

# MARINFLOC Neptumatic MOC & Retro

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## Type/Capacity Scenarios & Guidelines

**Neptumatic MOC & Retro models were designed using the following wastewater scenarios and capacity assumptions:**

**Wastewater on ships originates from the following activities and installations:**

- ❑ Flushing Toilets and Urinals (**Black Water/Sewage**)
- ❑ Food Preparation and Ware-washing in Galleys and Pantries (**Galley/grey water**)
- ❑ Laundry Operations (**Grey water**)
- ❑ Cleaning, Scuppers, Washbasins, Showers, etc. (**Grey water**)

**Volume of wastewater is influenced by:**

- ❑ Type of flushing system, save flushing (vacuum) or conventional system
- ❑ Type and size of the ship
- ❑ Number of water using devices installed
- ❑ Geographic trade of the ship
- ❑ Annual season
- ❑ Ship's mission profile.

## Type and Volume of Water Produced:

The volume of water to be treated varies to a great extent from ship to ship. Outlined below are estimated figures of **production on a per person/per day** basis:

<b>Type</b>	<b>Volume (per person/per day)</b>
-All Black (Conventional), Grey and galley water to be treated:	250 litres
-All Black (Vacuum), Grey and Galley water to be treated:	195 litres
-All Black (Conventional) and Galley water to be treated:	130 litres
-All Black (Vacuum) and Galley water to be treated:	75 litres
-All Black (Conventional) water to be treated:	70 litres
-All Black*(Vacuum) water to be treated:	15 litres

\* **Note!** In this case the Black water has to be diluted by min. 25 litres of grey water.

-Black water (Conventional) production:	70 litres
-Black water (vacuum) production:	15 litres
-Grey water:	120 litres
-Galley water:	60 litres

## Guidelines

In order to facilitate the selection of the appropriate size of **Neptumatic MOC & Retro**, the following guidelines have been prepared:

### A

**All water (Black(conventional flush), galley and grey) to be treated.  
250 lit./person/day**

<u>Number of Persons Onboard</u>	<u>Suggested Model</u>
49 persons	<b>MOC 12</b>
81 persons	<b>MOC 20</b>
121 persons	<b>Retro 30</b>
181 persons	<b>Retro 45</b>
201 persons	<b>MOC 50</b>
301 persons	<b>MOC 75</b>
401 persons	<b>MOC 100</b>
531 persons	<b>Retro 130</b>
612 persons	<b>Retro 150</b>

### B.

**Black conventional flush or black water vacuum system + galley water to be treated: 75  
lit./person/day**

<u>Number of Persons Onboard</u>	<u>Suggested Model</u>
171 persons	<b>MOC 12</b>
286 persons	<b>MOC 20</b>
429 persons	<b>Retro 30*</b>
642 persons	<b>Retro 45*</b>
715 persons	<b>MOC 50</b>
1,071 persons	<b>MOC 75</b>
1,430 persons	<b>MOC 100</b>
1,844 persons	<b>Retro 130*</b>
2,127 persons	<b>Retro 150*</b>

\* For ships with an existing holding tank, the **Retro** model would be a suitable alternative considering its compact dimensions. Optional to the use of an existing tank, a combination tank with automatic coarse screen can be installed for a complete system.

There are also other alternatives for treating of Black, Galley & Grey water than those provided above. We at **MARINFLOC AB** are always at your service in helping you to find a suitable solution to your wastewater needs.

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