

ES SERVICE BULLETIN
Affected Equipment: YCAS, YCWS & YCRS Chillers
Shipped Before January 2006
Subject: Replacement DXS Compressor Motor Protection Circuit Modification
Issue Date: 7/06/07

Withdrawal Date: N/A

Data Control Level: C

Materials Needed: N/A

Tools Required: N/A

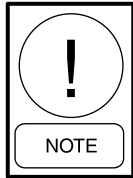
Est. Time Required: 15 Minutes

Warranty: No

Revision Notes: N/A

GENERAL

This bulletin outlines a field wiring modification that must be performed during replacement of DXS screw compressors on models identified above.



This procedure is to be implemented at the same time as the field replacement of any DXS Screw Compressor. Chillers shipped after January 2006 should have this kit installed at the factory and this modification is not required if the 270Ω resistor is in place.

Any field ordered replacement DXS Compressor will include a 270Ω resistor for installation on the Klixon 2ACE Motor Protection Module located in the Power Panel. This resistor is installed in series with the “C” Common wire of this module as shown on page 2 of this Bulletin.

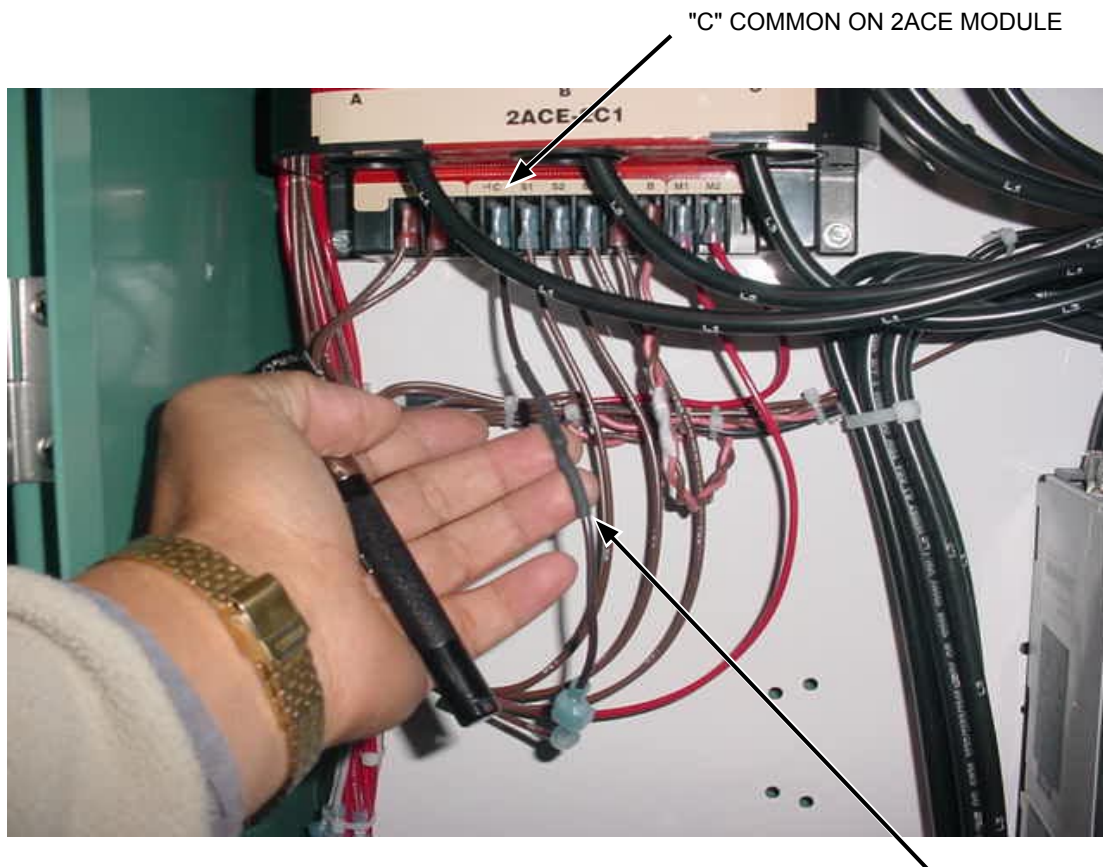
REASON FOR MODIFICATION:

DXS screw compressors in chillers, or supplied as replacement compressors after January 2006, have thermistors imbedded in the motor windings which measure a nominal 50 to 150Ω at ambient. (Compressors manufactured prior to January 2006 have thermistors which measure a nominal 1200 to 1500Ω.)

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.



"C" COMMON ON 2ACE MODULE
RESISTOR KIT INSTALLED ON 2ACE MOTOR PROTECTION MODULE IN SERIES WITH "C" COMMON

To satisfy the Klixon 2ACE motor protector used on these chillers, install a 270Ω resistor to meet the minimum 150 to 200Ω input resistance.

Without the resistor, the 2ACE module will exhibit a code 5 'High Motor Temp' fault.

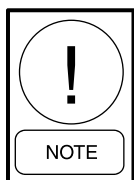
AFFECTED COMPRESSORS:

All replacement DXS Screw Compressors DXS12LA through DXS45LA require the Resistor Kit.

HOW TO ORDER:

When ordering a replacement compressor, use the compressor part number in the replacement parts book. This number will be superseded at Baltimore Parts to include the Resistor/Instruction Kit.

(Example: A DXS45LA/46 screw compressor with a replacement part P/N of #364-49094-215 will be superseded by #364-49094-315. The revised number will result in the Resistor Kit being added to the compressor shipment.



The Resistor Kit is provided seamless to the field order. Order replacement compressors as normal and the Resistor Kit will be included and affixed to the compressor along with this instruction sheet.

The Resistor Kit Part Number included with each compressor order is P/N #575-75798-000.