



# COLLOID-A-TRON<sup>®</sup>

Industrial 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 Colloid-A-Tron replaces a section of pipework and can be specified without the need to make provision for floor space or power.

The Colloid-A-Tron 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.

### 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 - 25 Years

Certified Lead-Free



16" diameter unit shown

Colloid-A-Tron sizes range from 2" to 72" diameter

Technology Backed by Science, Endorsed by Industry<sup>™</sup>





**Selection Guidance:**

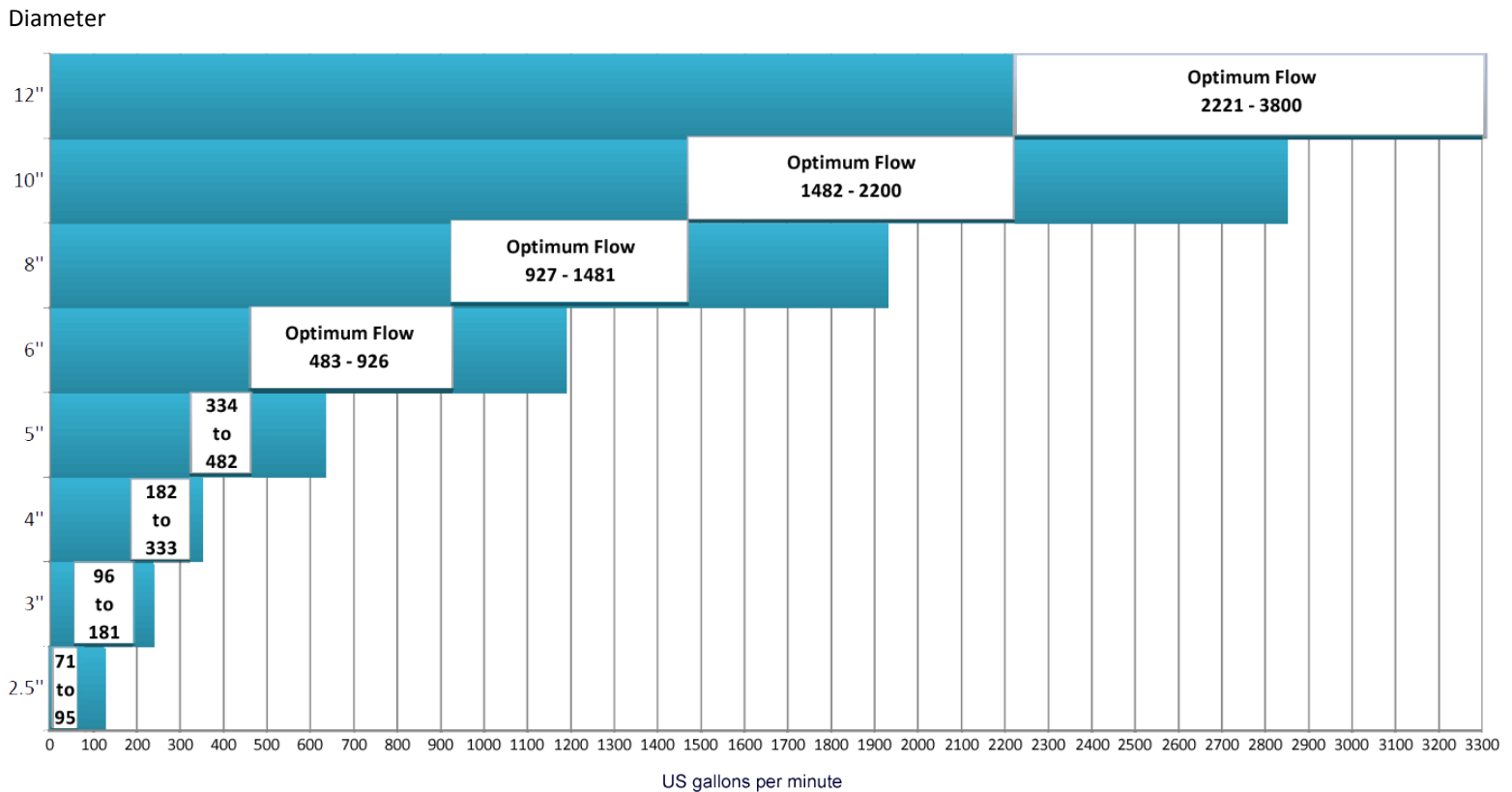
Peak and average flow rates should be considered when selecting the correct Colloid-A-Tron for a system. Once the flow has been determined the “Product Selection Guidance Chart” shown below will provide assistance in selecting the diameter suited to the application.

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.

Note: While the greatest degree of treatment will occur during peak times, treatment still takes place at other flow rates maintaining scale prevention requirements.

**Product Selection Guidance Chart:**



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





**Installation:**

The Colloid-A-Tron can be easily installed to treat an entire system or to protect individual components within a system. There are numerous applications from recirculating systems such as cooling towers to commercial/industrial single pass applications such as water delivery pipe lines to large buildings.

**Fitting Options:**



**Connection Sizes: 2.5” through 6” diameter**

<b>COLLOID-A-TRON</b>	<b>Length</b>	<b>Diameter</b>	<b>Weight</b>	<b>Bursting Pressure</b>
<b>0250cat</b>	<b>36"</b>	<b>2.5"</b>	<b>46.3 LBS</b>	<b>10,591 PSI</b>
<b>0300cat</b>	<b>36"</b>	<b>3"</b>	<b>57.3 LBS</b>	<b>9,257 PSI</b>
<b>0400cat</b>	<b>36"</b>	<b>4"</b>	<b>92.6 LBS</b>	<b>7,900 PSI</b>
<b>0500cat</b>	<b>36"</b>	<b>5"</b>	<b>132.3 LBS</b>	<b>8,958 PSI</b>
<b>0600cat</b>	<b>36"</b>	<b>6"</b>	<b>163.1 LBS</b>	<b>6,339 PSI</b>

**Please Note:** The Colloid-A-Tron can be produced for very high capacity systems. A 72” diameter unit is proposed to treat an entire city’s water supply in Peru.