

## Not just water pumps can freeze in seriously cold conditions.

During the toughest days of our winters it is possible that even waste fluid can freeze. Whilst we are aware that freeze protection for waste pipes isn't as available as it maybe for water pipes, we still recommend that sites do all they can you protect their waste system from freezing.

It is our duty to ensure you are aware to try and protect our sewage pumps from freezing as this could cause breakdowns in the equipment, if the waste freezes inside the pump the impellor wont spin resulting in a thermal over load trip.

Freezing may even cause the pump to try and operate but unable to turn before the pump motor overheating and the motor windings failing.

A pump on hire is the responsibility of site to ensure its good running and maintenance and any call outs related to freezing conditions would therefore be chargeable to the customer.

Protection of the control boxes is also a must to ensure it is protected from water, these must be fixed upright and not placed on the floor or fixed upside down.

Where possible we recommend the controllers be fixed internally for even more protection against the elements.



Steps to prevent freezing are not guarantees against extreme conditions.

### In short recommendations

- A timber box built to protect the pump from freezing, **this must allow clear ventilation for the pump to breathe.** (we can quote for this option)
- The controller is fixed internally or steps taken for extra protection from the elements.
- The controller if fixed to a solid surface upward facing.
- Freezing can cause electrical trips or motor burn out.
- Rockwool insulation placed under the pump if sat directly on the natural ground for added insulation. **Any insulation used must be flame retardant.**

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