

WINTER PUMP TIPS



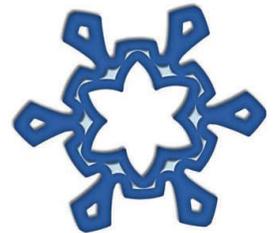
What is the proper way to shut-down and store a Carry Submersible or Fountain pump for the winter? Shut-down is just a matter of disconnecting or turning off the power source. If there is no danger of the sump freezing, then it is not necessary to shut down. But if the possibility exists that any part of the sump might freeze, shut down is advised. If the system uses floats to control the pump, remember that if a float becomes frozen and the pump is still running, the pump will pump out all the water below the frozen float. Now the pump is in danger of running "dry" and ruining the motor.

The Franklin Electric motors used in Carry submersible pumps are water lubricated; the solution inside is a mixture of de-ionized water and Propylene Glycol (a non-toxic antifreeze). This solution will prevent freezing in temperatures to -40°F (partial freezing will occur below 27°F , but no damage will occur). It should be noted that over time this solution can become diluted, so older motors are not as protected as new motors. Pumps with Sumoto motors are lubricated with a special food grade lubricant and are not susceptible to freezing.



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It is advised that pumps be stored in their wells during shut-down periods if the water surrounding the pump (below *minimum submergence* level) is not subject to freezing. Water above this level that freezes will not harm a pump that is shut-down. If it is necessary to remove the pump, storage in clean well water (not subject to freezing) above the *minimum submergence* level is recommended. If this is not an option, store the pump in an area where it will not be subject to freezing temperatures. A small amount of motor liquid may be lost with no damage, as an excess is provided. No other special care is needed.



When all danger of freezing is past, your Carry pump will be ready to perform again. Make sure that the sump is cleared of any debris that may have accumulated over the winter. Check that the water is above the *minimum submergence* level of the pump. Flip on the power and watch your Carry pump do its job!

