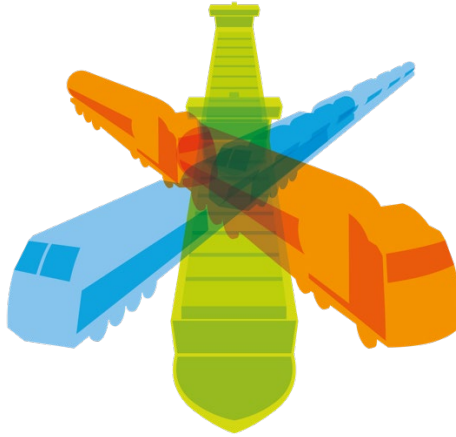




Tank trailer heating

Procedure

Our HACCP analysis identifies two major risks that may affect the condition of the product:

1. Missing or incorrect sealing
2. The product temperature is not maintained

The temperature of many liquid products must be maintained. Preheating is also used to prevent residual loads and speed up cleaning. It is therefore essential that heating and cooling systems are always in good working order and set correctly. The driver is responsible for ensuring correct operation.

Whenever you couple a tank trailer, always check the heating system. Do this even when the planned product does not require heating, as the assignment may change. Report defects to your planner immediately.

The product temperature must be stated on the CMR after loading and before unloading. Always check this.

Heating: several options are available:

1. Connect to the truck; not all trucks are equipped with a heat-exchanger system.
2. Connect to a 380 V power supply.



1. Connecting to the truck

Some trucks are equipped with a heat exchanger. An electric pump circulates the glycol, which is heated by the truck engine coolant. The product cannot become warmer than the coolant temperature, approximately 90°C.



Warmtewisselaar

Electric pump

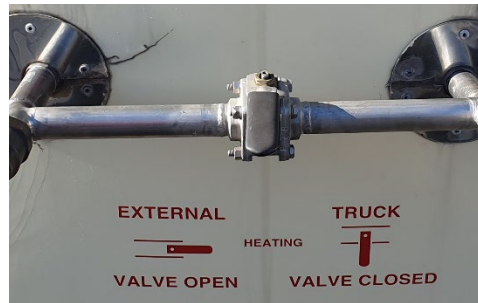
For heating via the truck, the engine must be at operating temperature and must remain running; otherwise circulation stops. During rest periods, the planner must arrange a parking location with an external power supply.



- Connect the hoses located behind the cab to the trailer.
- Important: the quick-release couplings have a locking mechanism. Make sure they are locked.



- Close the shut-off valve; otherwise there will be no circulation.



- The truck's pipe system may not contain glycol. In that case, the truck draws glycol from the tank, which may result in insufficient glycol in the tank.
- Always check the glycol level in the reservoir. Glycol must be visible. If not, report this to your planner immediately.
- If there is too little glycol in the reservoir, the pump may be damaged because it is pumping air. Ensure that the liquid level remains above the suction point.
- Set the product temperature after loading. The required temperature is stated in the onboard computer. If not, report this to your planner immediately.
- The tank often needs to be preheated before loading. Check that it has actually been preheated.



Ice remote

- Switch on the control in the cab. The switch shows an ice symbol or is labelled “tank heating”.
- A display in the cab will illuminate red.
- Use this display to set the temperature.



- First press the “ENTER” button.
- An indicator light at the top left of the display will start flashing.
- While the light is flashing, set the temperature.



- Important: the set temperature must never be more than 5°C above the product temperature.
- After the temperature has been set, the light stops flashing and heating begins.
- When the set temperature is reached, the light at the top left of the display switches off.
- If the switch is on but the display does not illuminate, report this to your planner immediately.
- Important: when the tank-heating hoses are not connected to the trailer, connect them to each other to restore a closed circuit.



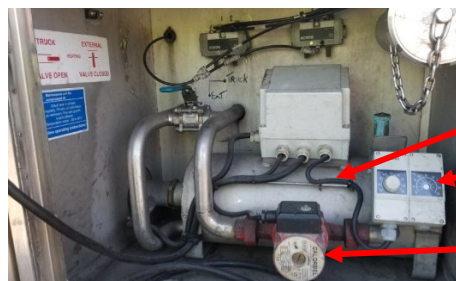
2. Connecting to a 380 V power supply

- Uncouple the trailer.
- Open the shut-off valve at the front of the trailer.



Temperature display

Closing handle



Heater

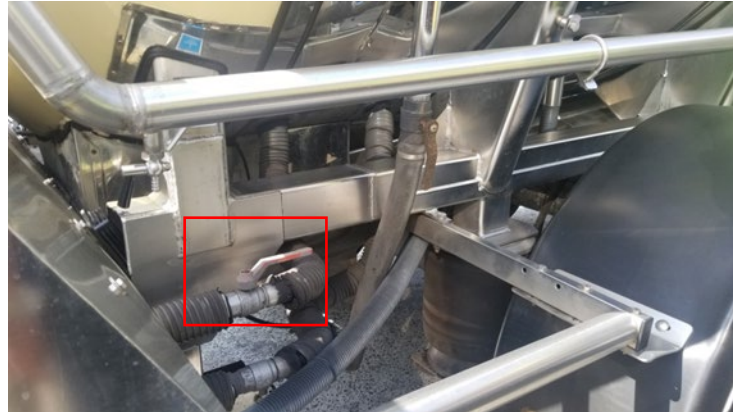
Thermostat

Pump

- Check the thermostat setpoint; see the Thermostats subsection.
- Check that the pump is set to its highest setting; some pumps have three settings.



- The shut-off valves are in the correct position when the pipes at the front become warm. A temperature gauge may be fitted.
- If the pipes at the front of the tank do not become warm even though the shut-off valves are correctly positioned, check whether another valve is closed elsewhere; see photograph.



- If there is no shut-off valve in the heating cabinet, the valve position there is automatically correct. However, the valve at the front of the tank must still be in the correct position.

Also check that the pump is running; the pump makes a sound and vibrates.

Thermostats



Single thermostat: set the required temperature by turning the knob to the specified temperature.



For this thermostat type, Technical Services has set a fixed maximum value. The temperature selected by the driver cannot exceed this fixed maximum.



Dual thermostat: both thermostats have the same function. If one fails, the other serves as a backup.



Chocolate thermostat: turn the centre selector switch to choose the required thermostat. Use the upper thermostat for chocolate. This thermostat prevents the chocolate from burning and cannot be set above 55°C.