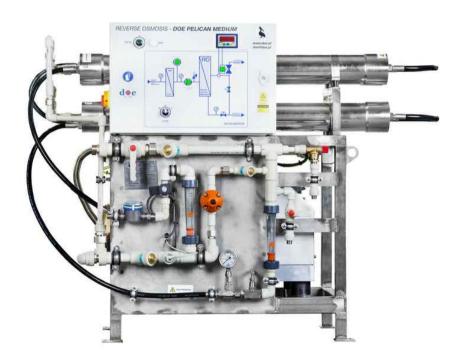


PELICAN MEDIUM





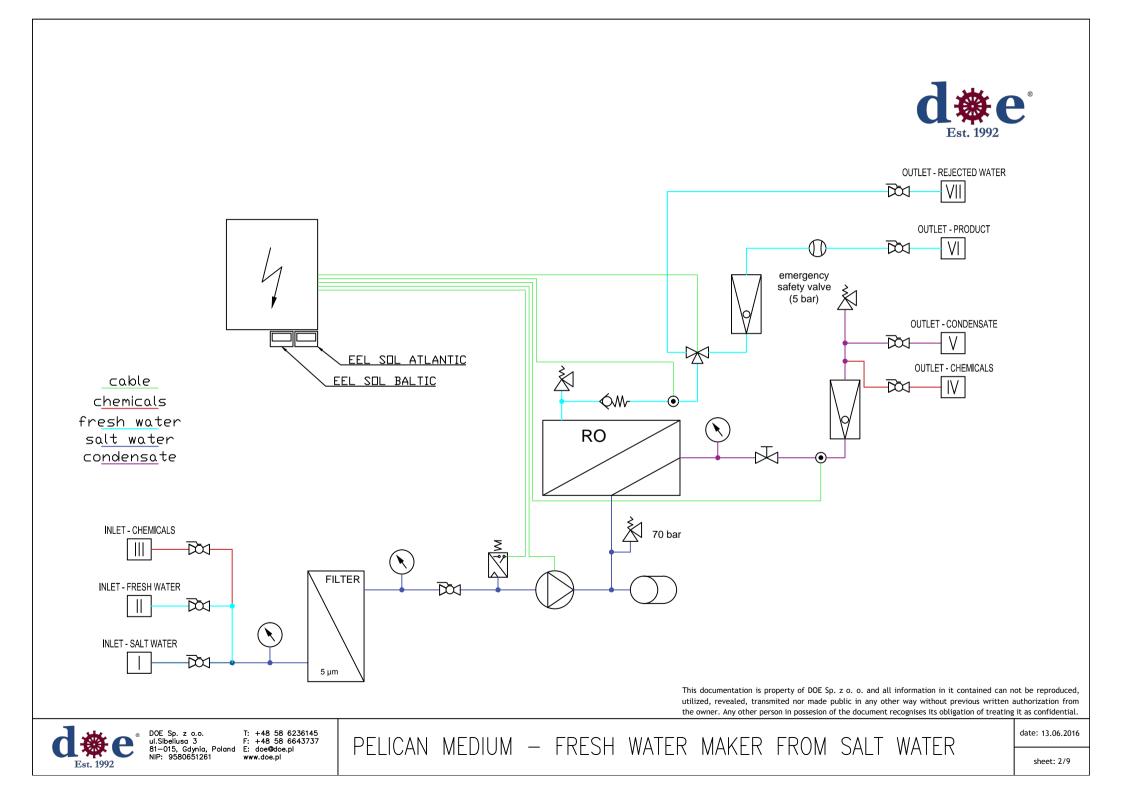
Revision date: 13.06.2016



E Sp. z o.o. ibeliusa 3 F: +48 58 6236145 ibeliusa 3 F: +48 58 6643737 -015, Gdynia, Poland E: doe@doe.pl 9580651261 www.doe.pl

PELICAN MEDIUM – FRESH WATER MAKER FROM SALT WATER

date: 13.06.2016



SYMBO	OLS AND MATERIAL SPE	CIFICATION
Symbol	Specification	Quantity
-	Branching pipeline	_
\bigcirc	Pump	1
$\mathbf{\hat{k}}$	Manometer	3
\odot	Sensor conductivity	1
\bigvee	Rotameter	2
m	Monitoring pressure switch	1
-₩\$	Non return plate valve	3
M	Valve	3
<u>لې</u>	Safety valve	3
\bigcirc	Flow meter	1
\bigcirc	Vibrations compensate	1
	3-way valve	1

ltem	Name of connection	DN	M25/M30		
	INLET – SALT WATER	G 1"	G 1 1/2"		
	INLET – FRESH WATER	G 1/2"	G 1/2"		
	INLET – CHEMICALS	G 1/2"	G 1/2"		
IV	OUTLET - CHEMICALS	G 1/2"	G 1/2"		
V	OUTLET – CONDENSATE	G 1"	G 1 1/2"		
VI	OUTLET - PRODUCT	G 1/2"	G 1"		
VII	OUTLET - REJECTED WATER	G 1/2"	G 1"		

This documentation is property of DOE Sp. z o. o. and all information in it contained can not be reproduced,
utilized, revealed, transmited nor made public in any other way without previous written authorization from
the owner. Any other person in possesion of the document recognises its obligation of treating it as confidential.

date: 13.06.2016



 DOE Sp. z o.o.
 T:
 +48
 58
 6236145

 ul.Sibeliusa 3
 F:
 +48
 58
 6643737

 81-015, Gynia, Pole
 E:
 doe@doe.pl
 www.doe.pl

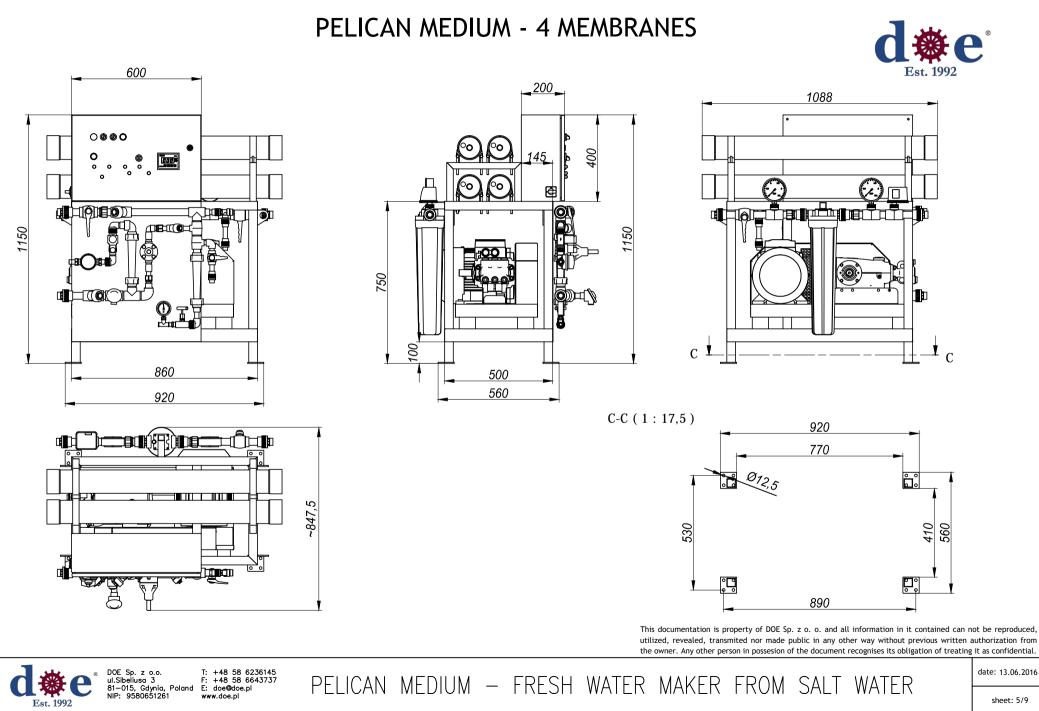
 NIP:
 9580651261
 www.doe.pl

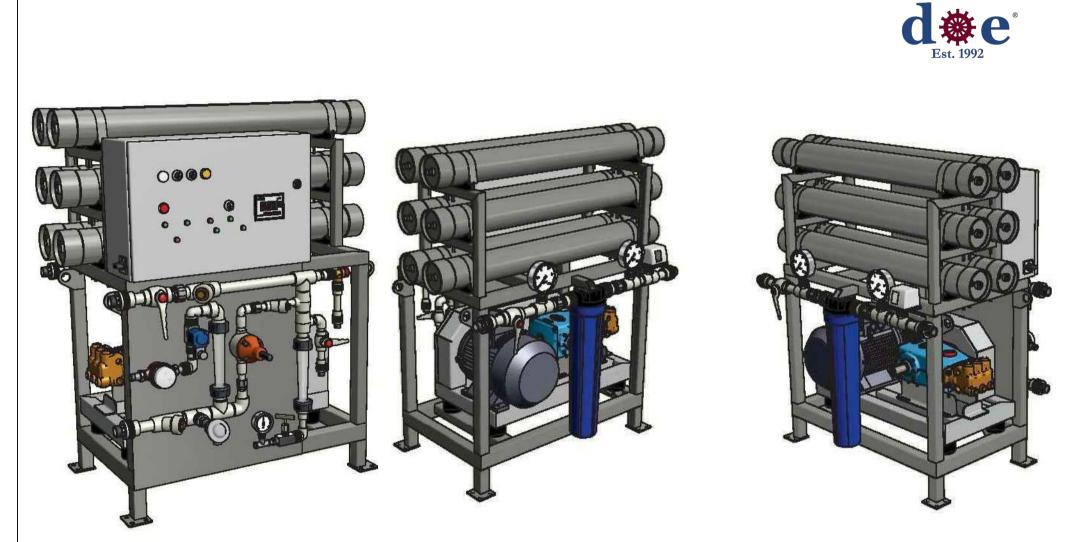
sheet: 3/9



PELICAN MEDIUM - FRESH WATER MAKER FROM SALT WATER







PELICAN MEDIUM - 6 MEMBRANES

PELICAN MEDIUM - FRESH WATER MAKER FROM SALT WATER

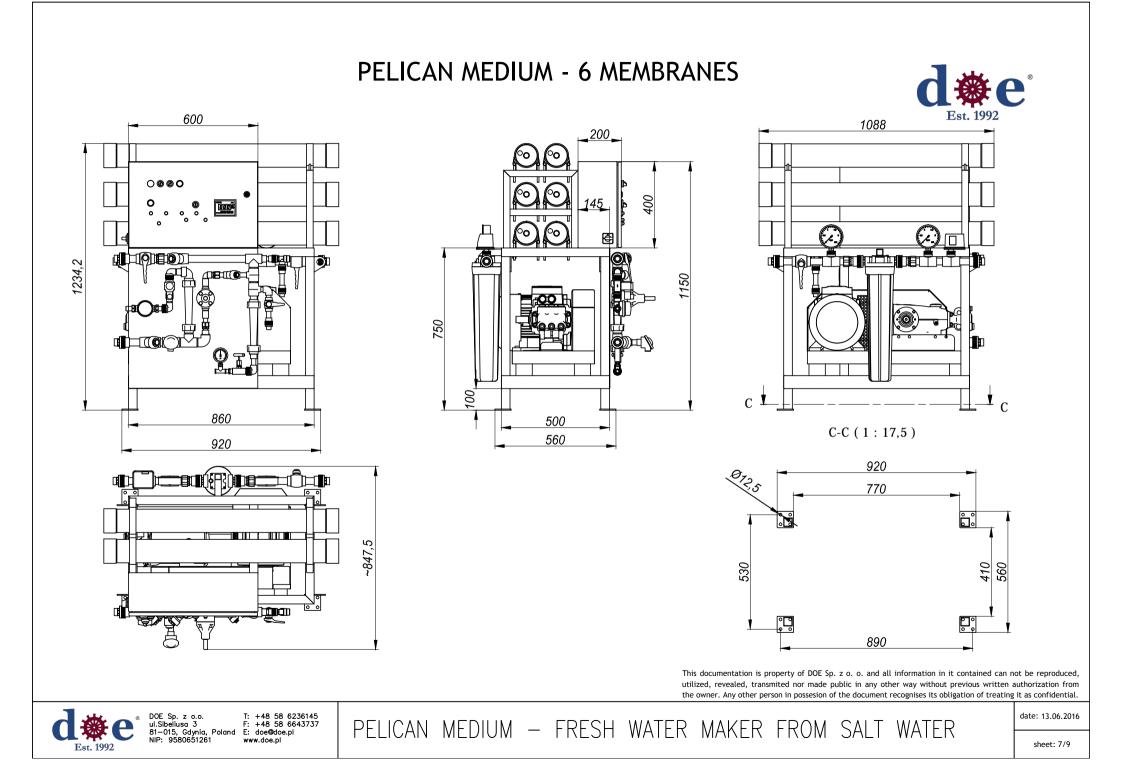
This documentation is property of DOE Sp. z o. o. and all information in it contained can not be reproduced, utilized, revealed, transmited nor made public in any other way without previous written authorization from the owner. Any other person in possesion of the document recognises its obligation of treating it as confidential.

date: 13.06.2016



DOE Sp. z o.o. T: +48 58 6236145 ul.Sibeliusa 3 F: +48 58 6643737 81-015, Gdynia, Poland E: doe@doe.pl NIP: 9580651261 www.doe.pl

sheet: 6/9





Maximal production of the Pelican Medium

TYPE	М	10	M	12	М	M14		M16		M18		M20		M26		M30		
PUMP TYPE	10	057 1057 1057)57	1057		10	1057		1541		1541		1541				
IEMBRANES QUANTITY [pcs.]		4		4		4		4		4		4 6		6		6		8
Water in l et [t/day]	28		33		37			39		55		68		76		76		76
5 °C	11,4 475 683	60 98	12,3 512 863	60 86	12,9 537 1005	60 80	13,2 550 1075	60 78	14,6 608 1684	60 65	15,2 633 2200	60 60	21,5 895 2271	60 65	26	60		
10 °C	11,4 475 683	57 130	13,2 550 825	60 113	13,9 580 962	60 104	14,4 600 1025	60 101	16,2 675 1617	60 83	17,1 712 2121	60 75	23,8 991 2175	60 83	28	60		
15 °C	11,2 467 691	54 177	13,7 571 804	59 150	14,8 616 926	60 136	15,3 638 987	60 131	17,7 737 1555	60 106	18,8 783 2050	60 95	25,9 1079 2087	60 106	30	60		
20 °C	10,7 446 712	51 239	13,4 558 817	56 200	15,6 616 926	60 178	16,2 675 950	60 171	18,9 787 1505	60 135	20,4 850 1983	60 120	27,1 1129 2037	59 138	31	59		
25 °C	10 416 742	49 318	12 500 875	53 267	14 583 959	56 238	16 666 959	58 225	18 750 1542	57 178	19,9 829 2004	56 159	26 1083 2083	55 185	30	55		
30 °C	10,2 425 733	48 416	12,4 517 858	51 352	14,4 600 942	54 313	15,8 658 967	56 295	18,2 758 1534	55 233	19,7 820 2013	53 211	24,8 1033 2133	52 248	28	52		
35 °C	9,6 400 758	46 550	12,2 508 867	50 456	14,3 595 947	53 404	15,3 637 988	54 384	17,7 737 1555	53 306	18,7 779 2054	51 276	23,9 959 2207	50 325	27	50		
	2,5 kW 3 - 3.45 112:224 - 95:224 950 - 1140 475 - 485		2,8 kW 3 - 132:224 - 950 - 1140 560 - 570	112:224	3,3 kW 4 - 150:224 - 1 950 - 1140 636 - 636	25:224	3,5 kW 4 - 4,6 160:224 - 125:224 950 - 1140 679 - 672		4,8 kW 5,5	4,8 kW 5,5 - 6,3 224:224 - 190:224 950 - 1140		5,9 kW 7,5 - 8,6 118:224 - 100:224 1140 - 1740 764 - 776		6,6 kW 7,5 - 8,6 132:224 - 112:224 1400 - 1740 854 - 870		6,6 kW 7,5 - 8,6 132:224 - 112:224 1400 - 1740 854 - 870		

PELICAN MEDIUM - FRESH WATER MAKER FROM SALT WATER

d 🐲 (Est. 1992

DOE Sp. z o.o. T: +48 58 6236145 ul.Sibeliusa 3 F: +48 58 6643737 81-015, Cdynia, Poland E: doe®doe.pl NIP: 9580651261 www.doe.pl This documentation is property of DOE Sp. z o. o. and all information in it contained can not be reproduced, utilized, revealed, transmited nor made public in any other way without previous written authorization from the owner. Any other person in possesion of the document recognises its obligation of treating it as confidential.

date: 13.06.2016

PELICAN MEDIUM

Pelican Medium is water maker based on RO technology for production of drinking water from sea water. Range of applications from 10 to 30 [t/day].

Construction:

- HP pomp used on unit CAT 1057 (for 10-18 [t/day]) or CAT 1541 (for over 20 [t/day])
- number of membranes 4 pcs type 4040 for 10-18[t/day] or 8 membranes for the biggest version 30[t/day]
- marine electric motors from 3[kW] to 7.5[kW]
- power supply 3x400[V] 50[Hz] or 3x440[V] 60[Hz]

Pelican Medium is equipped with small inlet filter with 2 manometers to control the filter dirt. The unit is prepared to be used with DOE Mermaid (Prefiltration Unit) that can prepare the salt incoming water for RO needs. The pre filtration should be on the 5 microns level.

3-way valve is controlled by salinity sensor and direct the water to the tank or to the bilge.

Except the main inlet to device, there is added a separate inlet for fresh water (rinsing inlet) and separate inlet for chemicals (washing inlet).

Inlet for fresh water can be used to clean the unit or to product ultra clean water for engine room devices.

Pelican Medium is controlling the product water with the salt meter, showing the parameter on the electric box and controls the 3-way valve. If salinity reaches the high level, then rejected water is directed to another outlet.

The HP pump is precede from dry working by presostat, HP part is equipped with the safety valve and pulsation damper. The regulation table is equipped with the rotametrs for product and bribe (condensate), safety valves for high pressure and low pressure, chemical outlet and water meter for product.

The steel galvanized electric box is powder painted, is equipped with the needed protection equipment, not CPU enables to check the Unit by everybody.

The door of the electric box is clearly showing the parameters of the unit.









PELICAN MEDIUM - FRESH WATER MAKER FROM SALT WATER

date: 13.06.2016