-1,7	150	10	500	610	48.9			

Port slotted oil and fuel filters

Function and Technical data

- Filters are intended to clean oil and fuel from mechanical impurities in systems of ship power plants.
- Medium: oil, fuel
- Degree of filtration, mm: 0,25; 0,4; 0,15
- Material: carbon steel



Technical data, main p	arameters and charac	teristics			
Index	DN, mm	PN, kgf/cm ²	L,mm	H,mm	Weight, kg
1ФЩ 20/10-0,15	20	10	160	320	8.0
ФЩ20/40-0,25	20	40	200	308	14.7
1ФЩ 25/10-0,15	25	10	165	360	9.5
1ФЩ 32/10-0,25	32	10	170	435	11.0
2ФЩ 25/10-0,4	32	10	170	435	11.0



Flanged duplex filters with switching unit of plug type

Function and Technical data

- Filter is intended to be installed in ship systems to clean oil and fuel from mechanical impurities.
- Capacity, m³/h: 9,0
- Temperature of the medium, °C: +60
- Medium: oil, fuel
- O Degree of filtration, mm: 0,5
- Material: carbon steel



Technical data, main parameters and characteristics								
Index	DN, mm	PN, kgf/cm ²	L,mm	H,mm	Weight, kg			
Duplex fuel filter DN40 Pw6	40	6	385	360	48.0			
Duplex fuel filter DN65 Pw6	65	6	470	630	100.0			
Duplex fuel filter DN80 Pw6	80	6	319	515	150.0			

4.0

Port duplex filters with the switching unit of plug type

Function and Technical data

- Filters are intended to clean fuel from mechanical impurities.
- Material: carbon steel



Technical data, main parameters and characteristics	
Parameter	Nominal value
DN,mm	15
PN, kgf/cm ²	25
Medium	Oil, fuel
Degree of filtration, mm	0.4
L, mm	320
H, mm	456
Weight, kg	2.3



Flanged angle filters with nonwoven cartridge

- Type: single cartridge filter with nonwoven filter element.
- Filters are intended to be installed in ship systems to clean oil and fuel from mechanical impurities.
- Degree of filtration, mm: 15-20.



Technical data, main parameters and characteristics							
Index	DN, mm	Capacity, m³/h	Hydraulic resistance of the clean filter under t = 20°C				
ФНТ 40/10	40	up to 30	0.5				
ФНТ 80/10	80	up to 80	0.5				
ФНТ 125/10	125	up to 120	0.3				

^

Screen duplex filters

Function and Technical data

- Filters are intended to clean fuel in ship systems of all classes, including export ones.
- Medium: diesel fuel under ΓΟCT P 52368-2005.
- Degree of filtration, μm: 100.



Technical data, main parameters and characteristics							
Index	DN, mm	PN, kgf/cm²	Capacity, m³/h	Overall dimensions, L×W×H, mm	Diesel fuel temperature, °C		
ФС-20/0,4-0,1	20	0.4 (4.0)	0.2	436×366×566	+60		
ФС-25/0,4-0,1	25	0.4 (4.0)	0.2	436×392×566	+60		
ФС-32/0,4-0,1	32	0.4 (4.0)	0.2	449×442×641	+60		



Automatic fuel filters

- two-stage cleaning: first of all, the medium enters the coarse cleaning chamber, i.e. slotted filter. Then, it enters the fine cleaning chamber with a 25 micron filter mesh.
- there is a system of hot redundancy. While reaching the ultimate pressure drop on sensors of one of chambers, the contaminated filter branch is blocked and flow is directed to the auxiliary one.
- each chamber is equipped with the automatic cleaning system.
- besides the back flushing system, the fine cleaning chamber has the function of the steam blowing.



Technical data, main parameters and characteristics	
Parameter	Nominal value
Index	ФА-25
DN, mm	32
PN, MPa	0.4-1.0
Medium	Diesel fuel, heavy fuel up to 50 sCt
Degree of filtration, μm	25
Pressure of the sweep steam, MPa	0.5
Overall dimensions, L×W×H, mm	945×560×910
Weight, kg	125

Flanged fresh water filters

Function and Technical data

- Filters are intended to be installed on pipelines of ship power plants to clean the medium from mechanical impurities.
- PN, kgf/cm²: 6
- Degree of filtration, mm: 1.0; 2.5 for fresh water



Technical data, main pa	rameters and cha	racteristics				
Index	DN, mm	Medium	Material	L, mm	H, mm	Weight, kg
ФПВ 20/6-2.5	20	Fresh water	Carbon steel	180	200	3.2
ФПВ 32/6-2.5-1	32	Fresh water	Stainless steel	200	268	6.5
ФПВ 32/6-2.5	32	Fresh water	Carbon steel	200	268	6.5
ФПВ 50/6-2.5-1	50	Fresh water	Stainless steel	260	310	14.5
ФПВ 50/6-2.5	50	Fresh water	Carbon steel	260	310	14.5
ФПВ 80/6-2.5	80	Fresh water	Carbon steel	310	430	22.0
ФПВ 100/6-2.5	100	Fresh water	Carbon steel	400	570	42.0
ФПВ 150/6-2.5	150	Fresh water	Carbon steel	460	670	60.0
ФПВ 200/6-2.5	200	Fresh water	Carbon steel	610	845	137.0
ФПВ 250/6-2.5	250	Fresh water	Carbon steel	610	1000	153.0
ФПВ 300/6-2.5	300	Fresh water	Carbon steel	620	1147	172.0



Port screen single filters

- Filters are intended to be installed in oil and fuel ship systems as a filtering unit.
- Medium: oil, fuel, sea water, bilge water
- O Degree of filtration, mm: 0.25; 2.5
- PN, kgf/cm²: 6, 25, 40



Technical data, n	nain parameters	and characteris	tics				
Index	DN, mm	PN, kgf/cm²	Medium	Material	L,mm	H,mm	Weight, kg
ФМТ 20/6-0,25	20	6	Oil, fuel	Light alloy	160	180	1.29
ФМТ 20/6-0,25-1	20	6	Oil, fuel	Light alloy	160	180	1.29
ФМТ 25/6-0,25	25	6	Oil, fuel	Light alloy	160	180	1.37
ФМТ 25/6-0,25-1	25	6	Oil, fuel	Light alloy	160	180	1.37
ФМТ 32/6-0,25	32	6	Oil, fuel	Light alloy	190	240	2.04
ФМТ 32/6-0,25-1	32	6	Oil, fuel	Light alloy	190	240	2.04
ФМТ 32/6	32	6	Oil, fuel	Stainless steel	230	268	6.2
Ф3В 32/25	32	25	Sea water, bilge water	Titanium	230	325	5.2
Ф3В50/40-2,5	50	40	Sea water	Bronze	320	353	25.0
Ф3В 80/40-2,5	80	40	Sea water	Bronze	440	500	

4

Duplex screen and disc filters

Function and Technical data

• Filters are intended to be installed in ship systems to clean feed water and distillate from foreign mechanical impurities.



Technical data, main parameters and characteristics	
Parameter	Nominal value
DN, mm	50
PN, kgf/cm ²	10
Capacity, m ³	15
Medium	Feed water, distillate
Degree of filtration, mm	0.15
Temperature of the medium, K (°C)	From 273 to 363 (from 0 to 90)
Max permissible pressure drop, MPa (kgf/cm²)	0.2 (2.0)
Weight, kg	54/62



Function and Technical data

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- Filters are intended for the fine chemical water treatment in ship systems;
- Medium: feed water, distillate;
- Material: stainless steel, special alloy



Technical data, main parameters and characteristics

Index	Туре	Inlet water pressure, MPa	Max permissible capacity, m ³ /h, under desalting and dissolved oxygen removal	Max permissible capacity, m³/h, under hardness removal	Volume of lower cavity, m³	Volume of upper cavity, m³	Drainage substrate Weight of steel for Iower cavity, kg	Drainage substrate Weight of steel for upper cavity, kg	Weight of BT1-00c alloy for lower cavity, kg	Weight of BT1-00c alloy for upper cavity, kg
ФИ160-0.6	Single-chambered	0.6	4.0	3.0	0.00081	_	3.7	-	2.1	_
ФИ300-1.0	Single-chambered	1.0	14.0	10.0	0.000284	_	13.0	_	7.5	_
ФИ400-1.6	Single-chambered	1.6	-	-	-	_	-	-	_	_
ФИ400-6.4	Single-chambered	6.4	25.0	20.0	0.00625	_	29.0	_	16.6	_
ФИ400-6.4-1	Single-chambered	6.4	-	-	-	-	_	-	-	_
ФИ600-2.5	Single-chambered	2.5	56.0	45.0	0.0141	_	65.0	_	37.0	_
ФИ600-4.0	Single-chambered	4.0	-	-	-	-	_	_	_	-
ФИ900-2.5	Single-chambered	2.5	-	_	_	_	_	_	212.0	_
ФИ900-4.0	Single-chambered	4.0	125.0	100.0	0.080	_	370.0	_	_	_
ФИ900-10.0	Single-chambered	10.0	-	_	_	_	_	_	_	_
ФИ1100-1.6	Single-chambered	1.6	-	_	_	_	_	_	_	_
ФИ1100-4.0	Single-chambered	4.0	180.0	150.0	0.110	_	510.0	_	292.4	_
ФИ1300-2.5	Single-chambered	2.5	-	220.0	-	_	550.0	_	315.3	-
ФИ1300-10.0-1	Single-chambered	10.0	_	_	0.120	_	_	_	_	_
ФИ1300-10.0-2	Single-chambered	-	160.0	_	_	_	_	_	380.0	_
ФИ1400-1.6	Single-chambered	-	-	_	_	_	_	_	_	_
ФИ1400-1.6-1	Single-chambered	1.6	300.0	245	0.140	-	640.0	_	367.0	-
ФИ1400-10.0	Single-chambered	10.0	_	_	_	_	_	_	_	_
ФИД900-6.4	Two-chambered	6.4	125.0	-	0.086	0.030	370.0	140.0	212.0	80.3
ФИД1400-1.6	Two-chambered	6.4	260.0	_	0.120	0.070	550.0	320.0	315.0	183.4
ФИД1300-6.4	Two-chambered	1.6	300.0	-	0.140	0.080	640.0	370.0	367.0	212.0

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Deodorizers

Function and Technical data

- Filters are intended to remove excess active chlorine from water and eliminate odor and off-flavor of drinking and washing water;
- Main technical specifications under OCT5.5448-80.
- Connecting threads of flanges are under ΓΟCT 1536-76.
- Connecting threads of connecting branches are under ΓΟCT 5890-78



Technical data, main parameters and characteristics

Index	Denomination	DN, mm	PN, kgf/cm ²	Medium	Temperature of the medium, °C	L×W×H,mm	Dry weight, kg
ФД1/3	BHTA.066112.003	32	6,0	Fresh water	from 0 to +60	375×432×1125	96,2*
ФД1/3ММ	BHTA.066112.003-01	32	6,0	Fresh water	from 0 to +60	375×432×1125	96,2*
ФД3/6	BHTA.066112.004	40	6,0	Fresh water	from 0 to +60	875×716×1590	335*
ФД3/6	BHTA.066112.004-01	40	6,0	Fresh water	from 0 to +60	875×716×1590	335*
ФД3/6	BHTA.066112.004-02	40	6,0	Fresh water	from 0 to +60	875×716×1590	335*
ФД3/6	BHTA.066112.004-03	40	6,0	Fresh water	from 0 to +60	875×716×1590	335*
ФД 0,5/1,0	иушд.066112.006	20	6,0	Fresh water	from 0 to +60	335×310×805	51,4*
ФД 6/10	иушд.066112.009	40	6,0	Fresh water	from 0 to +60	945×1161×2053	671,3*
ФД6/10	иушд.066112.009-01	50	6,0	Fresh water	from 0 to +60	945×1161×2053	671,3*

^{*} Weight is indicated excluding the drainage layer



Steam strainers

Function and Technical data

- Filters are intended to purify steam vapor in ship and vessel system from mechanical impurities;
- Connecting threads of flanges are under ΓOCT 33259-2015.



Technical data, main parameters and characteristics

DN, mm	PN, kgf/cm ²	Medium	Temperature of the medium, °C	Degree of filtration, mcm	Service area (availability)	L×W×H,mm	Dry weight, kg
50	16.0	steam	165	250	yes	205×160×205	11.5

50

Feed water filters

Function and Technical data

- Filters are intended to clean feed water from mechanical impurities in ship power plants;
- General specifications are under OCT5P 4404-2010.



Technical o	al data, main parameters and characteristics						
DN, mm	PN, kgf/cm ²	Medium	Temperature of the medium, °C	Degree of filtration, mcm	Service area (availability)	L×W×H,mm	Dry weight, kg
50	2.0	Feed water	up to +85	250	yes	851×304×642	90

Condensate filters

Function and Technical data

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- Filters are intended to clean condensate and distillate from mechanical impurities and oil traces;
- General specifications are under OCT5P 4404-2010, ОСТВД5Р.4404-85;
- Connecting threads of flanges are under ΓΟCT 2822-78.

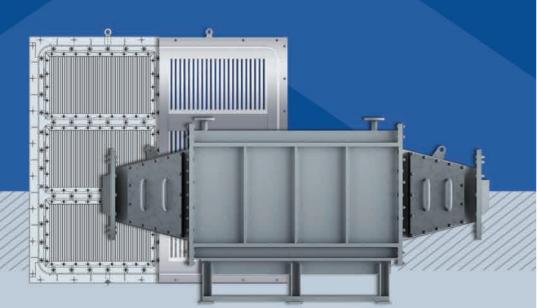


Technical data, mair	n parameters and cha	aracteristics			
DN, mm	PN, kgf/cm²	Medium	Temperature of the medium, °C	L×W×H,mm	Dry weight, kg
25	4.0	Condensate, distillate, feed water	up to +90	375×360×360	33.5



Air and Gas Purification Equipment

- System to clean and cool exhaust gas of heat engines
- Air separators
- Inertial separator, single-stage, hinged version
- Inertial separator, two-stage, one-piece case





System to clean and cool exhaust gas of heat engines

Function

 The system is intended for the noncontact cleaning and cooling of exhaust gases from solid combustion products and moisture.



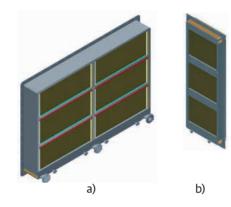
Technical data, main parameters and characteristics	
Name	Value
Gas flow, kg/sec	0.5
Inlet gas temperature, °C	400
Outlet gas temperature, °C	40
WP, MPa (kgf/cm²)	0.11 (1.1)
Thermal output, kW, max	200
Cooling medium	solution of propylene glycol
Inlet temperature of the cooling medium, °C	5
Nominal flow rate of the electric pump, kg/sec (m³/h)	3.47 (12.5)
Overall dimensions, L × W × H, mm	2385 × 890 × 1240
Weight, kg	1400

www.vineta.ru/en

Air separators

Function

- The separator is intended for the preliminary cleaning of air in air intake systems of marine gas turbine power plants. The separator is all-welded, made of aluminum alloy.
- Possible to be either steam-heated (is a part of heating system of air intake channel) pic. a) or unheated (installed to bypass the air flow) pic. b).
- Efficient for the rate of airflow max 10 m/sec.
- Possible to manufacture under the required sizes.



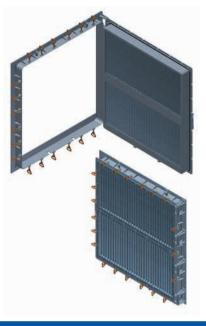
Technical data, m	echnical data, main parameters and characteristics						
Heating	Overall dimensions, mm			Clear dime	Weight, kg		
neating	L	В	Н	B1	H1	weight, kg	
available	458	2610	1790	2480	1660	411	
available	472	2310	1790	2310	1790	366	
available	280	1720	2070	1560	1910	140	
n/a	161	780	2014	660	1884	65	



Inertial separator, single-stage, hinged version

Function

 1200 × 1300 inertial separator is intended to clean air from water and mechanical impurities in systems of air intake for combustion in ship (marine) diesel engines. Separators have simple and reliable construction built on a modular principle. It is based on welded steel body with a hinged cover with mounted-in replaceable sections out of composite material. Separators have one stage of the cleaning.



Technical data, main parameters and characteristics	
Name	Value
Inlet air velocity, m/sec	10
Specific capacity per unit area, m ³ /1m ² per second	10
Q-ty of cleaning stages, pcs.	1
Weight of 1 m ² of section, kg, max	25
Relative humidity under the temperature +32°C, %	100
Medium	air
L×W×H, mm	155×1336×1454

^{*}are actual dimensions that determine the open flow area of the separator. For dimensioning assembly openings of separators, it is necessary to add the required mounting clearance to this clear dimension.



Inertial separator, two-stage, one-piece case

Function

• Inertial separator is intended to clean air from water and mechanical impurities in systems of air intake for combustion in ship (marine) diesel and gas turbine engines. Separators have simple and reliable construction built on a modular principle. It is based on welded body of light aluminum alloy with mounted-in replaceable sections out of composite material. Separators have two stages of the cleaning.



Technical data, main parameters and characteristics

Name	Value
Inlet air velocity, m/sec	10
Specific capacity per unit area, m ³ /1m ² per second	10
Ambient temperature range, °C	-35 +50
Relative humidity under the temperature +32°C, %	100
Q-ty of cleaning stages, pcs.	2
Weight of 1 m ² of section, kg, max	25



Equipment of Water-supply Systems

• Pneumatic pressure tanks (hydrofors)



Pneumatic pressure tanks (hydrofors)

Function and Technical data

 Pneumatic pressure tanks are installed in drinking, washing and sea water systems.

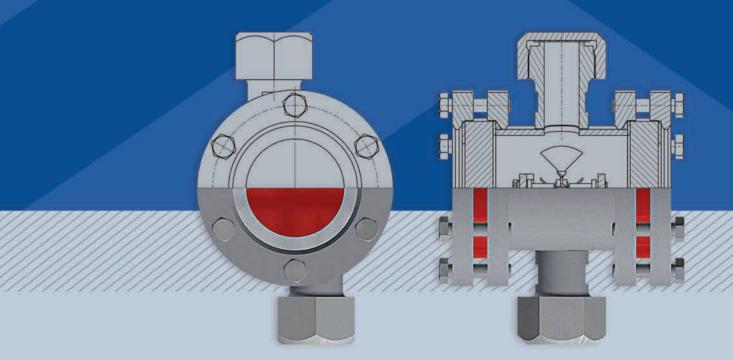


Technical data, main parameters and characteristics Overall dimensions, L×W×H, mm PN, kgf/cm² Index Volume, m³ Weight, kg ПЦ1-П-0,025-КРД2 0.4(4) 470×380×695 0.025 30 ПЦ1-П-0,063-КРД2 0.4(4) 650×550×720 0.063 68 ПЦ1-П-0,1-КРД2 0.1 0.4(4) 650×550×1060 99 ПЦ2-П-0,2-КРД2 0.65(6.5) 820×825×870 160 ПЦ2-П-0,4-КРД2 0.65(6.5) 820×825×1580 0.4 200 ПЦ2-П-0,5-КРД2 0.65(6.5) 820×825×2080 0.5 267 ПЦ3-П-0,5-КРД2 0.65(6.5) 1025×1030×1190 0.5 280 ПЦ3-П-0,63-КРД2 0.65(6.5) 1025×1030×1450 0.63 313 ПЦ3-П-1,О-КРД2 0.65(6.5) 1125×1130×1790 372 ПЦ3-П-2,О-КРД2 0.65(6.5) 1630×1635×1600 634 ПЦ3-П-3,О-КРД2 0.65(6.5) 1630×1635×2245 790



Marine Valves

- Air pipe automatic closing devices
 - Air pipe automatic closing device with guard mesh and float. Type 1. Steel
 - Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy
 - Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1.Steel
 - Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1.
- Deck plates
- Sight flow indicators
- Leak-tight locking vent heads



Air pipe automatic closing device with guard mesh and float. Type 1. Steel

Function

- Air pipe closing devices are designed to vent water and fuel tanks of ships, vessels and watercrafts.
- To be installed at outlet ends of water, oil, day and emergency tanks, located on open decks of the 1st tier and above these decks within the area limited by the downflooding angle.
- Climatic category OM, location environmental class 1 under ΓΟCΤ 15150.
- Closing devices are self-draining.
- The design of closing devices secures the access to inspect the cavity and easy replacement of gaskets.
- Closing devices are provided with guides to ensure their correct operation in any permissible heeled or trimmed conditions.
- The electric heating is used to prevent icing and ensure reliable operation of the item at low temperature (option).



ические данные, о	сновные параметры и ха	рактеристики		
DN, mm	L, mm	W, mm	H, mm	Weight, kg
25	86	90	140	3.1
32	94	90	156	4.2
50	124	117	200	6.1
65	144	147	232	9.2
80	172	162	285	13.8
100	197	192	337	18.9
125	227	237	406	30.4
150	270	282	471	40.2
200	360	382	617	74.26
250	450	446	766	114.5



Air pipe automatic closing device with guard mesh and float. Type 1. Light alloy

- Air pipe closing devices are designed to vent water and fuel tanks of ships, vessels and watercrafts.
- To be installed at outlet ends of water, oil, day and emergency tanks, located on open decks of the 1st tier and above these decks within the area limited by the downflooding angle.
- Climatic category OM, location environmental class 1 under ΓΟCΤ 15150.
- Closing devices are self-draining.
- The design of closing devices secures the access to inspect the cavity and easy replacement of gaskets.
- Closing devices are provided with guides to ensure their correct operation in any permissible heeled or trimmed conditions.
- The electric heating is used to prevent icing and ensure reliable operation of the item at low temperature (option).



Гехнические данные, основные параметры и характеристики				
DN, mm	Overall dimensions, L×W×H, mm	Weight, kg		
25	86 × 90 × 140	1.3		
32	94×90×156	1.72		
50	124 × 117 × 200	2.5		
65	144×147×232	3.4		
80	172 × 162 × 285	4.95		
100	197 × 192 × 337	7.1		
125	227 × 237 × 406	10.2		
150	270 × 282 × 471	15.1		
200	360 × 382 × 617	27.1		
250	450 × 482 × 766	38.5		

Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1. Steel

Function

- Air pipe closing devices are designed to vent water and fuel tanks of ships, vessels and watercrafts.
- To be installed at outlet ends of water, oil, day and emergency tanks, located on open decks of the 1st tier and above these decks within the area limited by the downflooding angle.
- Climatic category OM, location environmental class 1 under ΓΟCΤ 15150.
- Closing devices are self-draining.
- The design of closing devices secures the access to inspect the cavity and easy replacement of gaskets.
- Closing devices are provided with guides to ensure their correct operation in any permissible heeled or trimmed conditions.
- The electric heating is used to prevent icing and ensure reliable operation of the item at low temperature (option).



Technical data, main parameters and characteristics					
DN, mm	L, mm	W, mm	H, mm	Power, kW	Weight, kg
50	124	203	200	0.08	7.2
65	144	233	232	0.10	10.3
80	172	248	285	0.12	14.5
100	197	275	337	0.14	20.3
125	227	323	406	0.15	31.8
150	270	368	471	0.2	42.1
200	360	468	617	0.25	75.6
250	450	532	766	0.30	117.8
400	644	793	1200	0.375	200



Electrically-heated air pipe automatic closing device with guard flame absorbing mesh, float. Type 1.

- Air pipe closing devices are designed to vent water and fuel tanks of ships, vessels and watercrafts.
- To be installed at outlet ends of water, oil, day and emergency tanks, located on open decks of the 1st tier and above these decks within the area limited by the downflooding angle.
- Climatic category OM, location environmental class 1 under FOCT 15150.
- Closing devices are self-draining.
- The design of closing devices secures the access to inspect the cavity and easy replacement of gaskets.
- Closing devices are provided with guides to ensure their correct operation in any permissible heeled or trimmed conditions.
- The electric heating is used to prevent icing and ensure reliable operation of the item at low temperature (option).

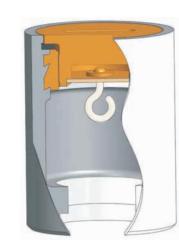


Technical data, main parameters and characteristics					
DN, mm	L, mm	W, mm	H, mm	Power, kW	Weight, kg
50	124	203	200	0.08	7.2
65	144	233	232	0.10	10.3
80	172	248	285	0.12	14.5
100	197	275	337	0.14	20.3
125	227	323	406	0.15	31.8
150	270	368	471	0.2	42.1
200	360	468	617	0.25	75.6
250	450	532	766	0.30	117.8

Deck plates

Function

- Medium: sea water, fresh and portable water; oil; oil products; foaming agent; БΦ-2 fire extinguisher; tetrafluorodibromethane (Freon 114B-2)
- Material: carbon steel, corrosion-resistant steel, brass, aluminum alloy, special alloy
- PN, kgf/cm²: 6
- O H, mm: 110



Technical o	lata, main parameters an	d characteristics				
DN, mm	Medium	Material	d, mm	D, mm	n	Weight, kg
32	oil, oil products	carbon steel	G11⁄4	68	_	1.7
40	oil, oil products	carbon steel	G1½	70	_	1.8
50	oil, oil products	carbon steel	G2	83	-	2.4
65	oil, oil products	carbon steel	G2½	102	_	3.3
32	sea water, fresh water, oil, oil products	corrosion-resistant steel	G11/4	68	-	1.7
40	sea water, fresh water, oil, oil products	corrosion-resistant steel	G1½	70	_	1.8
50	sea water, fresh water, oil, oil products	corrosion-resistant steel	G 2	83	-	2.4
65	sea water, fresh water, oil, oil products	corrosion-resistant steel	G2½	102	_	3.3
32	oil, oil products	carbon steel	G11/4	68	6	1.7
40	oil, oil products	carbon steel	G1½	70	6	1.8
50	oil, oil products	carbon steel	G 2	83	6	2.4
65	oil, oil products	carbon steel	G 2 ½	102	8	3.3



Sight flow indicators

- Material: steel, Cu-Ni alloy
- Production and delivery specifications according to OCT 5P.5536-2010.



Technical data, main parameters and characteristics						
DN, mm	PN, kgf/cm²	Medium	L, mm	D, mm	L1, mm	Weight, kg
10	6.3	sea water, fresh water, oil, mineral oil, condensate	175	M27×1.5	160	7.7
10	6.3	sea water	175	M27×1.5	160	7.5
20	6.3	sea water, fresh water, oil, mineral oil, condensate	190	M39×2	170	8.0
20	6.3	sea water	190	M39×2	170	8.0
32	6.3	sea water, fresh water, oil, mineral oil, condensate	220	M56×6	180	8.3
32	6.3	sea water	220	M56×2	180	8.2

Leak-tight locking vent heads



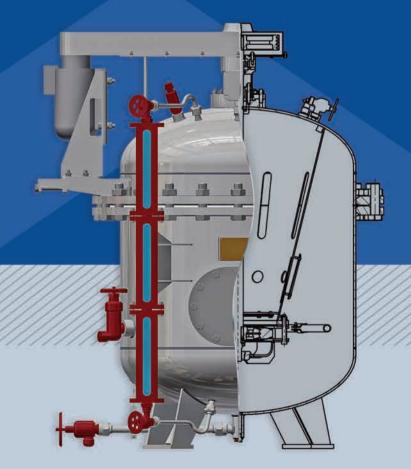
Technical data, main parameters and characteristics

DN, mm	L, mm	W, mm	H, mm	Weight, kg
80	136	136	139	0.8
100	156	156	139	1.2
125	181	181	139	1.5
150	206	206	172	2.1
200	276	276	179	3.0
250	326	326	227	4.4



Other Equipment

- Solution storage tanks
- Foam fire extinguishing units
 - Stationary foam fire extinguishing unit, medium expansion factor CO-I CT
 - Stationary foam fire extinguishing unit, medium expansion factor CO-II CT
 - Stationary foam fire extinguishing unit, medium expansion factor CO-IV CT
- Solution preparation tanks
- Feeder
- Rod gearing to control valves
- Radiators (vertical, horizontal, single and two-row)
- Blast signal
- Warning howler





Solution storage tanks

Function

- The tank is intended to operate as a part of the general-purpose washdown system and store 40% solution of CΦ-3 compound.
- Operating pressure, kgf/cm²: 7.0
- Medium: 40% solution of CΦ-3 compound.



Technical data, main parameters and characteristics					
Index	L, mm	W, mm	H, mm	Volume, I	Weight, kg
PXPY-200-8	710	830	1550	200	215.0
PXPY-400-8	900	975	1500	400	320.0



Stationary foam fire extinguishing unit, medium expansion factor CO-I CT

- Stationary foam fire extinguishing unit, medium expansion factor CO-I CT is a local agent to extinguish local point of fire outbreak in ship-board spaces.
- It is a fire extinguisher to produce and emit foam, covering the fire body and securing the smothering.



Technical data, main parameters and characteristics			
Name	Value		
Volume of the charge, I	40		
Capacity of air tank, I	40		
Foam output under the full charge, I	3200-4500		
Air pressure in the vessel, kgf/cm ²	25-30		
Pressure in the tank at the unit actuation, kgf/cm ²	8-10		
Overall dimensions (L×W×H), mm	850×500×1800		
Charge weight, kg	200.0		
Uncharged weight, kg	245.0		
Foam flow time, max, kg	2		
Length of the rubber hose, m	15		

Function

- Stationary foam fire extinguishing unit, medium expansion factor CO-II Cτ is a local agent to extinguish local point of fire outbreak in ship-board spaces.
- It is a fire extinguisher to produce and emit foam, covering the fire body and securing the smothering.



Technical data, main parameters and characteristics			
Name	Value		
Volume of the charge, I	136		
Capacity of air tank, I	130		
Foam output under the full charge, I	9 500-13 500		
Air pressure in the vessel, kgf/cm ²	30		
Pressure in the tank at the unit actuation, kgf/cm ²	10		
Overall dimensions (L×W×H), mm	1180×700×1935		
Charge weight, kg	505.0		
Uncharged weight, kg	641.0		
Foam flow time, max, kg	5		
Length of the rubber hose, m	15		



Stationary foam fire extinguishing unit, medium expansion factor CO-IV CT

- Stationary foam fire extinguishing unit, medium expansion factor CO-IV Cτ is a local agent to extinguish local point of fire outbreak in ship-board spaces.
- It is a fire extinguisher to produce and emit foam, covering the fire body and securing the smothering.



Technical data, main parameters and characteristics			
Name	Value		
Volume of the charge, I	136		
Capacity of air tank, I	20		
Foam output under the full charge, I	9 500-13 500		
Air pressure in the vessel, kgf/cm ²	150		
Pressure in the tank at the unit actuation, kgf/cm ²	10		
Overall dimensions (L×W×H), mm	1010×685×2080		
Charge weight, kg	360.0		
Uncharged weight, kg	496.0		
Foam flow time, max, kg	5		
Length of the rubber hose, m	15		

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Solution preparation tanks

Function

- The station is intended to prepare, store and distribute concentrated 40% solution of CΦ-3 compound.
- Medium: CΦ-3 solution is a homogeneous fine powder of cream or dark yellow color, made of a mixture of sodium hexametaphosphate and sulfanol; 1% dilute solution of this compound in water is used for the decontamination.
- Temperature of the solution (max), °C: 60.
- O Power, kW: 1.5



Technical data, n	Technical data, main parameters and characteristics						
Index	PN, kgf/cm ²	Capacity, m³/h	L, mm	W, mm	H, mm	Shaft speed of the stirrer, rpm	Weight, kg
СПРУ 300-8	7.0	3.0	1280	1120	1240	500	514.0
СПРУ 400-8	7.0	3.0	1280	1105	1485	1500	570.0



Feeder

- The tank is intended to operate as a part of the general-purpose washdown system and store 40% solution of CΦ-3 compound.
- Medium: 40% solution of CΦ-3 compound, sea water
- Current type: 24V DC, 127V AC



Technical data, main parameters and characteristics			
Name	Value		
PN, kgf/cm ²	4.010.0		
Medium	40% solution of CΦ-3 compound, sea water		
Volume, I	20		
Current type	24V DC, 127V AC		
Overall dimensions (L×W×H), mm	700×455×480		
Weight, kg	76.0		

Rod gearing to control valves

• The nomenclature is under OCT5P.5316-76.



Radiators (vertical, horizontal, single and two-row)

Function

• Radiators are intended to operate in the steam-heating systems of surface ships and other watercrafts

Technical data, main parameters and characteristics

- O DN, mm: 10
- PN, kgf/cm²: 5.0
- Material: cooper, steel



Index	L, mm	H, mm	Q-ty of rows	Heating area, m ²	Weight, kg
РГС2-0.5-М	365	195	2	0.5	6.6
РГС2-0.8-М	485	195	2	0.8	9.0
РГС2-1.2-М	635	195	2	1.2	12.3
РГС2-1.5-М	755	195	2	1.5	14.3
РГС4-0.8-М	330	360	4	0.8	11.4
РГС4-1.2-М	410	360	4	1.2	13.8
РГС6-1.5-М	365	530	6	1.5	18.4
РГМ2-0.5-М	365	195	2	0.5	5.8
РГМ2-0.8-М	485	195	2	0.8	7.6
РГМ2-1.2-М	635	195	2	1.2	10.0
РГМ2-1.5-М	755	195	2	1.5	11.9
РГМ4-0.8-М	330	360	4	0.8	8.3
РГМ4-1.2-М	410	360	4	1.2	11.4
РГМ6-1.5-М	365	530	6	1.5	14.0

Blast signal

Function

• The blast signal is intended to send navigation audible signals



Technical data, main parameters and characteristics				
Name	Value			
Index	II TB 130/350 POM			
DN, mm	15			
Air upstream operating pressure, set by the manufacturer, MPa (kgf/cm²)	4.41 (45)			
Elementary frequency of sound, Hz, within limits	130-350			
Free air flow, I/min	6000			
Acoustical power level taken relative to 2×10^{-5} , N/m^2 , at a distance of 1 m in 1/3 octave band, dB, min	138			
Range of audibility, nautical mile	1.5			
Weight, kg	35.7			



Warning howler

Function

 The warning howler is intended to send navigation audible signals except for The International Regulations for Preventing Collisions at Sea 1972 (COLREGS-72)



Technical data, main parameters and characteristics				
Name	Value			
Index	1-15			
DN, mm	15			
Air upstream operating pressure, set by the manufacturer, MPa (kgf/cm²)	4.41 (45)			
Elementary frequency of sound, Hz, within limits	2000-3500			
Free air flow, I/min	12 000			
Sound level at the distance of 10 m towards the horn, dB, min	112			
Upstream process pressure, MPa (kgf/cm²), within limits	0.98-4.40 (10-45)			
Weight, kg	7.2			



Licenses and Certificates

















