

REACTR™ Treatment System



With 2750, 2850, 3150 Series Control Valves



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
- Top-mount Control Valves
- Aeration Manifold Assembly Machined from Solid PVC Barstock
- Automatic Self-Regulating Air Volume Control
- REACTR™ Blend Filter Media*
- No Raw Water Bypass

Options

- Clean Water Backwash
- Clack™ 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 REACTR™ Blend
- Steel and ASME Rated Pressure Vessels
- Electronic Control Valves

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

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**, **CSI** 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.

*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.



CSI WATER TREATMENT SYSTEMS – Commercial Division
710 Orange Street, Ashland Ohio USA 44805
Toll-Free 1-888-363-9434 • Phone 419-281-6829 • Fax 419-281-2375
www.csih2o.com

Product Specifications

Commercial REACTR™ Treatment System

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

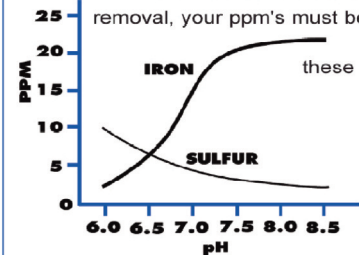
If the Iron to Manganese ratio is: Then the pH must be at least:

5:1	7.0
1:1	7.8
0:1	8.3

- 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

For effective Iron and Sulfur removal, your ppm's must be on or below these curves



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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