



Friday, June 19, 2015

Attn: SACP Rental unit customers – Applicable to all models

RE: Change of motor protection modules in certain SACP units and replacement compressors.

Almost all Smart Family (Smartech brand) SACP rental air conditioning units have a motor protection module device installed. The MPM is a safety device located within the compressor pecker head. Recently, Copeland has changed the type of motor protection devices used. Newer model compressors now come with a CORESENSE module. Please see the details and differences between the two below.

Sincerely,

Ryan M Baker
VP Equipment Sales

Kriwan to CoreSense™ Communications retrofit instructions

Kriwan has discontinued production of the INT69 SC2® motor protector module that has been used with 20 to 40 ton Copeland Scroll™ compressors. Kriwan modules that require replacement in field applications should be replaced with a CoreSense Communications module. The purpose of this bulletin is to provide instructions on how to perform a Kriwan to CoreSense Communications retrofit. Please refer to the Kriwan, CoreSense, and compressor model numbers listed in the table below.

Kriwan Module Part Number	Replacement CoreSense kit Number	Module Voltage	Compressor Model Numbers
071-0649-01	998-0331-00	24 VAC	ZR250-380KCE-TW*
071-0649-00	998-0330-00	120/240 VAC	ZP235-485KCE-TW*

Kriwan modules that are deemed non-operational and in-warranty should be returned through the normal channel for warranty purposes. Kriwan modules that are non-operational and out of warranty should be field scrapped in the appropriate manner. If you have any questions, please contact your Emerson Climate Application Engineer or visit Emerson's Online Product Information (OPI) located at EmersonClimate.com

Removing the Kriwan INT69 SC2® Module

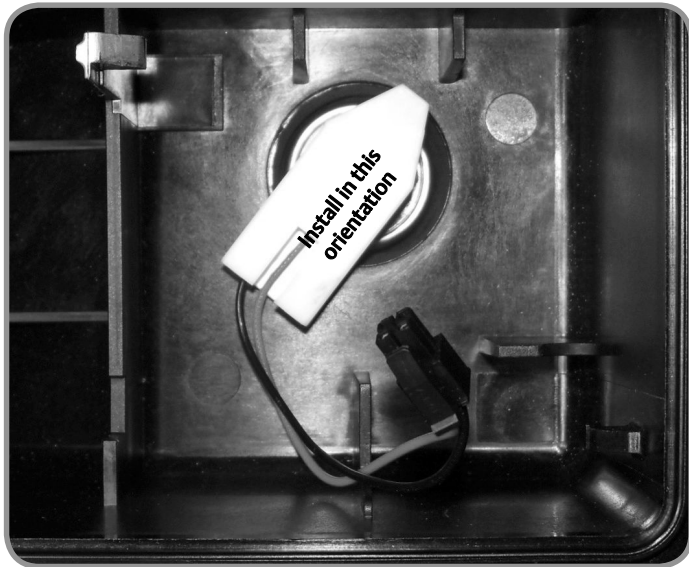
1. Disconnect and lock-out the high voltage and control voltage supply to the unit.
2. Using a straight blade screwdriver, carefully depress the tabs holding the terminal cover to the terminal box to remove the terminal cover. Before proceeding, use a volt meter to verify that the power has been disconnected from the unit.

3. Using wire markers, label the M1, M2, T1, and T2 wires that are connected to the Kriwan module. Using needle nose pliers, remove the M1, M2, T1, T2, S1 and S2 wires from the Kriwan motor protector module.
4. Using your fingers to gently bend the tabs holding the Kriwan module in the terminal box, remove the Kriwan module from the terminal box (see picture below).
5. Take note of the S1-S2 plug orientation on the compressor thermistor fusite. Remove the S1-S2 wire harness and plug from the compressor.

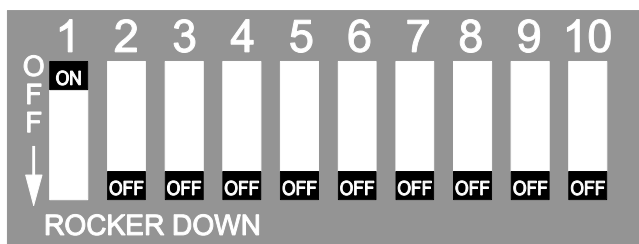


Installing the CoreSense™ Communications Module

1. A new S1-S2 thermistor wiring harness is shipped with the CoreSense kit and must be used. The wiring harness connector block should be fully inserted on the three pins in the orientation shown in the picture below for proper operation.



2. Review the dip switch settings on the CoreSense module. Dip switch #1 should be “on” (up position) and all other dip switches should be “off” (down position) for standalone (non-communicating) operation. Please refer to the dip switch diagram below.



3. Install the CoreSense module in the compressor terminal box as shown below, with the tabs holding the module in place. Route the thermistor wire harness as shown and plug the harness into the 2x2 socket on the CoreSense module.

4. Connect the previously labeled M1, M2, T1, and T2 wires to the appropriate terminals on the CoreSense module.
5. Connect the L1, L2, and L3 phase sensing wire to the L1, L2, and L3 compressor terminal block connections. See the compressor terminal cover diagram for identification of the L1, L2, and L3 terminal block connections.
6. Double check the installation and make sure all connections are secure. Install the compressor terminal cover.
7. The CoreSense retrofit is complete and the system can be put back into service.



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