

The correct method of operation of refrigerated trucks with their cargo risk management

Refrigerated trucks to enter the Chinese market has been 20 years of history, in particular, is more widely used for nearly 10 years, from the food, pharmaceutical, chemical products, electronic products, flowers, high-end clothing, high-end furniture, etc., have refrigerated associated. Its purpose is to ensure the quality and stability of the product. But use product damage and other phenomena still exists and correct the reason is mainly due to incorrect use of refrigerated trucks. So how should we use refrigerated trucks? How to avoid the risks due to improper use? Here are just for everyone.

Correct operation to ensure that the goods to be saved and transported in perfect condition.

The only proper use and operation of good refrigerated trucks, to ensure the integrity of the goods shipped and save. Refrigerated trucks specifically for the use of temperature-sensitive products, and thus the temperature of assurance is the key to refrigerated trucks. If you use or improper operation will cause the goods can not be saved or transported in perfect condition.

Preventive maintenance maintenance and operating costs can be minimized.

In normal use, care and maintenance of vehicles and chillers are inseparable. Only time and proper maintenance of equipment and maintenance, in order to ensure the normal use and extend the life of the equipment. Chassis engine is usually according to the mileage of maintenance and upkeep, the refrigeration units developed in accordance with the engine operating hours maintenance and upkeep. Refrigeration unit is usually 500 to 700 hours of time maintenance and upkeep, you need to replace the oil filter, fuel filter, air filter; careful to check the tightness of the belt, the refrigeration system

No leakage; individual brand refrigeration units (such as the United States Thermo King) in order to adapt to the needs of environmental protection, to minimize damage to the environment, to reduce the emissions of harmful substances, thus using synthetic oil or semi-synthetic oil instead of ordinary oil, which extended maintenance time of the engine, usually do maintenance in accordance with the 2000 hours. Thus reducing the emission of the waste oil. In addition, after the scientific evidence shows, through the use of this high-end oil, not only to reduce wear and tear on the engine, but also can reduce the fuel consumption of the engine.

Therefore, the maintenance and upkeep of the science, not only can guarantee the integrity of equipment, can also reduce operating costs.

Appropriate packaging is essential for the protection of the goods.

Frozen goods with no ventilation box and sidewall ventilation carton of fresh goods. The box must be compressive.

Frozen goods are not allowed to have the wind blowing from the surface

because of the wind blowing through the surface of frozen goods, make the water loss in the goods, resulting in the decline in the quality of the goods. This year, developed by our country will be allowed to sell frozen food in bulk packaging sales is the truth. Fresh items because of its own characteristics, the product during storage and transport is still in the state of breathing, if you can not be very good ventilation, the goods will turn bad damage. We must ensure that such goods have good ventilation and ventilation.

Thermostat set at the desired temperature the precooling the trunk 1.5 hours to drain away stranded in the heat inside the car; refrigeration units off the time of loading, loading quickly.

Loaded, we must first pre-cooling or pre-heating the passenger compartment. Because the vehicle is parked in the open, usually the temperature inside is the outside ambient temperature. If the cargo transported temperature than environmental temperature, the goods into the compartment, and the ambient temperature will affect the temperature of the delivery of goods, leading to change the quality of the delivery of goods. Must pre-cooling compartment before loading to the required temperature. However, loading (unloading) must turn off the refrigeration unit. Many people in the loading and unloading of goods are not shut down the refrigeration unit, in fact, this is a very wrong operation.

Reason: When we pre-cooling the cabin, if you do not shut down, open the car door, due to the refrigeration unit evaporator fan in the work, the front of the fan is a positive pressure, and the back is the negative pressure, cold air from the compartment upper blown out, and the hot air of the lower portion of the outside of the fast sucked, resulting in rapid increase in the temperature inside; if the shutdown and then loading and unloading cargo, the blower in a stopped state, the air flow is stopped, the inside and outside air pressure, thus making the external thermal The relatively slow speed of air passing into the inside.

Goods must be pre-cooled to the required temperature, check the temperature of the cargo is loaded; refrigeration unit is used to maintain the temperature of the goods, rather than to reduce the temperature of the cargo.

Many users of refrigerated trucks have a wrong concept, and believe that the refrigeration units refrigerator car is free to load the goods inside frozen or heated to the temperature they need. Inadequate transport temperature requirements for stowing compartment, then refrigeration unit is set to transport temperature, the cargo temperature dropped by a certain time or rose to the temperature they need they need. However, the reality is the opposite, goods not only the temperature does not drop down, but the goods damage or deterioration (or does not rise up). Refrigerated truck refrigeration unit is not to reduce the temperature of the cargo, but to maintain the temperature of the cargo, he is like selling cold drinks in the past with the quilts, the goods wrapped. When the outside cold (hot) source of the flow to the car body by radiation, conduction, air-conditioning refrigeration unit blowing away, cut off from sources of heat entering the goods.

Loaded, you must first measure the temperature of the cargo loaded. If the set-point temperature of the refrigeration unit is higher or lower than the temperature of the cargo, the inside temperature of the cargo transport temperature are difficult to achieve. The cargo storage temperature and transport temperature must be the same, if the cargo temperature is constantly changing, the water will be lost, it will lead to cargo quality change occurs, leading to shorten the shelf life of the goods.

Even more than the actual capacity of the units required, the lack of air circulation also the items metamorphism; goods around any obstruction may lead to - the "hot spots".

A qualified refrigerated trucks, must ensure better ventilation, cargo compartment hexahedral six-sided without any obstruction; requirements under the Transportation of goods at the right temperature, can guarantee good air circulation. Refrigeration units blowing (hot and cold) gas will be cut off from the outside into the compartment cold (hot) source with goods off, so as to protect the goods. If a position is blocked, that part of the cold (hot) source will directly enter items, resulting in the change of the temperature of the cargo. Ensure return air shutters in good condition; Do not block the entrance of the evaporator (return air); return air will produce cold irregular cycle and cause the top of the cargo icing.

The goods must be stacked in a double-sided pallet; the fresh cargo pallets on not package plastic film, the film will block circulating cool air circulation to the goods; non-blocking goods under the floor.

The the general refrigerated truck floor are ventilated aluminum rail floor; but also some refrigerated trucks with aluminum rail is the level of non-slip floor. Usually as a third-party transportation companies or for dairy enterprises truck is the level of non-slip floor, and is suitable for the transport of a variety of products, or easy to clean the floor. But must pay attention to the time of loading, must use double-sided pallet loading, to ensure that the flow of cold air on the ground. Prohibited goods piled up on the floor of the plane.

Do not pile goods before the evaporator outlet, otherwise it will impede the flow of cooling air; cargo above the cold air flow obstruction will lead to a short circuit. Maintain a minimum distance of 225 mm between the in cargo top and roof.

Loading, do not heap too high the goods, we must ensure that the height of the load is not higher than the height of the outlet plane. In front of the outlet by cargo block or from cargo too close, will not only affect the temperature of the storage and transportation of goods, but also affect the normal operation of the refrigeration units.

Goods outlet to plug, air conditioning (or heat) can not be normal cycle inside, and thus will bring the local temperature rise.

On the other hand, due to some of the frozen defrosting design air induction defrost. When the goods outlet too close to the unit within the evaporator coil will quickly frost (or ice), air sensor switch then action, the unit will quickly enter

the the defroster state; When the coil temperature rose to 9 degrees (design temperature) so, defrost end immediately. Then the unit will be a cycle of the above operation, leading to the car body temperature to drop down. To all unit concept feeling is always frequent defrosting. In fact, it is because of the cargo is loaded too high (more than) due.

Interior must be kept clean; ground should not be left to the wrapping paper and confetti; debris will impede air flow or evaporator suction.

Refrigerated car compartment ground should be kept clean. Evaporator fan, air circulating inside, cause the ground broken cut or dirt evaporator fan inhalation. The prolonged effect, make a lot of impurities sucked into the evaporator coil, thus affecting the cooling effect of the refrigeration unit. Because the coil will be enclosed impurity a little, resulting in the decline in the rate of heat exchange of the coil. Refrigerated trucks used for several years, everyone will feel the cooling effect than start except itself cause of the malfunction is caused because the coil is dirty. Therefore, to ensure that the car clean on the ground to ensure the normal operation of the refrigeration unit. Handling properly; should close the freezer door is opened; much as possible to shorten the time the door is opened; strip curtain as much as possible when loading and unloading cargo. Separator to separate basket of dry goods (empty bar) and perishable goods.

For city delivery vehicle in order to ensure that the goods inside temperature, it is recommended to use the strip curtain, to ensure rapid unloading (without closing the refrigeration units), inside the air-conditioning is not rapidly lost out. The different temperature of the goods stored in the same compartment space is strictly prohibited. The separator should be kept separate. As the refrigerating machine is used to maintain the temperature of the cargo, rather than cooling use, mix different temperature of the goods, will affect the temperature of the article, resulting in the quality of goods affected.

Correct operation and use of refrigerated trucks, is the key to ensure that the quality of temperature-controlled goods. Where is also to ensure that the refrigeration equipment to work properly.