

Protection of Reverse Osmosis Systems

Case Marine

Background:

Reverse osmosis is a membrane separation process in which the feed water (un-chlorinated raw sea water) is divided into two separate streams.

To protect this system, the BOLLFILTER Automatic Type 6.18 which consists of a compact housing with multi filter chambers is used as pre-filtration.

Advantages and added value for the customer:

Case Marine Inc, President, John Case attests to features and benefits of the BOLLFILTER Automatic Type 6.18 by identifying “**online-backwashing**” over comparison to media filtration which must be taken off-line for cleaning. Also, he points out in his watermaker system designs, he prefers the 6.18 being that it is a mechanical filtration solution. The BOLLFILTER technology has consistent and precise particle retention without risk of filtration media “**crevassing**” and short-circuiting through a granular media bed formation. John points out that the marine industry focus is on payload. His systems with mechanical pre-filtration in place of media bed filtration, takes into account the need for “**weight & size**” reductions. The use of a BOLLFILTER Automatic Type 6.18 offers significant weight variances as significant as 1/5 over an operating media filter.

Continuing, Case points out recovery from a catastrophically fouled filter will determine how quickly a system can be returned to functionality. Media filtration in most instances require complete “**media replacement**”. Thus replacement media has to be onboard at all times and there must be a procedure for the media replacement process.

It is easy to understand the successes of Case Marine, Inc. with the forward thinking in the decision to use of the BOLLFILTER Automatic Type 6.18 offer media bed filters. Mechanical filtration allows ease in disassembly for filtration element high-pressure cleaning and or chemical renewal without lengthy time out of operation. The BOLLFILTER without question has the quickest return from a fouling occurrence.



Case Marine Reverse Osmosis Module with the BOLLFILTER Automatic



BOLLFILTER Automatic Type 6.18

Customer: Case Marine

System: The BOLLFILTER Automatic Type 6.18 – backwashable, fine filtration through mechanical means; woven wire mesh, inverted wedge-wire screens and roll bonded meshes.



Boll & Kirch Filterbau GmbH.
Siemenstrasse 10-14
50170 Kerpen
Tel:0049 2273 562- 0
info@bollfilter.com
www.bollfilter.com