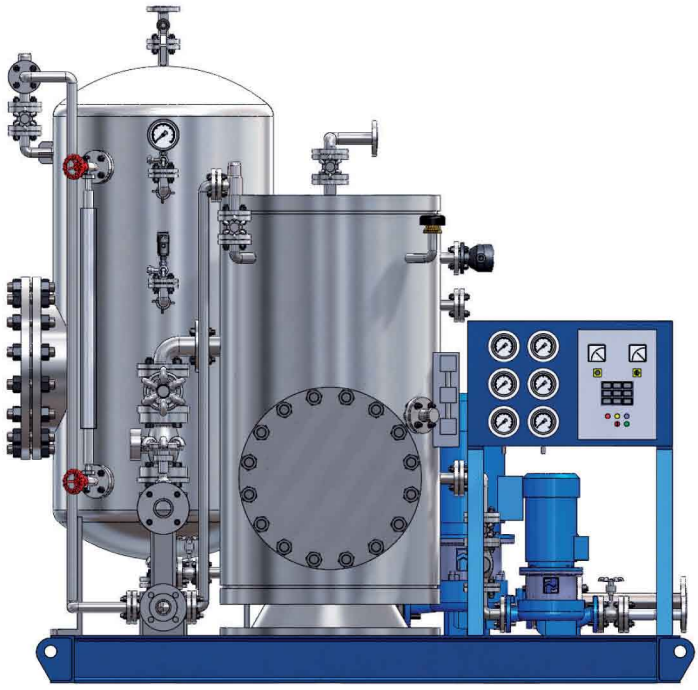
Waterfield™
PUMP & SYSTEM SOLUTIONS

MARINE AND OFFSHORE
FRESH WATER SYSTEMS:



WE CUSTOM DESIGN:

Throughout our years of experience, Waterfield is best known for its ability to provide systems solutions. Utilising our vast industry knowledge in both the marine and offshore industry, we are able to offer state of the art custom build fresh water systems. We place special emphasis in designing systems according to customer's specifications; and that includes meeting challenging requirements.

Waterfield's team of engineers are committed to providing the precise system that runs on its optimal performance both economically and efficiently, even for engineering requirements of the harshest operating environment. We do understand the critical nature of some applications, therefore we have invested additional resources to provide engineering support and perform testing procedures to accurately simulate application conditions.

Our involvement in the provision of engineering calculations and design complies with technical requirements, class requirements, regulations, and is certified in accordance to ISO-9001. High quality materials are used to ensure that the integrity of every structural part is secure and would function to its full capacity.

For standard requirements, we also do provide pre-engineered systems for marine and offshore use.

OUR STANDARD UNIT COMES WITH:

- Calorifiers
- Hydrophores
- Control cabinet
- Booster pump and hot water circulation pump

WHEN APPLICABLE (upon request):

- Filters
- UV-sterilizer, silver ion sterilizer or chlorination

SHELL MATERIALS:

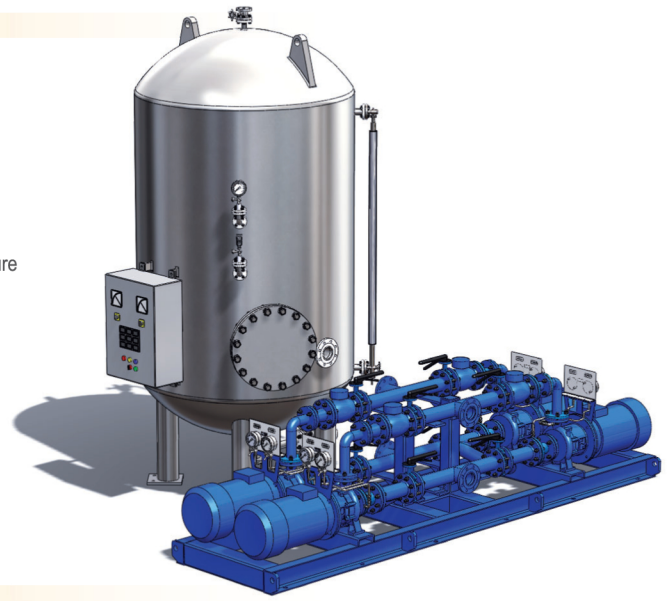
- Stainless Steel 316
- Galvanised Steel
- Copper
- Steel Copper Lined

ACCESSORIES:

- Anti-vacuum Valve
- Pressure Relief Valve
- Pressure Temperature relief Valve
- Anodes
- High Limit Cut Out
- Insulation
- Manhole
- Low Water Level Switch
- Pressure Switch
- Temperature Switch
- Pressure gauge
- Temperature gauge
- General Fittings

CASE STUDIES:

Project: Accommodation work barge of 236 men
Industry: Marine
Vessel: 111meter accommodation work barge
Item: Two 4000L Fresh Water Hydrophore System



- A system designed to cater fresh water consumption of 236 men on board an offshore accommodation barge, with the ability to provide constant pressure and flow of water during peak usage
- The system is designed to combine 2 skids into one, achieving an economical balance between performance, consumption, redundancy, and fulfilling the limited space requirements of the barge
- The design involves 4 pumps operating between 2 tanks, an effort to eliminate down time by inter-switching the operation pumps via valve control should there be any pump failure during offshore operation

Project: Accommodation work barge of 236 men
Industry: Marine
Vessel: 111meter accommodation work barge
Item: Two 6810L Hot Water Calorifier System

- A system designed to cater hot water consumption of 236 men on board an offshore accommodation barge
- The heating system is able to maintain a water temperature of 38°C during peak usage, with a low water inlet temperature of 7°C
- The system was customised to fit tight spaces within the vessel's engine room, and was designed to operate under the harsh winter climate of Scandinavia
- One of the first in Malaysia to design a marine hot water system of such capacity

To speed you through the enquiry or order process, please use the checklist provided below to ensure all necessary data is received for hassle-free service

	Fresh Water Hydrophore System	Hot Water Calorifier System
Number of crew	✓	✓
Number of showers	✓	✓
Number of working shifts	✓	✓
Tank storage capacity	✓	✓
Maximum pressure of primary system	✓	✓
Vertical or horizontal tank	✓	✓
Tank material	✓	✓
Hot water storage temperature		✓
Water inlet temperature (Ambient Temperature)		✓
Desire shower temperature		✓
Average shower duration	✓	✓
Time to heat contents or hourly draw off rate		✓
Size, type and position of any critical connections	✓	✓
Requirement for a manhole	✓	✓
Design standard	✓	✓
Type of class / Test certificate required	✓	✓
Type of control system required	✓	✓
Additional high water usage activities (eg. Pantry etc)	✓	✓
Type of insulation required		✓
Please provide details on the hot water recirculation pipe route for the sizing of the recirculation pumps		✓
Please provide additional information on the pipe routes for the sizing of the pressure booster pump	✓	✓
Please provide details on critical dimensions (Space Constrain)	✓	✓
Please provide any additional details that is deemed vital for your customised system that has not already been listed within this checklist	✓	✓

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