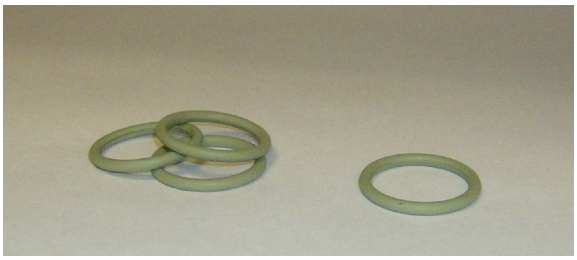
YORK BY JOHNSON CONTROLS	SB0107	709
	File In: N/A	
SERVICE BULLETIN	Affected Equipment: YCAS, YEAS, YCAV & YCIV Chillers	

Subject: NEW O-RING FOR SEPERATOR SIGHT GLASS REPAIR

Issue Date:	**07/09/09**	**Withdrawal Date: 3-31-2014**
Material Needed:	**Type "L" Oil**	
Tools Required:	**Basic Chiller Tools**	
Est. Time Required:	**Aprox. 12 Hours**	
Warranty:	**N/A**	
Revision Notes:	**N/A**	

General

An o-ring manufactured from an improved material is now available and is recommended for repairing leaks on oil separator sight glasses installed on YCAS, YEAS, YCAV and YCIV chillers. The new o-ring is presently a light green color versus the dark colored o-rings previously used in these products. The part number has changed to 028-16331-000. Please begin using the new part number immediately when o-ring leaks are encountered. Part number 028-16331-000 supersedes the use of o-ring part numbers 980A0012K66 and 028-15574-000 in air cooled chiller oil separators.



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 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.

Procedure

O-ring replacement on a sight glass will require removal of refrigerant from the high side of the system. It is recommended that both o-rings on the oil separator sight glasses be replaced anytime one of the o-rings leaks.

1. Observe the oil level in the sight glass and record it if necessary to allow recharging the oil to the original level.
2. Remove the refrigerant from the high side of the system.
3. Drain the oil from the oil separator to a level below the bottom sight glass.
4. Remove the sight glasses and clean the threads of both the sight glasses and the oil separator sight glass saddles.
5. Lightly coat the new o-rings with oil from the system before installation.
6. Install the new o-rings and tighten the sight glasses to 65 ft-lbs.
7. Evacuate the system to 500 microns, assure it holds the vacuum and re-install the refrigerant removed from the system.
8. Replace the oil removed from the oil separator with an equivalent amount of new “L” oil.
9. Return the system to operation.
10. To assure the system does not need additional charge, first check for bubbles in the sight glass under steady state full load operating conditions. Finally, with the system fully loaded, check the subcooling. Add refrigerant if needed to correct for low subcooling.
11. Assure the oil level is at the bottom of the top sight glass when fully loaded. High oil levels may cause nuisance faults.