



**Scalebreaker LS3**



**Scalebreaker DSC**

*Regular cleaning of the fireside of boilers and heat appliances:*

- *Improves performance.*
- *Maintains efficiency.*
- *Saves on fuel costs.*
- *Minimises smoke and emissions.*
- *Reduces corrosion and maintenance.*

*Products for:*

- *Smoke tube boilers*
- *Sectional boilers*
- *modular boilers.*

**SCALEBREAKER LS3**  
**boiler cleaning liquid**

**SCALEBREAKER DSC**  
**boiler cleaning liquid**

**'Off line' cleaner for end of heating season - removes corrosion type deposits from oil fired boilers.**

**Combustion deposit remover for heat exchangers of modular and high efficiency gas-fired boilers.**

SCALEBREAKER LS3 boiler cleaning liquid is formulated to react with and dissolve the corrosion type deposits found when boilers are fired on sulphur containing fuels.

These deposits (light in colour, and very hard), are often bonded to the metal itself, requiring heavy brushing or scraping to remove.

SCALEBREAKER LS3 reacts with deposits immediately, destroying their structure and adhesion. The evolution of harmless gases breaks down and separates deposits from the bare metal so that they may be easily removed with a 'wet' vacuum cleaner.

SCALEBREAKER DSC is a convenient and easy to use product designed to dissolve and break away bonded combustion deposits on the exterior surfaces of modular boiler heat exchangers, without attacking the heat exchanger itself.

The accumulation of deposits adds an insulant layer between combustion gases and the metal, so that operating efficiency falls rapidly, whilst condensation of water vapour onto corrosive deposits can attack the metal of the heat exchanger.

Regular cleaning of heat exchangers with SCALEBREAKER DSC will prevent these problems.

How combustion deposits reduce boiler efficiency

Soot thickness, in mm	0.8	1.6	3.2	4.8
Loss in heat conductivity	9.5%	26.2%	45.3%	69%

## Application and usage

<b>SCALEBREAKER LS3</b>	<b>SCALEBREAKER DSC</b>
<b>Spray-on liquid boiler cleaning chemical for corrosion type deposits in oil and coal fired boilers.</b>	<b>Combustion deposit remover for heat exchangers of modular and high efficiency gas-fired boilers.</b>
<p><b>USAGE:</b> Loose scale and deposits should first be removed by brush or vacuum cleaner. Depending on the thickness of scale, make up a solution of one part LS3 to one, two or three parts water.</p> <p>The solution should be sprayed on to the fouled surfaces once they have cooled down to below 50°C, starting at the top, until all heat transfer surfaces have been soaked. Deposits immediately begin to effervesce and dissolve. Allow to react for 10 -15 minutes. Heavily fouled boilers may require a second application.</p> <p>At this stage, the deposits have been neutralised, and will fall away with no further action as the boiler dries out. It can be advantageous to refire the boiler for 10 minutes, causing the treated residues to break up and fall away from the heat transfer surfaces.</p> <p>When cleaning sectional boilers, the use of a "wet" vacuum cleaner is the most convenient way of removing the damp debris from the base of the boiler.</p>	<p><b>USAGE:</b> Modular boiler heat exchangers should first be removed from the boiler.</p> <p>Heat transfer surfaces / coils should be immersed in a dilute solution of SCALEBREAKER DSC in a suitable plastic tank.</p> <p>For heat exchangers with modest deposits, a solution of one part SCALEBREAKER DSC to three parts water should clean the heat exchanger within ten minutes.</p> <p>For heavily fouled heat exchangers, use one part SCALEBREAKER DSC to one part water, for at least twenty minutes.</p> <p>As an alternative, SCALEBREAKER DSC may be sprayed onto fouled heat exchangers with a Systemsure injector, and allowed to react.</p> <p>After reaction period, wash heat exchanger well with fresh clean water.</p> <p><b>CAUTION:</b> SCALEBREAKER DSC should <b>not</b> be used on boilers with aluminium heat exchangers - refer to Kamco for advice in this situation.</p>
Pack sizes: 1 litre spray packs, cartons of 4 x 5 litre.	Pack size: Cartons of 4 x 5 litre.