



TRANE®

Confidential Service Bulletin

CVHE-F with Rockwell LF 2.0 Drive

ORDER No.: CTV-SVC04A-EN

DATE: February 2003

Inductor mounting inspection and adjustment (Refrigerant Cooled Only)

Inductor Interference with enclosure; Potential short!

NOTICE: Warnings and Cautions appear at appropriate locations throughout this manual. Read these carefully.

⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: May also be used to alert reader to a situation that could result in equipment or property only damage.



INTRODUCTION

Action:

Recommend turning off drive and securing electrical power OFF until Drive inspection is performed, and adjustment made if necessary.

Problem:

The LF 2.0 Drive has inductors in the center enclosure portion towards the rear of the enclosure. The inductors may be mounted such that is in contact with the enclosure "mullion" (U channel support) which can wear through the insulation materials which then can short to the unit chassis.

DISCUSSION

Background:

The inductors are used to filter out harmonics (similar to LF1.5 line reactors) and are located at the back side of the drive cabinet. There is one 3 phase inductor in each LF2 drive with three large windings at the top and three smaller windings at the bottom. These windings have winding paper and varnish for insulation. However, in some cases the rightmost upper winding is in contact with the cabinet frame. Running vibration of the chiller is enough to wear through the insulation and supply voltage of 480 VAC shorts to the cabinet.

Corrective Action

See CTV-SVB04A-EN.



Labor Authorization:

If chiller is in Service:

Given access and ability to shut down any unit upon arrival the task shouldn't take longer than 4 hours plus travel.

If chiller has not been started, then this can be done at startup, thus avoiding a trip charge.

Expiration Date: April 30, 2003

Dead line 60 days to file claim.

Units affected:

- All CVHE-F with Rockwell LF 2.0 drives shipped prior to November 2002
- 608 amp drives shipped prior to 2-6-2003.

In Nov 2002 the 405 amp drive went into production. The 405 amp drives have smaller inductors therefore adequate clearance between the inductors and the rear channel. Prior to 11-2002 the 608 amp drive was the only refrigerant cooled drive utilized.

Product Changes

Rockwell has changed the assembly and now provides required clearance.



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Supersedes	New
Stocking Location	Electronic Only

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