

DSC1 Water Descaler Instruction Manual

Items List

You should have received the following: -

- 1 x DSC1 Water Descaler
- 1 x 9V AC/DC Power Adapter
- 2 x Induction Coil Cables
- 2 x Wall Fixing Plugs
- 2 x Screws
- 4 x Cable Ties

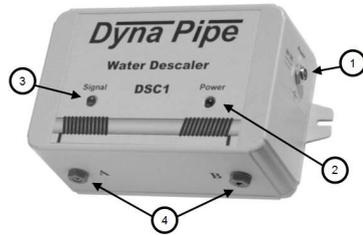


Figure 1

DSC1 Parts (refer to figure 1)

- 1 - 9V dc adapter socket.
- 2 - Red power-on LED.
- 3 - Green signal LED.
- 4 - Coil connector sockets.

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.
- Do not cut the ends of the induction coils.
- Do not strip insulation from the induction coils.

Technical Specification

| | |
|------------------|---|
| Construction | : Solid-state electronics enclosed in an ABS case |
| Power Supply | : 9V dc (ac/dc power adapter supplied) |
| Size | : 125mm x 80mm x 50mm |
| Signal Frequency | : 15,000 Hz |
| Induction Loops | : Dual open 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.

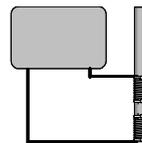
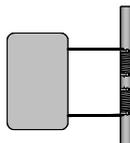
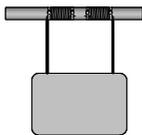
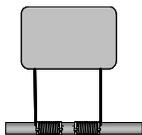
Your **Dyna Pipe** descaler is a physical water conditioner that applies an electric field to the water inside the pipe via two induction coils. A high frequency wave, applied between the two coils, induces an electric field inside the water pipe. The electric field can penetrate any material and so works equally well on copper, plastic or iron pipes.

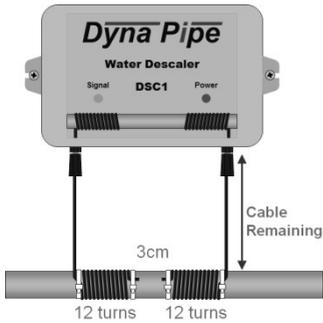
Installation

Installation requires only basic DIY skills. Simply wrap the coils 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/us/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 |
| Minimum Turns | 12 | 8 |
| Coil separation | 3cm | 3cm |
| Remaining cable length | 23cm (67cm used) | 28cm (62cm used) |

Fitting: Having selected a suitable position, start by using a cable-tie to fix the end of one of the induction coils to the pipework. For 15mm 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 for a given number of turns. Fit the second coil in a similar manner to the first, leaving a 3cm gap between the two cables.

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. The green light shows the descaler is working.

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. Alternatively, write to **Dyna Pipe**, 4 Privet Drive, Little Whinging, Surrey.

Guarantees

- **2 Year Manufacturing Warranty - Dyna Pipe** guarantees to replace or repair any DSC1 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)

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: DSC1

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

EU Harmonised Standards

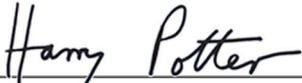
EN 55014-1:2006 Part 1: Emission
EN 55014-2:1997 Part 2: Immunity

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)



H. Potter (Technical Authority)