

# DROP

## Commercial Catalog 2024

### Common Commercial Applications

- Healthcare Facilities
- Hotels
- Schools
- Restaurants
- Manufacturing Plants
- Laboratories
- Breweries
- Dairy Farms
- Large Homes
- Car Washes



 CHANDLER SYSTEMS

220 Ohio Street  
Ashland, OH 44805

1.833.289.3767  
dropconnect.com

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# Table of Contents

Commercial Project Data Form.....	3
SimPlex Water Softener.....	4
ProPlex Water Softener.....	6
DROPKick Treatment System.....	10
Water Filter - Automatic.....	12
ReactR™ Treatment System.....	14
HydroxR™ Treatment System.....	16
Commercial Protection System.....	18
Auxiliary Relay Box (Aux Box).....	19
Control Valves .....	20
Repair Parts & Accessories.....	22
Warranty.....	23

As we remain COMMITTED TO INNOVATION, DROP by 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 a into an existing process, we have the proper systems options available meet your needs.

Our catalog offers a sampling of the Commercial items we have available. For a special application, including arsenic treatment, please contact the factory.

# Project Data Form



Fill in a copy. Email or FAX it to us and we will quote equipment. If your water quality is unknown, then fill in everything you can and send it to us, along with a raw water sample (at least 8 oz). Water samples can also be submitted using our water test site. Use the following URL, watertest.site, or scan the QR code on this page.



<h1>DROP</h1>		<b>COMMERCIAL PROJECT DATA FORM</b>	Job Name: _____ _____ Date: _____
<b>Distributor</b>	Company	<b>Raw Water</b>	
	Address		
	City, State		<b>GPM</b>
	Contact		<b>PSI</b>
	Phone/FAX		<b>Pipe Size</b>
	E-mail		Hardness - gpg
<b>Dealer/Contractor</b>	Company		pH
	Address		Iron - ppm
	City, State		Manganese - ppm
	Contact		Tannin - ppm
	Phone/FAX		Sodium Salts - ppm
	E-mail		TDS - ppm
<b>Engineer</b>	Company	Turbidity - NTU	
	Address	Color - units	
	City, State	Suspended Matter	
	Contact	Iron Bacteria	
	Phone/FAX	Odor	
	E-mail	Sulfur - ppm	
<b>Health Dept./EPA</b>	Name	Other	
	Address		
	City, State		
	Contact		
	Phone/FAX		
	E-mail		
<b>Sales Rep.</b>	Company	<b>Does water have "rotten egg" odor at job site?</b>	
	Contact	<input type="checkbox"/> N <input type="checkbox"/> Y -If so, then perform Sulfur test at job site, & write-in results above.	
	Phone/FAX	<b>TREATED WATER REQUIREMENTS:</b>	
	E-mail	GPM <input type="text"/> PSI <input type="text"/> Gal/Day <input type="text"/>	
<b>Pump Type supplying raw water (if applicable):</b>		Treat for: _____	
<input type="checkbox"/> Traditional Submersible Pump (3450 RPM motor)		<b>WATER SYSTEM LAYOUT:</b>	
<input type="checkbox"/> Variable-Speed Submersible Pump		<input type="checkbox"/> Well/Pump - Pressure Tank - TREATMENT - Service	
<input type="checkbox"/> Jet or Centrifugal Pump		<input type="checkbox"/> Well/Pump - TREATMENT - Atmos Tank - Boost Pump - Pressure Tank - Service	
		<input type="checkbox"/> From City/Community System - TREATMENT - Service	
		<input type="checkbox"/> Well/Pump - TREATMENT - Pressure (or Elevated) Tank - Service	
		If above is checked, will there be any check valves between TREATMENT location & Pressure (or Elevated) Tank? <input type="checkbox"/> Yes <input type="checkbox"/> No	

# SimPlex – Water Softener

## Standard Features

- DROP Control Valves thru 2" – Flow Rates 70+ gpm
- Up to 600,000 Grain Tank Capacity per Tank
- Maximum Operating Pressure-125 psi /110°F
- Bypass – Connects direct to each standard 1-1/4" DROP Valve and simplifies installation
- Integrated Flow Meter
- Automatic Shut-off Position Protects Against Water Damage when a Leak is Detected
- Premium Cation Resin – 30K grains/cu.ft.
- Hard Water Bypass
- Brine Tank – HDPE material, Salt Grid Plate or Gravel Underbed, Safety Brine Valve (30" & smaller diameter), Air Check and Overflow

## Options

- Sourced Water Backwash
- No Hard Water Bypass
- Custom-designed systems
- Alternate Resins Available



Automatically reduce hardness (calcium/magnesium) and dissolved iron/manganese along with their unpleasant side-effects. Only the highest quality resin, controls and materials are used in DROP Commercial Water Softeners. Our motor-driven piston control valve is the most reliable under even severe water conditions and resists common adversaries such as hardness and iron. Meanwhile, our hub and lateral style distribution systems within the corrosion resistant tanks maximize flow while reducing pressure loss through the units. Designed for use in commercial, industrial, or domestic water applications.

## Operating Information

For use on Potable Water Only Water

Do not use on microbiologically unsafe or unknown quality water

Installation must comply with state and local plumbing/electrical codes 120v/12vac (10WS-20WS), 20vac (20WSH-30WS) CUL/UL listed transformer included with electronic meter systems Tank warranty void if subject to vacuum. Low flow channeling – less than 1 gpm/cu. ft. resin – may cause hardness leakage

Influent Chlorine 1 ppm max.

Water Temperature Range	35° – 110°F
Ambient Air Temperature Range	35° – 120°F
Operating Pressure Range	20 – 125 psi
Electronic Requirements	110v/60Hz
Influent Turbidity	5 NTU
Iron/Manganese	< 5 ppm

Model No.	GPM Flow Rates			Back-wash	Pipe Size NPT		Grains Exch Cap @ LBS Salt Maximum Minimum	Resin Tank Cu.Ft. Resin		Brine Tank Salt Capacity		Overall Height					
	Service 15 PSI Loss	8 PSI Loss	Peak 25 PSI Loss		Service	Drain		Tank Size		Tank Size	LBS.						
CSD60-12	23	17	29	4	1 1/4"	1"	60,000 @ 30# 40,000 @ 12#	14" x 65"	2	18" x 40"	300	74"					
CSD60-12N	22	16	28	4													
CSD60-15	28	21	36	4	1 1/2"	1"											
CSD60-15N	27	20	34	4													
CSD60-20	35	26	46	4	2"	1 1/2"						75"					
CSD60-20N	34	25	44	4													
CSD75-12	21	16	28	3.2	1 1/4"	1"	75,000 @ 37.5# 50,000 @ 15#	13" x 54"	3	18" x 40"	300	62"					
CSD75-12N	20	15	26	3.2													
CSD90-12	21	16	28	4	1 1/4"	1"	90,000 @ 45# 60,000 @ 18#	14" x 65"	3	18" x 40"	300	74"					
CSD90-12N	20	15	26	4													
CSD90-15	27	20	35	4	1 1/2"								1"				
CSD90-15N	26	19	33	4													
CSD90-20	34	25	44	4	2"	1 1/2"						75"					
CSD90-20N	33	24	43	4													
CSD120-12	22	16	29	5	1 1/4"	1"	120,000 @ 60# 80,000 @ 24#	16" x 65"	4	24" x 50"	700	74"					
CSD120-12N	21	15	27	5													
CSD120-15	30	22	38	5	1 1/2"								1"				
CSD120-15N	28	20	36	5													
CSD120-20	39	28	50	5	2"	1 1/2"						75"					
CSD120-20N	37	27	48	5													
CSD150-12	24	17	30	8	1 1/4"	1"	150,000 @ 75# 100,000 @ 30#	18" x 65"	5	24" x 50"	700	76"					
CSD150-12N	22	16	29	8													
CSD150-15	31	23	40	8	1 1/2"								1"				
CSD150-15N	29	21	38	8													
CSD150-20	42	31	54	8	2"	1 1/2"						77"					
CSD150-20N	40	29	51	8													
CSD210-12	24	17	30	10	1 1/4"	1"	210,000 @ 105# 140,000 @ 42#	21" x 62"	7	24" x 50"	700	76"					
CSD210-12N	22	16	29	10													
CSD210-15	33	24	42	10	1 1/2"								1"				
CSD210-15N	31	22	40	10													
CSD210-20	48	35	62	10	2"	1 1/2"						77"					
CSD210-20N	45	33	58	10													
CSD300-15	34	25	44	12	1 1/2"	1"	300,000 @ 150# 200,000 @ 60#	24" x 72"	10	30" x 50"	1,000	82"					
CSD300-15N	31	23	40	12													
CSD300-20	50	37	65	12	2"								1 1/2"	83"			
CSD300-20N	47	34	60	12													
CSD450-20	53	39	69	20	2"	1 1/2"						450,000 @ 225# 300,000 @ 90#	30" x 72"	15	30" x 50"	1,000	86"
CSD450-20N	49	36	64	20													
CSD600-20	55	40	72	32	2"	1 1/2"	600,000 @ 300# 400,000 @ 120#	36" x 72"	20	42" x 60"	2,900	99"					
CSD600-20N	51	37	66	32													

# ProPlex – Water Softener

## Standard Features

- DROP Control Valves thru 2" – Service Flow Rates over 500 gpm
- Up to 600,000 Grain Tank Capacity per Tank
- Maximum Operating Pressure-125 psi /110°F
- Bypass – Connects direct to each standard 1" and 1-1/4" DROP Valve and simplifies installation
- Integrated Flow Meter
- Electronic Meter Regeneration – Immediate; Only One at a Time, Allowing Treated Water 24 x 7
- Automatic Shut-off Position Protects Against Water Damage when a Leak is Detected
- Premium Cation Resin – 30K grains/cu.ft.
- No Hard Water Bypass
- Brine Tank – HDPE material, Salt Grid Plate or Gravel Underbed, Safety Brine Valve (30" & smaller diameter), Air Check and Overflow

## Options

- Sourced Water Backwash
- Custom-designed systems
- Alternate Resins Available
- System can be expanded up to 12 tanks



Automatically reduce hardness (calcium/magnesium) and dissolved iron/manganese along with their unpleasant side-effects. Only the highest quality resin, controls and materials are used in DROP Commercial Water Softeners. Our motor-driven piston control valve is the most reliable under even severe water conditions and resists common adversaries such as hardness and iron. Meanwhile, our hub and lateral style distribution systems within the corrosion resistant tanks maximize flow while reducing pressure loss through the units. Designed for use in commercial, industrial, or domestic water applications.

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Installation must comply with state and local plumbing/electrical codes 120v/12vac (10WS-20WS), 20vac (20WSH-30WS) CUL/UL listed transformer included with electronic meter systems. Tank warranty void if subject to vacuum. Low flow channeling – less than 1 gpm/cu. ft. resin – may cause hardness leakage

Influent Chlorine 1 ppm max.

Water Temperature Range	35° – 110°F
Ambient Air Temperature Range	35° – 120°F
Operating Pressure Range	20 – 125 psi
Electronic Requirements	110v/60Hz
Influent Turbidity	5 NTU
Iron/Manganese	< 5 ppm

Can operate with all tanks in service together (unless one is regenerating). During periods of low flow, tank(s) automatically drop-out, which prevents channeling. When demand increases, tank(s) are AUTOMATICALLY placed back into service. Immediate regeneration - The DROP Hub allows only one tank to regenerate at a time. Each tank can regenerate multiple times per day.

Model No.	GPM Flow Rates (assumes one tank offline regenerating)				Pipe Size NPT		Grains Exch Cap @ LBS Salt	Resin Tank Cu.Ft. Resin (Per Tank)			Brine Tank Salt Capacity LBS Per Tank			Overall Height
	Service		Peak 25 PSI Loss	Back- wash	Service	Drain		Maximum Minimum	Tank Size	QTY	Tank Size	QTY		
	15 PSI Loss	8 PSI Loss												
CSD30-102	12	8.4	16	2.4	1"	1/2"	30,000 @ 15#	10" X 54"	1	2	18" X 40"	300	2	63"
CSD30-103	24	17	32	2.4						3	18" X 40"	300	3	
CSD30-104	36	26	48	2.4						4	18" X 40"	300	4	
CSD30-122	19	14	25	2.4	1-1/4"	1"	20,000 @ 6#	10" X 54"	1	2	18" X 40"	300	2	61"
CSD30-123	38	28	50	2.4						3	18" X 40"	300	3	
CSD30-124	57	42	75	2.4						4	18" X 40"	300	4	
CSD45-102	11	7.5	15	2.4	1"	1/2"	45,000 @ 22.5#	10" X 54"	1.5	2	18" X 40"	300	2	63"
CSD45-103	22	15	30	2.4						3	18" X 40"	300	3	
CSD45-104	33	22.5	45	2.4						4	18" X 40"	300	4	
CSD45-122	17	12	22	2.4	1-1/4"	1"	30,000 @ 9#	10" X 54"	1.5	2	18" X 40"	300	2	61"
CSD45-123	34	24	44	2.4						3	18" X 40"	300	3	
CSD45-124	51	36	66	2.4						4	18" X 40"	300	4	
CSD58-122	19	14	25	3.2	1-1/4"	1"	60,000 @ 30#	12"x48"	2	2	18" X 40"	300	2	55"
CSD58-123	38	28	50	3.2						3	18" X 40"	300	3	
CSD58-124	57	42	75	3.2						4	18" X 40"	300	4	
CSD58-125	76	56	100	3.2	1-1/2"	1"	40,000 @ 12#	14" X 65"	2	5	18" X 40"	300	5	74"
CSD58-126	95	70	125	3.2						6	18" X 40"	300	6	
CSD60-102	14	10	19	4						1"	1/2"	60,000 @ 30#	14" X 65"	
CSD60-103	28	20	38	4	3	18" X 40"	301	3						
CSD60-104	42	30	57	4	4	18" X 40"	300	4						
CSD60-122	22	16	28	4	1-1/4"	1"	40,000 @ 12#	14" X 65"	2	2	18" X 40"	300	2	74"
CSD60-123	44	32	56	4						3	18" X 40"	300	3	
CSD60-124	66	48	84	4						4	18" X 40"	300	4	
CSD60-152	27	20	34	4	1-1/2"	1"	60,000 @ 30#	14" X 65"	2	2	18" X 40"	300	2	74"
CSD60-153	54	40	68	4						3	18" X 40"	700	3	
CSD60-154	81	60	102	4						4	18" X 40"	300	4	
CSD60-202	34	25	44	4	2"	1-1/2"	60,000 @ 30#	14" X 65"	2	2	18" X 40"	300	2	75"
CSD60-203	68	50	88	4						3	18" X 40"	700	3	
CSD60-204	102	75	132	4						4	18" X 40"	300	4	
CSD75-102	13	9	17	3.2	1"	1/2"	75,000 @ 37.5#	13" X 54"	2.5	2	18" X 40"	300	2	63"
CSD75-103	26	18	34	3.2						3	18" X 40"	300	3	
CSD75-104	39	27	51	3.2						4	18" X 40"	300	4	
CSD75-122	20	15	26	3.2	1-1/4"	1"	50,000 @ 15#	13" X 54"	2.5	2	18" X 40"	300	2	62"
CSD75-123	40	30	52	3.2						3	24" X 50"	700	3	
CSD75-124-BA2	60	45	78	3.2						4	18" X 40"	300	2	

# Product Specifications - ProPlex *Cont.*

Can operate with all tanks in service together (unless one is regenerating). During periods of low flow, tank(s) automatically drop-out, which prevents channeling. When demand increases, tank(s) are AUTOMATICALLY placed back into service. Immediate regeneration - The DROP Hub allows only one tank to regenerate at a time. Each tank can regenerate multiple times per day.

Model No.	GPM Flow Rates <small>(assumes one tank offline regenerating)</small>				Pipe Size NPT		Grains Exch Cap @ LBS Salt	Resin Tank Cu.Ft. Resin (Per Tank)		Brine Tank Salt Capacity LBS Per Tank			Overall Height						
	Service 15 PSI Loss	8 PSI Loss	Peak 25 PSI Loss	Back- wash	Service	Drain		Maximum Minimum	Tank Size	QTY	Tank Size	QTY							
CSD90-102	13	9	17	4			90,000 @ 45# 60,000 @ 18#	14" X 65"	3	2	18" X 40"	300	2	75"					
CSD90-103	26	18	34	4	1"	1/2"				3	18" X 40"	300	1						
CSD90-104-BA2	39	27	51	4						4	24" X 50"	700	2						
CSD90-122	20	15	26	4						90,000 @ 45# 60,000 @ 18#	14" X 65"	3	2	18" X 40"	300	2	74"		
CSD90-123	40	30	52	4	1-1/4"	1"							3	18" X 40"	300	2			
CSD90-124-BA2	60	45	78	4									4	18" X 40"	300	2			
CSD90-152	26	19	33	4									1-1/2"	1"	2	18" X 40"	300	2	74"
CSD90-153	52	38	66	4											3	18" X 40"	300	3	
CSD90-154-BA2	78	57	99	4											4	18" X 40"	300	2	
CSD90-202	33	24	43	4						2"	1-1/2"	2	18" X 40"	300	2	75"			
CSD90-203	66	48	86	4								3	18" X 40"	300	3				
CSD90-204-BA2	99	72	129	4								4	18" X 40"	300	2				
CSD120-102	14	10	24	5			120,000 @ 60# 80,000 @ 24#	16" X 65"	4	2	24" X 50"	700	2	75"					
CSD120-103	28	20	48	5	1"	1/2"				3	24" X 50"	700	3						
CSD120-104-BB2	42	30	72	5						4	24" X 50"	700	2						
CSD120-122	21	15	27	5						120,000 @ 60# 80,000 @ 24#	16" X 65"	4	2	24" X 50"	700	2	74"		
CSD120-123	42	30	54	5	1-1/4"	1"							3	24" X 50"	700	3			
CSD120-124-BB2	63	45	81	5									4	24" X 50"	700	2			
CSD120-152	28	20	36	5									1-1/2"	1"	2	24" X 50"	700	2	74"
CSD120-153	56	40	72	5											3	24" X 50"	700	3	
CSD120-154-BB2	84	60	108	5											4	24" X 50"	700	2	
CSD120-202	37	27	48	5						2"	1-1/2"	2	24" X 50"	700	2	75"			
CSD120-203	74	54	96	5								3	24" X 50"	700	3				
CSD120-204-BB2	111	81	144	5								4	24" X 50"	700	2				
CSD150-122	22	16	29	5			150,000 @ 75# 100,000 @ 30#	18" X 65"	5	2	24" X 50"	700	2	76"					
CSD150-123	44	32	58	5	1-1/4"	1"				3	24" X 50"	700	3						
CSD150-124-BB2	66	48	97	5						4	24" X 50"	700	2						
CSD150-152	29	21	38	5						1-1/2"	1"	2	24" X 50"	700	2	76"			
CSD150-153	58	42	76	5								3	24" X 50"	700	3				
CSD150-154-BB2	87	63	114	5								4	24" X 50"	700	2				
CSD150-202	40	29	51	5						2"	1-1/2"	2	24" X 50"	700	2	77"			
CSD150-203	80	58	102	5								3	24" X 50"	700	3				
CSD150-204-BB2	120	87	153	5								4	24" X 50"	700	2				



Can operate with all tanks in service together (unless one is regenerating). During periods of low flow, tank(s) automatically drop-out, which prevents channeling. When demand increases, tank(s) are AUTOMATICALLY placed back into service. Immediate regeneration - The DROP Hub allows only one tank to regenerate at a time. Each tank can regenerate multiple times per day.

Model No.	GPM Flow Rates <small>(assumes one tank offline regenerating)</small>				Pipe Size NPT		Grains Exch Cap @ LBS Salt	Resin Tank Cu.Ft. Resin (Per Tank)			Brine Tank Salt Capacity LBS Per Tank			Overall Height								
	Service		Peak 25 PSI Loss	Back- wash	Service	Drain		Maximum Minimum	Tank Size	QTY	Tank Size	QTY										
	15 PSI Loss	8 PSI Loss																				
CSD210-122	22	16	29	10	1-1/4"	1"	210,000 @ 105# 140,000 @ 42#	21" x 62"	7	2	24" X 50"	700	2	76"								
CSD210-123	44	32	58	10						3	24" X 50"	700	3									
CSD210-124-BB2	66	48	97	10						4	24" X 50"	700	2									
CSD210-152	31	22	40	10	1-1/2"	1"				210,000 @ 105# 140,000 @ 42#	21" x 62"	7	2		24" X 50"	700	2	76"				
CSD210-153	62	44	80	10									3		24" X 50"	700	3					
CSD210-154-BB2	93	66	120	10									4		30" X 50"	1,000	2					
CSD210-202	45	33	58	10	2"	1-1/2"							210,000 @ 105# 140,000 @ 42#		21" x 62"	7	2		24" X 50"	700	2	77"
CSD210-203	90	66	116	10													3		24" X 50"	700	3	
CSD210-204-BB2	135	99	174	10													4		30" X 50"	1,000	2	
CSD300-152	31	23	40	12	1-1/2"	1"	300,000 @ 150# 200,000 @ 60#	24" x 72"	10					2			30" X 50"		1,000	2	76"	
CSD300-153	62	46	80	12										3			30" X 50"		1,000	3		
CSD300-154-BC2	93	69	120	12										4			30" X 50"		1,000	2		
CSD300-202	47	34	60	12	2"	1-1/2"				300,000 @ 150# 200,000 @ 60#	24" x 72"	10		2			30" X 50"	1,000	2	77"		
CSD300-203	94	68	120	12										3			30" X 50"	1,000	3			
CSD300-204-BC2	141	102	180	12										4			30" X 50"	1,000	2			
CSD450-202	49	36	64	20	2"	1-1/2"							450,000 @ 225# 300,000 @ 90#	30" x 72"	15	2	30" X 50"	1,000	2			86"
CSD450-203	98	72	128	20												3	30" X 50"	1,000	3			
CSD450-204-BC2	147	108	192	20												4	30" X 50"	1,000	2			
CSD600-202	51	37	66	32	2"	1-1/2"	600,000 @ 300# 400,000 @ 120#	36" x 72"	20							2	42" X 60"	2,900	2		93"	
CSD600-203	102	74	132	32												3	42" X 60"	2,900	3			
CSD600-204-BD2	153	111	198	32												4	42" X 60"	2,900	2			
CSD600-2012-BD4	561	407	726	32	2"	1-1/2"				600,000 @ 300# 400,000 @ 120#	36" x 72"	20				12	42" X 60"	2,900	4	93"		

For Optional REDUCED Brine Tank Count on CSD Models:*		
add to model #	Size	Example:
-BA	18"x40"	CSD30-102-BA
-BB	24"x50"	CSD90-122-BB
-BC	30"x50"	CSD300-152-BC
-BD	42"x60"	CSD600-202-BD

\*Note: Other brine tanks are available; Common offerings are: BA2 = (2) 18"x40"; BB2 = (2) 24"x50"; BB3 = (3) 24"x50".

If no extra "-Bx" designation, then system includes one Brine Tank per Media Tank.

# DROPKick Aeration Systems

## Standard Features

- DROP 1.5" Bottom Mounted Control Valves – 12 gpm/tank
- Up to 7 cu.ft Media per Tank
- Maximum Operating Pressure-125 psi /110°F
- Integrated Flow Meter
- Automatic Shut-off Position Protects Against Water Damage when a Leak is Detected
- Premium Grade & NSF Approved Media
- Raw Water Backwashing – Raw Water Bypass
- Media included on all units – Optional Less Media

## Options

- Sourced Water Backwash
- No Raw Water Bypass
- 3 Injector Kit Options
- Ozone Generator
- Custom-designed systems
- Special Media for Custom Applications
- System can be expanded up to 12 tanks

Smart-Blend is the media used on the proportioned mix of two proven filter medias that provide a spectrum of filtering capabilities for a wide range of water problems

Our DROPKick Aeration Filters remove the need for separate aeration tanks. Each tank incorporates aeration technology that efficiently mixes ambient air with water under pressure to convert iron, manganese, and hydrogen sulfide gas to filterable particles.

The DROPKick Filter eliminates the associated stains, taste and odor while also eliminating sediment problems and neutralizing low pH on influent water. Only the highest quality controls and controls and materials are used. Our motor-driven piston is the most reliable under severe water conditions and resists common adversaries such as dirt, iron, and turbidity. Designed for use in commercial, industrial, or domestic water applications.

## Operating Information

Always consider BACKWASH requirements: multiple units may be needed.

For use on Potable Water Only Water

Do not use on microbiologically unsafe or unknown quality water

Installation must comply with state and local plumbing/electrical codes 120v/12vac (all models) CUL/UL listed transformer included with electronic meter systems Tank warranty void if subject to vacuum Low flow channeling – less than 1 gpm/cu. ft. resin – may cause hardness leakage.

Influent Chlorine 1 ppm max.

Water Temperature Range	35° – 110°F
Ambient Air Temperature Range	35° – 120°F
Operating Pressure Range	20 – 125 psi
Electronic Requirements	110v/60Hz
Influent Turbidity	5 NTU
Iron/Manganese	< 5 ppm



DROPkick		GPM		
System Number	Media	Backwash	Serv - Cont.	Serv - Peak
CKD70-15	Smart	25	12	19
CKD70-15N	Blend	25	12	19
CKD70K-15	Katalox	25	13	20
CKD70K-15N	Light	25	13	20
CKD70CC-15	Catalytic	20	12	16
CKD70CC-15N	Carbon	20	12	16

DROPkick Injector Kits	
Assembly Number	Description
CKD-INJ-K1	For use with systems that have a floor no higher than 15" from the floor. System uses gravity to draw in new air.
CKD-INJ-K2	For use with systems that have a drain no higher than 15" from the floor. System uses gravity to draw in new air. Includes connections to attach to a DROP Ozone Generator.
CKD-INJ-K3	For use with systems that have drains higher than 15" from the floor. System uses drive water to draw in new air through a venturi nozzle.

### Manganese Removal

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

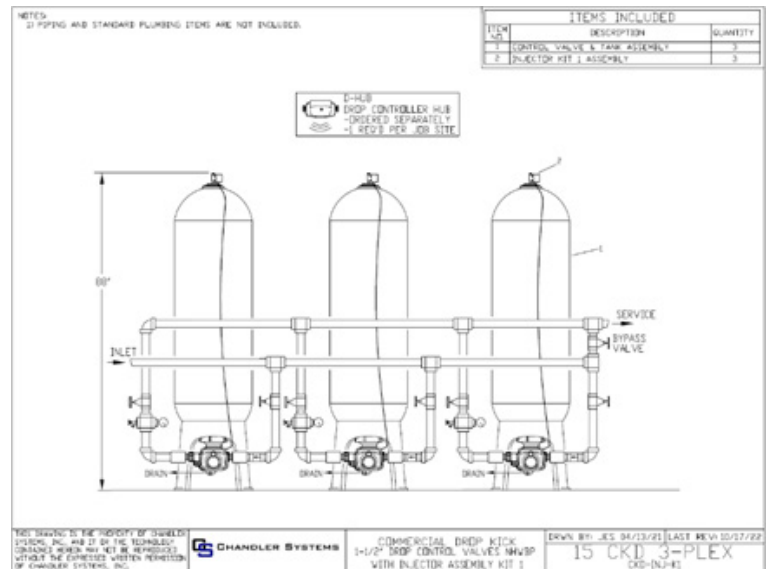
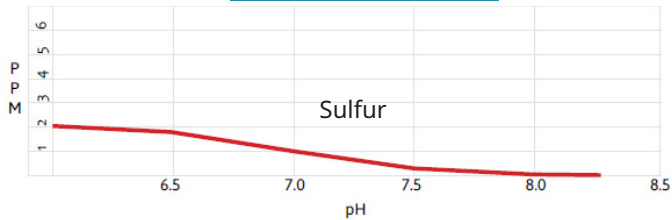
If Iron to Manganese ratio is: Then the pH must be at least:

10:1	6.5
5:1	7.8
1:1	8.3
0:1	8.5

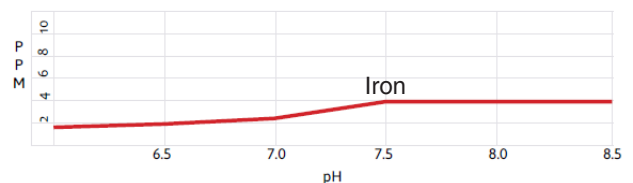
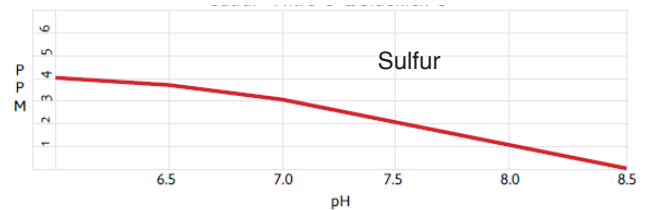
### DROP Commercial Ozone Generator

Assembly Number	Description
CD-OXY-03	Capable of producing 200mg/hr of O3.

### Iron and Sulfur Removal



### w/ Optional Catalytic Carbon



# Water Filter – Automatic

## Standard Features

- DROP Control Valves thru 2" – 34 gpm/tank
- Up to 18 cu.ft Media per Tank
- Maximum Operating Pressure-125 psi /110°F
- Bypass – Connects direct to each standard 1" and 1-1/4" DROP Valve and simplifies installation
- Integrated Flow Meter
- Automatic Shut-off Position Protects Against Water Damage when a Leak is Detected
- Premium Grade & NSF Approved Media
- Raw Water Backwashing – Raw Water Bypass
- Media included on all units – Optional Less Media

## Options

- Sourced Water Backwash
- No Raw Water Bypass
- Custom-designed systems
- Special Media for Custom Applications
- System can be expanded up to 12 tanks



Automatic backwashing water filters are the answer for solving common water quality problems. Only the highest quality, proven media and controls are used in a DROP Automatic Water Filter, for removal of taste, odor, color, sediment, low pH and iron. 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. Meanwhile, our hub and lateral style distribution system within the corrosion-resistant tanks maximize flow while reducing pressure loss through the units. Designed for use in commercial, industrial, or domestic water applications.

## Operating Information

Always consider BACKWASH req'd; multiple units may be needed.

For use on Potable Water Only Water

Do not use on microbiologically unsafe or unknown quality water

Installation must comply with state and local plumbing/electrical codes 120v/12vac (10WS-20WS), 20vac (20WSH-30WS) CUL/UL listed transformer included.

Tank warranty void if subject to vacuum Low flow channeling – less than .5 gpm/cu. ft. media – may cause untreated water bleed. Influent Chlorine 1 ppm max.

Water Temperature Range	35° – 110°F
Ambient Air Temperature Range	35° – 120°F
Operating Pressure Range	20 – 125 psi
Electronic Requirements	110v/60Hz
Influent Turbidity	5 NTU
Influent Chlorine	1 ppm max.
Iron/Manganese	< 5 ppm

Activated Carbon For Chlorine, VOC, Taste, Odor, & Color. For Turbidity/sediment down to 20-40 micron.	GPM		
	Backwash	VOC Treat.	De-Chlorin.
CFD30C-12	10	5.5	11
CFD30C-12N	10	5.5	11
CFD40C-12	12	7	14
CFD40C-12N	12	7	14
CFD40C-15	12	7	14
CFD40C-15N	12	7	14
CFD50C-12	15	9	18
CFD50C-12N	15	9	18
CFD50C-15	15	9	18
CFD50C-15N	15	9	18
CFD70C-12	20	12	23
CFD70C-12N	20	12	21
CFD70C-15	20	12	24
CFD70C-15N	20	12	24
CFD70C-20	20	12	24
CFD70C-20N	20	12	24
CFD100C-12	25	16	23
CFD100C-12N	25	16	22
CFD100C-15	25	16	31
CFD100C-15N	25	16	30
CFD100C-20	25	16	31
CFD100C-20N	25	16	31
CFD140C-20	40	25	50
CFD140C-20N	40	25	50
CFD180C-20	60	35	55
CFD180C-20N	60	35	51

Filter-AG Plus For Turbidity/Sediment down to 5 micron or less.	GPM		
	Backwash	Serv - Cont.	Serv - Peak
CFD25FP-12	10	9.2	14
CFD25FP-12N	10	9.2	14
CFD30FP-12	12	11	16
CFD30FP-12N	12	11	16
CFD40FP-12	15	14	21
CFD40FP-12N	15	14	21
CFD40FP-15	15	14	21
CFD40FP-15N	15	14	21
CFD50FP-12	20	18	23
CFD50FP-12N	20	18	22
CFD50FP-15	20	18	27
CFD50FP-15N	20	18	27
CFD70FP-12	25	19	23
CFD70FP-12N	25	18	22
CFD70FP-15	25	24	33
CFD70FP-15N	25	24	31
CFD70FP-20	25	24	36
CFD70FP-20N	25	24	36
CFD100FP-15	32	28	34
CFD100FP-15N	32	26	31
CFD100FP-20	32	31	47
CFD100FP-20N	32	31	47
CFD140FP-20	50	49	53
CFD140FP-20N	50	49	49

Katalox Light For Turbidity/Sediment down to 3 micron or less. For Iron & Manganese removal (max 2 ppm total).	GPM		
	Backwash	Serv - Cont.	Serv - Peak
CFD25KL-12	10	4.4	5.3
CFD25KL-12N	10	4.4	5.3
CFD30KL-12	12	6.6	8
CFD30KL-12N	12	6.6	8
CFD40KL-12	15	8.7	10.4
CFD40KL-12N	15	8.7	10.4
CFD40KL-15	15	8.7	10.4
CFD40KL-15N	15	8.7	10.4
CFD50KL-12	20	11	13.2
CFD50KL-12N	20	11	13.2
CFD50KL-15	20	11	13.2
CFD50KL-15N	20	11	13.2
CFD70KL-12	25	13.2	16
CFD70KL-12N	25	13.2	16
CFD70KL-15	25	13.2	16
CFD70KL-15N	25	13.2	16
CFD70KL-20	25	13.2	16
CFD70KL-20N	25	13.2	16
CFD100KL-20	34	20	24
CFD100KL-20N	34	20	24
CFD140KL-20	53	31	37
CFD140KL-20N	53	31	37

Smart Blend For Turbidity/Sediment down to 5 micron or less. For Iron & Manganese removal.	GPM		
	Backwash	Serv - Cont.	Serv - Peak
CFD25SB-12	10	5	8
CFD25SB-12N	10	5	8
CFD30SB-12	11	5.5	9
CFD30SB-12N	11	5.5	9
CFD40SB-12	13	7	11
CFD40SB-12N	13	7	11
CFD40SB-15	13	7	11
CFD40SB-15N	13	7	11
CFD50SB-12	15	9	13
CFD50SB-12N	15	9	13
CFD50SB-15	15	9	13
CFD50SB-15N	15	9	13
CFD70SB-12	25	12	--
CFD70SB-12N	25	12	--
CFD70SB-15	25	12	--
CFD70SB-15N	25	12	--
CFD70SB-20	25	12	--
CFD70SB-20N	25	12	--
CFD100SB-20	34	15	--
CFD100SB-20N	34	15	--
CFD140SB-20	53	25	--
CFD140SB-20N	53	25	--

Service Pipe Sizes, Tank Sizes, Cu.Ft., O/A Ht.				
Series	Service Size	Tank dia x nom. Ht.	Cu.Ft. Media	O/A Ht.
CFD25_-12(N)	1-1/4" NPT	13" X 54"	2.5	62"
CFD30_-12(N)	1-1/4" NPT	14" X 65"	3	74"
CFD40_-12(N)	1-1/4" NPT	16" X 65"	4	74"
CFD40_-15(N)	1-1/2" NPT	16" X 65"		74"
CFD50_-12(N)	1-1/4" NPT	18" X 65"	5	76"
CFD50_-15(N)	1-1/2" NPT	18" X 65"		76"
CFD70_-12(N)	1-1/4" NPT	21" X 62"	7	76"
CFD70_-15(N)	1-1/2" NPT	21" X 62"		76"
CFD70_-20(N)	2" NPT	24" X 72"		77"
CFD100_-15(N)	1-1/2" NPT	24" X 72"	10	81"
CFD100_-20(N)	2" NPT	24" X 72"		82"
CFD140_-20(N)	2" NPT	30" X 72"	14	83"
CFD180_-20(N)	2" NPT	36" X 72"	18	83"

Neutralizer For Acidic Water down to 5.8 pH. For Turbidity/ Sediment down to 20-40 micron.	GPM		
	Backwash	Serv - Cont.	Serv - Peak
CFD25N-12	8	4.6	7.4
CFD25N-12N	8	4.6	7.4
CFD30N-12	10	5.5	9
CFD30N-12N	10	5.5	9
CFD40N-12	15	7	11
CFD40N-12N	15	7	11
CFD40N-15	15	7	11
CFD40N-15N	15	7	11
CFD50N-12	20	9	15
CFD50N-12N	20	9	15
CFD50N-15	20	9	15
CFD50N-15N	20	9	15
CFD70N-12	25	12	20
CFD70N-12N	25	12	20
CFD70N-15	25	12	20
CFD70N-15N	25	12	20
CFD70N-20	25	12	20
CFD70N-20N	25	12	20
CFD100N-15	32	16	25
CFD100N-15N	32	16	25
CFD100N-20	32	16	25
CFD100N-20N	32	16	25
CFD140N-20	50	25	39
CFD140N-20N	50	25	39

NEU-COR For Acidic Water down to 5.0 pH. For Turbidity/ Sediment down to 20-40 micron.	GPM		
	Backwash	Serv - Cont.	Serv - Peak
CFD25NC-12	8	4.6	7.4
CFD25NC-12N	8	4.6	7.4
CFD30NC-12	10	5.5	9
CFD30NC-12N	10	5.5	9
CFD40NC-12	15	7	11
CFD40NC-12N	15	7	11
CFD40NC-15	15	7	11
CFD40NC-15N	15	7	11
CFD50NC-12	20	9	15
CFD50NC-12N	20	9	15
CFD50NC-15	20	9	15
CFD50NC-15N	20	9	15
CFD70NC-12	25	12	20
CFD70NC-12N	25	12	20
CFD70NC-15	25	12	20
CFD70NC-15N	25	12	20
CFD70NC-20	25	12	20
CFD70NC-20N	25	12	20
CFD100NC-15	32	16	25
CFD100NC-15N	32	16	25
CFD100NC-20	32	16	25
CFD100NC-20N	32	16	25
CFD140NC-20	50	25	39
CFD140NC-20N	50	25	39

# ReactR™ Treatment Systems

## Standard Features

- DROP Control Valves
- Aeration via Ambient Air - NO CHEMICALS
- Automatic Self-Regulating Air Volume Control Smart-Blend Filter Media
- No Raw Water Bypass - While one tank is Backwashing, the Other Tank(s) is (are) Still in Service (for multi-tank systems only)
- Catalog Systems to 96 gpm
- Aeration Manifold Assembly Machined from Solid PVC Barstock
- Maximum Operating Pressure - 125 psi / 110 ° F
- Bypass – Connects direct to each standard 1-1/4" DROP Valve and simplifies installation
- Available in four different configurations
- Ports on Aeration Manifold for optional chemical injection

## Options

- Alternate Aeration Tank(s) sizes
- Custom-designed systems
- Alternate filter media

Smart-Blend is the media used on the 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 also eliminating sediment problems and neutralizing low pH on influent water. Only the highest quality controls and controls and materials are used. Our motor-driven piston is the most reliable under severe water conditions and resists common adversaries such as dirt, iron and turbidity. Designed for use in commercial, industrial or domestic water applications.

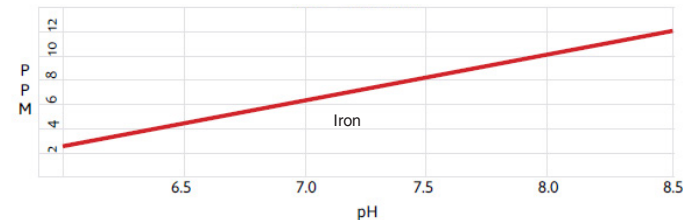
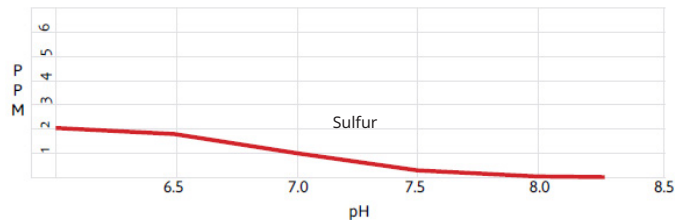
Water Temperature Range	35 ° - 110 ° F
Ambient Air Temperature Range	35 ° - 110 ° F
Operating Pressure Range	25 - 125 psi
Electronic Requirements	110 v / 60Hz

### OPERATING INFORMATION

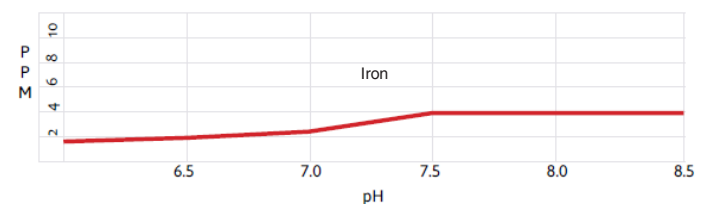
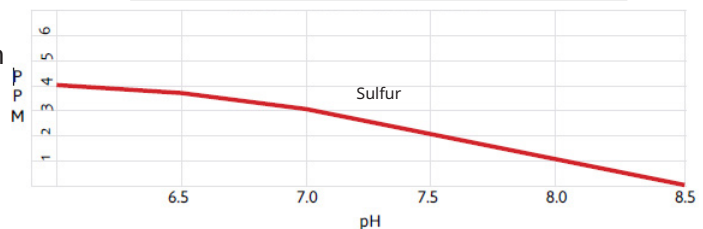
For use on Potable Water Only  
 Do not use on microbiologically unsafe or unknown water  
 Installation must comply with state & local plumbing /electrical code  
 Tank Warranty void if subject to vacuum



Iron and Sulfur Removal w. Standard Smart Blend



w/ Optional Catalytic Carbon



ReactR SYSTEM MODEL NUMBERS				Service GPM			Backwash GPM	Pipe Size NPT		Filter Tank		Cu. Ft. Media - Total
Standard Pressure Systems (Filter tanks ALWAYS under pressure).		For installations AHEAD of atmospheric tanks. (Clean/Blended BackWash - see Note 1)		Continuous	Comm. Interm. / Residen. Normal	Residen. Intermit.		Service	Drain Line	Tank Size	Tank Qty.	
for 3450-rpm submersible pumps	for Var-Speed Pumps or low inlet pressure	for 3450-rpm submersible pumps	for Var-Speed Pumps or low inlet pressure									
CRD10-122	CRD10-122VS	CRD10-122C	CRD10-122VSC	5	8	12	5	1-1/4"	1"	9" X 48"	2	2
CRD10-123	CRD10-123VS	CRD10-123C	CRD10-123VSC	7.5	12	18	5	1-1/4"	1"	9" X 48"	3	3
CRD10-124	CRD10-124VS	CRD10-124C	CRD10-124VSC	10	16	24	5	1-1/4"	1"	9" X 48"	4	4
CRD15-122	CRD15-122VS	CRD15-122C	CRD15-122VSC	6	10	14	6	1-1/4"	1"	10" X 54"	2	3
CRD15-123	CRD15-123VS	CRD15-123C	CRD15-123VSC	9	15	21	6	1-1/4"	1"	10" X 54"	3	4.5
CRD15-124	CRD15-124VS	CRD15-124C	CRD15-124VSC	12	20	28	6	1-1/4"	1"	10" X 54"	4	6
CRD20-122	CRD20-122VS	CRD20-122C	CRD20-122VSC	8	12	16	8	1-1/4"	1"	12" X 52"	2	4
CRD20-123	CRD20-123VS	CRD20-123C	CRD20-123VSC	12	18	24	8	1-1/4"	1"	12" X 52"	3	6
CRD20-124	CRD20-124VS	CRD20-124C	CRD20-124VSC	16	24	32	8	1-1/4"	1"	12" X 52"	4	8
CRD25-122	CRD25-122VS	CRD25-122C	CRD25-122VSC	10	16	20	10	1-1/4"	1"	13" X 54"	2	5
CRD25-123	CRD25-123VS	CRD25-123C	CRD25-123VSC	15	24	30	10	1-1/4"	1"	13" X 54"	3	7.5
CRD25-124	CRD25-124VS	CRD25-124C	CRD25-124VSC	20	32	---	10	1-1/4"	1"	13" X 54"	4	10
CRD30-121	CRD30-121VS	---	---	5.5	9	11	12	1-1/4"	1"	14" X 65"	1	3
CRD30-122	CRD30-122VS	CRD30-122C	CRD30-122VSC	11	18	22	12	1-1/4"	1"	14" X 65"	2	6
CRD30-123	CRD30-123VS	CRD30-123C	CRD30-123VSC	17	27	33	12	1-1/4"	1"	14" X 65"	3	9
CRD30-124	CRD30-124VS	CRD30-124C	CRD30-124VSC	22	33	---	12	1-1/4"	1"	14" X 65"	4	12
CRD40-121	CRD40-121VS	---	---	7	11	13	15	1-1/4"	1"	16" X 65"	1	4
CRD40-122	CRD40-122VS	CRD40-122C	CRD40-122VSC	14	22	26	15	1-1/4"	1"	16" X 65"	2	8
CRD40-123	CRD40-123VS	CRD40-123C	CRD40-123VSC	21	33	---	15	1-1/4"	1"	16" X 65"	3	12
CRD40-124	CRD40-124VS	CRD40-124C	CRD40-124VSC	28	44	---	15	1-1/4"	1"	16" X 65"	4	16
CRD50-121	CRD50-121VS	---	---	9	14	18	20	1-1/4"	1"	18" X 65"	1	5
CRD50-122	CRD50-122VS	CRD50-122C	CRD50-122VSC	18	26	30	20	1-1/4"	1"	18" X 65"	2	10
CRD50-123	CRD50-123VS	CRD50-123C	CRD50-123VSC	27	39	---	20	1-1/4"	1"	18" X 65"	3	15
CRD50-124	CRD50-124VS	CRD50-124C	CRD50-124VSC	36	48	---	20	1-1/4"	1"	18" X 65"	4	20
CRD70-121	CRD70-121VS	---	---	12	19	24	25	1-1/4"	1"	21" X 62"	1	7
CRD70-122	CRD70-122VS	CRD70-122C	CRD70-122VSC	24	33	---	25	1-1/4"	1"	21" X 62"	2	14
CRD70-123	CRD70-123VS	CRD70-123C	CRD70-123VSC	36	48	---	25	1-1/4"	1"	21" X 62"	3	21
CRD70-124	CRD70-124VS	CRD70-124C	CRD70-124VSC	48	---	---	25	1-1/4"	1"	21" X 62"	4	28
CRD70-125	CRD70-125VS	CRD70-125C	CRD70-125VSC	60	---	---	25	1-1/4"	1"	21" X 62"	5	35
CRD70-126	CRD70-126VS	CRD70-126C	CRD70-126VSC	72	---	---	25	1-1/4"	1"	21" X 62"	6	42
CRD70-127	CRD70-127VS	CRD70-127C	CRD70-127VSC	84	---	---	25	1-1/4"	1"	21" X 62"	7	49
CRD70-128	CRD70-128VS	CRD70-128C	CRD70-128VSC	96	---	---	25	1-1/4"	1"	21" X 62"	8	58

Note 1 - C & VSC models backwash with cleand and/or raw (blended) water.

### Manganese Removal

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

If Iron to Manganese ratio is:

Then the pH must be at least:

10:1	6:5
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 50% 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 ReactR Tank Manifold

# HydroxR™ Treatment Systems

## Standard Features

- DROP Control Valves
- Combines Aggressive Pressurized Aeration with the Oxidation Power of Hydrogen Peroxide.
- Treats extreme levels of Iron, Manganese & Sulfur.
- Disinfection Properties to Treat Iron, Manganese & Sulfur Bacteria
- Catalog Systems to 96 gpm
- Aeration Manifold Assembly Machined from Solid PVC Barstock
- Maximum Operating Pressure - 125 psi / 110 ° F
- Bypass – Connects direct to each standard 1-1/4" DROP Valve and simplifies installation
- Ports on Aeration Manifold, for optional chemical injection.
- Automatic Self-Regulating Air Volume Control
- Filter-Ag Plus® Filter Media
- No Raw Water Bypass
- Chemical Feed Pump and Solution Tank
- Includes 5 Gallons of Hydrogen Peroxide
- Available in four different configurations



## Options

- Alternate Aeration Tank(s) sizes
- Custom-designed systems
- Alternate filter media

Our HydroxR™ Treatment System combines aggressive aeration technology with oxidation power of hydrogen peroxide for treatment of virtually unlimited levels of iron, manganese and sulfur gas. At the same time bacteriological form of constituents are controlled without the creation of chemical byproducts, contact tanks or the ongoing maintenance of rebedding carbon filters. The included chemical feed pump package is equipped with a Degas head for self-priming operation. Our motor-driven piston control valve is the most reliable even under severe water conditions and resists common adversaries such as dirt, iron and turbidity. Designed for use in commercial, industrial or domestic water applications.

**TYPICAL USES:** Large Scale Irrigation, Public Water Systems, Dairy Operations, Industrial Pre-Treatment, Hotels / Motels, Apartments / Condos, Nursing Home Facilities, Food / Beverage Manufacturer, Livestock Operations, Schools, Hospitals



HydroxR SYSTEM MODEL NUMBERS				Service GPM			Pipe Size NPT	Filter Tank	Filter Tank Qty.	Cu. Ft. Media - Total		
For applications with 3450-RPM well pumps (see Note 1)		For applications with variable-speed well pumps		Continuous	Comm. Intermit. / Residen. Normal	Residen. Intermit.					Service	Drain Line
For HydroxR System DOWNSTREAM from pressure tank	For HydroxR System "pump & dump" into atmospheric tank	Treat iron, manganese, sulfur (HydroxR downstream from press. Tank, or "pump & dump" into atmos. Tank) - see Note 2.	Treat sulfur ONLY (HydroxR downstream from pressure tank)				Not for atmos. Tank					
CHD10-122	CHD10-122C	CHD10-122VSC	CHD10-122VS	5	8	12	5	1-1/4"	1"	9" x 48"	2	2
CHD10-123	CHD10-123C	CHD10-123VSC	CHD10-123VS	7.5	12	18	5	1-1/4"	1"	9" x 48"	3	3
CHD15-122	CHD15-122C	CHD15-122VSC	CHD15-122VS	6	10	14	6	1-1/4"	1"	10" x 54"	2	3
CHD15-123	CHD15-123C	CHD15-123VSC	CHD15-123VS	9	15	21	6	1-1/4"	1"	10" x 54"	3	4.5
CHD15-124	CHD15-124C	CHD15-124VSC	CHD15-124VS	12	20	24	6	1-1/4"	1"	10" x 54"	4	6
CHD20-122	CHD20-122C	CHD20-122VSC	CHD20-122VS	8	12	16	8	1-1/4"	1"	12" x 52"	2	4
CHD20-123	CHD20-123C	CHD20-123VSC	CHD20-123VS	12	18	24	8	1-1/4"	1"	12" x 52"	3	6
CHD20-124	CHD20-124C	CHD20-124VSC	CHD20-124VS	16	24	---	8	1-1/4"	1"	12" x 52"	4	8
CHD25-122	CHD25-122C	CHD25-122VSC	CHD25-122VS	10	16	20	10	1-1/4"	1"	13" x 54"	2	5
CHD25-123	CHD25-123C	CHD25-123VSC	CHD25-123VS	15	24	---	10	1-1/4"	1"	13" x 54"	3	7.5
CHD25-124	CHD25-124C	CHD25-124VSC	CHD25-124VS	20	30	---	10	1-1/4"	1"	13" x 54"	4	10
CHD30-122	CHD30-122C	CHD30-122VSC	CHD30-122VS	11	18	22	12	1-1/4"	1"	14" x 65"	2	6
CHD30-123	CHD30-123C	CHD30-123VSC	CHD30-123VS	17	27	30	12	1-1/4"	1"	14" x 65"	3	9
CHD30-124	CHD30-124C	CHD30-124VSC	CHD30-124VS	22	33	---	12	1-1/4"	1"	14" x 65"	4	12
CHD40-122	CHD40-122C	CHD40-122VSC	CHD40-122VS	14	22	24	15	1-1/4"	1"	16" x 65"	2	8
CHD40-123	CHD40-123C	CHD40-123VSC	CHD40-123VS	21	30	---	15	1-1/4"	1"	16" x 65"	3	12
CHD40-124	CHD40-124C	CHD40-124VSC	CHD40-124VS	28	40	---	15	1-1/4"	1"	16" x 65"	4	16
CHD40-125	CHD40-125C	CHD40-125VSC	CHD40-125VS	35	---	---	15	1-1/4"	1"	16" x 65"	5	20
CHD40-126	CHD40-126C	CHD40-126VSC	CHD40-126VS	42	---	---	15	1-1/4"	1"	16" x 65"	6	24
CHD50-122	CHD50-122C	CHD50-122VSC	CHD50-122VS	18	26	30	20	1-1/4"	1"	18" x 65"	2	10
CHD50-123	CHD50-123C	CHD50-123VSC	CHD50-123VS	27	39	---	20	1-1/4"	1"	18" x 65"	3	15
CHD50-124	CHD50-124C	CHD50-124VSC	CHD50-124VS	36	---	---	20	1-1/4"	1"	18" x 65"	4	20
CHD50-125	CHD50-125C	CHD50-125VSC	CHD50-125VS	45	---	---	20	1-1/4"	1"	18" x 65"	5	25
CHD50-126	CHD50-126C	CHD50-126VSC	CHD50-126VS	54	---	---	20	1-1/4"	1"	18" x 65"	6	30
CHD70-123	CHD70-123C	CHD70-123VSC	CHD70-123VS	36	---	---	25	1-1/4"	1"	21" x 62"	3	21
CHD70-124	CHD70-124C	CHD70-124VSC	CHD70-124VS	48	---	---	25	1-1/4"	1"	21" x 62"	4	28
CHD70-125	CHD70-125C	CHD70-125VSC	CHD70-125VS	60	---	---	25	1-1/4"	1"	21" x 62"	5	35
CHD70-126	CHD70-126C	CHD70-126VSC	CHD70-126VS	72	---	---	25	1-1/4"	1"	21" x 62"	6	42
CHD70-127	CHD70-127C	CHD70-127VSC	CHD70-127VS	84	---	---	25	1-1/4"	1"	21" x 62"	7	49
CHD70-128	CHD70-128C	CHD70-128VSC	CHD70-128VS	96	---	---	25	1-1/4"	1"	21" x 62"	8	56

Note 1 - For 3450-RPM well pump models at rated GPM, the inlet PSI at the HydroxR™ Tank must be at least 50% higher than the max PSI desired at service. If supply pump cannot achieve this pressure, then use "Variable Speed" models.

Note 2 - See individual drawings containing (PRESS) or (ATMOS) in file name, for specific configuration & piping details.

### Manganese Removal

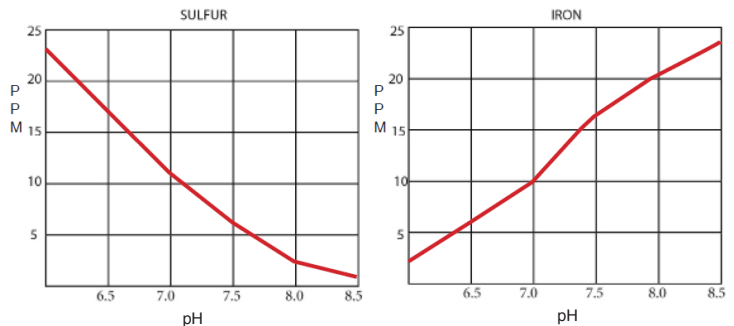
HydroxR™ capability to remove Manganese from water is critically dependent on the Iron and pH levels as show below:

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

If need, pH can be increased by injecting soda ash or caustic into the HydroxR™ Tank Manifold

Water Temperature Range	35 ° - 110 ° F
Ambient Air Temperature Range	35 ° - 110 ° F
Operating Pressure Range	25 - 125 psi
Electronic Requirements	110 v / 60Hz

### Iron and Sulfur Removal



### Operating Information

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

# Commercial Protection System

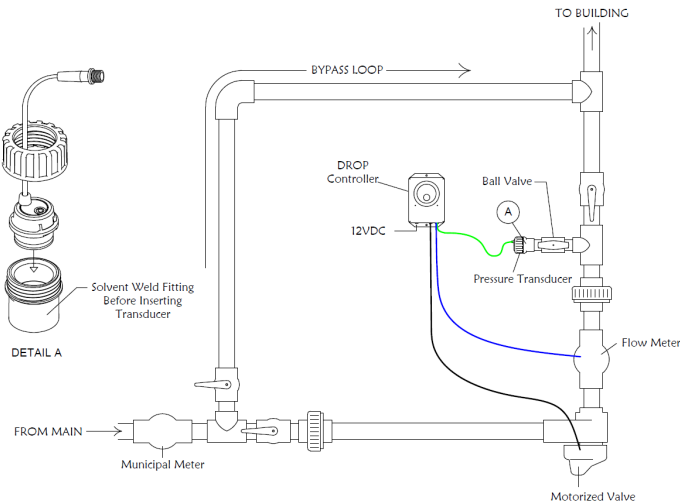


Monitoring pressure, flow and temperature while also pairing with wireless leak detectors, the Commercial Protection System from DROP offers the most all-inclusive leak protection available.

## Standard Features

- DROP App to Remote Control systems from anywhere
- Available in 1.5", 2", and 3"
- Service Flow Rates up to 310 GPM
- Maximum Operating Pressure-125 psi /110°F
- Local Leak Detection
- 9 VDC Battery Backup for Power Outage
- Provides text messages, emails, and/or push notifications of vital system information
- Includes Hub, Control Box, Shutoff Valve, Flow Meter and Pressure Transducer

Models	Service Flow Rate	Pipe Size
D-CPS-15-K1	0.5 to 65 GPM	1.5"
D-CPS-20-K1	1.5 to 130 GPM	2"
D-CPS-30-K1	3.5 to 310 GPM	3"





## Standard Features

- DROP App to Remote Control systems from anywhere
- Can accommodate 1", 1.5", 2", and 3" valve and flow meter
- Service Flow Rates up to 310 GPM
- Maximum Operating Pressure-125 psi /110°F
- Local Leak Detection
- 9 VDC Battery Backup for Power Outage
- Provides text messages, emails, and/or push notifications of vital system information
- Includes Hub, Control Box, Shutoff Valve, Flow Meter and Pressure Transducer

Models	Description
D-AUX-R	Inputs include: Pressure transducer, flow meter and leak detector / switched input. Outputs include: 2-12 VDC Cannon Outputs .5 Amp Max
D-AUX-V	Inputs include: Pressure transducer, flow meter and leak detector / switched input. Outputs include: 2 pin valve connector for 2 or 3 way valve

The DROP Aux Box is a device that extends the capabilities of a DROP system by providing additional flow, pressure, temperature, and leak detection inputs, while also intelligently controlling an auxiliary valve or relay outputs. There are two versions of the Aux Box. One version has a motor output to control a 2 or 3 way valve motor, that can be ordered with the box. The valve sizes currently available range from 1" - 3". Contact DROP for more details on available valve sizes. The second version of the Aux Box has two programmable 12VDC outputs, intended to be used to drive relays.

### Some examples of how the DROP Aux Box could be used are:

- To create a water treatment system that regenerates with treated water from an atmospheric tank.
- To run a feed pump during the backwash cycle of the filter in the DROP system.
- To signal an external system when DROP has turned off the water.
- To signal an external system when the DROP system is regenerating.



Softener Valves	
Hard Water Bypassing (HWBP)	
Model No.	Product Description
20125X501	Control Valve 1-1/4" Softener Bypassing 2.4 GPM DLFC, #0 Injector - for 10" dia tanks
20125X502	Control Valve 1-1/4" Softener Bypassing 3.2 GPM DLFC, #1 Injector - for 12" & 13" dia tanks
20125X503	Control Valve 1-1/4" Softener Bypassing 4 GPM DLFC, #2 Injector - for 14" dia tanks
20125X504	Control Valve 1-1/4" Softener Bypassing 5 GPM DLFC, #3 Injector - for 16" dia tanks
20125X505	Control Valve 1-1/4" Softener Bypassing 8 GPM DLFC, #3 Injector - for 18" dia tanks
20125X506	Control Valve 1-1/4" Softener Bypassing 10 GPM DLFC, #3 Injector - for 21" dia tanks
No Hard Water Bypassing (NHWBP)	
Model No.	Product Description
20125X551	Control Valve 1-1/4" Softener NHWBP 2.4 GPM DLFC, #0 Injector - for 10" dia tanks
20125X552	Control Valve 1-1/4" Softener NHWBP 3.2 GPM DLFC, #1 Injector - for 12" & 13" dia tanks
20125X553	Control Valve 1-1/4" Softener NHWBP 4 GPM DLFC, #2 Injector - for 14" dia tanks
20125X554	Control Valve 1-1/4" Softener NHWBP 5 GPM DLFC, #3 Injector - for 16" dia tanks
20125X555	Control Valve 1-1/4" Softener NHWBP 8 GPM DLFC, #3 Injector - for 18" dia tanks
20125X556	Control Valve 1-1/4" Softener NHWBP 10 GPM DLFC, #3 Injector - for 21" dia tanks
Filter Valves	
Hard Water Bypassing (HWBP)	
Model No.	Product Description
20125X601	Control Valve 1-1/4" Filter Bypassing 4 GPM DLFC
20125X602	Control Valve 1-1/4" Filter Bypassing 5 GPM DLFC
20125X604	Control Valve 1-1/4" Filter Bypassing 8 GPM DLFC
20125X605	Control Valve 1-1/4" Filter Bypassing 9 GPM DLFC
20125X606	Control Valve 1-1/4" Filter Bypassing 10 GPM DLFC
20125X607	Control Valve 1-1/4" Filter Bypassing 12 GPM DLFC
20125X608	Control Valve 1-1/4" Filter Bypassing 15 GPM DLFC
20125X610	Control Valve 1-1/4" Filter Bypassing 20 GPM DLFC
20125X611	Control Valve 1-1/4" Filter Bypassing 25 GPM DLFC
No Hard Water Bypassing (NHWBP)	
Model No.	Product Description
20125X651	Control Valve 1-1/4" Filter NHWBP 4 GPM DLFC
20125X652	Control Valve 1-1/4" Filter NHWBP 5 GPM DLFC
20125X654	Control Valve 1-1/4" Filter NHWBP 8 GPM DLFC
20125X655	Control Valve 1-1/4" Filter NHWBP 9 GPM DLFC
20125X656	Control Valve 1-1/4" Filter NHWBP 10 GPM DLFC
20125X657	Control Valve 1-1/4" Filter NHWBP 12 GPM DLFC
20125X658	Control Valve 1-1/4" Filter NHWBP 15 GPM DLFC
20125X660	Control Valve 1-1/4" Filter NHWBP 20 GPM DLFC
20125X661	Control Valve 1-1/4" Filter NHWBP 25 GPM DLFC



Softener Valves	
Hard Water Bypassing (HWBP)	
Model No.	Product Description
20150X501	Control Valve 1-1/2" Softener Bypassing 4 GPM DLFC, #3 Injector - for 14" dia tanks
20150X502	Control Valve 1-1/2" Softener Bypassing 5 GPM DLFC, #3 Injector - for 16" dia tanks
20150X503	Control Valve 1-1/2" Softener Bypassing 8 GPM DLFC, #3 Injector - for 18" dia tanks
20150X504	Control Valve 1-1/2" Softener Bypassing 10 GPM DLFC, #4 Injector - for 21" dia tanks
20150X505	Control Valve 1-1/2" Softener Bypassing 12 GPM DLFC, #5 Injector - for 24" dia tanks
No Hard Water Bypassing (NHWBP)	
Model No.	Product Description
20150X551	Control Valve 1-1/2" Softener NHWBP 4 GPM DLFC, #3 Injector - for 14" dia tanks
20150X552	Control Valve 1-1/2" Softener NHWBP 5 GPM DLFC, #3 Injector - for 16" dia tanks
20150X553	Control Valve 1-1/2" Softener NHWBP 8 GPM DLFC, #3 Injector - for 18" dia tanks
20150X554	Control Valve 1-1/2" Softener NHWBP 10 GPM DLFC, #4 Injector - for 21" dia tanks
20150X555	Control Valve 1-1/2" Softener NHWBP 12 GPM DLFC, #5 Injector - for 24" dia tanks
Filter Valves	
Hard Water Bypassing (HWBP)	
Model No.	Product Description
20150X601	Control Valve 1-1/2" Filter Bypassing 10 GPM DLFC
20150X602	Control Valve 1-1/2" Filter Bypassing 12 GPM DLFC
20150X603	Control Valve 1-1/2" Filter Bypassing 15 GPM DLFC
20150X605	Control Valve 1-1/2" Filter Bypassing 20 GPM DLFC
20150X606	Control Valve 1-1/2" Filter Bypassing 25 GPM DLFC
20150X607	Control Valve 1-1/2" Filter Bypassing 32 GPM DLFC
No Hard Water Bypassing (NHWBP)	
Model No.	Product Description
20150X651	Control Valve 1-1/2" Filter NHWBP 10 GPM DLFC
20150X652	Control Valve 1-1/2" Filter NHWBP 12 GPM DLFC
20150X653	Control Valve 1-1/2" Filter NHWBP 15 GPM DLFC
20150X655	Control Valve 1-1/2" Filter NHWBP 20 GPM DLFC
20150X656	Control Valve 1-1/2" Filter NHWBP 25 GPM DLFC
20150X657	Control Valve 1-1/2" Filter NHWBP 32 GPM DLFC

# Repair Parts & Accessories

Model No.	Product Description
20125X006	Seal & Spacer Stack Ass'y, CS125, CS150
20125X004	Piston, CS125, CS150 Softener Hardwater Bypass
20125X005	Piston, CS125, CS150 Softener NHWBP
20125X023	Piston, CS125, CS150 Filter Hardwater Bypass
20125X024	Piston, CS125, CS150 Filter NHWBP
20125X007	Meter Module, CS125, CS150
20125X050	Motor Plate Sub Assembly. Includes Motor Plate, Motor, & Encoder
20125X030	Straight fitting 1"NPT-M plastic PAIR (qty-1 optionally used per CS125 & CS150 Control Valve)
20150X006	Elbow, 90° vertical plastic SINGLE (qty-2 optionally used per CS125 & CS150 Control Valve).
35100X001	Adapter, Tank Top 4"-8UN x 2.5"-8UN - required for using CS125 valves on tanks with 4"-8UN top opening.
CS125-BP	Bypass - used with CS125 valve.
CS125-BA	Straight fitting 1-1/4"NPT-F Brass PAIR (qty-1 optionally used per CS125 & CS150 Control Valve)
CS150-BA	Straight fitting 1-1/2"NPT-F Brass PAIR (qty-1 optionally used per CS125 & CS150 Control Valve)
CS-MS050-ASSM	Brine ball assembly for ProPlex Softener Systems

## WATER MANAGEMENT SYSTEMS

This warranty cannot be transferred - it is extended only to the original purchaser or first user of the product. By accepting and keeping this product, you agree to all of the warranty terms and limitations of liability described below.

**Important Warning:** Read carefully the DROP Water Management Systems Equipment Installation, Operating and Maintenance Instructions Manual to avoid serious personal injury and property HAZARDS and to ensure safe and proper care of this product.

\*FOR AS LONG AS YOU OWN AND LIVE IN YOUR SINGLE FAMILY HOME, this warranty covers your water treatment equipment, if you are the first user of this DROP Water Treatment Systems equipment and purchased it for single family home use - subject to all of the conditions, limitations and exclusions listed below. Purchasers who buy the DROP equipment for other purposes, and other component parts are subject to more limited warranties and you should read all of the terms included in this form to make sure you understand your warranty.

What is covered by this warranty?

Chandler Systems, Inc. warrants that at the time of manufacture, the DROP equipment shall be free from defects in material and workmanship as follows:

Product	Warranty
Residential Mineral Tank	10 Years
DROP Control Valves	5 Years
DROP Pump Controllers	5 Years
DROP Home Protection Valve	5 Years
Brine Tank	5 Years
DROP Hub and Remote	1 Year
DROP Wireless Low Salt Alarm	1 Year
Other Accessories and Parts	1 Year
Brine Tank Components	1 Year

\* This warranty does not include media and/or cartridge filter elements.

### Additional Terms & Conditions

What Chandler Systems Inc will do if you have a covered warranty claim; Chandler Systems Inc will at its discretion either make repairs to correct any defect in material or workmanship or supply and ship either new or used replacement parts or products. Chandler Systems, Inc. will not accept any claims for labor or other costs.

### Additional Exclusions and Limitations

This warranty is non-transferable and does not cover any failure or problem unless it was caused solely by a defect in material or workmanship. In addition, this warranty shall not apply:

- If the equipment is not correctly installed, operated, repaired and maintained as described in the Installation, Operating & Maintenance Instructions Manual provided with the product.
- Defects caused as a direct result of the incoming water quality
- If the DROP equipment is not sized appropriately for the intended job.

- To any failure or malfunction resulting from abuse (including freezing), improper or negligent; handling, shipping (by anyone other than DROP)
- If the unit has not always been operated within the factory recommended temperature limits, and at a water pressure not exceeding 125 psi, during storage, use, operation, accident; or alteration, lighting, flooding or other environmental conditions.
- To any failure or malfunction resulting from failure to operate the system with potable water, free to circulate at all times; and free of damaging water sediment or scale.
- This warranty does not cover labor costs, shipping charges, service charges, delivery expenses, property damage, administrative fees or any costs incurred by the purchaser in removing or reinstalling the water management equipment.
- The warranty does not cover any claims submitted more than 30 days after expiration of the applicable warranty, and does not apply unless prompt notice of any claim is given to an authorized DROP Dealer or to DROP or a designated contractor is provided access to the installation and to the water treatment equipment.

THESE WARRANTIES ARE GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. NO DROP REPRESENTATIVE OR ANY OTHER PARTY IS AUTHORIZED TO MAKE ANY WARRANTY OTHER THAN THOSE EXPRESSLY CONTAINED IN THIS WARRANTY AGREEMENT.

### Additional Warranty Limitations

ANY IMPLIED WARRANTIES THE PURCHASER MAY HAVE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE TIME PERIODS SPECIFIED ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

### Limitations of Remedies

The remedies contained in this warranty are the purchaser's exclusive remedies. In no circumstances will Chandler Systems, Inc. or the seller of the product be liable for more than, and purchaser-user's remedies shall not exceed, the price paid for the product. In no case shall Chandler Systems, Inc. or seller be liable for any special, incidental, contingent or consequential damages. Special, incidental, contingent and consequential damages for which Chandler Systems, Inc. is not liable include, but are not limited to, inconvenience, loss or damage to property, consequential mold damage, loss of profits, loss of savings or revenue, loss of use of the products or any associated equipment, facilities, buildings or services, downtime, and the claims of third parties including customers. Some states do not allow the exclusion or the limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

### What to do if you have a problem covered by this warranty

Any warranty coverage must be authorized by Chandler Systems, Inc.. Contact the person from whom you purchased the product, who must receive authorization from a DROP Dealer.

If your product is new and not used and you wish to return it, contact your DROP Dealer.



# The Smart Water System

220 Ohio Street  
Ashland, OH 44805

1.833.289.3767  
drop.pro



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