Fluid Dynamics
Hard water solutions since 1973

SCALETRON®

Commercial Scale Prevention

Specification Sheet

Chemical free scale prevention without the use of power or magnets

Fluid Dynamics provides an industry proven catalytic solution for scale prevention as an alternative to conventional ion exchange systems that have been used in the past. The commercial product Scaletron replaces a section of pipework and can be specified without the need to make provision for floor space or power.

The Scaletron consists of a non-sacrificial lead free catalytic core made from a special alloy housed within a non-reactive stainless steel (304) tube. The use of di-electric fittings is not necessary when specifying a Fluid Dynamics catalytic product.

Certified Lead-Free

Units of up to 3" diameter shown

Features:

- Chemical Free and Environmentally Friendly
- No Power Requirement
- No Waste Water
- No Maintenance
- Scientifically Confirmed Technology
- Uninterrupted Water Flow
- No Magnets
- Product Life Expectancy: 15+ Years

Installation:

The Scaletron can be easily installed to treat an entire system or to protect individual components within a system. There are numerous commercial applications from recirculating systems to single pass applications such as water delivery pipe lines to buildings.

Technology Backed by Science, Endorsed by Industry™

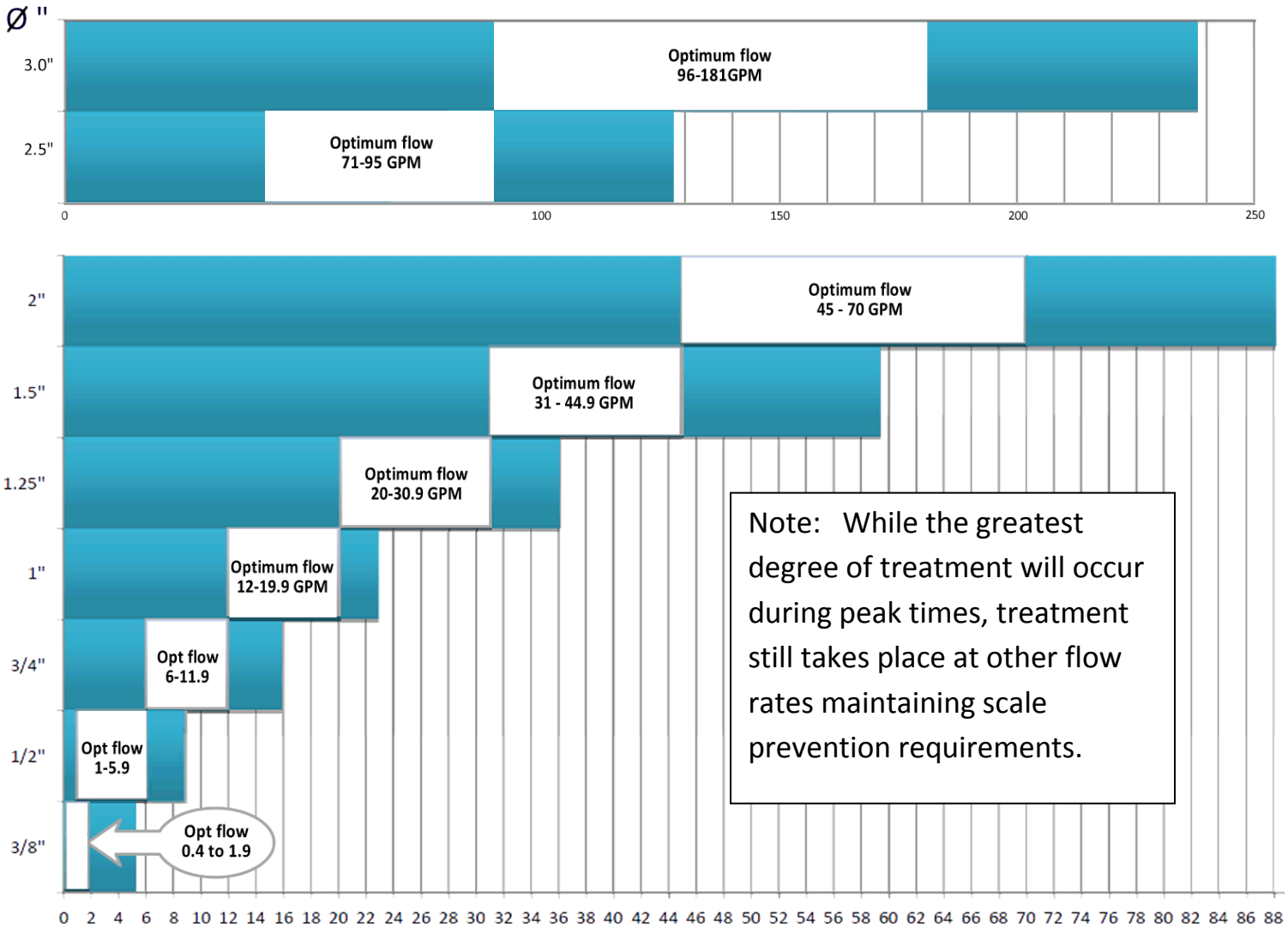
Selection Guidance:

Peak and average flow rates should be considered when selecting the correct Scaletron for a system.
Once the flow has been determined the "Product Selection Guidance Chart" shown below will provide assistance in selecting the diameter suited to the application.

The goal is to determine and select the minimum diameter unit that can be used without incurring unacceptable pressure losses at peak demand periods.

For example: A hotel on city water is found to have peak consumption between 6 and 8 am in the morning. The minimum sized diameter unit capable of supplying the peak time flow without unacceptable pressure losses should be selected.

Diameter



** Actual maximum throughput (GPM) will vary according to system pressure.*

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Fitting Options:

NPT

Quick Fit

ASA 150 Flanges

<u>Connection Sizes:</u> 3/8” through 3” diameter **<u>Flow Rates:</u> 0.44GPM to 237.8GPM**

SCALETRONS	*Length*	*Diameter*	*Weight*	*NPT**
0038st	*10"*	*3/8"*	*.44 LBS*	*3/8"*
0050st	*10"*	*1/2"*	*.75 LBS*	*1/2"*
0075st	*12"*	*3/4"*	*2.3 LBS*	*3/4"*
0100st	*12"*	*1"*	*3.3 LBS*	*1"*
0125st	*24"*	*1.25"*	*8.6 LBS*	*1.25"*
0150st	*24"*	*1.5"*	*10.1 LBS*	*1.5"*
0200st	*24"*	*2.0"*	*15.2 LBS*	*2"*
0250st	*30”*	*2.5”*	*TBD*	*2.5”*
0300st	*32”*	*3.0”*	*TBD*	*3.0”*

**** Quick Fit fittings are also available as an option on sizes 1.25” diameter and above.***
**** ASA 150 Flanges are also available upon request***
****Maximum temperature 250^{O}F***

Disclaimer: Failure to consult with the company to obtain approval for installations on steam boilers and cooling towers (including evaporative condensers) will void the products warranty. No liability will be accepted for unauthorized installations on the aforementioned equipment.

Pressure drop graphs follow…

Pressure Drop Graphs

1/2”

	2.6 GPM	3.5 GPM	4.4 GPM	5.2 GPM	6.6 GPM	7.6 GPM	8.8 GPM	9.6 GPM
psi	1.45	2.65	3.33	4.49	6	8.7	11	13.77

3/4”

	0 GPM	4.4 GPM	6.6 GPM	8.8 GPM	11 GPM	13.2 GPM	15.4 GPM	17.6 GPM	19.8 GPM
psi	0	0	0.79	2	3.3	5.2	7.6	9.8	12.4

1”

	0 GPM	4.4 GPM	8.8 GPM	11 GPM	13.2 GPM	15.4 GPM	17.6 GPM	19.8 GPM	22 GPM	24.2 GPM	26.4 GPM
PSI	0	0	0	0.58	1.16	1.66	2.32	2.9	3.62	4.56	5.5

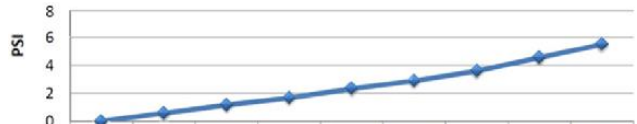
1-1/4”

	20 GPM	22 GPM	24 GPM	26 GPM	28 GPM	30 GPM	32 GPM	35 GPM	42 GPM
PSI	0	0	0	0.58	1.16	1.66	2.32	2.9	3.6

1-1/2”

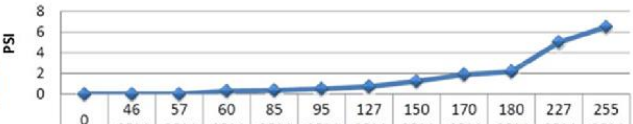
	30 GPM	40 GPM	44 GPM	49 GPM	52 GPM	59 GPM	61 GPM	66 GPM	70 GPM
PSI	0	0	0.87	1.3	2.46	3.77	4.49	5	5.8

2”



	52 GPM	59 GPM	66 GPM	73 GPM	80 GPM	84 GPM	90 GPM	95 GPM	99 GPM
PSI	0	0.58	1.16	1.66	2.32	2.9	3.6	4.56	5.5

2-1/2”



	0	46 GPM	57 GPM	60 GPM	85 GPM	95 GPM	127 GPM	150 GPM	170 GPM	180 GPM	227 GPM	255 GPM
PSI	0	0	0	0.29	0.36	0.5	0.72	1.23	1.88	2.17	5	6.5

3”

	0	80 GPM	127 GPM	155 GPM	180 GPM	220 GPM	255 GPM	285 GPM	310 GPM
PSI	0	1.16	2.17	2.9	4.27	6.6	9.13	11.09	13.3