OIL STORAGE MAINTENANCE AND COMPLIANCE

SumpGuard®

Automatic sump frost protector



A cost-effective, low energy solution that protects BundGuard® in freezing conditions

SumpGuard® is a cost-effective, low energy solution that provides additional protection to Andel's BundGuard® dewatering system when installed in sites susceptible to freezing temperatures.

The SumpGuard® system automatically monitors and modulates the temperature in the sump 24/7 with a fully submersible heating element that prevents water in the sump from freezing. SumpGuard® allows the BundGuard® system to operate to full efficiency, ensuring bunded areas remain free of water wherever there is a risk of freezing weather conditions.

The industry-unique SumpGuard® system has been developed by Andel in response to site operators across Europe requiring a hassle-free solution to the challenges of operating efficiently and fully compliant in freezing conditions.

Energy efficient

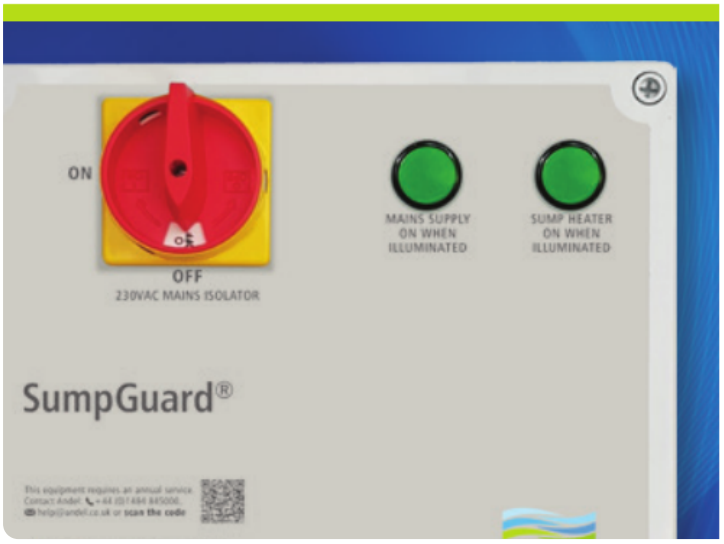
SumpGuard® is energy efficient, only using enough power to prevent water in the sump from freezing and automatically switching the heating element off when not required.

Simple installation

SumpGuard® is easy to fit and suited to both new and retrofit installations. The heating element is housed in a bracket at the base of the BundGuard® submersible sensor unit.

Benefits at a glance

- Prevents water in the sump from freezing
- Allows BundGuard® to operate efficiently in freezing temperatures
- Can be part of a new installation or easy retrofit to an existing BundGuard® system — no system upgrade required
- Cost-effective, low energy use and can save on costly repairs
- Extends pump life and protects the BundGuard® system by preventing damage caused by the effects of freezing water in the sump
- Minimal maintenance required
- Capability to connect to any BMS



SumpGuard® control unit with 230VAC mains isolator and mains-supply / sump-heater status indicators.

TECHNICAL INFORMATION

GENERAL

The SumpGuard® system comprises a control panel and fully submersible ceramic heating element and is designed to prevent water from freezing in a sump size of 600mm × 600mm × 600mm.

CONTROL PANEL

Power supply: 230VAC at 2 amps maximum. RCD and over-current protected supply

Dimensions: W 285mm × H 235mm × D 112mm

Construction: IP68 ABS enclosure with a MAINS ON lamp, HEATER ON lamp and rotary isolator switch

HEATING ELEMENT

Power supply: 230VAC at a current load rating of approx. 1.3 amps, maximum power consumption 300 watts

Dimensions: W 55mm × H 286mm × D 32mm

Construction: Fully submersible 300 watt ceramic heating element protected with a hard plastic mesh

Air temperature activation: Set by user (factory default setting at +5°C)

Air temperature deactivation: When the temperature rises above the set point

HEALTH AND SAFETY

Because the system uses a submersible electrical device in water, strict levels of safety should be followed. All electrical supplies must be isolated before handling or maintaining this system. Installation must only be carried out by trained personnel or a qualified electrician. All parts in the SumpGuard® construction are CE and UKCA compliant.

Standards & certifications

- CE
- UKCA