

# DSC2 Water Descaler Instruction Manual

## Items List

You should have received the following: -

- 1 x DSC2 Water Descaler
- 1 x 9V AC/DC Power Adapter
- 1 x Induction Coil Cable
- 2 x Wall Fixing Plugs
- 2 x Screws
- 2 x Cable Ties

## DSC2 Parts (refer to figure 1)

- 1 - 9V dc adapter socket.
- 2 - Yellow ramp light.
- 3 - Red power-on light.
- 4 - Green signal light.
- 5 - Coil connector sockets.

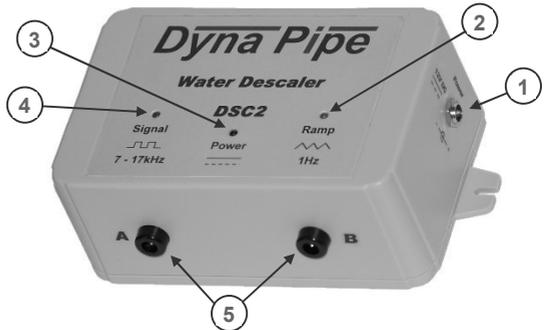


Figure 1

## Safety

- Read all instructions thoroughly.
- The water descaler and ac/dc adapter are for indoor use only.
- Do not position the descaler or ac/dc adapter where they will be exposed to water.
- Use only with the 9V dc adapter supplied.

## Technical Specification

Construction	: Microprocessor electronics in an ABS case
Power Supply	: 9V dc (ac/dc power adapter supplied)
Size	: 125mm x 80mm x 50mm
Signal Frequency	: 7,000 Hz to 17,000 Hz modulated at 1 Hz
Induction Loop(s)	: Single closed loop

## Disposal



Do not dispose of electrical products with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

## How it Works

Having bought a **Dyna Pipe** water descaler, you are probably aware of the problems caused by hard water - limescale in kettles, showerheads, washing machines, irons, etc. Not so noticeable is the limescale build-up in pipes, boilers and central heating systems. This build-up reduces the efficiency of your heating system and eventually leads to a complete blockage requiring expensive remedial action.

The conventional way to overcome hard water problems is to install a water softener. These units are very expensive, both to install and to maintain. Additionally, once treated, the water is generally not fit for drinking. Other methods of softening hard water involve adding chemicals to the water, which again make it unfit for drinking.

More recently, new methods of hard water treatment have emerged. Physical water conditioners (magnetic, electronic, etc.) are a group of devices that alter the characteristics of the water so that it acts like soft water whilst retaining essential minerals found in hard water. This means that treated water remains healthy to consume without producing unwanted limescale deposits.

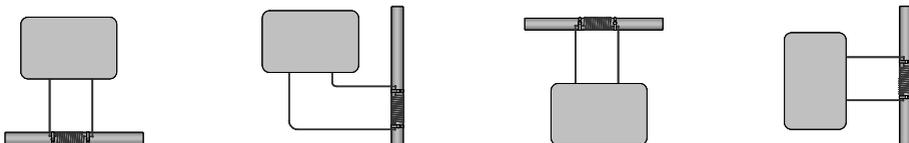
Your **Dyna Pipe** descaler is a physical water conditioner that applies an electric field to the water inside the pipe via an induction coil. A high frequency wave, applied to the induction coil, induces an electric field inside the water pipe. The frequency of the electromagnetic wave in the coil is continually changing from 7,000Hz to 17,000Hz to cover a wide range of descaling frequencies. The electric field can penetrate any material and so works equally well on copper, plastic or iron pipes.

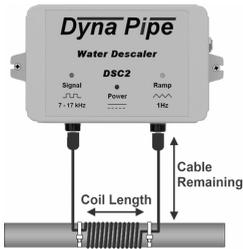
## Installation

Installation requires only basic DIY skills. Simply wrap the coil around your cold water pipe, fix the descaler to the wall, plug in the ac/dc adapter and switch on.

**Location:** Your descaler should be attached to the mains water supply as close as possible to where the pipe enters the house. This ensures maximum coverage. If the descaler cannot be fitted to the mains water pipe, consult our online guide, available at [www.dynapipe.co.uk/water-descaler-location.htm](http://www.dynapipe.co.uk/water-descaler-location.htm), for alternate locations. However, only in very exceptional cases will it not be possible to locate the descaler at its optimum position. All the information required for normal installation is contained in this manual.

The descaler can be fitted in any orientation, some of which are shown below: -





Pipe Size	15mm	22mm	28mm
Minimum N <sup>o</sup> Turns	22	15	12
Coil Length	57mm	39mm	31mm
Cable Used	122cm	116cm	115cm
Cable Remaining	2 x 24cm	2 x 27cm	2 x 27cm

**Fitting:** Having selected a suitable position, start by using a cable-tie to fix the induction coil to the pipework. The cable-tie should be positioned 24 or 27 cm from one end of the cable, depending upon the pipe size (see table above). For 28mm pipework, wrap the cable around the pipe a minimum of 12 times and fix in place using a second cable tie. More turns will create a stronger electromagnetic field in the pipework, but shorten the amount of cable left to attach to the descaler unit. The table above shows the amount of cable remaining (at each end) for a given number of turns.

Next, attach the descaler unit to the wall, making sure it is close enough to attach to the coils. Finally, insert the two coil connectors into the sockets marked A and B and plug in the ac/dc power adapter.

**Operation:** When switched on, the red LED on the descaler will light up to indicate the 9V dc supply is working correctly. When the descaling frequency completes one of its 7kHz to 17kHz cycles, the yellow light will illuminate briefly (once every second). A steady green light shows the descaler is working and descaling. If the induction coil is removed, the green light will remain lit but dim slightly.

Descaling is a slow process, so don't worry if you do not see instant results. If the green light is illuminated, the descaler is producing the correct electrical field in the pipe. Over the course of the next few months, you will gradually begin to see the benefits.

**Contact Information:** For additional product information or for technical assistance, visit [www.dynapipe.co.uk](http://www.dynapipe.co.uk). Alternatively, write to **Dyna Pipe**, 4 Privet Drive, Little Whinging, Surrey.

## Guarantees

- **2 Year Manufacturing Warranty - Dyna Pipe** guarantees to replace or repair any DSC2 water descaler that develops a manufacturing fault during the first two years after purchase. In the unlikely event that this product does develop a fault, return the unit to **Dyna Pipe**, properly packaged, together with proof of purchase. This warranty does not apply to units that show signs of abuse, misuse or tampering.
- **6 Month Money Back Guarantee**  
If after six calendar months of continuous use, you are dissatisfied with the performance of your **Dyna Pipe** water descaler, you may return it to us within thirty days of the expiry date for a full refund.

**EC Declaration of Conformity**  
**Directive 2004/108/EC (EMC Directive)**

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We: ***Dyna Pipe***  
4 Privet Drive,  
Little Whinging, Surrey

certify and declare under our sole responsibility that the following apparatus:

Name: Water Descaler  
Manufacturer: ***Dyna Pipe***  
Type: DSC2.

conforms with the essential requirements of the EMC Directive 2004/108/EC, based on the following specifications applied:

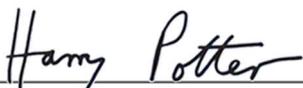
EU Harmonised Standards

EN 55014-1:2006 Part 1: Emission  
EN 55014-2:1997 Part 2: Immunity

and therefore complies with the essential requirements and provisions of the EMC Directive.

The product was first marked with CE 2009

Surrey, April 2009  
(Place, Date)

  
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H. Potter (Technical Authority)