



Innovation in and out of parlour

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Variable Speed Milk Pump Control



The new ATL Variable Speed Milk Pump Control is designed to make milk pumping more efficient and milk cooling more effective.

The system controls the milk pump to ensure that milk is pumped through the plate cooler at a slow, constant speed. This ensures the plate cooler can extract as much heat out of the milk as possible before it reaches the bulk tank. Therefore, reducing the energy consumption and costs of cooling the milk in the bulk tank.

Additionally, the system preserves the milk quality by eliminating a start and stop process with slow, gentle and continual transportation of the milk.



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How does it work?

- System uses multi-level float that provides up to 24 different speeds during milking.
- The milk pump will switch on at a slow speed when the milk is at a low level in the receiver.
- The speed will only increase if the milk level in the receiver increases to a higher level.
- During washing the milk pump runs at its maximum speed.
- Not all 24 speeds can be used as it depends upon the size of the receiver and where the top sensor is set during setup.



Benefits

- Variable Speed Milk Pump Control allows more efficient pre-cooling of the milk.
- The milk cools faster due to a constant flow rate through the plate cooler. Therefore, reducing the temperature of the milk arriving in the bulk tank.
- This reduces the milk cooling time in the bulk tank, allowing shorter compressor on times and reducing energy consumption and cooling costs.
- The slow, gentle and constant flow also preserves milk quality when compared to the start and stop process of a standard milk pump control.



Functions

- Control unit and inverter drive in separate boxes to maximise flexibility during installation.
- Control unit connects to the plate cooler water valve and plate cooler bypass valve to control the water flow through the plate cooler so that cooling water is not wasted.
- Run pump in automatic and manual mode milking and washing.
- Option of compressed air purge of the milk delivery line.
- Set minimum and maximum milk pump speeds to match your milk pump specifications.



Inverter Unit

- Available for 1 phase and 3 phase input versions, for motor sizes 0.75kW, 1.1kW, 1.5kW and 2.2kW.
- Inverter unit includes filter and choke to prevent electrical interference and is therefore suitable for use with 134.2kHz RFID systems.
- Clear LED's display frequency of milk pump motor and other relevant information.
- Includes manual run setting on the front of the inverter for emergency care.