



**TRANE®**

# Confidential Service Bulletin

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## Sticking 1K5 Oil/Refrigerant Pump Motor Relays

**CVHE, CVHF, CVHG, CDHF and CDHG**

ORDER No: CVHE-SVC02A-EN

DATE: July 12, 2001

*This confidential service bulletin is a fix on fail retrofit.*

### **Introduction**

We have had reports of sticking 1K5 oil/refrigerant pump relays on all direct drive centrifugal chillers. Models affected are CVHE, CVHF, CVHG, CDHF and CDHG. This bulletin describes the action to take if a sticking relay is found.

### **Discussion**

The original 1K5 relay for the oil/refrigerant pump motor was an Allen Bradley 1 hp, 120 volt relay, part number 700HHF62A1. This relay has had a history of sticking in the closed position, which causes the oil/refrigerant pump motor to stay energized even when the chiller shuts down. This in turn will cause the chiller to lock out on an MMR diagnostic of "Oil Pressure Sensor Calibration" due to the fact that the oil pump is running when the chiller thinks it is off. Thus, the 3 psid pressure differential between oil supply and oil sump pressures is exceeded after 5 minutes of shutdown and the machine will lock out on the calibration diagnostic.



## **Corrective Action**

To correct the problem of a sticking 1K5 relay, a new Cutler-Hammer 1.5 hp, 120 volt relay, Trane part number RLY02529 should be ordered and installed.

## **Units Affected**

All direct drive centrifugal chillers, which incorporate the oil/refrigerant, pump and have the original 1K5 Allen Bradley 1 hp, 120-volt relay.

## **Parts Ordering Information**

Order one relay per each unit affected through the PRIDE system, La Crosse Service Parts.

RLY02529, 1K5 oil/refrigerant pump relay

## **Material Authorization:**

One RLY02529 for each unit affected.

## **Material Disposition**

The old relay can be scrapped in the field.

## **Labor Authorization**

This bulletin authorizes one hour of labor at standard labor rate to accomplish the relay change out. No travel time is authorized.

## **Production Changes**

No production changes per this service bulletin.

## **Expiration Date**

The expiration date of this bulletin is December 31, 2001.



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