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Heatsavr

Liquid Pool Cover System

Installation and Maintenance Instructions

**Peristaltic Pump Kit
Commercial Version 2011**



Installation Notes - Automatic Dosing System with Peristaltic Pump

To be read in conjunction with the system operating manual

The Heatsavr dosing system is a reliable, accurate and convenient way to ensure Heatsavr is added to the pool on a regular daily basis. Each dosing unit is programmable to provide the optimum dose of Heatsavr and at a scheduled time most suitable for the pool concerned.

If required, dosing units can be pre-programmed before despatch.

For full programming details see operating manual.

Contents of Kit: General

- Dosing unit with built in programmer
- Wall mounting plate
- Rawplugs and screws for mounting plate
- Stainless steel Injector (1/8" BSP) with in-built non return valve.
- Suction and delivery tubes
- Operating Manual
- Rubber bung with automatic air vent
- 25 litre day tank with bund

Standard commercial kit:

- Suction line strainer end fitting.
- Suction line weight

Optional low level alarm version:

- Suction device with low level switch



3 Dosing units serving 3 separate pools in Leisure complex, all fed from same day tank

Tools required: 1 1/32" Drill bit

1/8" BSP Tap

Injection point:

The first thing to establish when installing a system is the location of the injector. This should be situated in the return pipe of the pool filtration system, downstream of the filter and heater (if possible) and at least 200 mm from any other chemical injection points.

BEFORE FITTING THE INJECTOR TURN OFF THE MAIN FILTRATION PUMP AND ISOLATE PIPEWORK IF POSSIBLE.

Drill the pool return pipe in the chosen location (ideally on a fitting where there is greater wall thickness).

Carefully tap the drilled hole and then screw in the injector using PTFE tape to ensure a good seal.

Dosing Unit:

This should be sited away from any other pool chemicals, away from foot traffic and as close as possible to the Heatsavr injection point.

Do not locate outdoors or close to open flames or electrical heating elements.

Mount on a firm vertical surface as shown in the operating manual.

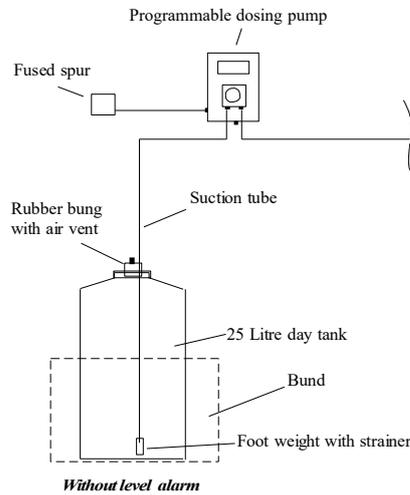
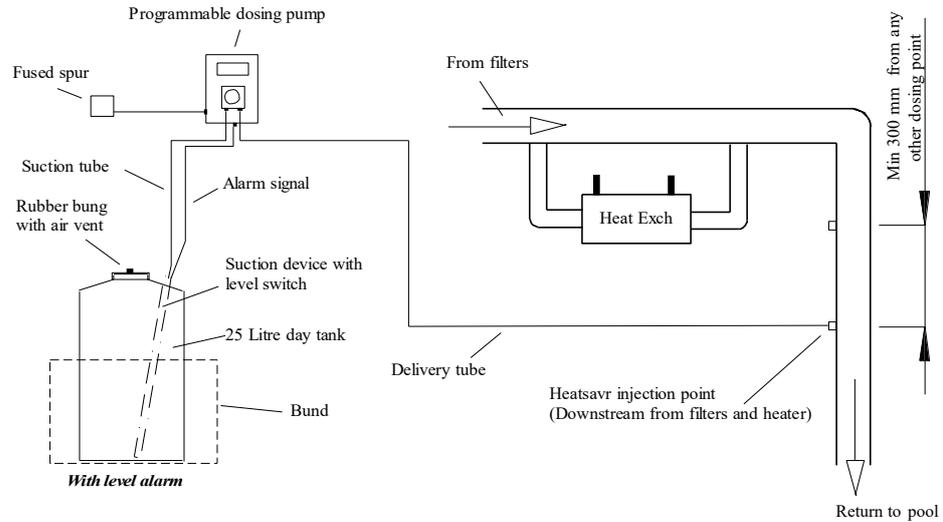
Ideally maximum lift from base of Heatsavr reservoir to pump and/or injection point should not exceed 2 metres. The standard length of delivery tube supplied with the kit is 3 metres, although additional tube is available for longer runs. If particularly long runs or higher pump pressures are required then an alternative diaphragm pump may be more suitable. Please consult Brenntag UK Limited for advice.



Reservoir:

For domestic and commercial pools with surface areas up to 100 m² the 2 litre containers in which Heatsavr is supplied can also be used as the reservoir. This should be stood in a plastic bucket or similar to act as a bund. For pools above 100m² a 25 litre day tank and bund is normally used.

Schematic:



Heatsavr dosing system schematic

Suction plumbing:

Without low level alarm - Pass one end of the clear soft plastic tube supplied through the rubber bung and draw sufficient tube through so that it will reach the bottom of the tank. Feed the weight over the end of the tube and attach the strainer end fitting. If not already fitted fit the air release valve into the other hole in the rubber bung and fit the bung firmly into the top of the reservoir. Ensure that the valve is fitted the correct way round to allow air to enter the reservoir. Connect the other end of the soft clear plastic tube on to the suction side of the pump, cutting off any surplus to requirements.

With low level alarm – If not already fitted to the day tank, insert suction probe into the opening on the shoulder of the tank and secure rubber flange with the screws provided. Probe can be adjusted through flange until its end touches the bottom of the tank. The rubber “O” rings should be moved down the shaft of the probe to secure its position. Connect the end of the soft clear plastic tube from the suction probe on to the suction side of the pump, cutting off any surplus to requirements.

Delivery plumbing:

Connect one end of an appropriate length of the opaque plastic tube to the connector on the delivery side of the pump and the other end to the connector on the injector cutting off any surplus to requirements.



- Electrical:** The dosing unit is supplied complete with a flying lead, and should either be fitted with a standard plug incorporating a 3 amp fuse or connected to a 3 amp fused.
Low level alarm option: Pass the flying lead from the suction device through the spare gland at the base of the pump case and connect into the right hand green terminal marked LEVEL at the bottom of the printed circuit board.
- Priming:** To ensure an accurate first time dose the pump and tubes require priming in order to purge out the air. This can be achieved by holding down the up (+) button for 3 seconds to start the pump manually. Press again to stop when all the air in the tube has been expelled and the system is primed.
- Programming:** Each pump requires programming to suit the pool concerned. Please refer to the Heatsavr Dosing Unit Programming Sheet for setting up the clock and adjusting the dosage rate and time.
- Liquid Storage:** Store in original container below 40°C and above 5° C in a separate place to other stored chemicals. Keep container tightly closed. Storage area should be under cover away from direct sunlight. Store away from sources of heat or ignition.
- Health and Safety:** Ensure that appropriate Health and Safety signs are displayed adjacent to the Heatsavr pump reservoir and the Heatsavr storage area.
 Ensure that all operators have copies of and read the Material Safety Data Sheet and Heatsavr Standard Operating and Handling Procedures
- Maintenance:** Dosing set tube should be replaced annually – see below.
 Check time and dosing rates periodically to ensure correct operation.

IMPORTANT - PERISTALTIC TUBE REPLACEMENT.

It is recommended that the dosing pump metering tube (peristaltic tube) is replaced at least once a year to ensure that correct dosing is maintained.

Below is a typical dosing pump schematic. Appearance of the pump may vary a little but in all cases the peristaltic tube is located by unclipping the see through plastic cover at the front of the pump compartment. First undo the unions and disconnect the main suction and delivery tubes. Release the left hand union fitting by sliding it out of its holder. By rotating the wheel assembly manually clockwise the peristaltic tube can be eased out from within the wheels. Remove completely by sliding out the right hand union.

Fit the new peristaltic tube by first securing the left hand union and feed in tube whilst rotating the pumpwheel assembly manually clockwise. Secure right hand union and reconnect the suction and delivery tubes.

