



BY JOHNSON CONTROLS

SB0112

1209

File In: N/A

SERVICE BULLETIN

Affected YPAL Mod D Units

Subject: Inaccurate Outdoor Air and Return Air Temperature Readings

Issue Date: 12/15/2009 Withdrawal Date: N/A

Materials Needed: Noted below

Tools Required: Standard Hand Tools

Warranty: Yes

Revision Notes: N/A

GENERAL

Outdoor Air Temperature

The outdoor air temperature sensor is located on the left side of the outdoor air intake and is not exposed to the direct flow of outdoor air. As a result under certain circumstances the temperature inputted to the Unit Controller could be several degrees away from the actual outdoor temperature. In most cases this will have no affect on the overall operation of the unit.

Return Air Temperature

The return air temperature is located on the left side of the return air compartment. On units with return fan with exhaust, outdoor air can be drawn through the exhaust damper resulting in the return air temperature inputted to the Unit Controller being different than the actual return air temperature. This could affect the selection of unit mode, cooling, heating, or standby by the Unit Controller. In most cases this will not affect the day to day operation of the unit.

SOLUTION

Engineering is working on processing a change of design to relocate the outdoor air and return air temperature sensors to a new position to improve the accuracy.

Outdoor Air Temperature

On units experiencing operational problems because of inaccurate outdoor temperature input perform the following revision. Remove power from the unit and follow standard TAG OUT / LOCK OUT procedures. Remove

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.

the outdoor air sensor from its current mounting position and move it to behind the outdoor air intake eliminator screen on the left side of the unit. If required, use in-line splices to increase the wire length. Fabricate a galvanized metal “L” shaped bracket and mount the sensor to the long side of the “L” and fasten the short leg of the “L” to the divider panel.

Return Air Temperature

On units experiencing operational problems because of inaccurate outdoor temperature input perform the following revision. Remove power from the unit and follow standard TAG OUT / LOCK OUT procedures. Remove the return air sensor from its current mounting position and attach to the end of a galvanized metal wall stud 2 foot long. If required, use in-line splices to increase the wire length. Fasten the other end of the metal stud in the center of the return air opening so that the return air sensor extends 2 foot down into the return air ductwork.

WARRANTY

If the unit is still under warranty process a claim through the normal warranty process. If the unit is out of warranty submit a warranty claim under the “Known Documented Defects” policy. Reference this Service Bulletin SB0112 in the Description section of the submittal. All repairs covered by this letter must be made of JCI Service Personnel.

This letter will authorized up to a \$150.00 charge for each sensor relocation.