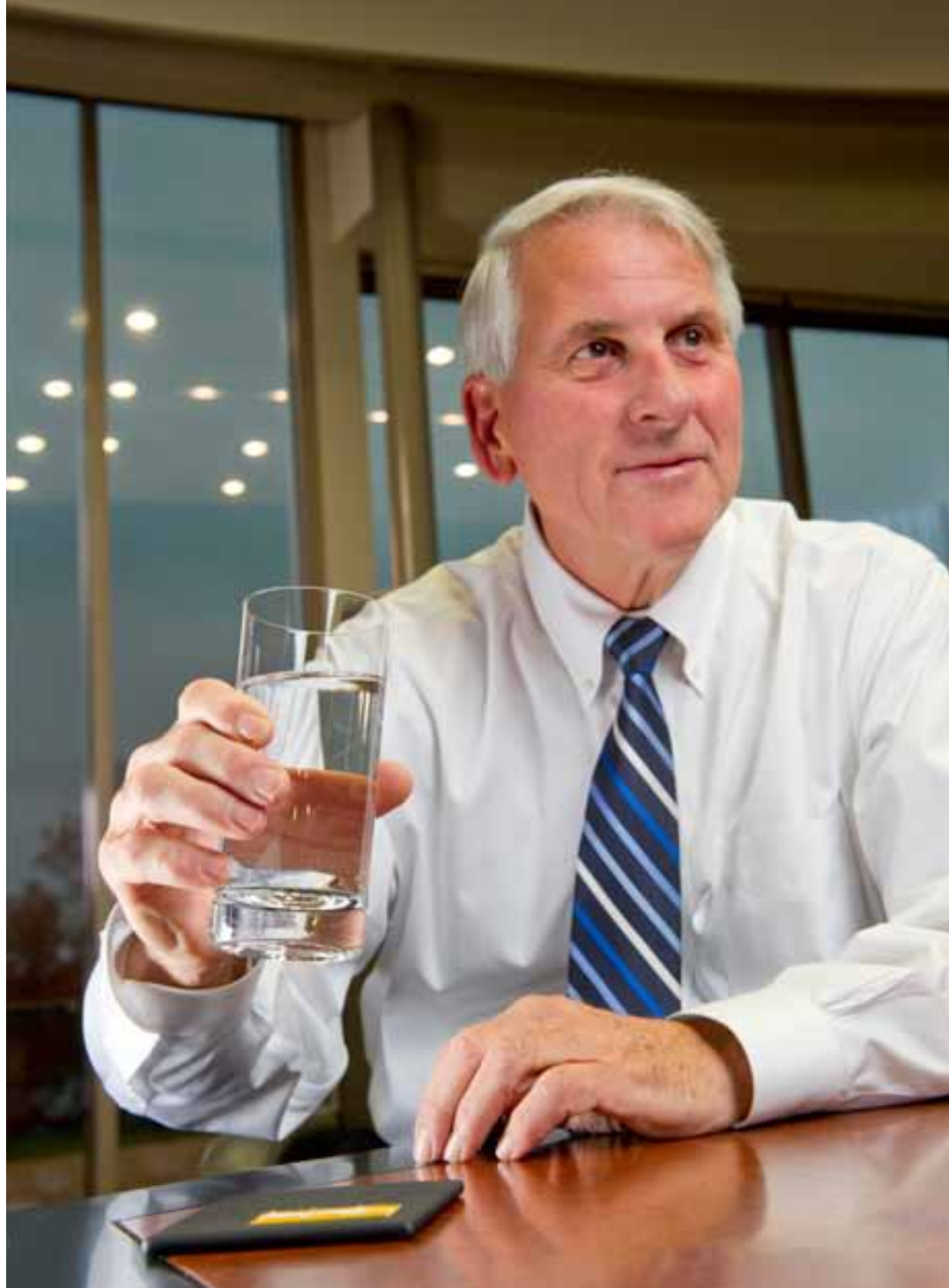




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Drinking Water Filtration for Parker Facilities

Parker Internal Use Only



ENGINEERING YOUR SUCCESS.

Point-of-Use Water for Parker Facilities

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For over 30 years, Racor – Village Marine Tec. has developed innovative water desalination and purification system solutions for some of the most challenging environments – the middle of the ocean, 800 feet below the sea, offshore oil rigs, deserts and disaster areas. We are now offering that same innovation to our fellow Parker facilities with a variety of filtration solutions designed to produce fresh drinking water for both the office and in the plant.



Caring about the health of our employees has made providing clean drinking water at every facility worldwide a goal among Parker management. Racor Village Marine

has prepared a selection of Parker water purification products that can suit the water standards we want for every facility. Call on Racor Village Marine, they are your source for Parker water purification solutions and are here to help.

Don Washkewicz,
Chairman, CEO and President

First, depending on your facility we recommend the following guide line.

Note: The quantity of units is not only specific to the number of employees but also the square footage of your facility. This will help assure both an adequate volume of water and convenient access for your employees.

Location	Employees	Point-of-Use Units
Office	5 - 25	1 - 3
Office	25 -50	3 - 6
In-Plant	50 - 100	6 -12
In-Plant	100 - 250	12 -24
In-Plant	250 - 500	24 -48
In-Plant	500 - 1000	48+

How to Order

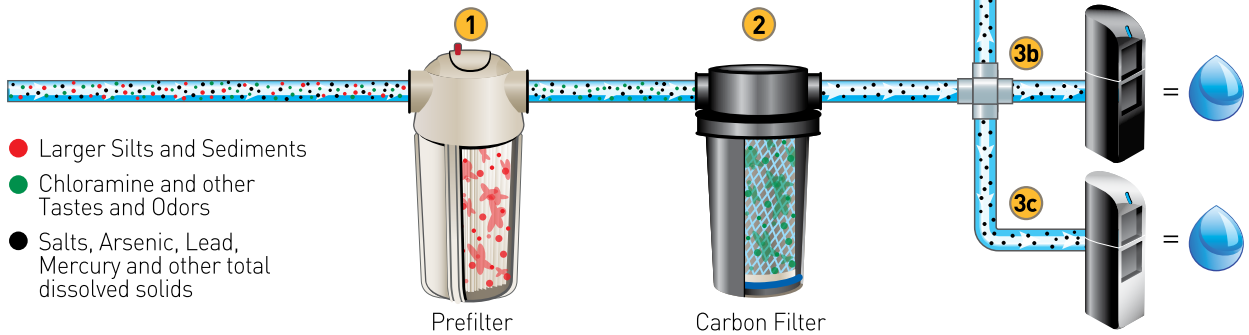
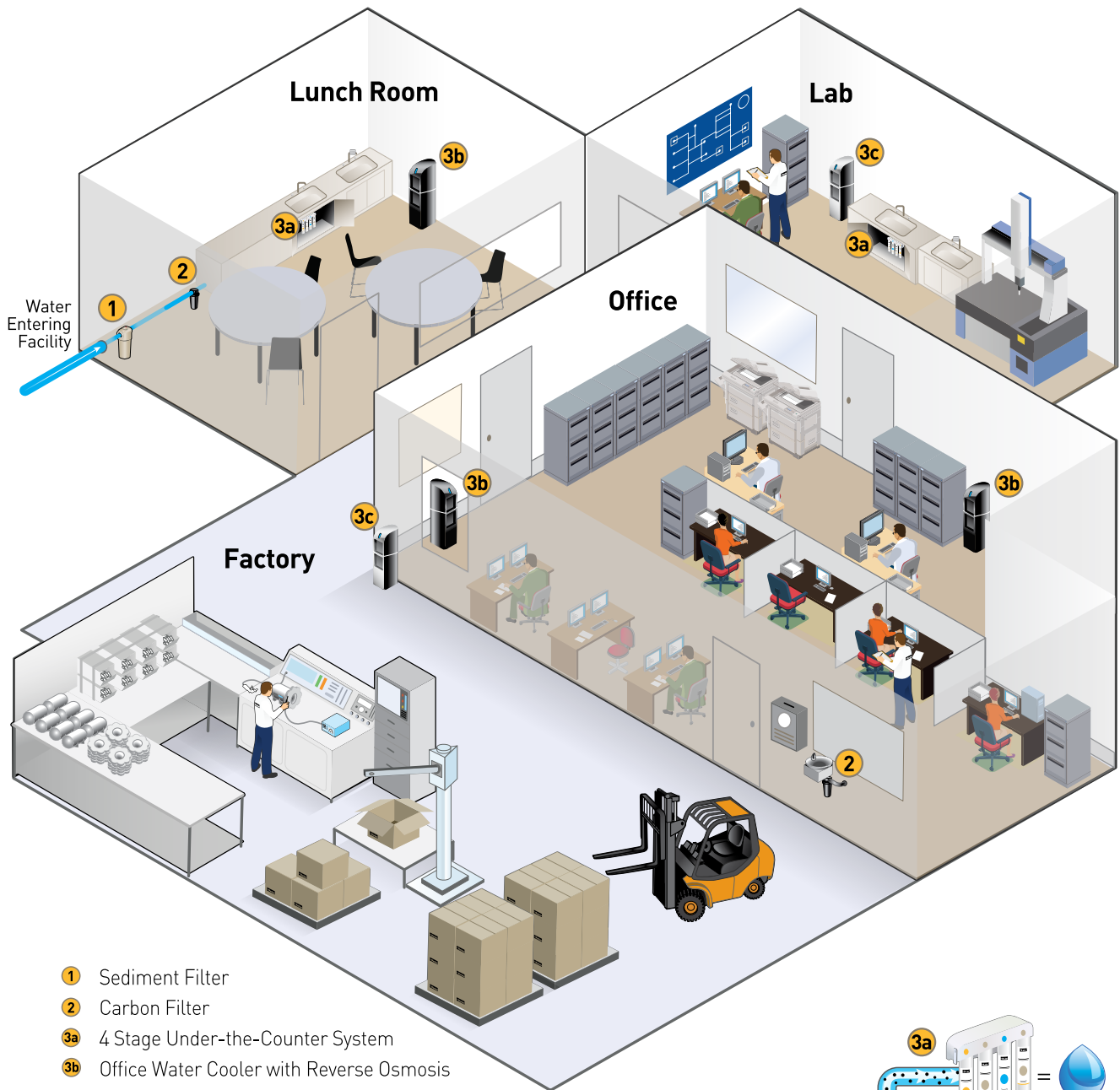
Order from a Parker Sales Company

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Credit or P-Cards are accepted

Ask for the Inside Sales Team at
Phone number: 310 516 9911
Fax number: 310 538 3048
Email: vmtorders@parker.com

Parker Hannifin Corporation
Racor Division - Village Marine Tec.
2630 E. El Presidio Street
Carson, CA 90810



Prefilter



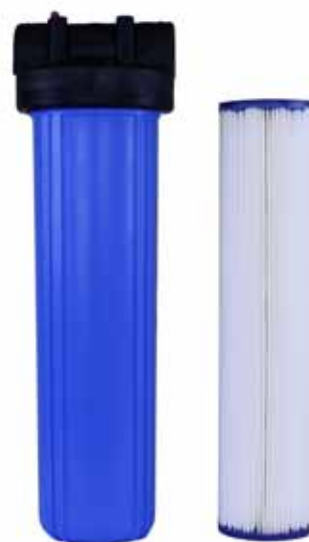
(Small)

Clear Housing: part # 33-1034
5 Micron Filter: part # 33-0117



(Medium)

White Housing: part # 33-0011
5 Micron Filter: part # 33-0052



(Large)

Blue Housing: part # 33-0095
5 Micron Filter: part # 33-0057

Benefits

The first stage of the filtration process removes suspended particles, silts and sediments from the source water. By removing the larger contamination from the water source it helps protect the reverse osmosis membranes and carbon filters from being clogged

ensuring a longer filter life. The contamination can come from the city water source or corroded pipes. A larger filter gives you a higher flow rate and a longer filter life.

Features

- Removes silts and sediments like dirt, sand and other larger contamination in the water
- Filters made of a high quality Polypropylene
- Pressure relief/bleed button on inlet side of cap
- Thick walls for increased strength
- Leak-proof sealing with top-seated Buna-N O-ring

Small Housing

Part Number	Description
33-0117	5 Micron Filter
33-0118	20 Micron Filter

Medium Housing

Part Number	Description
33-0052	5 Micron Filter
33-0053	20 Micron Filter

Large Housing

Part Number	Description
33-0057	5 Micron Filter
33-0058	20 Micron Filter

Optional Wall-Mounting Bracket

Part Number	Description
90-1474	White
33-0283	Grey
90-2852	Dual Bracket, White

Specifications

Small Housing
Dimensions: 5" X 12" / 130mm X 310mm Inlet size: 3/4" NPT

Medium Housing
Dimensions: 7" X 14" / 180mm X 360mm Inlet size: 1" NPT

Large Housing
Dimensions: 7" X 25" / 180mm X 640mm Inlet size: 1.5" NPT

Carbon Filter



(Small)

Clear Housing: part # 33-1034
Carbon Filter: part # 33-0311



(Medium)

White Housing: part # 33-0011
Carbon Filter: part # 33-0315



(Large)

Blue Housing: part # 33-0095
Carbon Filter: part # 33-0083

Benefits

The next stage of filtration is the carbon filter. Its purpose is to remove chlorine or chloramine as well as any tastes or odors from the water. This will provide you with fresh tasting and softer water at every faucet within your facility. A larger housing offers a higher flow rate and longer lasting filter.

Part No.	Description
Small Housing	
33-1123	5" Carbon Filter
Medium Housing	
33-0315	10" Carbon Filter
Large Housing	
33-0083	20" Carbon Filter

Optional Wall-Mounting Bracket	
90-1474	White
33-0283	Grey
90-2852	Dual Bracket, White

Specifications

Small Housing
Dimensions: 5" X 12" / 130mm X 310mm
Flow rate: 1 GPM / 3.8 LPM
Inlet size: 3/4" NPT
Medium Housing
Dimensions: 7" X 14" / 180mm X 360mm
Flow rate: 3 GPM / 11.4 LPM
Inlet size: 1" NPT
Large Housing
Dimensions: 7" X 25" / 180mm X 640mm
Flow rate: 7 GPM / 26.5 LPM
Inlet size: 1.5" NPT

Water Softener



Water Softener:
part # 90-6070

Prefilter:
part # 33-0052

Prefilter Housing:
part # 33-0011

Hydro-Magnet:
part # 90-6070HM

The Parker water softener is an optional filter to address hard water issues without the need of salt, electricity or backwashing. This is a great way to prolong the life of pipes and any appliances that use water by preventing build up and scaling. This also helps protect reverse osmosis systems by removing calcium and magnesium, both of which can clog RO membranes. The optional Hydro-Magnet will change the ionic charge of the incoming hard water allowing the system to more efficiently remove hardness from the source.

- Can be installed after the carbon filter
- Extends the life of dishwashers, water heaters, pipes and RO units
- No salts or dangerous chemicals
- Cost efficient; no electricity and no extra water is needed for back washing
- Soft water without the slimy feeling
- Low maintenance

Specifications
Dimensions:
10" X 50" / 255mm X 1300mm
Flow rate: 10 GPM / 40LPM
Inlet size: 3/4"

Under-The-Counter

Reverse Osmosis Systems



The Under-the-Counter filtration system is a unit that is typically installed beneath a sink where it filters the water into a storage tank at 75 gallons per day. When the faucet is opened it feeds the pre-filtered ambient water out from the tank giving you instant access to fresh and clean drinking water.



4 Stage Under-the-Counter System

4 Stage Reverse Osmosis Water System

Stage 1 - Sediment:

5 micron sediment filter to remove dirt rust and any other suspended particles in the source water.

Stage 2 - Carbon:

Carbon block filter cartridge to remove chlorine, tastes and odors. This also assists in protecting your RO membrane.

Stage 3 - Reverse Osmosis:

Thin film reverse osmosis membrane to remove 99% of dissolved solids.

Stage 5 - Polishing Filter:

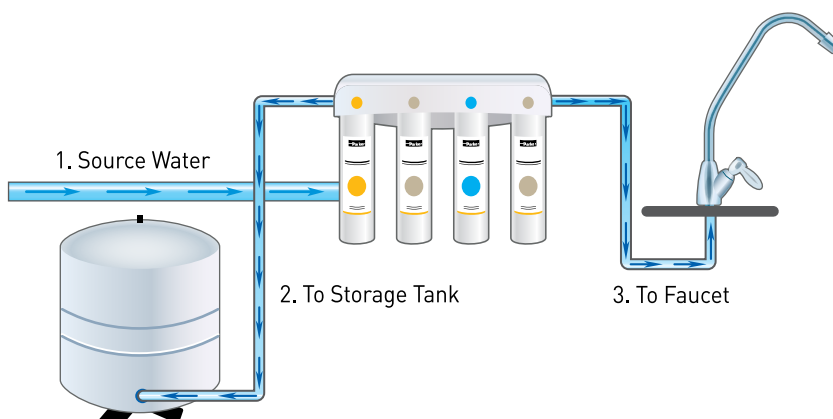
When the faucet is opened water leaves the storage tank and runs through a final polishing filter to remove any tastes and odors it may have acquired in the storage tank.

Ordering Information

Part Number	Description
90-8702	Under-the-Counter System
99-0116	Annual Replacement Kit

Features

- Ambient water
- Easy to change filters
- Easy system installation
- 75 Gallons per day / 3 Gallons per hour filtration
- Reverse osmosis for pure water



Water Coolers

For Office and Plant



Ideal for office



The Parker office water cooler is the best solution for busy offices where access to clean drinking water is a necessity. The unit is constructed with durable metal panels, large storage tank and a tall dispenser area for ease of filling sports bottles, mugs, and coffee pitchers. The office water cooler provides hot, cold and ambient fresh drinking water.

It is designed with a large filtration compartment which provides space for filtration, RO treatment, and carbon treatment. In addition, a large 3 gallon internal tank offers storage capacity and ample water on demand. Filtering your tap water means you no longer need to swap out those heavy jugs.

All critical surfaces are coated with an antimicrobial agent while a standard in-line ultraviolet light system destroys waterborne bacteria and viruses. Removable service panels provide fast and easy access to common maintenance areas. Choose between the black office version or the grey in-plant cooler with a specially designed shell to hold up to the tougher factory environment, reducing scratches and making grease and dirt easier to clean up.

Office Water Cooler

- Hot, cold & ambient water
- All electronic dispenser controls
- Durable, metal construction
- 3-stage filtration system
- Ultraviolet light
- Reverse osmosis technology with internal storage tank
- Leak detection with auto shut off
- Antimicrobial coating
- 75 Gallons (280 litres) per day

Ordering Information

Part Number	Description
90-8709U	USA 110V
90-8709E	Europe 220V
90-8709J	Japan 100V
99-0119	Annual Replacement Kit
33-3014	Extra Carbon Filter for Non-RO Installations



Ideal for factory



In-Plant Water Cooler

- Hot, cold & ambient water
- All electronic dispenser controls
- Durable, easy to clean shell
- 3-stage filtration system
- Ultraviolet light
- Reverse osmosis technology with internal storage tank
- Leak detection with auto shut off
- Antimicrobial coating
- 75 Gallons (280 litres) per day

Ordering Information

Part Number	Description
90-8719U	USA 110V
90-8719E	Europe 220V
90-8719J	Japan 100V
99-0119	Annual Replacement Kit
33-3014	Extra Carbon Filter for Non-RO Installations

Office & In-Plant Specifications

Cold - 37-46 F / 2-8 C
Hot - 165-185 F / 74-85 C
Dimensions: 45" x 16" x 16"
1140mm x 410mm x 410mm

Note: Not all installation locations will have a drain nearby which is required for reverse osmosis. If your water quality is safe and meets the Parker Criteria found on page 9 of this brochure, you can replace the RO Membrane by ordering an additional carbon filter which is used to remove tastes and odors from your water. This will make the cooler a carbon only system.

Optional Accessories



Eco-Friendly Reusable Water Bottle (part # 90-8712)

Made from a high quality food grade aluminum; this bottle is perfect at the desk or on the go. This eco-friendly, BPA free water bottle is the perfect size for keeping yourself hydrated while still being easy to carry around with you. With about 90% of all used plastic water bottles ending up in landfills each year, this reusable bottle isn't just great for you, it's also great for the environment!

Specifications

FDA Approved Aluminum
600 ml capacity



TDS & Temperature Meter (part # 99-1994)

Know your Total Dissolved Solids (TDS) and water temperature with this easy to use meter. This will read what quality of water you have coming out from your tap, or to test the performance of your reverse osmosis systems. Designed with a built in magnet for easy storage on a refrigerator or other metal surfaces.

Specifications

6" x 1" / 150mm x 25mm
TDS & Temperature Reading

More than just drinking water...

Industrial and Process Water

Racor – Village Marine (VMT) has put together a series of water filtration systems giving every Parker facility globally the opportunity to enjoy safe and fresh drinking water. This series of watermakers was inspired by the successful history VMT has had with desalination through reverse osmosis. Offering solutions for all varieties of water quality criteria; from nuclear reactors to manufacturing and process water. VMT can help you meet your requirements for water treatment through our catalog or custom solutions. Visit www.villagemarine.com today for more information.



Water Solutions for

- Manufacturing
- Food Processing
- Industrial
- Process
- Ultrapure
- Commercial
- Disaster Relief
- Pleasure Marine
- Commercial Marine
- Land Based &
- Sea Side Resorts
- Oil and Gas
- Defense



Corporate EHS Department

Drinking Water for Employees



Summary: Specifications for employee drinking water quality... enterprise wide.

1. Description:

Employee health and safety is a priority at Parker Hannifin. An element of our program is to provide clean, healthy drinking water to all employees in our workplace. This standard provides the minimum acceptable water quality that all Parker operations worldwide must meet with the drinking water provided to employees and visitors to their locations.

2. Scope:

Enterprise wide operations under Parker Hannifin control which includes manufacturing, warehouse and sales offices.

3. Definitions:

Drinking Water – Water specifically used for employee or visitor consumption at a Parker Hannifin facility or operation. Does not include water used in non-potable applications including but not limited to bathrooms, rest rooms, canteen/eating area sinks, dishwashers, non-contact cooling, outdoor use, manufacturing, contact cooling, fire system. Drinking water includes specific points of use that are designed for consumption which can include point of use (POU) units, water dispensing jugs, bottled water or standard water dispensing fountains or faucets. Water lines dedicated to fountain style drinks, used to make drinks such as lemonade or iced tea, or coffee/hot water dispensing units is considered

drinking water. Faucets dedicated primarily to washing and cleaning are not considered Drinking Water.

Parker Water Quality Criteria – The maximum acceptable amount of specific substances permitted in drinking water.

Constituent	Limit (mg/l)
Aluminum	0.2
Antimony	0.006
Arsenic	0.01
Barium	2
Beryllium	0.004
Cadmium	0.005
Chloride	250
Chromium (total)	0.1
Color	15
Copper	1
Cyanide (as free cyanide)	0.2
Fluoride	2
Iron	0.3
Lead	0.015
Manganese	0.05
Mercury (inorganic)	0.002
Nickel	0.1
pH	6.5 - 8.5
Silver	0.1
Sulfate	250
Total Dissolved Solids	500
Total Trihalomethanes (TTHMs)	0.08
Zinc	5



Point of Use System (POU) –

A Point of Use System is a unit that is designed to process and deliver water for consumption. It can be as simple as a dispensing unit with or without temperature control to a system with treatment modules and control systems.

Approved Point of Use System – An Approved POU System is one in which the following elements of treatment are used in succession prior to consumption;

- Particle Filtration
- Carbon Filtration
- Reverse Osmosis Filtration
- Organic Destruction Application which can be through Activated Oxygen, UV or other equivalent method.

A Parker Hannifin POU System that meets this criteria is available through the Racor Division

Greg Sarpy
gregory.sarpy@parker.com
310-516-9911
Carson, California.

A system that does not meet criteria needs to be certified through the following procedure.

4. Procedure:

- a. All Drinking Water must meet the Water Quality Criteria by end of FY13.
- b. All new facilities will meet the Water Quality Criteria by occupation of the building.
- c. Meeting the Water Quality Criteria can be verified through
 - i. An initial water sample analysis by a lab or
 - ii. Use of Approved POU System
 - iii. Bottled Water that is deionized or certified to be equivalent
 - iv. Water supply certified to meet Water Quality Criteria by vendor/supplier
- d. On Going Verification
 - i. Water Quality Criteria must be verified each time there is a change in supplied water type or brand or if there is a change in POU system.
 - ii. If water sampling was used, a new sample must be checked every five years.
- e. Documentation
 - i. Facilities will maintain documentation of system or water quality for five years.



How to Order

1 Order from a Parker Sales Company

To find a Parker Sales Company near you visit www.parker.com

2 Credit or P-Cards are accepted

Ask for the Inside Sales Team at
Phone number: 310 516 9911
Fax number: 310 538 3048
Email: vmtorders@parker.com

Parker Hannifin Corporation
Racor Division - Village Marine Tec.
2630 E. El Presidio Street
Carson, CA 90810

Frequently Asked Questions

Q What if we already have drinking water filtration systems in our facility?

A It is important to make sure your system is filtering to Parker's drinking water quality standard. If it is not, then please consider Parker supplied systems; they have been designed and manufactured to meet the Parker drinking water quality standard.

Q How was the water criteria determined?

A Parker has reviewed global water standards and created a Parker standard that meets or exceeds standards worldwide to ensure safe water.

Q Can we order using our Parker PCard or a credit card?

A Yes, send your order to vmtorders@parker.com or call 310-516-9911 and ask for Inside Sales.

Q When can we expect to have these delivered?

A Shipping begins December 2012, however you can place your pre-order today.

Q What about purchasing parts or getting technical support, who do we contact?

A Call 1 800 C-Parker or send a note to: gregory.sarpy@parker.com

Q How will we know when it is time to change our filters?

A There is not an exact time because all water quality is different giving each system different intervals. However we recommend every three months to keep your water quality clean and to use www.ServiceReminder.com which will make it easy to keep up with the POU maintenance.

Q Does Racor - Village Marine Tec. offer only drinking water products?

A Parker Racor VMT offers a wide variety of water purification solutions, from drinking water, to lab/testing critical clean water, to watermakers for fresh water, brackish water or sea water. VMT provides reverse osmosis (RO) and other filtration systems that can meet the needs of many water purification applications. Please visit www.villagemarine.com for more information, or call 310-516-9911 and ask for Technical Service.

Q What about those cool reusable drinking water bottles, can I buy them from VMT for our Parker employees?

A Yes, a Parker branded bottle is offered to help reduce plastic water bottle usage, the part number is #90-8712

How to Order

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Frequently Asked Questions

Q Doesn't reverse osmosis waste a lot of water?

A This is relative to what you consider a lot of waste. The reverse osmosis process recovers about a quarter of the water that passes through it, but even then it is more efficient than most dishwashers and other water appliances. Depending on the volume of use; the amount of water sent to the drain is about the same as a few extra toilet flushes a day.

Q Doesn't the reverse osmosis process remove important minerals?

A Reverse osmosis does remove most minerals as there is no way to separate the good from the bad. However most of your mineral intake comes from food, which provides organic, easily absorbed minerals.

Q How long can I expect the reverse osmosis membrane and prefilters to last?

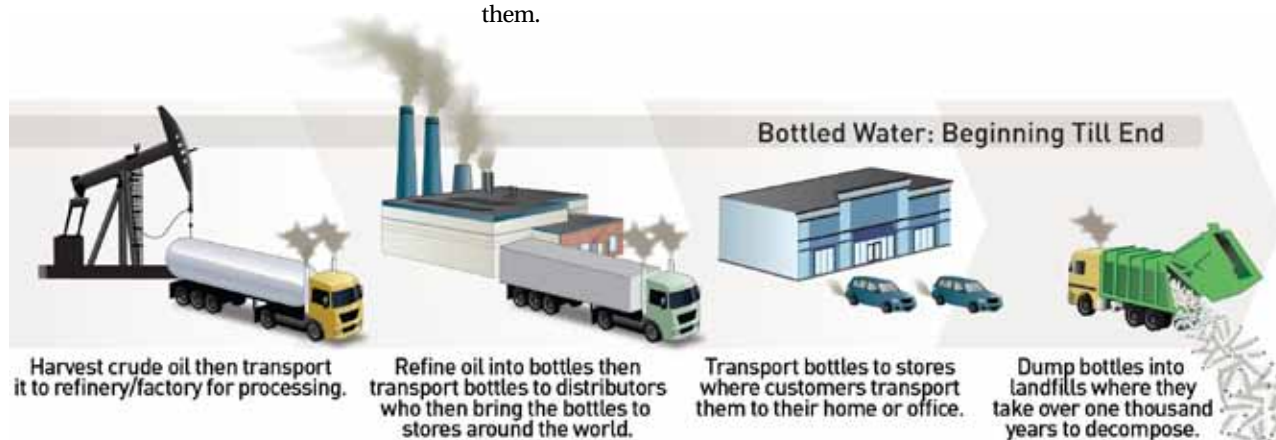
A The typical life of an RO membrane is between 3-5 years, but this can be shorter or longer depending on the quality of water passing through it. The sediment and carbon filter life span is greatly determined by the source water quality and the amount of water used each day.

Q Does Racor - Village Marine Tec. offer installation?

A VMT offers drinking water system solutions and is here to answer any technical question you may have but recommends that you have your maintenance crew or an outside contractor assist with the installation of the units.

Q Does reverse osmosis remove chemicals like chlorine?

A The process of reverse osmosis does not remove chlorine or its byproduct, but a reverse osmosis **system** does by using carbon filtration. Chlorine is very bad for membranes so it's important to remove it all before the water is passed through them.



Plastic water bottles: a disease to our environment

827,000 to 1.3 million tons of plastic PET (Polyethylene terephthalate) water bottles were produced in the U.S. in 2006, requiring the energy equivalent of 50 million barrels of oil. Over 75 percent of these bottles ended up in landfills. It takes about 1,100 to 2,000 times as much energy to produce and transport the average bottle of water to Los Angeles as it does to produce the same amount of tap water. [Source: CleanAir.org]

At Racor - Village Marine our goal is to change the worlds disposable water bottle habits into a combination of eco-friendly reusable bottles and our energy efficient filtration systems.

Starting with Parker's 58,000 employees.

Products and Parts Index Catalog



Under-The-Counter

Key Products

- Under-the-Counter (90-8702)

Replacement Parts

- Annual Filtration Kit (99-0116)
- Sediment Filter (33-3013)
- Carbon Filter (33-3014)
- RO Membrane (33-3015)
- Sanitization Cartridge (33-3016)



Office Water Cooler

Key Products

- Office Water Cooler USA (90-8709U)
- Office Water Cooler Europe (90-8709E)
- Office Water Cooler Japan (90-8709J)

Replacement Parts

- Annual Filtration Kit (99-0119)
- Sediment Filter (33-3013)
- Carbon Filter (33-3014)
- RO Membrane (33-3015)
- Sanitization Cartridge (33-3016)



In-Plant Water Cooler

Key Products

- In-Plant Water Cooler USA (90-8719U)
- In-Plant Water Cooler Europe (90-8719E)
- In-Plant Water Cooler Japan (90-8719J)

Replacement Parts

- Annual Filtration Kit (99-0119)
- Sediment Filter (33-3013)
- Carbon Filter (33-3014)
- RO Membrane (33-3015)
- Sanitization Cartridge (33-3016)



Accessories

Key Products

- Stainless Steel 500ml bottle (90-8712)
- TDS Meter (Magnetic) (99-1994)



Water Softener

Key Products

- Water Softener (90-6070)

Replacement Parts

- Prefilter (33-0052)
- Prefilter Housing (33-0011)
- Hydro-Magnet (90-6070HM)



Large Filter Housing 5" X 20"

Key Products

- Large Housing (33-0095)

Replacement Parts

- 5 Micron filter (33-0057)
- 20 Micron filter (33-0058)
- Carbon filter (33-0083)



Medium Filter Housing 5" X 10"

Key Products

- Medium Housing (33-0011)

Replacement Parts

- 5 Micron filter (33-0052)
- 20 Micron filter: (33-0053)
- Carbon filter (33-0315)



Small Filter Housing 2.5" X 10"

Key Products

- Small Housing (33-1034)

Replacement Parts

- 5 Micron filter (33-0117)
- 20 Micron filter (33-0118)
- Carbon filter (33-0311)

Parker Filtration's Products & Systems



Aerospace

- Filter Vessels (API/IP)
- Fluid Conditioning Monitors (Fuel & Hydraulic)
- Fuel Filter/Water Separators
- Fuel Inerting Systems (OBIGGS)
- Fuel Loading Filters (API/IP)
- Fuel, Hydraulic, & Lubrication Filters
- Nitrogen Tire Inflation Systems



Oil & Gas

- ASME High Flow Vessels
- Compressed Air Filters & Dryers
- Compressed Air Water Separators
- Crankcase Emission Filter Systems
- Engine Fuel Filter/Water Separators
- Engine Oil & Coolant Filters
- Fluid Condition Monitoring Systems
- Membrane & Sterile Air Filters
- Air Intake Filters
- Fuel Dispensing Filters
- Hydraulic Filters
- Hydrocarbon Fluid Filters
- Integrity Test Equipment
- Nitrogen Generators
- Mechanical Separators
- Oil/Water Separators



Food & Beverage

- Carbon Dioxide Purifiers
- Compressed Air Dryers
- Fiber & Membrane Filters
- Nitrogen Generators
- Stainless Steel Filter Housings
- Steam & Sterile Air Filters
- Validation Test Equipment
- Water Chillers
- Water Filters



Power Generation & Renewable Energy

- Air Intake Filters
- ASME High Flow Vessels
- Bioenergy Water Chillers
- Crankcase Emission Filter Systems
- Engine Fuel Filter/Water Separators
- Fluid Condition Monitoring Systems
- Fuel Dispensing Filters
- Load Tap Filters
- Hydrogen Generators
- Magnetic Prefilters
- Nitrogen Generators
- Portable Hydraulic Systems
- Water Sensors



Industrial & Plant Equipment

- ASME Coded Vessels
- Compressed Air Filters
- Condensate Management
- Contamination Monitoring
- Desiccant Dryers
- Membrane Filters & Dryers
- Refrigerated Dryers
- Hydraulic Filters
- Oil/Water Separators
- Process Filters
- Portable Hydraulic Systems



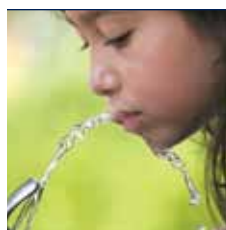
Transportation & Mobile Equipment

- Air Intake Filters
- Alternative Fuel Filters
- ASME High Flow Vessels
- Crankcase Emission Systems
- Fuel Delivery Systems
- Fuel Dispensing Filters
- Fuel Filter/Water Separators
- Multi-stage Filter Systems
- High Pressure Natural Gas Filters
- Nitrogen Tire Inflation Systems
- Suction & Return Line Hydraulic Filters
- Transmission Filters
- Truck & Railway Dryers



Life Sciences

- Breathing Air Filters & Systems
- Chillers
- Compressed Air Filters
- Filter Integrity Analyzers
- Gas Sterilization Filters
- High Purity Gas Filters
- Hydrogen Gas Generators
- Nitrogen TriGas Systems
- Sterile Water Filters
- Syringe Filters



Water Purification

- Desalination & Purification Systems
- Oil Absorption Filters
- Oil/Water Separators
- Pleated Filter Cartridges
- Stainless Steel Prefiltration Vessels
- Sterile Water Filters



Marine

- Air Intake Filters
- ASME High Flow Vessels
- Crankcase Emission Filter Systems
- Fuel Dispensing Filters
- Engine Fuel Filter/Water Separators
- Engine Oil & Coolant Filters
- Gasoline Filters
- Hydraulic Filters
- Hydrocarbon Fluid Filters
- Oil/Water Separators
- Submarine CO₂ Reduction Units
- Water Desalination & Purification Systems



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 1 800 C-Parker (1 800 272 7537).



AEROSPACE

Key Markets

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



CLIMATE CONTROL

Key Markets

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products

- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves



ELECTROMECHANICAL

Key Markets

- Aerospace
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions



FILTRATION

Key Markets

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators



FLUID & GAS HANDLING

Key Markets

- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



HYDRAULICS

Key Markets

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products

- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



PNEUMATICS

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Compact cylinders
- Field bus valve systems
- Grippers
- Guided cylinders
- Manifolds
- Miniature fluidics
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves and controls
- Rodless cylinders
- Rotary actuators
- Tie rod cylinders
- Vacuum generators, cups & sensors



PROCESS CONTROL

Key Markets

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds



SEALING & SHIELDING

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management



Worldwide Filtration Manufacturing Locations

North America

**Compressed Air Treatment
Filtration & Separation/Balston**
Haverhill, MA
978 858 0505
www.parker.com/balston

**Finite Airtek Filtration
Airtek/donnick hunter/Zander**
Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite
Oxford, MI
248 628 6400
www.parker.com/finitefilter

**Engine Filtration &
Water Purification
Racor**
Modesto, CA
209 521 7860
www.parker.com/racor

Racor
Holly Springs, MS
662 252 2656
www.parker.com/racor

Racor
Beaufort, SC
843 846 3200
www.parker.com/racor

Racor – Village Marine Tec.
Carson, CA
310 516 9911
desalination.parker.com

**Hydraulic Filtration
Hydraulic Filter**
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

**Process Filtration
donnick hunter Process Filtration**
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Europe

**Compressed Air Treatment
donnick hunter Filtration & Separation**
Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfn

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfn

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Racor**
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www.parker.com/rfde

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