

surge-flow

Flow-with-nature dosing siphon

www.surgeflow.com.au

Surge-flow Dosing Siphon & Sump Maintenance Checklist

It is important that the sump and Surge-flow are installed correctly. This will avoid failures of the sump and siphon system. Please refer to www.surgeflow.com.au for detailed instructions.

The Surge-flow and sump have no moving pumps and operates by gravity.

At least 50 mm drop-down prior to tank inlet is required unless adequate fall is achieved over the short distance between the sump and prior component (e.g. wetland cells or septic tank). This will prevent water backing up through the system.

If the Surge-flow is not triggering, or water is trickling out to the Land Application Area, ensure the outlet fitting is sealed correctly. If the outlet is not sealed the Siphon will not start.

The Surge-flow dosing siphon should be checked annually, or if the system has not been in use for an extended period of time.

To check whether the siphon is dosing correctly:

- ❖ Open the sump.
- ❖ Discharge water into the sump.
- ❖ Determine if the Surge-flow starts correctly. When the water level is approximately 15cm below the top of the siphon, the siphon will automatically start, making a distinct “gurgle” sound, and the water level will start to fall.
- ❖ Determine if the Surge-flow stops correctly. The siphon should stop when the water level reaches the terminating end of the air release valve (i.e. the bottom of the bell). At this point, the water level will stop falling, and it may make a short, soft “slurp” sound.

Troubleshooting tips:

- ❖ Ensure the Surge-flow is primed by pouring water into the top of the stem.
- ❖ Ensure the outlet fittings are not leaking and are well sealed.

Contact Ecoteam for more information.

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