



BY JOHNSON CONTROLS

Service Information

File In/With: N/A

SI0258

New

112

Equipment Affected: YCUL, YCAL, YCWL, YLAA, YLPA, YLUA, and VDC

HFC 410A Refrigerant Charging

GENERAL

The affected equipment listed above use HFC 410A refrigerant. HFC 410A is a blend refrigerant containing both HFC-32 and HFC-125 (50/50 wt%). This combination performs very much like a single component refrigerant due to the closeness of the individual refrigerant boiling points.

Since HFC 410A acts like a single component, any change in composition due a leak is minimal. These systems can be “topped off” without removing the entire charge. There is no limit to the number of times this can be done. However, we recommend that all leaks be identified with an electronic leak detector or soap bubbles and properly repaired before topping off the system.

When you recharge or add additional refrigerant to the system utilizing HFC 410A, it is important to remember to always add or charge in liquid form.

SAFETY PRECAUTIONS



Safety precautions such as wearing safety glasses are required. Protective gloves should also be utilized. Proper refrigerant handling/reclaim practices must be followed when removing the refrigerant from the compressor or system. Place the oil recovered from oil separators or other compressors in the system in a suitable container for disposal. Always be sure power is removed from the unit prior to beginning work. Lock out the disconnect switch as a precautionary measure.

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.

Product Technical Support