Tips for transport refrigeration

Fundamental information on temperature controlled transportation with FRIGOBLOCK refrigeration machines

Before start of the trip

WARNING: If handled improperly, electric voltage can cause internal and external burns or death. FRIGOBLOCK refrigeration machines in mains operation mode operate on 400 Volt and in alternator mode at up to 690 Volt.

Disconnect the mains plug. Information, refer to your operation manual.

The condenser must be clean and dirt should not be allowed to build up on it. The evaporator in the refrigerated body must not be blocked by loose packaging material. Either would impair the function and reduce the cooling capacity of the FRIGOBLOCK refrigeration machine.

Inspect the complete refrigerated body for holes and damage regularly.

Damage to the body insulation reduces the insulating properties of the body panel, causes the FRIGOBLOCK refrigeration machine to run longer than necessary and consumes more energy.

Correct loading

To maintain the temperature while cargo is moved in and out of the truck, the refrigerated body must be precooled and cargo of different temperature should be transported separate from each other.

Turn off the refrigeration machine while cargo is loaded. Load the cargo in the sequence in which it will be unloaded.

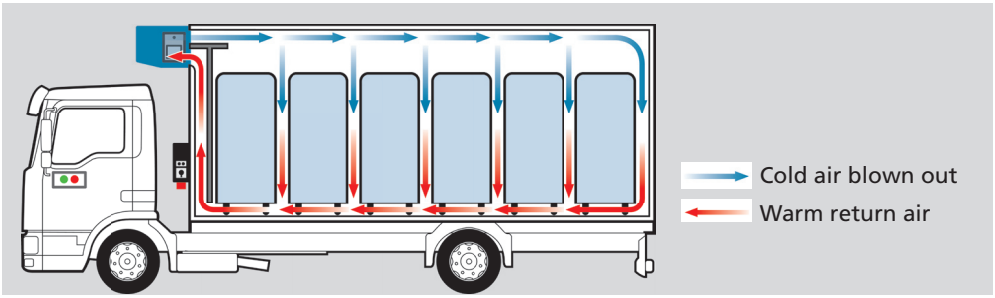
Check the goods for correct temperature immediately before loading it and set the temperature for the goods at the thermostats.

The output of the refrigeration machine is designed in such a way that the temperature required for the goods moved can be maintained.

Air must be able to circulate around the goods in the refrigerated body freely. The return flow of the air to the evaporator is ensured by the correct use of pallets and rollcages (e.g., these should never be film-wrapped down to the bottom of the container).

Make sure that a sufficient distance is maintained between the cargo and front wall, roof and floor of the truck body. Do not load cargo higher than permitted.

The flow of return air (air inlet at the evaporator) must not be obstructed by incorrectly placed objects such as empty boxes, pallets or loose packaging.



The air flow should be such that any short circuit between the air outlet and the air inlet at the refrigeration machine is avoided.

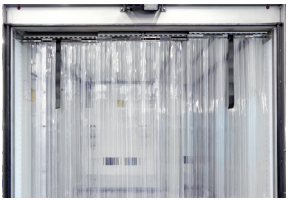
Air transports heat inside the refrigerated body. Therefore, optimum air flow is a precondition for uniform product temperature and quality of the goods being transported.

Observe the guidelines for protecting the cargo from shifting. Observe the maximum loading height of the cargo.

Telescopic bars securing the cargo must not be positioned under remote evaporators.

During delivery

Check to make sure that the target temperature is maintained while you are on the road. Opening the doors frequently allows lots of warm air to enter the cargo space. The goods should be delivered to the customers in the order in which they were loaded on the truck.



During picking of goods and when the goods are moved out of the truck body, the door curtains must remain closed completely. A door curtain reduce the air exchange with the environment, keeps the air temperature in the refrigerated body more constant and helps to prevent the entry of warm air from outside. Do not open the doors more often than necessary.

Empty roll cages pallets etc. are additional heat load and should not be carried together with the refrigerated cargo.

The frequency at which the doors are opened and/or the properties of the goods carried affect the moisture level in the refrigerated body. Ice forms on the surface of the evaporator and the output of the FRIGOBLOCK refrigeration machine is reduced.

If you see that ice forms, start a defrost cycle. Information, refer to your operation manual.

After delivery

Clean the body and remove all packaging waste. Heat the body completely at least once every week. Information, refer to your operation manual.