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Rev. 3/2018





REPCO Valve

2510 Mechanical Control Valve

- 5-cycle control delivers upflow backwash, downflow brining, slow rinse, rapid rinse, brine refill, and downflow service
- Environmental cover, hydraulically-balanced piston, seal and spacer, controls service flow and regeneration
- Mechanical metered or time clock



2510SXT Electronic Control Valve

- 5-cycle control delivers upflow backwash, downflow brining, slow rinse, rapid rinse, brine refill, and downflow service
- Environmental cover, hydraulically-balanced piston, seal and spacer, controls service flow and regeneration
- Large LCD display with 48 hours of internal power backup capacitor
- LCD display alternates between time of day, volume remaining or days to regeneration
- Compact turbine meter for metered units
- Electronic metered or time clock



Valve Body Specifications

- Valve Material Fiber Reinforced Polymer
- Inlet/Outlet 3/4", 1", 1-1/4"
- Cycles: 5

Flow Rates (50 psi Inlet) - Valve Alone

- Continuous (15 psi drop) 19 GPM
- Peak (25 psi drop) 24 GPM
- CV (flow at 1 psi drop) 4.8
- Max. Backwash (25 psi drop) 17 GPM

Regeneration

- Downflow
- Time Available:
 - Electromechanical: 164 Minutes
 - SXT: 0-199 minutes per cycle

Meter Information

- Meter Accuracy Range .25 - 15 GPM +/- 5%
- Meter Capacity Range (gal.)
 - Standard: 125-2,125
 - Extended: 625-10,625
 - SXT: 1-999,900

Dimensions

- Distributor Pilot: 1.05" O.D.
- Drain Line 1/2" O.D.
- Brine Line- 3/8"
- Mounting Base 2-1/2" - 8 NPSM
- Height From Top of Tank: 7.5"

Typical Applications

- Water Softener: 6"-16" Diameters (limited by maximum injector size)
- Filters: 8"-16" Diameter (based on 10 GPM per sq. ft. backwash)

Electrical Rating

- 24 VAC Pentair® transformers:
 - 115 VAC +/- 20% input, 24 VAC output
 - 230 VAC +/- 20% input, 24 VAC output

Additional Information

- Electrical Rating: 24 v, 110 v, 220 v- 50 Hz, 60 Hz
- Estimated shipping weight:
 - Time clock: 7 lbs.
 - Metered valve: 10 lbs.
- Pressure:
 - Hydrostatic: 300 psi
 - Working: 20-125 psi
- Temperature: 34° - 110°F

Options

- Filter or time brine fill softener control valve
- **Airregen™** Filter
- Corrosion-free bypass valve options
- Manual operation
- No hard water bypass
- Auxiliary switches
- Meter delayed or immediate initiated regeneration for electronic control valve

Filter Media



Some of our most commonly used medias.
For other available medias or more information, please contact us.

- **Dowex™** - DOWEX™ cation exchange softener resin is a high capacity resin with excellent kinetics and good physical, chemical and thermal stability. DOWEX™ cation exchange resin is well suited for residential and industrial water softening and demineralization in the co-current mode of regeneration.
- **Neutralite (A)** - One of the advantages of Neutralite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions.
- **Corosex™ Blend (AX)** - Raises pH to correct corrosive water conditions on pH levels of 6.0 or below. Corosex® is generally blended with Neutralite to achieve the desired pH level. Corosex™ high speed of correction allows for high flow, high capacity and less chemical usage.
- **MTM(MTM)** - MTM™ is a granular manganese dioxide filtering media used for reducing iron, manganese and hydrogen sulfide from drinking water. Its active surface coating oxidizes and precipitates soluble iron and manganese. Hydrogen sulfide is oxidized to sulfur. The precipitates are filtered out in the granular bed and removed by backwashing. Use with non-corrosive water.
- **Multi-Media (M)** - A multi-blend of 1/3 Birm, 1/3 Filter-Ag and 1/3 Neutralizer with 20% Corosex
- **Coconut Shell Carbon (CS)** - An outstanding material for applications requiring taste, odor and dissolved organic chemical removal from water with suspended matter present. This product can be used for filtering waters having a wide range of pH levels. Large surface area results in an exceptionally high capacity and efficiency. Balanced pore structure gives a more efficient adsorption range. Coconut Shell Carbon is very durable so losses due to attrition are kept to a minimum. It has a very high carbon-low ash content. Service rates of 5 gpm/sq. ft. are practical for ordinary taste, odor and chlorine loads. Carbon will impart a high "polish" to the filtered water
- **Filter-Ag® (S)** - Its fractured edges and irregular surface provides a high surface area and complex flow path for efficient removal of suspended matter throughout the filter bed, typically reducing suspended solids down to the 20-40 micron range. Filter-Ag's light weight means lower backwash rates and better bed expansion to release trapped sediment and rinse the filter media during the backwash cycle. The combination of particle shape, size and density make it a good choice where quality water filtration and water conservation are important.
- **Filter-Ag Plus® (S+)** - The rough surface and internal porosity provide a high surface area for efficient reduction of suspended matter. Utilizing deep bed filtration can typically reduce suspended solids down to the 5 micron or less range. Filter-Ag Plus' structure typically creates less pressure loss through the filter and allows deeper sediment penetration into the bed for higher sediment loading and longer filter runs. The longer filter run times reduce backwash frequency, which provides conservation of water.
- **Birm® (B)** - Reduces dissolved iron and manganese in raw water supplies with very high efficiency. Birm® possesses a long material life, a wide temperature range, and extremely high removal rates. Use with non-corrosive water. Hydrogen sulfide gas must be oxidized prior to contact with Birm®.



REPCO 5R Water Softener

The REPCO 5R Softener removes hardness, iron and manganese.

Benefits of Having Soft Water:

- Prevention of scale will result in longer lasting plumbing fixtures and appliances including your water heater and dishwasher, lasting up to 1/3 longer
- Water heater efficiency will increase by up to 29%
- Softer hair and skin
- Cleaner, brighter and longer lasting clothes
- Less soap scum buildup in the bathroom and kitchen

Standard Equipment Includes:

- High Capacity Ion Exchange Resin Media
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- 18"x33" Brine Tank
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application.
- All accessories for installing the 5R unit and brine tank
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- A soft sodium or potassium ion is used to remove hard water ions of calcium and magnesium scale, as well as the staining ions of iron and manganese

Application Options:

- 5 ppm removal of iron and manganese (must be in solution)
- Standard 5R units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Metered 5R units are set to regenerate upon water consumption which offers environmental and economical use of sodium or potassium

Required Conditions:

- Total iron and manganese must be less than 5 ppm
- Iron and manganese must be in solution (clear)
- 5R softeners are not filters. If a filter is required, refer to one of many REPCO filters

Dimensions:

Model	A	B	C	D
5R30-2	56	9	48	49.75
5R45-2	62	10	54	55.75
5R60-2	60	12	52	53.75
5R75-2	62	13	54	55.75
5R90-2	73	14	65	66.75
5R120-2	73	16	65	66.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
5R30-2	1	7	2	90
5R45-2	1.5	9	2.4	120
5R60-2	2	14	3.5	160
5R75-2	2.5	18	4	190
5R90-2	3	14-25	4	210
5R120-2	4	14-25	5	260



REPCO 9100 Twin Tank Softener



The REPCO 9100 Twin Tank Softener removes hardness, iron and manganese.

Benefits of Having Soft Water

- The REPCO 9100 provides soft water 24 hours a day
- Prevention of scale will result in longer lasting plumbing fixtures and appliances including your water heater and dishwasher, lasting up to 1/3 longer
- Water heater efficiency will increase by up to 29%
- Softer hair and skin
- Cleaner, brighter and longer lasting clothes
- Less soap scum buildup in the bathroom and kitchen

Standard Equipment Includes

- High Capacity Ion Exchange Resin Media
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- 18"x 33" Brine Tank
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application.
- All accessories for installing the REPCO 9100 unit and brine tank
- Bypass valve and connections sold separately (see page 16)

Removal Process

- A soft sodium or potassium ion is used to remove hard water ions of calcium and magnesium scale, as well as the staining ions of iron and manganese

Application Options

- 5 ppm removal of iron and manganese (must be in solution)
- Metered 9100 units are set to regenerate upon water consumption which offers environmental and economical use of sodium or potassium
- Twin tank system allows for a 24 hour supply of treated water

Required Conditions

- Total iron and manganese must be less than 5 ppm
- Iron and manganese must be in solution (clear)
- REPCO 9100 softeners are not filters. If a filter is required, refer to one of many REPCO filters

Dimensions:

Model	A	B	C	D
5R30-2-9100	56	9	48	49.75
5R45-2-9100	62	10	54	55.75
5R60-2-9100	60	12	52	53.75
5R75-2-9100	62	13	54	55.75
5R90-2-9100	73	14	65	66.75
5R120-2-9100	73	16	65	66.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)
5R30-2-9100	1	7	2.0
5R45-2-9100	1.5	9	2.4
5R60-2-9100	2	14	3.5
5R75-2-9100	2.5	18	4
5R90-2-9100	3	14-25	4
5R120-2-9100	4	14-25	5



Brine tank included (not pictured)



REPCO SQR™ Air Release

Patents 9,701,554 9,290,397

Economical, single-tank REPCO SQR™ units use natural air oxidization plus filter media to treat low to moderate amounts of iron, manganese, and hydrogen sulfide odor. SQR™ units do not require salt, chemicals, or external air injectors. Contaminants in water are first oxidized through a compressed air pocket, then filtered and trapped by the media bed.

Benefits of Having Iron and Odor Free Water:

- Filtering iron will prevent buildup in plumbing fixtures, piping, water heaters and all other appliances, saving you money in the long run
- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories
- No more rotten egg sulfur smell when running the shower or faucet

Application Benefits:

- Eliminates iron, manganese, and hydrogen sulfide gas
- Standard SQR™ units are programmed on a 12-day timer, set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

Removal Process:

- The REPCO SQR™ filter can use a variety of filter medias to filter Hydrogen Sulfide gas (odor), iron and manganese

Dimensions:

Model	A	B	C	D
SQR10R-*	56	9	48	49.75
SQR15R-*	62	10	54	55.75
SQR20R-*	60	12	52	53.75
SQR25R-*	62	13	54	55.75

*Choose Filter Media, May Require Application Engineering

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
SQR10R-*	1	5.0	5.0	100
SQR15R-*	1.5	7.0	5.0	145
SQR20R-*	2	12.0	8.0	190
SQR25R-*	2.5	15.0	10.0	235

*Choose Filter Media, May Require Application Engineering

Standard Equipment Includes:

- Slow, Quiet Air Release
- REPCO SQR™ twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- Poly Glass Mineral Tank
- Full 1" Internal Piping
- Bypass valve and connections sold separately (see page 16)
- Gravel Support Bed
- A variety of medias can be used to remove iron, manganese and hydrogen sulfide gas from your drinking water.

Required Conditions:

- Depending on filter media selection, influent water must be non-corrosive
- A pH of 8.5 or greater is required when manganese concentration is equal to iron concentration.
- A pH of 7.8 is required when manganese concentration is 50% iron concentration.
- A pH of 7.0 is required when manganese concentration is 10% iron concentration.
- Periodic backwashing is required



Every SQR™ comes with a 2.1 Gallon Water Expansion Tank (unless otherwise specified) - 41510



REPCO Airregen™



Patent Pending

Economical, single-tank REPCO **Airregen™** units use natural air oxidization plus filter media to treat low to moderate amounts of iron, manganese, and hydrogen sulfide odor. **Airregen™** units do not require salt, chemicals, or external air injectors. Contaminants in water are first oxidized through a compressed air pocket, then filtered and trapped by the media bed.

Benefits of Having Iron and Odor Free Water:

- Filtering iron will prevent buildup in plumbing fixtures, piping, water heaters and all other appliances, saving you money in the long run
- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories
- No more rotten egg sulfur smell when running the shower or faucet

Application Benefits:

- Eliminates iron, manganese, and hydrogen sulfide gas
- Standard **Airregen™** units are programmed on a 12-day timer, set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

Removal Process:

- The REPCO **Airregen™** filter can use a variety of filter medias to filter Hydrogen Sulfide gas (odor), iron and manganese.

Dimensions:

Model	A	B	C	D
AR10R-*	56	9	48	49.75
AR15R-*	62	10	54	55.75
AR20R-*	60	12	52	53.75
AR25R-*	62	13	54	55.75

*Choose Filter Media, May Require Application Engineering

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
AR10R-*	1	5.0	5.0	100
AR15R-*	1.5	7.0	5.0	145
AR20R-*	2	12.0	8.0	190
AR25R-*	2.5	15.0	10.0	235

*Choose Filter Media, May Require Application Engineering

Standard Equipment Includes:

- REPCO **Airregen™** twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- Poly Glass Mineral Tank
- Full 1" Internal Piping
- Bypass valve and connections sold separately (see page 16)
- Gravel Support Bed
- A variety of medias can be used to remove iron, manganese and hydrogen sulfide gas from your drinking water.
- **Airregen™** Pump, bracket

Required Conditions:

- Depending on filter media selection, influent water must be non-corrosive
- A pH of 8.5 or greater is required when manganese concentration is equal to iron concentration.
- A pH of 7.8 is required when manganese concentration is 50% iron concentration.
- A pH of 7.0 is required when manganese concentration is 10% iron concentration.
- Periodic backwashing is required



Airregen™ Pump will be attached with bracket (image enlarged)



Every **Airregen™** comes with a 2.1 Gallon Water Expansion Tank (unless otherwise specified)- 41510





REPCO RA Acid Neutralizer

The REPCO RA Acid Neutralizer raises pH and alkalinity.

Benefits of pH Balanced Water:

- Eliminates corrosion in the plumbing system, stopping fixture deterioration, pinhole leaks, and blue staining
- Clearer water at the tap
- Prevents costly repairs of plumbing fixtures as well as general maintenance, adding years to the life of your home

Standard Equipment Includes:

- Crushed and screened white marble limestone neutralizing media known as "Neutralite"
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application.
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- Acidic water slowly dissolves the Neutralite media to raise pH and increase alkalinity

Dimensions:

Model	Model	A	B	C	D
10RA	10RA-X	56	9	48	49.75
15RA	15RA-X	62	10	54	55.75
20RA	20RA-X	60	12	52	53.75
25RA	25RA-X	62	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RA	10RA-X	1	5.0	5.0	110
15RA	15RA-X	1.5	7.0	5.0	160
20RA	20RA-X	2	12.0	8.0	210
25RA	25RA-X	2.5	15.0	10.0	260

Application Benefits:

- Neutralite increases alkalinity and raises low pH in the water to correct for acidic conditions
- There is no need for chemicals, eliminating regeneration – only periodic backwashing is required
- RA units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

Required Conditions:

- Works effectively on water having a pH range of 6.0 or greater
- For pH levels lower than 6.0, a blend of Corosex is added for improved performance, signified by an X model number
- The mineral will slowly dissolve and become depleted over time and will need to be replenished
- A slight increase in hardness will result when the RA unit is operating correctly. If this is a problem, then a REPCO water softener should be considered



REPCO Up Flow



The REPCO Up Flow treatment system includes stainless steel bypass and does not require backwashing.

Benefits of Up Flow Neutralizing:

- Eliminates the need for backwashing valve
- Economical way of raising pH
- Acidic water slowly dissolves the Neutralite media to raise pH and increase alkalinity

Benefits of Up Flow Carbon:

- Eliminates the need for backwashing valve
- Economical way of using carbon
- Organic compounds are removed primarily by absorption while residual disinfectants such as chlorine are removed by catalytic reduction, a process involving the attraction of negatively-charged contaminant ions to the positively-charged activated carbon

Standard Equipment Includes:

- 1" Stainless Steel Bypass
- Full 1" Internal Piping
- Upper distributor basket
- Fiberglass Mineral Tank
- Multiple filter medias available*

Required Conditions for Up Flow Neutralizing:

- Works effectively on water having a pH range of 6.0 or greater
- For pH levels lower than 6.0, a blend of Corosex is added for improved performance, signified by an X model number
- The mineral will slowly dissolve and become depleted over time and will need to be replenished
- A slight increase in hardness will result when the RUFA unit is operating correctly. If hardness is a problem, then a REPCO water softener should be considered
- For sediment, iron and manganese, pre-filtration is required

Required Conditions for Up Flow Carbon:

- **Caution!** when used where radon or radionuclides are present, carbon may be a radiation hazard

Left: REPCO Up Flow head

Below: REPCO Up Flow System



Specifications:

Model #	VUF 10-*	VUF 15-*	VUF 20-*	VUF 25-*
Media	Selection per application (See Filter Media Page)			
Tank Size, In.	9x48	10x54	12x52	13x54
Overall Height, In.	52	58	56	58
Inlet Height, In.	50	56	54	56
Pipe Size In/Out	1" FNPT	1" FNPT	1" FNPT	1" FNPT
Peak Flow, GPM	5.0	7.0	12.0	15.0
Service Flow, GPM 3 Minute Contact Time	2.5	3.75	5.0	6.25
Shipping Weight, lbs.	105	155	205	255
Mineral Volume, Ft.3	1	1.5	2	2.5

*Carbon (C) or Acid Neutralizer (A) and other filter medias available.



REPCO R-MTM MTM Filter

The REPCO R-MTM unit uses dissolved oxygen naturally present in your water to oxidize and filter hydrogen sulfide gas (odor), iron and manganese.

Benefits of Having Iron Free Water:

- Filtering iron will prevent buildup in plumbing fixtures, piping, water heaters and all other appliances saving you money in the long run
- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories
- No more rotten egg sulfur smell when running the shower or faucet

Standard Equipment Includes:

- A media called MTM is used for removing iron, manganese and hydrogen sulfide gas from your drinking water
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application.
- Bypass valve and connections sold separately (see page 16)

Dimensions:

Model	A	B	C	D
10R-MTM	56	9	48	49.75
15R-MTM	62	10	54	55.75
20R-MTM	60	12	52	53.75
25R-MTM	62	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

* May Require Application Engineering

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10R-MTM	1	5.0	5.0	100
15R-MTM	1.5	7.0	5.0	145
20R-MTM	2	12.0	8.0	190
25R-MTM	2.5	15.0	10.0	235

Removal Process:

- The REPCO R-MTM filter uses catalytic oxidation to filter hydrogen sulfide gas (odor), iron and manganese

Application Benefits:

- MTM eliminates iron, manganese, and hydrogen sulfide gas
- Standard R-MTM units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

Required Conditions:

- Influent water must not be corrosive
- For corrosive conditions see REPCO RA models or use RM models
- Influent water must have a D.O. content equal to at least 15% of the iron content with a pH of 6.8 or greater
- If dissolved oxygen is not present consider the use of aeration
- Applications for manganese up to 10% of the total iron, must have a pH greater than 7.0*
- A pH of 8.5 or greater is required for any manganese : iron ratio
- Periodic backwash is required, no regeneration needed



REPCO RM Multi-Media Filter



The REPCO RM unit uses a multi-media blend to correct for iron, manganese, low pH, and turbidity.

Benefits of Problem Free Water:

- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories
- Correcting low pH will prevent corrosion of your water system and accessories
- Filtering out turbidity problems will result in clearer, cleaner drinking water
- Multi-media filters save the expense of extra equipment by using a combination of minerals in one filter to remove these problems

Standard Equipment Includes:

- A mixed media composed of Neutralite, Birm, Corosex and Filter-Ag
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- The Repco RBM filter media is a catalyst to enhance the reaction between dissolved oxygen (D.O.) and the iron and manganese compounds for filtration as well as correct pH and filter turbidity

Dimensions:

Model	A	B	C	D
10RM	56	9	48	49.75
15RM	62	10	54	55.75
20RM	60	12	52	53.75
25RM	62	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

* May Require Application Engineering

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RM	1	5.0	5.0	85
15RM	1.5	7.0	5.0	110
20RM	2	12.0	8.0	135
25RM	2.5	15.0	10.0	160

Application Benefits

- Raises pH, filters iron and manganese as well as corrects for turbidity problems
- No need for caustic chemical regeneration
- Standard RM units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice.
- Filters down to 20-40 micron

Required Conditions:

- Influent water must contain no hydrogen sulfide gas
- For water containing hydrogen sulfide gas, see Repco Model R-MTM or Repco **Airregen™**
- Influent water must have a D.O. content equal to at least 15% of the iron content with a pH of 6.0 or greater
- If dissolved oxygen is not present consider the use of aeration
- Applications for manganese alone must have a pH of 8.5 or greater
- Periodic backwash is required, no regeneration needed





REPCO RI-FA Iron Filter

The REPCO RI-FA unit oxidizes and filters hydrogen sulfide gas (odor), iron and manganese.

Benefits of Iron / Odor Free Water:

- Filtering iron will prevent buildup in plumbing fixtures, piping, water heaters and all other appliances saving you money in the long run
- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories
- No more rotten egg sulfur smell when running the shower or faucet

Standard Equipment Includes:

- A media called MTM media is used for removing soluble iron, manganese and hydrogen sulfide gas from well water
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- 10"x16" blue pot perm tank
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- All accessories for installing the RIFA unit and pot perm tank
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- The REPCO RIFA filter oxidizes and filters hydrogen sulfide gas (odor), iron and manganese by using a potassium permanganate solution to regenerate the MTM media with oxygen

Application Benefits:

- MTM media eliminates iron, manganese, and hydrogen sulfide gas
- Standard RIFA units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

Required Conditions:

- Influent water must not be corrosive
- For corrosive conditions, see REPCO RA models
- Cubic foot capacities at 1ppm:
Iron alone 10,000 gallons
Iron and Manganese 7,000 gallons
Hydrogen Sulfide Gas 3,000 gallons
- Batch regenerate before total exhaustion with 2-4 oz. of Pot Perm per cubic foot of media

Dimensions:

Model	A	B	C	D
10RI-FA	56	9	48	49.75
15RI-FA	62	10	54	55.75
20RI-FA	60	12	52	53.75
25RI-FA	62	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RI-FA	1	5.0	5.0	110
15RI-FA	1.5	7.0	5.0	160
20RI-FA	2	12.0	8.0	210
25RI-FA	2.5	15.0	10.0	260



REPCO RCS Coconut Shell Carbon



The REPCO RCS Coconut Shell Carbon Filter removes bad taste, chlorine, odor and V.O.C.'s.

Benefits of Carbon Filtration:

- Carbon filtration effectively reduces the objectionable taste and odors of chlorine while adding nothing to your water
- Effective removal of volatile organic compounds (VOC's), including methane, industrial solvents, petroleum and MTBE
- Coconut shell carbon is considered a renewable resource and is far more environmentally friendly compared to Bituminous Coal carbon which is not a renewable resource
- CO₂ produced by the manufacturing process is removed by the coconut trees making it environmentally sustainable

Standard Equipment Includes:

- High performance Coconut Shell activated carbon media
- Other Carbon options available*
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application.
- Bypass valve and connections sold separately (see page 16)

Dimensions:

Model	A	B	C	D
10RCS	56	9	48	49.75
15RCS	62	10	54	55.75
20RCS	60	12	52	53.75
25RCS	62	13	54	55.75

A= Overall height in inches
 B= Tank diameter in inches
 C= Tank height in inches
 D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)
 * May Require Application Engineering

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RCS	1	5.0	5.0	100
15RCS	1.5	7.0	5.0	145
20RCS	2	12.0	8.0	190
25RCS	2.5	15.0	10.0	235

Removal Process:

- Organic compounds are removed primarily by absorption while residual disinfectants such as chlorine are removed by catalytic reduction, a process involving the attraction of negatively-charged contaminant ions to the positively-charged activated carbon*

Application Benefits:

- Well suited for chlorine removal treatment in public water supplies.
- Standard RC units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Metered RC units are set to regenerate upon water consumption which offers environmental and economic use of the bed life and backwash water Filters down to 20 – 40 micron

Required Conditions:

- Backwash at 10 GPM per ft2
- **Caution!** when used where radon or radio nuclides are present, carbon may be a radiation hazard





REPCO RS Sediment Filter

The REPCO RS unit uses special filtering media to curb sediment.

Benefits of Sediment Free Water:

- Free pipes and plumbing fixtures from clogging and buildup
- Less filter cartridges to change, saving you money in the long run
- Longer life of all water using appliances and fixtures

Standard Equipment Includes:

- A light grey media called Filter-Ag or Filter-Ag Plus are used for filtering sediment from your water
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- The REPCO RS Filter-Ag and RSP Filter-Ag Plus filter media granules have irregular surface characteristics affording maximum removal of suspended matter throughout the filter media bed

Dimensions:

Model	A	B	C	D
10RS/10RS+	55	9	48	49.75
15RS/15RS+	61	10	54	55.75
20RS/20RS+	59	12	52	53.75
25RS/25RS+	61	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

* May Require Application Engineering

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RS/10RS+	1	5.0 / 9.0	5.0 / 7.0	40 / 65
15RS/15RS+	1.5	7.0 / 10.0	5.0 / 8.0	55 / 90
20RS/20RS+	2	12.0 / 15.0	8.0 / 12.0	70 / 115
25RS/25RS+	2.5	15.0 / 18.0	10.0 / 15.0	85 / 140

Application Benefits:

- Filter-Ag and Filter-Ag Plus remove sediment and suspended matter in your water
- Less pressure loss as compared to other filtering medias
- High service flow rates offer lower equipment costs and savings in space
- High capacity media does not need to be backwashed as often, also resulting in water and energy savings
- Replacement of sand filtering media with Filter-Ag media will typically increase efficiency by as much as 100% or more
- Standard RS and RS+ units are programmed on a 12-day timer, and are set to backwash on the day and time of your choice
- Filter-Ag can filter down to 20 – 40 micron
- Filter-Ag Plus can filter down to 5 micron

Required Conditions:

- Backwash flow rates:
 - REPCO RS: 8-10 GPM/ft.2*
 - REPCO RS+: 15-20 GPM/ft.2*
- Bed Depth of 24-36 inches
- Backwash expansion of 35-50% of bed depth
- Service flow rates:
 - REPCO RS: 5 GPM/ft.2*
 - REPCO RS+: 12-20 GPM/ft.2*



REPCO RB Birm[®] Filter



The REPCO RB unit uses dissolved oxygen naturally present in your water to oxidize and filter iron and manganese.

Benefits of Having Iron Free Water:

- Filtering iron will prevent buildup in plumbing fixtures, piping, water heaters and all other appliances saving you money in the long run
- Filtering iron and manganese will prevent reddish brown or black staining in the bathroom and kitchen accessories

Standard Equipment Includes:

- A black media called Birm[™] is used for removing iron and manganese from your drinking water
- Fiberglass Mineral Tank
- Full 1" Internal Piping
- Twin motor automatic backwashing control valve, capable of being custom tailored to your specific application
- Bypass valve and connections sold separately (see page 16)

Removal Process:

- The REPCO RB filter media acts as an insoluble catalyst to enhance the reaction between dissolved oxygen (D.O.) and the iron and manganese compounds

Dimensions:

Model	A	B	C	D
10RB	56	9	48	49.75
15RB	62	10	54	55.75
20RB	60	12	52	53.75
25RB	62	13	54	55.75

A= Overall height in inches

B= Tank diameter in inches

C= Tank height in inches

D= Inlet height in inches (specify 0.75" or 1" Bypass, or 1.25" Yoke)

* May Require Application Engineering

Specifications:

Model	Mineral Volume (Ft.3)	Peak Flow (GPM)	Backwash Rate (GPM)	Shipping Weight (Lbs)
10RB	1	5.0	5.0	60
15RB	1.5	7.0	5.0	85
20RB	2	12.0	8.0	110
25RB	2.5	15.0	12.0	135

Application Benefits:

- Birm[™] eliminates iron and manganese
- Birm[™] possesses a long material life, a wide temperature range, and extremely high removal rates
- No need for caustic chemical regeneration
- Standard RB units are programmed on a 12-day timer, and are set to regenerate on the day and time of your choice
- Filters down to 20 – 40 micron

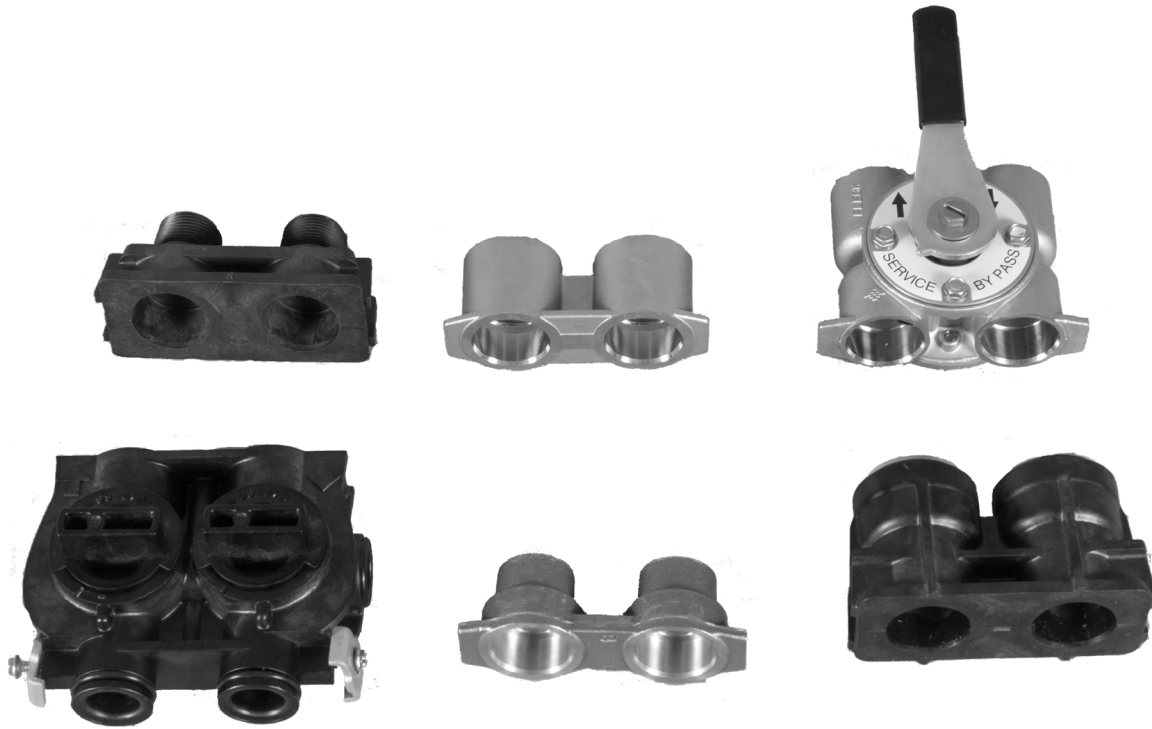
Required Conditions:

- Influent water must not be corrosive
- For corrosive conditions, see REPCO model RM
- Influent water must contain no hydrogen sulfide gas
- See REPCO model **Airregen[™]**, **Revolution[™]**, or **Quantum[™]** for water containing hydrogen sulfide gas*
- Influent water must have a D.O. content equal to at least 15% of the iron content with a pH of 6.8 or greater
- If dissolved oxygen is not present consider the use of aeration
- Applications for manganese removal should have a pH of 8.5 or greater*
- Periodic backwash is required, no regeneration needed





Bypass and Bypass Connections



Bypasses and Yokes (Clockwise):

- 3/4", 1": MNPT Plastic Yokes
- 3/4", 1", 1-1/4": FNPT stainless steel and brass yokes
- 3/4", 1": stainless steel bypass (1" standard)
- 3/4", 1": Shark Bite
- 3/4", 1": Copper Brass Yokes
- Plastic Bypass Valve (use with yokes)