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SolRnett

Non-contractual photo.

INTRODUCTION

SolRnett is a ready to use solution for the internal cleaning of solar thermal systems and is based on organic solvents and alkaline agents with good wetting characteristics.

Developed by Climalife, part of the Dehon Group, SolRnett is very effective at removing tar and other decomposition products from solar circuits.

PHYSICAL PROPERTIES

Appearance	light yellow liquid
Product pH	10.8
Density of liquid at +20°C	0.975 kg/dm^3
Absolute freezing point at 1.013 bar	-28 °C
Absolute boiling point at 1.013 bar	> 100 °C
Wetting ability at 1%	> 5 min
Flash point	None
Solubility in water	Completely soluble

USE

The successful operation of a solar thermal system is linked to the internal circuit remaining clean.

SolRnett dissolves and removes deposits and blockages caused by the degradation of the heat transfer fluid (HTF). This degradation may be due to the exposure of the heat transfer fluid to high temperatures, where breakdown of the heat transfer fluid can cause a build up of a tar like substance on the inner surface of the pipe-work which can lead to reduced flow rates and eventually a blockage.

SolRnett should be used in closed circuits, only after the heat transfer fluid has been completely drained from the solar system. The heat transfer fluid should be drained from the lowest point on the system.

SOLRNETT COMPATIBILITY WITH MATERIALS AND ELASTOMERS

SolRnett is compatible with a wide range of metals, plastics and elastomers.

Metals	Plastics	Elastomers
Aluminium – Copper Carbon Steel 302 stainless steel Brass Molybdenum Tantalum Tungsten Cu/Be C172 Mg alloy AZ32B	Epoxy resins Polyethylene Polyester Nylon	Butyl rubber* Natural rubber* Polysulphide EPDM PE chlorosulphonated Buna-S*

*slight swelling

Compatibility after one hour of exposure, at boiling point.
Exception: swelling of PTFE and silicone rubber.

SOLRNETT IMPLEMENTATION

Draining the solar thermal system:

Drain the used and contaminated HTF into suitable containers, and treat or destroy in accordance with current local regulations for waste.

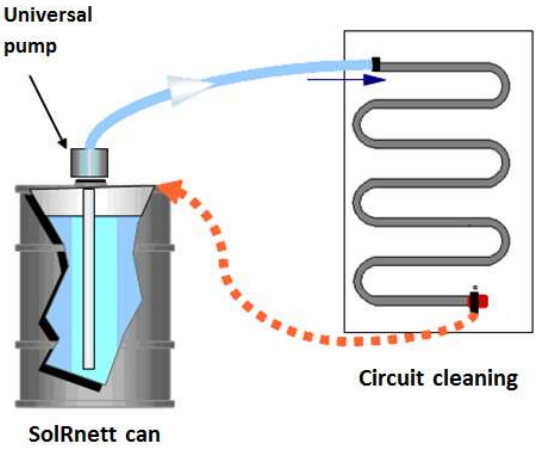
To fully remove heat transfer fluids from a blocked system, connect a pump to fill the circuit with water and push through until the liquid coming from the drain valve is clear.

Caution: where steel is present in the system, do not leave empty in a humid atmosphere otherwise the rapid formation of rust may occur.

Any corrosion debris present will block valves and the solar tube collector and should be unblocked through flushing.

Following the drain and rinse of the system, if the new coolant cannot be added immediately, keep the system filled with water until such time that it is refilled.

De-tarring the solar thermal system with SolRnett:



- After draining the system, introduce **SolRnett** into the installation using the Universal Pump, in a quantity equivalent to the volume of the solar system + 5 litres.
- Circulate **SolRnett** for 15-20 minutes with the pump and the circuit closed. In instances where the **blockage or tarring of the circuit is severe**, let it circulate for 24 hours.
- Drain the used **SolRnett** into an appropriate container for reprocessing or destruction in accordance with the hazardous waste regulations.

Recommendation: Always dispose of old and degraded heat transfer fluids and the cleanser in accordance with local regulations for waste.

- Rinse the Universal Pump with clean water
- Rinse the system with clean water

Filling the solar thermal system circuit

- Measure the pH of the water used for the final rinse, **using pH paper, make sure it is the same entering and leaving the system**. If the pH of the water is higher, repeat the rinsing operation.
- Be sure to completely drain the water from the solar system.
- Fill the system with new coolant. Installations containing steel that cannot be filled straight away should be filled with clean water; installation pending.

PRECAUTIONS

Please consult the safety data sheet prior to use.

This product is not classified as dangerous according to the regulations of the European Community.