

Anti-freeze for heating and cooling systems

- **Low toxicity mono propylene glycol based antifreeze to BS6580, for heating and cooling systems, effective down to -32°C.**
- **Protects systems even at extremes of low temperature.**
- **Protects systems from burst pipes and radiators.**
- **Low toxicity.**
- **Suitable for multi-material systems, including iron, steel, copper, brass, aluminium and plastic.**
- **Excellent heat transfer properties.**
- **Low flammability.**



Heating and cooling systems exposed to low temperatures require protection against freezing of the water. Such systems include outside boiler houses, solar heating installations, roof top plant rooms, and exposed pipework systems, including those in the loft of well insulated houses.

Heating and cooling systems that may not be used during winter months should also be protected with antifreeze, and not drained down. It is impossible to completely empty a system, and a partially drained system is extremely susceptible to heavy oxidic corrosion, particularly of radiators, leading to sludge and corrosion problems once the system is returned to service.

FREEZBREAKER LT is recommended for use with systems where there is a possibility of mixing of heating system water with potable, domestic water, such as happens when the coil in indirect hot water cylinders leaks.

Use and application

The quantity of FREEZBREAKER LT required will depend on the degree of protection required, and the capacity of the heating or cooling system. The data below will give guidance.

A domestic central heating system with ten single panel radiators will typically have a water content of approximately 100 litres.

If system has a thermal store, add extra FREEZBREAKER to allow for the extra volume of primary water in the cylinder.

Heating systems to be treated must have an indirect hot water cylinder, and not a single feed 'Primatic' type cylinder.

CAUTION:

If systems to be treated have sludge and corrosion problems, they must be properly flushed before application, preferably with a power flushing pumps such as the Kamco Clearflow range.

Performance and dosage rate for FREEZBREAKER LT

Protection down to:	
-32° C. :	50% solution
-17° C. :	33% solution
-12° C. :	25% solution

Technical specification:

Specific gravity @ 15.5°C:	1.05
Refractive index:	1.43
Ash content:	<0.15
Flash point (closed cup):	110° min.
Water content (wt, max):	4%
(Karl Fischer)	
pH of 50% solution:	7.5
Boiling point:	155°C min.

Hard water compatibility: passes all known O.E.M. specification tests.

Pack sizes

cartons of 4 x 5 litre
25 litre plastic drums.

