



SUBJECT: REPORT ON SATISFACTORY RESULTS FROM A HYDROFLOW UNIT, AT THE PLANT “POTABILITZADORA DE SA POBLA” (Mallorca, Spain).

Since the start of operation of the reverse osmosis water treatment plant of Sa Pobla in 2017, all the water supplied for the domestic and industrial use of the Sa Pobla, with population of 13,000 inhabitants, has been treated by this plant continuously.

The technology used in reverse osmosis leads to maintenance problems relating to the protection of the membranes against encrustation. In order to reduce the use of chemical products, to avoid scaling and for a reduction in cleaning frequency, last July we installed a Hydroflow 160 unit on one of the two treatment lines before the high pressure input of the membranes.

Six months after its installation we have analysed the results arising from the monitoring of the operation of the unit and we can inform and certify that it has achieved a reduction of the encrustation of the membranes and therefore an increase in their life. At the same time, as a result of minimizing the scale, the number of acid cleanings was reduced by 50% with respect to the second line that did not have a unit installed.

General data of the plant are:

- The water treatment plant uses reverse osmosis technology.
- It is configured by two treatment lines of double stage with a treatment total capacity of maximum yield 100 m<sup>3</sup> / h that together with the remineralization mix allows a maximum daily flow of 4,200 m<sup>3</sup> / day of good quality water.
- It has two stages of filtration prior to reverse osmosis, as well as a remineralization stage and a disinfection system.
- The energy consumption per cubic meter is 0.7 kW.

I would like to **express our satisfaction** for having achieved the expected results.

Sa pobla, February 22, 2018

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