



Fischer Panda[®]

Power wherever you are[™]

HRO MINI SERIES – SPECIFICATIONS



System Specifications:

Product Water Produced per hour of operation:

+/-15% 850 psi / 56 Bar, 77°F / 25°C & 35,000 ppm TDS typical sea water

Model	Production Per Hour	Production Per 24 Hours
	gallons/liters	gallons/liters
Mini 170	7 / 26.8	170 / 644
Mini 350	14.6 / 55.2	350 / 1,325
Mini 550	23 / 87	550 / 1,900
Mini 750	31 / 117	750 / 2,850

Salt Rejection (Chloride Ion):

Minimum 99.2%, Average 99.4%

Product Water Temperature:

Ambient to feed water temperature.

Salinity Monitoring:

The salinity monitoring components of the system give a continuous readout in micromhos per cubic centimeter, are temperature compensated, and of a fail safe design.

Salinity Range:

Designed for seawater use up to 50,000 ppm TDS (NaCl) (typical seawater salinity is 35,000 ppm.)

Temperature Range:

Min. 33°F / .5°C Max. 122°F / 50°C

System Feed Water:

Fischer Panda UK Ltd. 17 Blackmoor Road,
 Ebblake Industrial Estate, Verwood. Dorset BH31 6AX
 Tel: +44 (0)1202 820840 Fax: +44 (0)1202 828688
www.fischerpanda.co.uk



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Flow: 50Hz, 3.5 gpm / 13.2 lpm; 60Hz, 3 - 4.2 gpm / 11.4 - 15.9 lpm

Reverse Osmosis Membrane:

TYPE: Specifically selected High Rejection / High Yield aromatic tri-polyamid, thin film composite, spiral wound, single pass reverse osmosis membrane element.

Chlorine Tolerance:

0.1 ppm

pH Range:

3-11 (typical seawater pH is 8)

System Pressure:

Feed Water:

Minimum: 2 psi / .14 bar / .14 Kg/cm²

Maximum: 30 psi / 2.07 bar / 2.11 Kg/cm²

System Operation:

Seawater @ 35,000 ppm & 77° F / 25° C

Nominal: 850 psi / 58.6 bar / 59.76 Kg/cm². (Brackish varies w/ppm)

Weight:

Model Number	Weight
Seafari Mini 170	70 lbs / 32 Kg
Seafari Mini 350	125 lbs / 57 Kg
Seafari Mini 550	125 lbs / 57 kg
Seafari Mini 750	130 lbs / 59 kg

External Installation Water Connections:

Pipe sizes to be supplied by the installer for connection of the Horizon Reverse Osmosis supplied components.

Seafari 170

Feed Inlet: 1/2" MNPT Male National Pipe Thread U.S. Standard
Brine Discharge: 1/2" MNPT Male National Pipe Thread U.S. Standard
Product: 1/4" FNPT Female National Pipe Thread U.S. Standard

Seafari 350

Feed Inlet: 1/2" MNPT Male National Pipe Thread U.S. Standard
Brine Discharge: 1/2" MNPT Male National Pipe Thread U.S. Standard

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Product: 1/4" FNPT Female National Pipe Thread U.S. Standard

Seafari 550 / 750

Feed Inlet: 3/4" MNPT Male National Pipe Thread U.S. Standard

Brine Discharge: 1/2" MNPT Male National Pipe Thread U.S. Standard

Product: 3/8" FNPT Female National Pipe Thread U.S. Standard

Electrical - High Pressure Pump Motor and Booster Pump:

Mini 170 (High Pressure and Booster Pump):

Phase	Hz	Voltage	HP	Running Amps	Start Up Amps
NA	NA	12 V DC	0.33	29	90
NA	NA	24 V DC	0.33	14	45
1	50/60	115	0.33	6	20
1	50/60	220	0.33	3	10

Mini 350 (High Pressure and Booster Pump):

Phase	Hz	Voltage	HP	Running Amps	Start Up Amps
1	50/60	115	1	21	70
1	50/60	220	1	10	35

Mini 550 / 750:

Pump	Phase	Hz	Voltage	HP	FLA	LRA
HP	1	50/60	110/220	2	28 / 14	93 / 47
Booster	1	50/60	110/220	1/2	8 / 4	28 / 14