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Guchen Thermo Truck Refrigeration Units FAQs

Hope this document can help you on transport refrigeration units usage. Guchen Thermo is always devoted to the best service to our customers.

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These truck refrigeration units FAQ is from our experienced sales staff, who make these conclusions of FAQs for truck reefer units users based on our clients' frequent questions.

In order to help your truck reefer units working better, please look through these FAQ, and hope it do help you.

Question 1

Truck refrigeration units' low pressure reading is nearly to zero, high pressure is lower too, after a few minutes, high and low pressure keep still.

Why is it and how can I deal with this problem?

Answer: It is possible that expansion value blocked or temperature wrap break up (you can see it obviously), so the expansion value cannot open.

Reservoir or filter is blocked; or feed liquid value cannot open, which results in the big temperature difference between these spare parts.

If your reefer unit has liquid solenoid valve, please check out whether the valve powers on. Or the valve is broken, you cannot charge.

In order to solve these problems, it's better to change the expansion valve or clean it. Guchen Thermo supplies expansion valve from Danfoss with a better performance, and not easy to blocked by filth or ice.

Question 2

It displays HPER (High Pressure Error), why is it?

Answer: As for the R134a refrigerant truck reefer units, the HPER is because: if the refrigerant is not enough or no refrigerant, it will shows error code once you start off the units. So as for this condition, you should refill enough refrigerant. The Guchen Thermo truck refrigeration units have fewer refrigerants, which can save your cost.

Condenser fans not working and pressure higher can also result in the units' alarm once you start off it for minutes. So in this time, you should examine whether the condenser fans damage. If it damage, change a new one. What's more, if there is something wrong in pressure switch circuit, once you start off, it also reads error code.

Question 3

How can I protect my truck refrigeration units' compressors?

Answer: In order to protect your truck reefer units' compressors, we give the following advices:

- A) As for the Unicla compressors, you should add RL32H refrigerant oil for reefer units, the refrigerant oil amount should be 10-15% of the reefer units' coolant. A part of refrigerant oil adds into compressor, and the rest of part adds into oil content. Before you fill in refrigerant, you should screw compressor clutch drive plate for about ten circles in order to push the refrigerant oil into high-pressure hose, which can protect too much oil in compressor from slugging liquid, and protect the compressor.
- B) If fluorine leaks or fluorine decreases, you should refill the same model refrigerant oil for compressor using.
- C) It's better to start off units under the engine idle in order to reduce the shock to compressor, prolong the compressor service life.

Question 4

How can I judge whether the refrigerant is enough or not when I fill refrigerant for the first time?

Answer: we don't recommend you to judge whether refrigerant is enough based on the pressure, because weather and ambient temperature is so changeable, so pressure changed quickly, which can give you a wrong signal.

Observation method works well: when you fill refrigerant, observe the sight glass. At first, bubbles from more to less, when few seconds for producing one bubble; the refrigerant amount is exactly enough! If there are no bubbles producing, it means you fill too much refrigerants!

Question 5

Why my reefer truck body's temperature cannot decrease down?

Answer: when your reefer truck body temperature cannot decrease, check whether the high pressure low and low pressure high. If it is, the following factors can result in this situation:

- A) Deforesting solenoid valve leakage.
- B) Expansion valve air flow is too much, low pressure tube and compressor are frosting.
- C) Compressor high-low pressure leakage.

Question 6

Why I cannot fill fluorine (refrigerant) to the truck refrigeration units cooling system?

Answer: if you connect the tube correctly, first fill the fluorine from high pressure, the refrigerant is not enough, and then start off the refrigeration units, you refill refrigerant from low pressure, but the low pressure and high pressure are very low, refrigerant cannot be refilled, it may be because of the expansion valve block.

The possible reason is that filth blocks expansion valve; so you can check the expansion valve, clean valve plug or change a new expansion valve.

If there is nothing wrong with expansion valve, it might be the problem of air and water left in vacuum system, so expansion is blocked by ice. To deal with this problem, just to re-pump air completely for a real vacuum condition again.

Question 7

What should I note for the first time usage of my small truck reefer units?

Answer:

- A) If it is a single cold-type unit (only in the condition of set temperature lower than ambient temperature, the unit can run), temperature range we give is just an approximate range of cooling temp; if heating is required, please consult our engineer.
- B) Refrigerant charge amount is only for reference. For different configurations, the compressor, tube change, different season's installation, compressor speed and so on can impact the amount of refrigerant. For the details, you can observe the sight glass, if there are two or three bubbles flowing, it means refrigerant is enough; if too many bubbles appears, it means refrigerant is not enough; if there is no bubbles, it means too much refrigerant is filled.
- C) R404A unit vacuuming has a very strict requirement; otherwise it will affect the results of unit freezing. As for this, you need to use 4L / S vacuum pumps.

Question 8

How could I fill refrigerant R404A to my truck reefer units?

Answer: Charge refrigerant R404A method: Finish doing vacuum, set the pressure, starting to charge refrigerant from the high-pressure, sometimes you can fill enough refrigerant for one time; if the refrigerant is not enough, turn off the high-pressure valves, turn on the unit, and continue to charge from low pressure. In order to make sure the refrigerant liquid to the compressor before it has become a gas to prevent liquid strike, you can open the low pressure refrigerant valve a smaller point and fill refrigerant little by little, which also ensures the R404 refrigerant component. This point has a greater impact on cooling effect.

Question 9

Why the evaporator fans not working in my truck refrigeration units?

Answer: First, check out whether the refrigeration indicator light and evaporator fans indicator light is on or off; if both the lights are on, but evaporator fans are not working, check out whether the fans plug is charged with electricity.

If there is no electricity, check whether each evaporator fan relay pin is normal, and whether it is powered;

If the evaporator fan relay is normal, each point relay connections are normal, check whether the evaporator fan signal displays voltage;

If there is no voltages in the signal line, then check the back of controller, directly measure whether the evaporator fans controller output signal lines have voltage, if the controller displays evaporator fan lights are on, but no signal line voltage, it means the controller has internal fault.

The color of back controller line: evaporator fan line is purple; condenser fan line is gray.

Question 10

Why the high pressure and low pressure alarm and displays HPER and LPER (High pressure error and low pressure error)?

Answer: Currently as for the R404a truck refrigeration units, the voltage are divided into high and low pressure, so the reason for the alarm situation and composite pressure switches are difference:

- A) When you turn on the unit, control panel show LPER low pressure alarm immediately
Reasons: ① The refrigerant is leak, pressure is lower than the low pressure switch, the alarm appears; ② low pressure switch circuit fault - breaker; ③ pressure switch itself fault - pressure switch cannot be closed; ④ control panel internal fault;
- B) Start running for several minutes, low pressure alarm occurs LPER, Reasons: ① liquid supply magnetic valve is not open; ② expansion valve bulb capillary rupture led to the expansion valve cannot open; ③ system fouling;
- C) Once you turn on the unit, immediately show HPER high pressure alarm.
Reasons: ① high pressure switch line fault - breaker; ② pressure switch itself fault - pressure switch cannot be closed; ③ controller internal fault;
- D) Start running for several minutes, high-pressure alarm occurs HPER Reasons: ① condenser fan does not work; ② refrigerant charge is too much, the heat dissipation of condenser is not good.

The End...

About Guchen Thermo Company:

Guchen Thermo as the truck refrigeration units suppliers in China not only sell our units, but also we sincerely help our customers solve problems. All of our customers cooperate with us give a high praise of us on Guchen Thermo transport reefer units and sales persons' service. We guarantee that the complete after sales service and professional technology help. Although Guchen Thermo is not famous as Carrier Transcold and Thermo King, we promise that the same quality with the famous brands!

Any one who has interest in the transport refrigeration units and want to start cold chain transportation business, please let us help!

About Guchen Thermo Products:

We have the following series transport refrigeration units for your cold chain transportation business:

- ▲ TR series Truck Freezer Units
- ▲ C series Truck Chiller Units
- ▲ TS series Independent Truck Refrigeration Units
- ▲ Electric Van Refrigeration Units
- ▲ TR series Van Freezer Units
- ▲ C series Van Chiller Units
- ▲ Transport Refrigeration Units Compressors
- ▲ Transport Refrigeration Units Fans
- ▲ Transport Refrigeration Units Electric Controller System

About Guchen Thermo After Sales Service:

- ◆ Guchen Thermo all the products had passed the quality system certification of ISO9001:2008. CE certification.
- ◆ 12 months or 60,000KM spare parts free change in the time of expiration date.
- ◆ 24 HOURS SERVICE for solving customers' product problems.
- ◆ Guchen Thermo Distributors all over the world to serve customers timely.

About Guchen Thermo Distributors Locate in:

- ▲ Mauritius
- ▲ Angola
- ▲ South Africa
- ▲ Argentina
- ▲ Chile
- ▲ Serbia
- ▲ Russia
- ▲ Hungary