





Launched in 1982, the Scaletron is one of our flagship models designed exclusively for the commercial and industrial sectors. It's designed to reduce and prevent limescale build-up across a variety of commercial and industrial applications and settings - improving efficiency and extending the lifespan of heating equipment. Its versatility and effectiveness make it a favourite for our commercial customers, and having won an industry award, it provides complete peace of mind.

#### **Benefits**

- √ Prolongs the life of water using applications and heating systems
- ✓ Reduces limescale build-up in pipes, valves, pumps and heating elements
- √ 10 year pro-rata warranty
- ✓ Environmentally friendly reduces energy consumption, carbon emissions & footprints
- ✓ Lower energy consumption = lower energy bills
- √ Stainless steel corrosion resistant
- √ Easy to install horizontally or vertically
- √ Cost effective, proven and sustainable

## Materials of construction

- √ Stainless steel housing
- ✓ Non-sacrificial catalytic semi precious alloy (lead free) WRAS approved
- √ Brass compression coupling fittings EN1254-2 or BSP Male Threads
- √ Blue plastic sleeve approved to UL 224 VW-1 & ROHS Compliant

## Life expectancy

✓ Dependant on use, a minimum of 10 years service can be expected, however it is not uncommon for our conditioners to last between 15-25 years +

## **Applications**

- √ Whole house protection
- ✓ Apartment blocks
- √ Commercial offices
- √ Schools
- √ Universities & colleges
- ✓ Leisure centres
- √ Maritime transport
- ✓ Cinemas
- ✓ Retail parks / shopping centres
- ✓ Restaurants
- ✓ Farming / irrigation
- ✓ Marine applications
  Much more!

## Regulatory

√ WRAS Approval No: 2209048



## Green technology

No power
No electrical connections
No chemicals
No consumables
No waste water



### Peace of mind

No maintenance
No servicing
No earthing or bonding required
No control box to mount





## **INSTALLATION GUIDE**

## Sizing

- √ Size matters selecting the right conditioner is critical
- ✓ Selecting the wrong size conditioner including using a larger diameter than needed can compromise water delivery and affect treatment quality
- ✓ Conditioner size should be selected based on flow rate
- ✓ In general applications where the flow rate is known to be low or there is relatively heavy scale build-up inside the pipe already. In this instance, a conditioner 1 size smaller than the pipe diameter is recommended.

## Fitting options

Fluid Dynamics has a wide range of connection options available - please ask.

### **COMMON THREADS**

### UK: BSPT CONNECTIONS (DN15 TO DN50)

1/2" to 2" BSPT (British Standard Pipe Tapered) threads These conform to BSP (British Standard Tapered)

## ■ USA: NPT CONNECTIONS (DN15 TO DN50)

1/2" to 2" NPT (National Pipe Taper) Male & Female Threads These conform to ANSI / ASME Standard B1.20.1

#### FLANGES - DN65 UPWARDS (2.5" +)

A wide range of flanges can be specified as the fitting option required

## **UK**

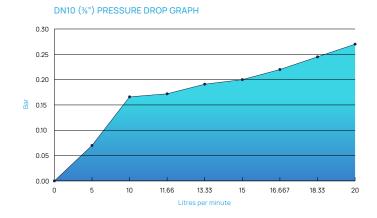
Standard fitting in the UK is the BS4504 PN16 stainless steel flanges Higher pressure ratings are available upon request Maximum operating temperature = 120 degree celsius

#### **USA**

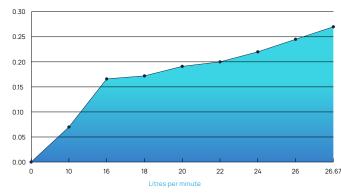
The standard flange fitting in the USA is ASA 150 stainless steel flanges
Higher pressure ratings are available upon request
Maximum operating temperature = 120 degree celsius

INSTALLATION: Our conditioners can be installed both vertically and/or horizontally

## **PRESSURE LOSSES**



# DN15 (1/2") PRESSURE DROP GRAPH





DN20 (3/4") PRESSURE DROP GRAPH

0.12

0.10

0.08

0.06

0.04

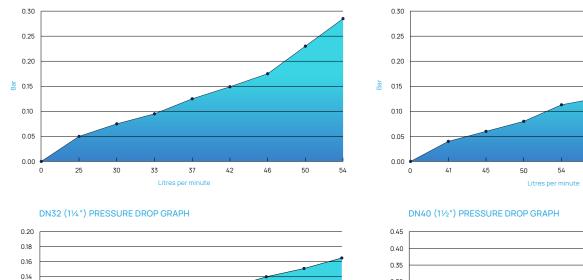
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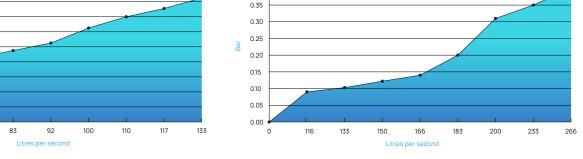


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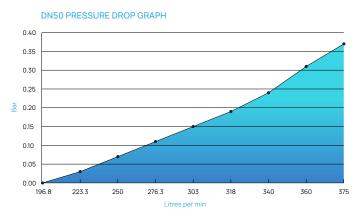
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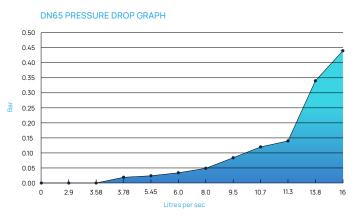
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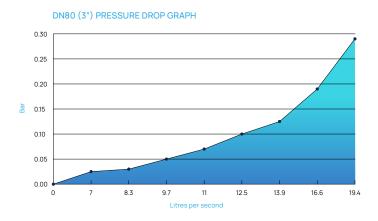


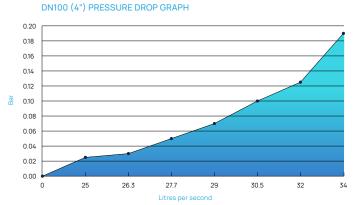


DN25 (1") PRESSURE DROP GRAPH









- ∂ Both our catalytic and combination (dual) systems have internal components designed specifically to minimise resistance as water passes through
- $\oslash$  Correctly installed conditioners will have a negligible impact on pressure drop up to a maximum of 2%







# **DATA TABLE**

Product code	Description	Connection type	Suitable for pipe diameter	Max temp (°C)	Max pressure (bar)	Optimal flow range (lpm)	Length (mm)	Weight (kg)	Housing materials
SCA10CC	Scaletron 10	10mm compression fitting	10mm	100	10	1-12	254	0.15	External: stainless steel housing & connections. (Compression Fittings available) Internal: FD catalytic galvanic alloy
SCA15CC	Scaletron 15	15mm compression fittings	15mm	100	10	8-25	254	0.2	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA22CC	Scaletron 22	22mm compression fittings	22mm	100	10	24-54	305	0.5	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA28CC	Scaletron 28	28mm compression fittings	28mm	100	10	45-90	305	0.6	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA35CC	Scaletron 35	35mm compression fittings	35mm	100	10	85 -120	609	1.9	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA42CC	Scaletron 42	42mm compression fittings	42mm	100	10	110-210	609	2.2	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA54CC	Scaletron 54	54mm compression fittings	54mm	100	10	170-330	609	2.5	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA10BS	Scaletron 10	%" BSPT	¾"(DN10) ½"(DN15)	100	16	1-12	215	0.15	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA15BS	Scaletron 15	½" BSPT	½"(DN15) ¾"(DN20)	100	16	8-25	215	0.2	External: stainless steel housing & connections.  Internal: FD catalytic galvanic alloy





Product code	Description	Connection type	Suitable for pipe diameter	Max temp (°C)	Max pressure* (bar)	Optimal flow range (Ipm)	Length (mm)	Weight (kg)	Housing materials
SCA20BS	Scaletron 20	³¼" BSPT	³¼"(DN20)	100	16	24-54	245	0.5	External: stainless steel housing & connections.
		-	1"(DN25)		-	-	-		Internal: FD catalytic galvanic alloy
SCA25BC	Scaletron 25	1" BSPT	1"(DN25) 1¼"(DN32)	100	16	45-90	260	0.6	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA32BS	Scaletron 32	11/4" BSPT	1¼"(DN32) 1½"(DN40)	100	16	85 -120	550	1.9	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA40BS	Scaletron 40	1½" BSPT	1½"(DN40) 2"(DN50)	100	16	110-210	550	2.2	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA50BS	Scaletron 50	2" BSPT	2"(DN50) 2½"(DN65)	100	16	170-330	550	3.0	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA65BS	Scaletron 65	2½" BSPT	2½"(DN65) 3"(DN80)	100	16	310-675	762	7	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA80BS	Scaletron 80	3" BSPT	3"(DN80) 4"(DN100)	100	16	600-1175	813	9.5	External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA10US	Scaletron 10	%" NPT	%"(DN10) ½"(DN15)	100	16	1-12	254		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA15US	Scaletron 15	½" NPT	½"(DN15) ¾"(DN20)	100	16	8-25	254		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA20US	Scaletron 20	3⁄4" NPT	¾"(DN20) 1"(DN25)	100	16	24-54	300		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA25US	Scaletron 25	1" NPT	1"(DN25) 1¼"(DN32)	100	16	45-90	300		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA32US	Scaletron 32	11⁄4" NPT	1¼"(DN32) 1½"(DN40)	100	16	85 -120	609		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy





Product code	Description	Connection type	Suitable for pipe diameter	Max temp (°C)	Max pressure* (bar)	Optimal flow range (Ipm)	Length (mm)	Weight (kg)	Housing materials
SCA40US	Scaletron 40	1½" NPT	1½"(DN40) 2"(DN50)	100	16	110-210	609		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA50US	Scaletron 50	2" NPT	2"(DN50) 2½"(DN65)	100	16	170-330	609		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA65US	Scaletron 65	2½" NPT	2½"(DN65) 3"(DN80)	100	16	310-675	913		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy
SCA80US	Scaletron with 3" NPT connections	3" NPT	3"(DN80) 4"(DN100)	100	16	600-1175	913		External: stainless steel housing & connections. Internal: FD catalytic galvanic alloy

<sup>\*</sup>higher pressure units available upon request



## **CERTIFIED BY**









#### PROVEN BY













