

## **MBR Membranes**

### **TECHNICAL INFORMATION 2**

#### **STORAGE OF EBOX MODULES AFTER USAGE**

The EVERBLUE modules of the EBOX series are delivered in dry condition. The original membrane surface is hydrophobic. During the production is carried out a special surface treatment to change the surface loading to hydrophilic by using biodegradable hydrophilic components. If the membranes get wet, these components will be dissolved in the water and the membrane surface stays hydrophilic.

If the membrane becomes dry again then the loading changes back to hydrophobic!

In case of needed medium or long time storage (> 5 days) of wet membranes (after clean water tests or after usage) please follow the procedure below.

In case the membranes were used in normal operating conditions before:

1. Drain the membrane tank and remove all sludge from the tank – Refill with clean water (tap water quality),
2. Carry out of a chemical cleaning (in case of the membranes were used in normal operating conditions before) following the procedures described in Everblue Instruction Manual.
3. Operation of the modules with clean water to flush out the chemicals.
4. Initial conditioning of the membranes: with Sodium Hypochlorite (NaOCl) 100 ppm (as Chlorine) by dosing the chemicals into the membrane tank and by introduction of this solution via the membrane cleaning line.
5. Regular re-conditioning: check-up the active chlorine concentration in the membrane tank, and keep the it above 20 ppm, by dosing NaOCl if necessary,
6. Keep the Temperature between 0 and 40°C. Prevent freezing of the modules.

In case of just carrying out clean water test with new membranes you can skip the steps (1) & (2).

Please consider that such procedure is the ultima ratio. EBOX series modules are designed for using them until the end of membrane lifetime after the initial clear water tests.

The warranty period will start in accordance of EVERBLUE warranty conditions after the clean water tests or after the delivery and will not be prolonged for the time out of operation.

#### **Warning**

*All the informations above indicated are the result of the resarch and the experience of Everblue*

*The informations here attached cannot be used to raise any claim for liability or warranty.*

*All the warranties on performances must be written confirmed by Everblue on a specific request of the client.*

*For each order, we invite you to ask to Everblue the written confirmation of the performance warranties.*

*It is the manufacturer of the plant or the user responsibility to verify the efficiency and the result of the application also with the use of pilot plants.*