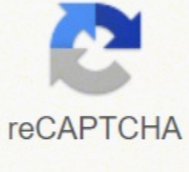




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How to troubleshoot a walk in freezer

HVAC technician charging a heat pump with refrigerant Nowadays, walk-in cooler or freezer has become an integrated part of cafeterias, restaurants and food stores. When these giant refrigerators stop working, waiting for appliance repair technician to come and repair the appliance is not an easy task. As there are plenty of expensive food items stored in the walk-in cooler, delay can cause a massive loss. Thus, in such situation, you can try troubleshooting your walk-in cooler and freezer on your own. By troubleshooting your walk-in cooler, you may be able to determine the cause which is not letting your Walk-in Cooler & Freezer work. If problem is minor, you may be able to fix it as well. However, if you are not able to understand walk-in cooler's problem, stop troubleshooting walk-in cooler immediately. The most common problems of walk-in coolers and freezers are: Control board does not display the Power ON, Control board is displaying Power ON but compressor is not working, High discharge pressure High suction pressure Low discharge pressure Low suction pressure Huge difference between set cold storage temperature and actual cold storage temperature Heavy frost buildup Coil not clearing the frost during defrost cycle Too much ice blocking the drain pan Device is making humming noise These are some potential problems with which you may have to deal. You may handle small problems, but if a problem appears big, wait for appliance repair professional. Troubleshooting walk-in refrigerators Follow the below mentioned steps to troubleshoot your walk-in cooler: Checkout whether the power supply to walk-in freezer is ON and functioning properly. Then, look into the breaker box and check the freezer switches. If everything is fine here, move forward. Thoroughly examine the door gasket for snow buildup. Open and close the door to see if it is working properly. If you find any air leakage, try to tighten the hinges. Clean the evaporator coil using vacuum, and don't forget checking the drain pan. Analyze the direction in which the fans of the walk-in cooler are moving. If fans are malfunctioning or moving in the wrong direction, it can put extra strain on the motor. In this video i show you some steps that i take when i come across a WIF WIC that is running warm. This walk in freezer was at 60 degrees when i arrived. I usually take the same steps when diagnosing a refrigeration system. 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Walk-in coolers or walk-in freezers are major factors for many cafeterias, convenience stores, and restaurants. They also use large amounts of energy, but until issues occur this is rarely considered. Problems with walk-in freezers or coolers such as failure to maintain pressure or compressor failure may result in expensive internal repairs. Although, the high energy use and problems like this can be avoided when conducting requisite equipment maintenance. How an Evaporator Works The cooling coils freeze the moisture in the air, forming a barrier from the heat transfer. Then, air flow decreases because of ice buildup, while the evaporator has its own defrost cycle which melts ice build up on coils. This allows water to drain normally from the ice. Water Won't Drain Out Of Freezer When melting ice, the water should be drained from the freezer. However, this is not always done and allows water to become trapped and when freezing again, can result in damages. Old freezers are at higher risk due to cracks allowing water to get trapped and freeze/expand. To avoid expensive damages, taking action is recommended when you notice stalactites or stalagmites of ice building up in the freezer. Ice On The Evaporator "It isn't unusual to find the evaporator in a poor state. For an evaporator unit, whenever water isn't drained right or the ice has not melted it could cause ice on the evaporator. Whenever the coil freezes, heat transfer is reduced which makes the compressor work longer and harder. It works harder due to suction pressure drops which makes the compressor work at a higher pressure, which requires more power. It will work longer because the heat transfer is reduced. Whenever there is excessive ice buildup, the compressor will run constantly and the freezer temperature won't be maintained." [1] How Condensers Work The system's condenser coil removes heat out of the refrigeration system. Finding condensers within tight enclosed spaces without much air flow is common. This prevents heat from being removed, resulting in increased temperatures from the compressors high head pressure, increasing power usages. Check Condenser Coils Regularly To ensure condenser coils are clean, they need checked regularly. Dust and debris have the same impact as ice buildup. These things insulate heat transfer while reducing air flow, making the compressor work harder, longer, and could even cause failure. Condenser Should Be Well Ventilated Condensers need to have adequate ventilation to remove heat, this helps control temperatures. This means exhaust openings for enclosed spaces, along with cooling air intake. In many situations, a fan will be needed for moving enough air in to the area. Heat that is not required for the condenser should be removed. Although, there are situations when the heat can be used in other areas, such as a dry storage room. The controls may be installed so that it directly flows within the room for heating and when not needed, transfer it outside. Inspecting Refrigerated Shell & Space Even if the space lacks mechanical parts or equipment, there is still reason to check it. The cooler or freezer shell should be inspected regularly for any leaks, loose panels, or installation issues. Leaks, among other problems within the shell can result in more moisture than needed, becoming a larger problem. The main part of a cooler is the door. Doors must be properly sealed to remove air infiltration, increasing cooling loads while creating moisture buildup within the space and on evaporators. It is normal for frost buildup to collect on the door. When door heaters begin failing, it will either prevent it from freezing, or closing shut. When putting items within the freezer, proper care needs to be used. When a freezer becomes overcrowded or items are placed in front of evaporator fans, air circulation is reduced, lowering overall refrigeration system performance. Compressor Problems "The compressor is a vital part of the refrigeration cycle. If the compressor isn't running, it could stem from an electrical overload, a defective coil, or a malfunction within the compressor itself. A repair technician will check the compressor, scan the electrical systems to make sure it's functioning and then either repair the faulty component or replace the compressor." [2] Avoid Energy Repairs & Waste with Walk-in Freezer & Cooler Maintenance To avoid expensive repairs, excessive use of energy, and potential product failure, any operation issues with Walk-in Freezer/Cooler maintenance needs to be addressed. Cited Sources

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