

SCALETRON®

The most effective *green* way to treat
hard water



Fluid Dynamics

Hard water solutions since 1973

WATER TREATMENT SOLUTIONS THAT WORK FOR YOUR BUSINESS.

Water treatment is our speciality. We understand water and the causes of limescale like no other company and this is the reason we are so successful in every project we undertake.

We are passionate about energy and the environment, every one of our products is designed to prevent or reduce the environmental impact associated with traditional water treatment methods whilst also offering the most cost effective solution with no maintenance requirements and no energy use.

Fluid Dynamics serves a wide ranging multi-national client base stretching across the world with experience in every sector of business from private individuals to government and blue chip companies



	SCA10	SCA15	SCA22	SCA28	SCA35	SCA42	SCA54
Description	10mm Scaletron	15mm Scaletron	22mm Scaletron	28mm Scaletron	35mm Scaletron	42mm Scaletron	54mm Scaletron
Length A	254mm	254mm	305mm	305mm	609mm	609mm	609mm
Connection Size B	10mm	15mm	22mm	28mm	35mm	42mm	54mm
Connection Description	<i>High quality brass fitting manufactured to BS EN 1254. Supplied with end nut and brass olive. Suitable connection for matching PVC, Copper, Stainless Steel. Alternative olive maybe required when connecting to stainless steel or PVC. WRAS approved. Scaletron can also be supplied with no fittings</i>						
Housing Material	<i>Stainless Steel conforming to EN10312:2002. Alternative housings such as copper or plastic can be supplied</i>						
Weight (unpacked)	0.2kgs	0.34kgs	1.05kgs	1.5kgs	3.9kgs	4.6kgs	6.9kgs
Pressure rating	<i>Water Temperature.....Cold: Max 7bar...Ambient Max 6bar...Hot: Max 5bar. For higher pressure use industrial range of products</i>						
Flow Range	0.1-1.2 m3/hr	1-1.6 m3/hr	1.4-3.6 m3/hr	3-5.2 m3/hr	4.4-8.2 m3/hr	6.8 13.5 m3/hr	11.5-20 m3/hr
PH Range	<i>Treatment range for Scaletron is between 6.5 - 8.5. Outside of this contact Fluid Dynamics for industrial range</i>						
Temp Range	5 - 100 °C						

www.treatwater.com,
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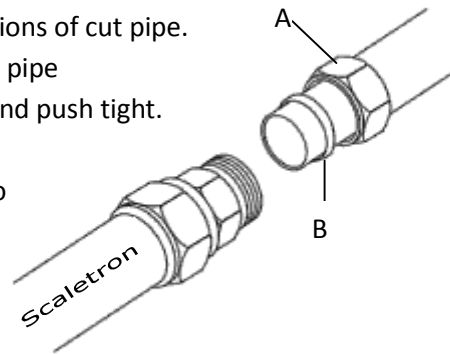


Installation & Maintenance.

Installation of Scaleton is simple, requires no specialist tools and requires no electrical connections or earthing.

- To install select location with appropriate length of pipe to remove. Use the nuts as highlighted on the right as measuring guide.
- Once the pipes have been cut square, make sure all components are clean before installing Scaleton

1. Place the two end nuts (A) over both sections of cut pipe.
2. Insert olives (B) onto both ends of the cut pipe
3. Place the Scaleton fitting over the pipe and push tight.
4. Hand tighten nut onto fitting
5. Continue to tighten using two spanners to ensure a tight seal



PTFE/Teflon tape can also be used to cover the threads of the fittings

Maintenance:

Scaleton is designed to run for up to and beyond ten years whilst requiring no maintenance for its entire life-span. In some installations where there is high iron content this may build up inside the Scaleton and may require cleaning. If this is the case the Scaleton can be removed periodically and cleaned using an acidic solution. Fill interior tube of Scaleton with light acid solution or de-scaler and leave overnight or for approx 12 hours.

Effect on Pressure:

To minimise effect on pressure losses ensure Scaleton is sized according to flow rate or intended system. Providing this is the case Scaleton will have a minimal effect on pressure losses, for exact details contact Fluid Dynamics with pressure and flow rate of desired system.



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Scaletron is widely used and specified in the commercial sector around the world. Below is an example of just some of the suitable applications and their benefits. Installation of Scaletron in any hard water system will usually provide a return of investment inside 12 months.

Installation & Maintenance.

Application	Installation requirements	Benefits over no treatment
Water Heater/Calorifier	1 Scaletron installed on CWS inlet to each hot water heater	Prevent need for cleaning, can extend life of elements/serviceable parts. Reduce energy consumption compared to scaled up water heater
Ice Machine	1 Scaletron installed on CWS inlet to each ice machine	Eliminate cleaning of cube trays, more consistent shaped and cleaner looking ice
Solar heating system	1 Scaletron installed on inlet to solar panel network	Maintains efficient heat transfer, prevent clogging and necessity of cleaning of panels
A/C Chillers	1 Scaletron installed on recirculating line to chiller/A.C system	Prevent/remove scale inside chiller, eliminate certain chemicals. Prevent energy waste
Hot/Cold water network	1 Scaletron installed on inlet to water network	Prevent scale formation inside pipes, prevents pressure losses, prevent the need fo pipe flushing
U.V Sterilisation Equip.	1 Scaletron installed before each piece of U.V equipment	Prevent need for cleaning, maintains efficient sterilization

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