

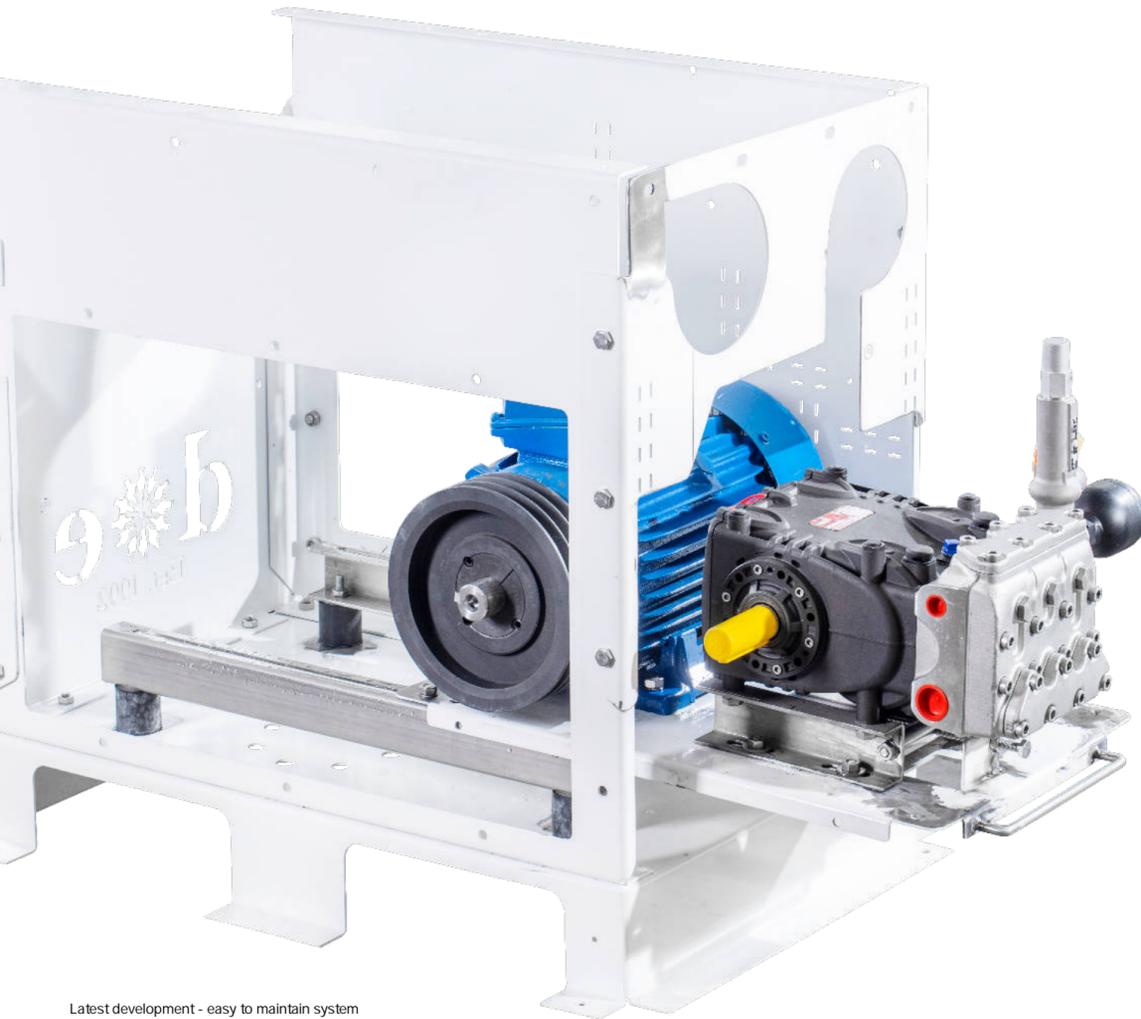
# ADVANTAGE COMPARISON OF RO AND EVAPORATION

## REVERSE OSMOSIS

## EVAPORATION

- small piping = small cost
- small power demand (3kW for 10 tons/day of water)
- compact and light units
- stops all suspended particles (like nanoplastic, bacteria and viruses)
- stops all dissolved particles (like hormones, poisons, pesticides)

- powered by waste heat = eco friendly solution
- works as a main engine cooler (300 kW to 1000 kW)
- very low product salinity (demineralized water)
- easy in maintainace and operation
- when properly maintained - long lasting and easy to use



Latest development - easy to maintain system of rails for high pressure pump.

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## WATER MAKERS

PELICAN - REVERSE OSMOSIS  
HIPPO - EVAPORATION



## DOE PELICAN **micro**

### 0.3 Tons/day

The smallest pelican. Simple, but very efficient solution based on trusty Reverse Osmosis technology. Very small and compact machine. Suitable for smallest vessels with minimum power installations.



#### DOE PELICAN **micro**

gross weight	approx. 20kg	DOE PELICAN <b>small</b>
max. dimensions with maintenance space	1000mm	approx. 80kg
frame material	aluminium powder painted	approx. 1200mm
pipng	PP/316L/316TI	alluminium powder painted
production	approx. 300 l/day	PP/316L/316TI/TI
HP pump type	brass	approx. 3T/day upgradeable to 7 T/day
Digital salinity meter	N/A	SS316Lv
Electromagnetic valve	N/A	YES
Waterfow meters	N/A	N/A
Filter 5µm on inlet	YES, mounted separately	YES, 2 pcs.
Feed pump	N/A	YES, SS316

## DOE PELICAN **small**

### up to 7 Tons/day

Compact and most universal pelican. You can use the standard version or extended one with more membranes and more water production.

## DOE PELICAN **medium**

### 10-30 Tons/day

The most common pelican. Suitable for most installations, easily upgradable. You can get up to 30 Tons of fresh water per day!



#### DOE PELICAN **medium**

gross weight	approx. 400kg	DOE PELICAN <b>big</b>
max. dimensions with maintenance space	2500mm	approx. 800kg
frame material	304 SS powder painted	2500mm
pipng	PP/316L/316TI	304 SS powder painted
production	approx. 10 - 30 T/day	PP/316L/316TI
power installed	3 - 7.5 kW (3x400V 50Hz or 3x440V 60Hz)	approx. 30 - 100 T/day
salt water fow	27 - 76 T/day	3 - 7.5 kW (3x400V 50Hz or 3x440V 60Hz)
HP pump type	allubronze or SS316 or duplex	27 - 76 T/day
Digital salinity meter	YES, 2 pcs.	allubronze or SS316 or duplex
Electromagnetic valve	YES	YES, 6 pcs. One per membrane plus 2 additional ones
Waterfow meters	YES, 2 pcs.	YES
Filter 5µm on inlet	YES	YES, 2 pcs.
Additional Filtration	Manual Disc Filter	YES
Feed pump	YES, Bronze, Self priming	Semi automatic DOE Huzar disc Filters - 2 pcs.

## DOE PELICAN **big**

### 50-110 Tons/day

The biggest version of pelican for the most demanding installations. You can get up to 100 Tons of fresh water per day!



#### DOE PELICAN **big**

## DOE HIPPO

### 5-25 Tons/day

Evaporator is a well-known distillation system, commonly used onboard. DOE Hippo is compact and cost effective machine - very reliable, operating for a long time without maintenance.



#### DOE HIPPO **5**

#### DOE HIPPO **15**

#### DOE HIPPO **25**

gross weight	approx. 437 kg	approx. 1000 kg	approx. 1050 kg
frame material		SS304	
pipng		PP/316L/316TI	
production	approx. 5 T/day	approx. 15 T/day	approx. 25 T/d
pump type		Bronze (sea water), SS316L (distilled water)	
digital salinity meter		YES, 1 as standard, 2 as an option	
electromagnetic valve		YES, 3-way valve	
heat transfer	147 kW	509 kW	735 kW
salt water fow	12 m <sup>3</sup> /h	45 m <sup>3</sup> /h	70 m <sup>3</sup> /h