



REACTR™ Treatment Systems

With "WS" Series Control Valves



REACTR™-Blend is the media used on the listed standard models. *REACTR™-Blend* is a proportioned mix of three proven filter medias that provide a spectrum of filtering capabilities for a wide range of water problems.

Our **REACTR™ Treatment System** incorporates aeration technology that efficiently mixes ambient air with water under pressure to convert iron, manganese and hydrogen sulfide gas to filterable particles. The **REACTR™** eliminates the associated stains, taste and odor while eliminating sediment problems and neutralizing low pH on influent water. Only the highest quality controls and materials are used. Our motor-driven piston control valve is the most reliable under even severe water conditions and resists common adversaries such as dirt, iron and turbidity. Designed for use in commercial, industrial or domestic water applications.

As we remain **Committed to Innovation, Chandler Systems** provides the design and engineering support to ensure the most effective treatment solution for each installation. For a stand-alone installation or a new construction project, replace or integrate new equipment into an existing process, we have the proper system options available to meet your needs.



Chandler Systems

710 Orange Street, Ashland, OH 44805

Toll Free: 1-888-363-9434 Phone: 419-281-6829 Fax: 419-281-2375 www.csih2o.com

Standard Features

- Catalog Systems to 200 gpm
- Aeration via Ambient Air – NO CHEMICALS
- Closed Pressure and Atmospheric Systems
- Maximum Operating Pressure – 125 psi/110° F
- Clack™ Control Valves
- Aeration Manifold Assembly Machined from Solid PVC Barstock
- Automatic Self-Regulating Air Volume Control
- REACTR™-Blend Filter Media *
- No Raw Water Bypass
- Electronic Control Valves

Options

- Clean Water Backwash
- 2750, 2850, or 3150 Top-mount Control Valves
- Multiple Aeration Tank Sizes
- Chemical Injection Ports on Aeration Manifold
- Forced Air Injection for Variable Speed Well Pump Systems
- Side-mount Control Valves
- Flow Management with Motorized Ball Valves or Staged
- Diaphragm Valves
- Water Quality Monitor Initiated Regeneration
- Custom Designed Systems
- Various Filter Medias as alternate to Multi-Blend
- Steel and ASME Rated Pressure Vessels

Typical Use:

- Large Scale Irrigation
- Public Water Systems
- Dairy Operations
- Industrial Pre-treatment
- Hotels/Motels
- Apartments/Condos
- Nursing Home/ Assisted Living
- Laundry Facilities
- Food/Beverage Mfg.
- Livestock Operations
- Schools
- Hospitals

Product Specifications

Commercial REACTR™ Treatment System

MODEL NUMBERS		Service GPM		Backwash	Pipe Size NPT		Filter Tank		Cu.Ft. Media
PRESSURE SYSTEMS	VARIABLE SPEED SYSTEMS	Continuous Flow Rate	Peak Flow Rate	Flow GPM	Ctrl Valve Conn Size	Drain Line	Tank Size	Tank Qty	Per System
CRF25-102-WS	CRF25-102VS-WS	9	14	7	1"	3/4"	13"x 54"	2	5
CRF40-102-WS	CRF40-102VS-WS	14	20	12	1"	1"	16"x 65"	2	8
CRF50-102-WS	CRF50-102VS-WS	18	22	15	1"	1"	18"x 65"	2	10
CRF70-102-WS	CRF70-102VS-WS	24		20	1"	1"	21"x 62"	2	14
CRF50-103-WS	CRF50-103VS-WS	27	30	15	1"	1"	18"x 65"	3	15
CRF70-103-WS	CRF70-103VS-WS	36		20	1"	1"	21"x 62"	3	21
CRF100-153-WS	CRF100-153VS-WS	45		30	1 1/4"	1 1/4"	24"x 72"	3	30
CRF140-152-WS	CRF140-152VS-WS	50		45	1 1/2"	1 1/2"	30"x 72"	2	28
CRF100-154-WS	CRF100-154VS-WS	60		30	1 1/4"	1 1/4"	24"x 72"	4	40
CRF180-202-WS	CRF180-202VS-WS	70		65	2"	2"	36"x 72"	2	36
CRF140-153-WS	CRF140-153VS-WS	75		45	1 1/2"	1 1/2"	30"x 72"	3	42
CRF240-202-WSH	CRF240-202VS-WSH	100		90	2"	2"	42"x 72"	2	48
CRF140-154-WS	CRF140-154VS-WS	100		45	1 1/2"	1 1/2"	30"x 72"	4	56
CRF180-203-WS	CRF180-203VS-WS	105		65	2"	2"	36"x 72"	3	54
CRF140-155-WS	CRF140-155VS-WS	125		45	1 1/2"	1 1/2"	30"x 72"	5	70
CRF180-204-WS	CRF180-204VS-WS	140		65	2"	2"	36"x 72"	4	72
CRF240-203-WSH	CRF240-203VS-WSH	150		90	2"	2"	42"x 72"	3	72
CRF180-205-WS	CRF180-205VS-WS	175		65	2"	2"	36"x 72"	5	90
CRF240-204-WSH	CRF240-204VS-WSH	200		90	2"	2"	42"x 72"	4	96

Manganese Removal

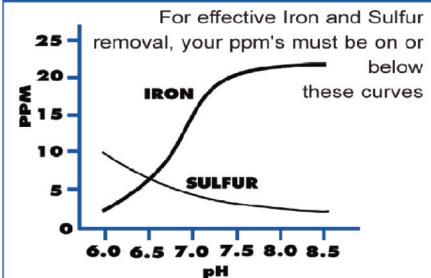
REACTR™ capability to remove Manganese from water is critically dependent on the Iron and pH levels as shown below:

If the Iron to Manganese ratio is: Then the pH must be at least:

10:1	7.0
5:1	7.8
1:1	8.3
0:1	8.5

- Additional equipment is required for water containing organic and/or bacteria versions
- For "Pressure System" models, at rated GPM, the inlet PSI at the Reactr Tank must be at least 25 PSI higher than max PSI at service. If supply pump cannot achieve this pressure, then use "Variable Speed Systems"
- If needed, pH can be increased by injecting soda ash or caustic into the Reactr Tank Manifold
- Periodic replenishing of the Neutralizer in the filter tanks will be required for water less than 7.0 pH (normally 6 to 12 months, depending on influent pH)

Iron and Sulfur Removal



Operating Information

For use on Potable Water Only
Do not use on microbiologically unsafe or unknown quality water
Installation must comply with state and local plumbing/electrical codes
Tank warranty void if subject to vacuum

Water Temperature Range
Ambient Air Temperature Range
Operating Pressure Range
Electronic Requirements

35° – 110°F
35° – 110°F
20 – 125 psi
110v/60Hz

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