



Fresh Water Tank Series

Installation Manual

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The diagram illustrates the installation of a water pump and tank on a boat. The components are labeled as follows:

- 1. Tank
- 2. Pump
- 3. Sensor
- 4. Deck filler
- 5. Vent
- 6. Deck Shower
- 7. Gauge

The legend indicates the following components:

- Hoses Ø38mm (Brown line)
- Hoses Ø25mm (Blue line)
- Hoses Ø16mm (Green line)
- Electric cables (Dashed line)

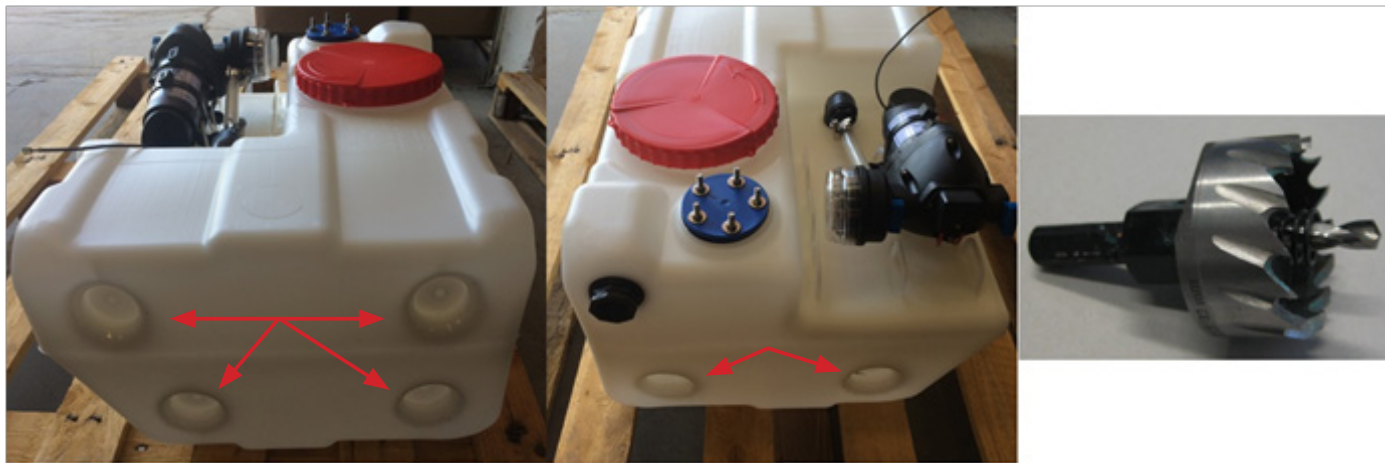
The diagram shows the pump (2) connected to the tank (1) via a 38mm hose. The tank is connected to the deck shower (6) via a 25mm hose. The pump is also connected to the deck filler (4) via a 38mm hose. The tank is connected to the vent (5) via a 16mm hose. The pump is connected to the gauge (7) via a 16mm hose. The pump is also connected to the sensor (3) via a 16mm hose. The pump is connected to the deck shower (6) via a 25mm hose. The pump is connected to the deck filler (4) via a 38mm hose. The pump is connected to the vent (5) via a 16mm hose. The pump is connected to the gauge (7) via a 16mm hose. The pump is connected to the sensor (3) via a 16mm hose.

Note: The quoted installation picture is only an example/ indication of the configuration of the hoses' connection. The inlets and outlets can change depending on usefulness and location of placement.

Installation

1. Drilling

The tank is supplied with all of the inlets closed. It is recommended to drill the necessary inlets only, by using a round cutter having a maximum diameter of 42 mm. Place the cutter onto the proper drilling mark and proceed by drilling the inlet; be careful: do not heat the plastic material of the tank during drilling procedures, so as not to melt the tank or damage inlet threads. It is recommended to proceed by drilling inlets by steps.



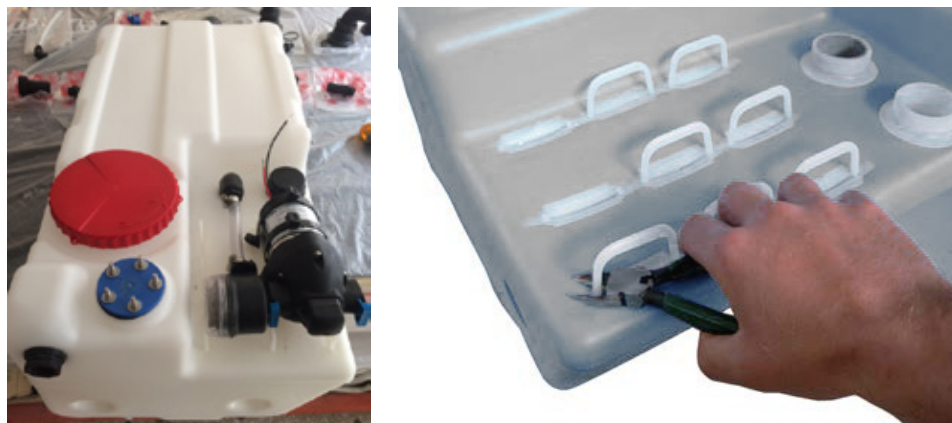
2. Hose adaptors

For a perfect seal, we suggest to use Teflon tape on connector threads.



3. Pump housing

If using different pumps than those suggested/placed by Nuova Rade, make sure that their shape and dimensions are compatible with the tank housing. White curved inserts onto the pump housing were conceived to fix the selected pump: cut the ones preventing pump fixing by using a cutter or cutting nippers. Remaining inserts will be used to fix the pump by using straps.



Installation

4. Sender assembling

The tank is supplied with a 5-holes flange (SAE-5 standard) to host a sender. We recommend always using the suitable gasket to assure a proper seal.

WARNING! Maximum driving torque 2 Nm, irretrievable damages may be caused if exceeding.



5. Tank fixing

We suggest fixing the tank to the floor by using brackets supplied with adjustable straps: the tank is moulded so as to host straps on its upper part.



6. Connection fixing

Once the tank is properly assembled and positioned into its definitive housing, you can proceed to connections: vents, fresh water inlet, outlet to deck filler and electric connections to the pump and the gauge. It is advisable to use metal clamps for all connections and to check regularly that are tightly fixed.



Use and Maintenance

Bora tank for fresh water collection requires a correct use and maintenance in order to grant a correct and regular operation. Following, please note some fundamental rules to be followed in the event of operation problems:

- Make sure of the level of the tank before refilling, so as to prevent the tank to be subject to over-pressure and/or leakages during filling; the tank has been studied and manufactured to support a maximum pressure of **0,2 bar**.
- Make sure that the tank is empty and clean at the end of the season and before wintering and stowed at a location that is adequately aired. **WARNING! Be sure that the gasket is clean and integral before re-installing the sender. Nuts must be hand screwed by using a wrench at a driving torque < 2Nm, so as to avoid irretrievable damages to the tank.**
- In case the tank is equipped with water pump, do not operate the pump in lack of liquids as this may damage it. **WARNING! Do not use dock vacuum pumps operating at a pressure higher than 0.2 bar: danger of tank breakage!**
- The tank **must not** be installed in such a way as to support decks, bulkheads or other boat's structures
- The tank **must not** be possible to tread on it or to use it as a seat
- The tank must be installed in order to allow inspection and the maintenance of the accessories, pipe connections, pumps etc.