

Commercial Systems & Equipment



we keep things flowing.

Are you dealing with these Water Problems?

SCALE - More than 85% of American businesses have **hard water**. Individually, the problems may not seem that big, but year after year they can add up to be very costly!

CHLORINE - Chlorine is often added as an inexpensive method to control bacteria, most viruses and some protozoa that may be picked up, through the miles of underground pipe.



Inefficient Laundry Service



Leaking Fittings & Valves



Expensive Cleaning Supplies



Damaged Pipes & Appliances



Clogged Shower Heads & Faucets



**ELIMINATE THE PROBLEMS BY
CHANGING YOUR WATER**



FACILITIES



OFFICE BUILDING

15 G.P.D./Person Full Line 2 G.P.D./Person

MOTEL

100 G.P.D./Room Full Line 40 G.P.D.

MOBILE HOME COURT

Estimate 3 People/Home 60 G.P.D./Person

NURSING HOMES

100 G.P.D./Bed Full Line 50 G.P.D./Bed Hot Only

HOT ONLY RESTAURANTS

10 G.P.D./Person Full Line 4 G.P.D./Person

SCHOOLS

25 G.P.D./Student Full Line w/Showers

10 G.P.D./Student Full Line w/o Showers

TRAILER PARKS

100 G.P.D./Space



CHURCH

2 G.P.D./Person



DAYCARE

12 G.P.D./Child

FULL LINE BEAUTY SHOPS

200 G.P.D./Per Operator

BOILERS

Call for data

BOWLING ALLEYS

75 G.P.D./Lane

DORMITORIES

40 G.P.D./Person

FACTORIES

35 G.P.D./Person/Shift

w/Showers Full Line

Note: Estimate any process water separately.

FARM ANIMALS

Horse 10 G.P.D./+5 in stables

Milking Cow 15 G.P.D

Dry Cow 10 G.P.D

Sheep 2 G.P.D

APARTMENTS

One Bedroom Units 1.75 People/Apt

Two Bedroom Units 3 People/Apt

Three Bedroom Units 5 People/Apt

Full Line 60 G.P.D./Person Hot Only 25 G.P.D./Person

BARBER SHOPS

55 G.P.D./Chair



HOSPITALS

250 G.P.D./Bed Full Line

WATER SYSTEM CONDITIONS

Water Analysis Available Yes No
 Existing System Yes No
 Power Yes No
 Drain Access Yes No

Application _____
 GPM _____
 Source Water _____
 Pipe Size _____
 Doorway size _____
 Space Available _____



COMPONENTS



VALVES	Model	Material	Mounting Base	Inlet/Outlet connection	Drain Size	Service Flow Rate (GPM max)	Backwash Rate (GPM max)	Tanks	Meter
	WS125	Noryl	2-1/2"	3/4"-1.5"	3/4" NPT	34	32	6"-21"	Internal
	WS15EE	Brass	4"	1.5" NPT	1.25" NPT	70	52	14"-30"	external
	WS15PEE	Noryl	4"	1.5" NPT	1" NPT	60	43	14"-24"	external
	WS2EE	Brass	4"	2" NPT	1.5" NPT	115	80	14"-48"	external
	WS2EE/QC	Brass	4", 6"F	2" NPT	1.5" NPT	125	85	21" - 48"	external
	WS2HF	Brass	4", 6"F	2"NPT	2" NPT	165	175	24"-63"	external
	WS3H	Brass	6"F	3" NPT	3" NPT	250	220	24"-96"	external

Operating Temp: 40-110F for all valves Operating Pressures: 20-125psi for all valves Options: Side mount, flange connections are limited by valve and tank options

MEDIA		Weight (ft3)	Service Flow Rate (Sq. Ft.)	Backwash Rate (Sq. Ft.)	Bed Depth (Inches)	Bed Expansion %
	Resin	52	5-20	3-8	30	50
	Carbon	27.5	5	10-12	26-30	30-40
	Filter – OX	84	12	12	30	40
	Turbidex	50	12-20	14-18	30-48	50

TANK SIZES	Diameter	Height	Opening	Media Volume	Square Ft. Bed Area	Cu. Ft. Per Inch of Height
	12	52	2.5"	2	0.79	0.07
	13	54	2.5"	2.5	0.92	0.08
	14	65	2.5", 4"	3	1.07	0.09
	16	65	2.5", 4"	4	1.4	0.12
	18	65	2.5", 4"	5	1.77	0.15
	21	62	2.5", 4", 6"	7	2.4	0.2
	24	72	4", 6"	10	3.14	0.26
	30	72	4", 6"	15	4.9	0.41
	36	72	4", 6"	20	7.07	0.59
	42	72	6"	30	9.62	0.8
	48	72	6"	40	12.57	1.05
	63	67	6"	50	21.56	1.80
	63	86	6"	70	21.56	1.80



Options: Hub and Lateral, Side mount, flange connections are limited by valve and tank size options, skid mounted, metal and composite tanks



SYSTEM DESIGN



ACCESSORIES



SINGLE TANK LIGHT DUTY APPLICATIONS

ADVANTAGES:

Small footprint, good for "hot" side applications, cost effective.

CONSIDERATIONS:

Required Down Time for regenerations, more wear on parts, limited flow rates

TWIN TANK CONTINUOUS FLOW APPLICATIONS

ADVANTAGES:

24hr Service, Efficient use of Capacity, Capable of Treated water regeneration

CONSIDERATIONS:

Large Footprint, More Equipment & Plumbing, Higher Capital Costs

TRIPLEX HIGH FLOW APPLICATIONS

ADVANTAGES:

Redundancy, Higher Flow Rates, Progressive flow, Lockout capability, smaller Tank and Valve requirements, 24hr Service, Efficient use of Capacity, Capable of Treated water regeneration

CONSIDERATIONS:

Large Footprint, More Equipment & Plumbing

QUAD SYSTEM HIGH CAPACITY APPLICATIONS

ADVANTAGES:

High flows, Redundant Capacity, 24hr Service, Efficient use of Capacity, Capable of Treated water regeneration

CONSIDERATIONS:

Very Large Footprint, Multiple Brine Tanks, More Equipment & Plumbing

PROGRESSIVE FLOW HIGHEST SYSTEM EFFICIENCY

ADVANTAGES:

Highest Efficiency use of Capacity, Capable of Treated water regeneration, Downloadable water use history and real time data

CONSIDERATIONS:

Large Footprint, More Equipment & Plumbing, Higher Capital Costs System



Service Wrench



1.25"-3" Stainless Steel Drain Line Flow Controls



Side Mount Adapter



1.5"-3" Stainless Steel Inline Meters



4" Tank Adapter



1.25"-3" Motorized Alternating Valves



1", 1.5" & 2" Plastic Meter



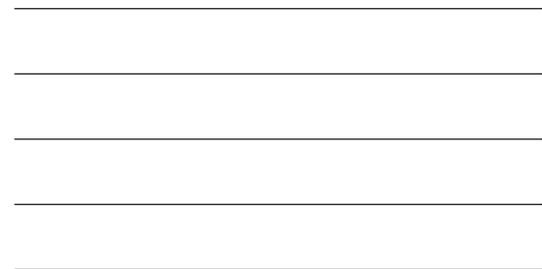
1.25"-3" No Hard Water By-Pass Valves



6" Flange Assembly



System Contoller





CHANGING LIVES BY...
***CHANGING
WATER***



**Safeway
Water®**

AUTHORIZED DEALER

