



BY JOHNSON CONTROLS

# Service Information

File In/With: 160.00-M1, 160.00-M4

SI0190

New

708

Equipment Affected: YK Chiller, Retrofit Drives w/OptiSpeed VSD

Error in Displaying Input Filter Power for VSD w/Harmonic Filter

## Background

New drive logic boards are being used on all OptiSpeed Compressor Drives. The part number of the new board is 031-02506-00X. One feature of the new board is that it can communicate with the OptiView Panel without the need of an adaptive capacity control board. In this configuration, the harmonic filter logic board communications is connected to the VSD logic board.

## Units Affected:

All models of TM and VSD OptiSpeed Drives built between 12/06 and 9/07.

## Cause of Failure:

When the harmonic filter option is installed it calculates the input power and sends this information to the VSD logic board. The VSD logic board sends this information on to the chiller control microboard. In this case, the power value is accidentally multiplied by 2.

## Solution for Problem:

The software in the 031-02506-00X board was changed to correct for this problem. The software versions that contain this problem are C.VSD.07.01.01, C.VSD.17.01.01, and C.VSD.27.01.01.

When a software version is changed the last digit will increment as in the following example. This software version C.VSD.07.01.01 is older then C.VSD.07.01.02. Newer versions of software are current being used in production.

The part number for the new software in a TM model VSD is 031-02547-001. The new software version number is C.VSD.07.01.02.

The part number for the new software in a VSD model VSD for 400 or 460 VAC input is 031-02547-002. The new software version number is C.VSD.17.01.02.

The part number for the new software in a VSD model VSD for 575 VAC input is 031-02547-003. The new software version number is C.VSD.27.01.02.