



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Parker Village Marine Leisure Marine RO Desalination Watermakers



ENGINEERING YOUR SUCCESS.

Parker Village Marine

Forward Thinking in Reverse Osmosis Engineering

For decades, Parker Village Marine (VMT) has developed advanced water desalination and purification systems for some of the most challenging environments – the middle of the ocean, 800 feet below the sea, offshore oilrigs, deserts, and disaster areas. The superior quality components that go into VMT systems ensure that each one is built to the highest standards for safety, maintainability and reliability. The highest grades of raw materials are precisely machined and thoroughly tested to exacting customer requirements and industry specifications. By controlling the source and processes from the raw material to the final product, lead times are reduced to achieve on-time delivery, every time.

VMT has a legacy of performance. Providing state-of-the-art and reliable reverse osmosis (RO) purification systems for seawater, brackish water and tap water; from energy-saving 145 GPD watermakers to high-performance 250,000 GPD system is what has established VMT as a leader in industry. VMT received the prestigious Aegis Excellence Award as the only RO supplier to excel in quality and delivery, surpassing U.S. Navy expectations. The U.S. Navy, the U.S. Coast Guard, the U.S. Army, NASA, FEMA, seaside properties such as Catalina Island, and areas in need of disaster relief, such as New Orleans after Hurricane Katrina have relied on VMT for high-profile government projects.

Meeting the fresh water requirements of military ships to working marine vessels to luxury yachts to seaside properties has always been the mission of Parker Village Marine. A global leader in the innovative application of reverse osmosis technology.



ISO 14001:2004



ISO 9001:2008





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The **Inside** Story



STW Series Watermaker



Glycerin filled, high and low pressure gauges



Integral, closed loop cleaning system

Corrosion resistant, powder coated, aluminum frame



Touchscreen panel allows complete watermaker control at your fingertips. Remote control panel is included as standard equipment.

To maintain peak performance always use genuine Parker Village Marine replacement parts. We reserve the right to change our specifications or standards without notice.



High pressure bypass valves, 316 Stainless Steel

Corrosion resistant fresh water and brine flow meters



Industrial Strength reinforced high pressure hose with Titanium wetted fittings



Industrial grade, pleated pre-filtration



Custom made seawater membranes



Aqua Pro, Triplex Titanium pump for low vibration and low noise with unsurpassed corrosion resistance.



TRUE 316 Stainless Steel high pressure regulator - Eliminates risk of over pressurization

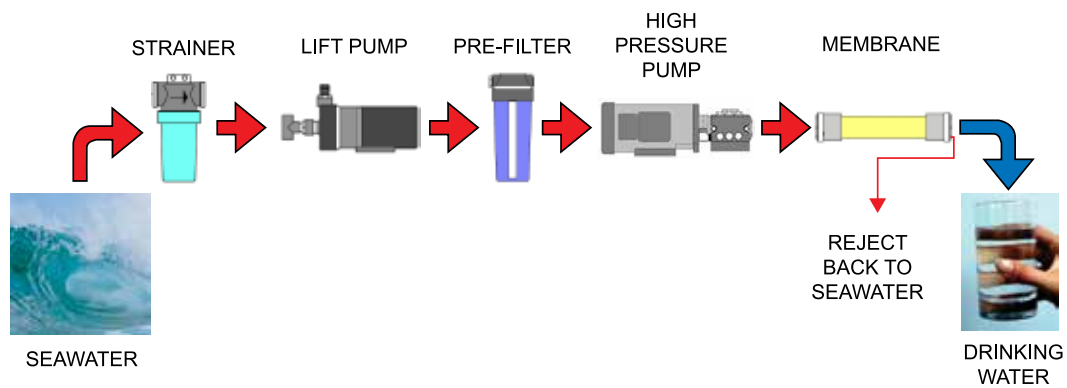


Fiberglass pressure vessels



Corrosion resistant, machined nylon end caps and manifolds

Reverse Osmosis System





Little Wonder (LWM) and Sea Quencher (SQ)

145 - 200 GPD | 550 - 760 LPD

Compact and reliable supply of fresh water. For sailboats and other marine applications.

The Little Wonder (LWM) and Sea Quencher (SQ) Series reverse osmosis desalination systems are the preferred choice for boaters who require small low power water-makers.

The units are simple to install and easy to operate. Ideal for applications where space and power are limited. The quality components that go into the LWM and SQ units ensure safety and years of reliable service.



LWM-145, 200



SQ-145, 200

Optional Accessories



Optional salinity monitor and diversion valve available

(See bulletin no. 7972)



Optional remote instrument panel available for modular units

Standard Features:

- Titanium High Pressure Pump is impervious to the corrosive sea water environment and designed for maximum efficiency
- Raw Water Boost Pump with magnetic drive
- Adjustable 316 SS Pressure Regulating Valve provides constant pressure. No fluctuating pressure and low noise
- Product Flowmeter to monitor gallons per hour of fresh water produced
- Glycerine filled high pressure gauge to assure accurate reading of operating pressure
- Easy to operate High Pressure Bypass Valve controls the operating mode from cleaning/rinse to reverse osmosis
- High salt water rejection rate
- Fresh Water Flush System included
- Product Sample Valve included
- CIP system allows membrane cleaning/pickling by simple to use cartridges

Model	Part Number	Water Production GPH/LPH	Power Supply Volts/Amps	Frame Size WxDxH inch/cm	Weight lbs/kg
LWM-145	90-8200	6/22	12 VDC/13	Modular	62/28
LWM-200	90-8512 90-8516 90-8515	8/30	12 VDC/17 110 VAC 60Hz/6 220 VAC 50Hz/3.3	Modular	69/31
SQ-145	90-8564	6/22	12 VDC/13	24/61 x 11/28 x 12/30	70/32
SQ-200	90-8549 90-8561 90-8550	8/30	12 VDC/17 110 VAC 60Hz/6 220 VAC 50Hz/3.3	24/61 x 11/28 x 12/30	72/33

Spares and Consumables

Part No.	Description	Part No.	Description
85-0050	Pump Oil, Quart	33-3001	Membrane Element SQ-200
33-0117	Prefilter Element, 5 micron	33-3002	Membrane Element LWM-200
33-0311	Flush Filter Element	90-2512	Membrane O-Ring Kit
90-0005	Filter Housing O-Ring	85-0102	Cleaning Kit
99-6881	Filter Wrench	85-0103	Preservation Kit
70-6181	HP Pump Service Kit	70-0036	Belt, Models 145
33-3000	Membrane Element Models 145	70-0168	Belt, Models 200



Stowaway (STW) Series

400-800 GPD | 1,500 - 3,000 LPD

Compact Leisure Marine Watermakers

The Stowaway (STW) Series offers fresh water independence for ocean crossings, extended fishing trips or cruising where dock supplies are unreliable.

The STW features a semi modular frame format, which maximizes installation flexibility. The frame is compact and can be above or below water line. The boost pump and prefilters are supplied as loose items. The watermaker can be operated and monitored from the electronic remote control.



STW
25" Wide X 16" Deep X 13" High

Key Features:



Aqua Pro® Pump 708-3

Triplex Titanium pump for low vibration and low noise with unsurpassed corrosion resistance.



Remote Control Panel

Touchscreen panel allows complete watermaker control at your fingertips. Remote control panel is included as standard equipment.

Standard Features:

- Unique titanium high pressure pump head is impervious to the corrosive seawater environment and is designed for very simple valve service
- Easy access sediment prefilter
- Maintenance-free air/oil separator allows operation while underway
- Magnetic drive low pressure pump provides up to 10 psi of boost pressure to the filtration system. Never requires seal replacement
- Glycerine filled pressure gauges and acrylic flowmeters for both product and reject streams
- Automatic freshwater flush system standard, allowing programed timed flush or one button remote flush.
- 316 stainless steel pressure regulator ensures consistent pressure and prevents over or under pressurization of the unit. Adjustable to allow operation in brackish or fresh water.
- Easy to operate 316 SS high pressure bypass valve controls the operation from cleaning/ rinse to R.O. mode and allows high pressure bypass for start-up and low pressure flushing without readjustment of regulating valve
- Automatic diversion valve diverts water to discharge if water quality drops below acceptable standards
- Color touch screen controller displays purity of product water output. Also displays temperature and total hours for accurate service log
- Cleaning valve for easy cleaning or preservation of the unit using VMT cartridge cleaners

Model	Part Number	Power Volts/Hz/Amps	Dimensions inch/cm	Capacity GPH/LPH	Weight lbs/kg
STW-400	90-8293 90-8294 90-8295	110/60/13 220/60/8 230/50/8	width 25/62 depth 16/40 height 13/34	16/63	110/50
STW-600	90-8296 90-8297 90-8298	110/60/13 220/60/8 230/50/8	width 25/62 depth 20/50 height 13/34	25/95	116/53
STW-800	90-8299 90-8300 90-8301	110/60/13 220/60/8 230/50/8	400 size plus remote membrane rack 49x11/125x27	33/126	135/61

Spares and Consumables

Part No.	Description	Part No.	Description
85-0050	Pump Oil, Quart	33-2519	Membrane Element (model 400,600)
33-0117	Prefilter Element	33-0238	Membrane Element (model 800)
33-0311	Flush Filter Element	90-2512	Membrane O-Ring Kit
90-0005	Filter O-Ring	85-0102	Cleaning Kit
99-6881	Filter Wrench	85-0103	Preservation Kit
70-6182	HP Pump Service Kit		



LT and LTM Series

400 - 1,800 GPD | 1,500 - 6,800 LPD

Practical and Reliable Fresh Water Supply

The LT and LTM desalinators offer fresh water independence for ocean crossings, extended voyages or fishing where dock water supplies are unreliable.

The units feature a semi modular frame format, for installation flexibility. The frame is compact and can be above or below the water line. The boost pump and prefilters are supplied as loose items.



LT-800



LTM-500

Key Features:



Models 400 and 600 can be configured with membranes mounted on top or back of frame.



Optional Remote with water quality indicator, comes with 50 ft. cable. P/N 90-0119

Standard Features:

- Compact stainless steel high pressure pump is resistant to the corrosive seawater environment
- Sediment prefilter at 5 micron rating
- Magnetic drive low pressure pump provides up to 10 psi of boost pressure to the filtration system. Never requires seal replacement
- Glycerine filled pressure gauges
- Flowmeter to monitor freshwater production
- Freshwater flush system can be supplied for manual flushing or timed automatic flush with adjustable interval and duration for set-and-forget flushing
- 316 stainless steel pressure regulator is adjustable to allow operation in brackish or fresh water
- Electrical control panel Nema 4X with motor starter and pump controls
- Automatic diversion valve diverts water to overboard if quality drops below acceptable standards
- Digital water quality monitor displays purity of product water produced

Model	Part Number	Power** Volts/Hz/Amps	Dimensions inch/cm	Capacity GPH/LPH	Weight lbs/kg
LT-400	90-6016	110/60/18	*width 19.5/50 depth 16/41 height 12/30	16/63	115/52
	90-6017	220/60/8			
	90-6018	230/50/8			
LT-500	90-6021	110/60/18	400 size plus remote membrane rack, W x H 50x6/127x15	21/80	115/52
	90-6022	220/60/8			
	90-6023	230/50/8			
LT-600	90-6024	110/60/18	*width 19.5/50 depth 16/41 height 12/30	25/95	121/55
	90-6025	220/60/8			
	90-6026	230/50/8			
LT-800	90-6027	110/60/18	400 size plus remote membrane rack, W x H 50x6/127x15	33/126	125/57
	90-6028	220/60/9			
	90-6029	220/50/8			
LT-1000	90-6011	220/60/12	400 size plus remote membrane rack, W x H 50x12/127x30	42/157	135/61
	90-6012	230/50/12.5			
LT-1300	90-6013	220/60/12	400 size plus remote membrane rack, W x H 50x18/127x45	54/205	142/64
	90-6014	230/50/12.5			
	90-6073	440/60/6			
LT-1800	90-6015	220/60/12	400 size plus remote membrane rack, W x H 50x22/127x50	75/284	157/71
	90-6074	440/60/6			

* Models 400 and 600 membrane rack can be mounted on top or on back of frame, add 4"/10cm to height or depth.

**Only 1300 and 1800 models are available for 3 phase power. Extra transformer box included.

Model	Part Number	Electrical Supply Volts/Ph/Hz/Amps	Capacity GPH/LPH	Weight lbs./kg
LTM-500	90-6019	110/1/60/18	21/79	92/42
	90-6047	220/1/60/8		
	90-6048	230/1/50/8		
LTM-800	90-6049	110/1/60/18	33/125	100/45
	90-6050	220/1/60/9		
	90-6051	230/1/50/8		
LTM-1000	90-6052	220/1/60/12	42/158	133/60
	90-6053	230/1/50/12.5		
LTM-1300	90-6054	220/1/60/12	54/205	153/70
	90-6055	230/1/50/12.5		
LTM-1800	90-6056	220/1/60/12	75/284	168/76



Pure Water (PW) Series

400 - 2,000 GPD | 1,500 - 7,500 LPD

The Pure Water (PW) Series is designed to provide installation flexibility, superior performance, and extended service life in the most rugged conditions.

Designed for 24/7, continuous-duty applications, where reliable fresh water supply is critical.

The fully framed unit is standard, however semi-modular and fully modular versions are also available.

(See bulletin no. 7783)



PW 400-2,000 GPD (1,500-7,500 LPD)
Horizontal Frame System (See bulletin no. 7783)



PW 400-2,000 GPD (1,500-7,500 LPD)
Semi-Modular System



Manual Fresh
Water Flush

Key **Feature**



At the core of each PW series watermaker are the AquaPro® high rejection seawater membranes to ensure high quality potable water supply.

Standard Features:

- Monel mesh strainer and dual sediment prefilters.
- Maintenance-free air/oil separator allows operation while underway.
- Low RPM five plunger titanium pump for minimum vibration and noise with unsurpassed corrosion resistance.
- Magnetic drive low pressure pump provides up to 10 psi of boost pressure to the filtration system. No mechanical seal to reduce maintenance requirement.
- Stainless steel, glycerin filled pressure gauges.
- Freshwater flush system is added as either manual flush or optional automatic flush.
- Adjustable 316 SS pressure regulating valve allows use in fresh, brackish or seawater.
- Easy to operate 316 SS high pressure bypass valve controls the operating mode and allows high pressure bypass for start-up and low pressure flushing without readjustment of regulating valve.

Model	Part Number	Power Volts / phase / Hertz / Amps	Capacity GPH-m ³ / D	Dimensions W x D x H inch (cm)	Weight lbs. / kg
PW-400	90-8633	110 / 1 / 60 / 13	17-1.5	27 (69) x 24 (61) x 16 (41)	225/102
	90-8217	220 / 1 / 60 / 8			
	90-8513	220 / 3 / 60 / 6			
	90-8036	230 / 1 / 50 / 8			
	90-8238	380 / 3 / 50 / 3			
	90-8037	440 / 3 / 60 / 3			
PW-600	90-8125	110 / 1 / 60 / 21	25-2.3	54 (137) x 24 (61) x 16 (41)	350/159
	90-8006	220 / 1 / 60 / 11			
	90-8223	220 / 3 / 60 / 7			
	90-8636	230 / 1 / 50 / 11			
	90-8635	380 / 3 / 50 / 4			
	90-8634	440 / 3 / 60 / 4			
PW-800	90-8028	220 / 1 / 60 / 17	34-3.0	54 (137) x 24 (61) x 16 (41)	350-159
	90-8637	220 / 3 / 60 / 11			
	90-8047	230 / 1 / 50 / 15			
	90-8638	380 / 3 / 50 / 6			
	90-8292	440 / 3 / 60 / 6			
PW-1200	90-8038	220 / 1 / 60 / 17	50-4.5	54 (137) x 24 (61) x 16 (41)	400-182
	90-8210	220 / 3 / 60 / 11			
	90-8606	230 / 1 / 50 / 15			
	90-8212	380 / 3 / 50 / 6			
	90-8040	440 / 3 / 60 / 6			
PW-1600	90-8600	220 / 1 / 60 / 19	67-6.0	54 (137) x 28 (81) x 16 (41)	425/193
	90-8603	220 / 3 / 60 / 16			
	90-8601	230 / 1 / 50 / 25			
	90-8017	380 / 3 / 50 / 8			
	90-8604	440 / 3 / 60 / 8			
PW-2000	90-8554	220 / 1 / 60 / 19	84-7.6	54 (137) x 28 (81) x 16 (41)	450/205
	90-8039	220 / 3 / 60 / 16			
	90-8597	230 / 1 / 50 / 25			
	90-8598	380 / 3 / 50 / 8			
	90-8011	440 / 3 / 60 / 8			

Spares and Consumables

Part No.	Description	Part No.	Description
85-0050	Pump Oil	33-0271	O-Ring, Flush Housing (models 800+)
33-0005	Prefilter Element, 5 micron	33-2519	Membrane (model 400)
33-0020	Prefilter Element, 20 micron (models 800+)	33-0238	Membrane (models 600+)
33-0311	Flush Filter (models 400, 600)	90-2512	O-Ring Kit, Membrane Housing
33-0315	Flush Filter (models 800+)	90-0562	Clean and Preservation Kit
30-0040	Strainer Element	70-6184	HP Pump Service Kit
30-0405	O-Ring, Prefilter Housing	20-4096	Salinity Probe
90-0005	O-Ring, Flush Housing (models 400, 600)	20-0005/20-2001/20-0243	Fuses (1 of each)

Optional Accessories

AquaPro® Pumps

Innovative engineering • Solid material choices

Quiet and durable, Aqua Pro Titan Series Pumps are dependable and specifically designed for reverse osmosis applications. Specific pump components are made of titanium which is impervious to sea water corrosion. The positive-displacement pump design uses less energy than most pumps.

(See bulletin no. 7885)



Titan Series
High pressure titanium pump
3P20



Titan Series
High pressure titanium pump
5P50HD and 5P100HD



Titan Series
High pressure titanium pump
10P200HD



Titan Series
High pressure
titanium pump
708-5

Key Features

- Titanium pump heads ensure reliable operation and minimal maintenance.
- Titanium fluid ends and titanium-backed nylon valves are impervious to sea water corrosion.
- Heavy-duty industrial drive end and corrosion/wear-resistant plungers extend service life in high pressure applications.
- The combination plunger pump and pressure regulation design reduces noise and vibration to provide quiet, smooth operation.

Spares and Consumables



Parker Village Marine consumables and spare parts are stocked at Parker marine distributors worldwide. Protect your investment and warranty by using only authorized spares.

(See bulletin no. 7905)

Stowaway Watermaker Master Control Panel



Parker Village Marine brings customers a new level of watermaker control and ease of operation. The Parker Watermaker Control Panel delivers advanced Parker technology at your fingertips.

(See bulletin 7972)

Available now on the Stowaway series of watermakers from Parker Village Marine.

(See bulletin 7861)

Pressure Vessel Assemblies



Parker Village Marine RO membrane pressure vessels feature non-metallic wetted surfaces for excellent corrosion resistance. Simple end plug design allows quick removal for element servicing. If the size you require is not shown please contact us for custom builds.

(See bulletin no. 7898)

AquaPro[®] Membranes and Filters



Salts, minerals and organics are no match for Aqua Pro spiral wound membranes. They remove impurities from sea water, brackish water, fresh water and tap water.

Selecting the highest grade of materials and thoroughly testing their performance and integrity, results in unmatched membrane quality and efficiency. Flexibility in design and manufacturing capabilities allows maximum quality control and quick response to unique, custom fabrication.



Pleated filters are designed for reverse osmosis application and offer superior service life to wound or polyspun cartridges. The cartridge size to flow rate ratio is lower than most filters on the market. A wide range of in-stock sizes and micron ranges fit most standard filter housings on the market today.

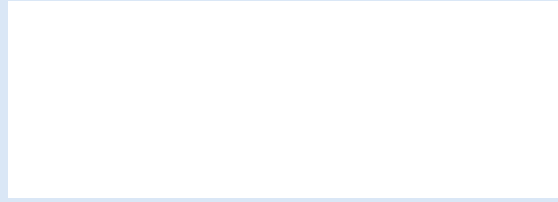
(See bulletin no. 7898)



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