

SERVICE BULLETIN

Carrier Corporation



Number: SMB08-0053 **Date:** 11/18/2008 **Supersedes:** New

Title: 30RA Condenser Fan Motor Failures with Motormaster V

Author: Lewis Clark

Dept: NAC Service Engineering

Category: General

Dealer Bulletin Number: DSB08-0053

MODEL CATEGORY: Chillers (30 Series)

MODELS AFFECTED:

Carrier Model: 30RAN010, 015, 018, 035 & 040

Unit Serial Numbers: 0100Fxxxxx through 3404Fxxxxx
2504Qxxxxx through 3507Qxxxxx

SITUATION: Leroy-Somer two-speed condenser fan motors are experiencing premature failure on units equipped with Motormaster V (MMV) head pressure control. These motors are used on the 30RAN010, 015 and 018 and the 035 and 040 for circuit B only.

SOLUTION: A single speed 1140 rpm fan motor manufactured by GE has been qualified for use with Motormaster V on the subject units. See Parts/Kits for replacement motor when motor is being used with Motormaster V Control.

Depending on age of unit, you may also need to replace the Motormaster V controller. See Parts/Kits for serial number breaks and replacement parts required.

Factory Action: Beginning with serial number 4207Qxxxxx units ordered with the Low Ambient Motormaster Control FIOP will ship with the new GE single speed motor. Condenser fan motor replacement will be necessary for field installed Motormaster V Low Ambient Control. Field installed Motormaster V Low Ambient Control accessory kits have also been revised to include the replacement motor.

Model	Voltage - Hz			
	208/230-60	460-60	575-60	380-60
30RAN010-018	30RA-900---031	30RA-900---032	30RA-900---033	30RA-900---037
30RAN035-040	30RA-900---034	30RA-900---035	30RA-900---036	30RA-900---038

Table 1 - Field Installed Accessory Kits

The Leroy-Somer two speed fan motor will continue to be supplied on standard units without the Motormaster V Low Ambient Control FIOP.

Distributor Action: Inform customers about replacement condenser fan motor by distributing the DSB.

Field Action: Update units that experience failure of the Leroy-Somer 2 speed condenser fan motor when used with Motormaster V Low Ambient Control.

Parts/Kits

Replacement Parts Required	
PSN 4203F	Motor, Brackets and Controller
SSN 4203F	Motor and Brackets

Motor Part Numbers				
Unit Voltage	208/230-3-60 230-3-60	380-3-60	460-3-60	575-3-60
Original Motor (L-S)	HD56AZ651	HD56AZ380	HD56AZ460	HD56AZ576
Replacement Motor (GE) *	HD56AK656	HD56AK382	HD56AK656	HD56AK578

* New mounting brackets are required for the GE motor. **Qty (4) – p/n 30RA402081.**

Motormaster V Part Numbers			
Unit Voltage	208/230-3-60 230-3-60	380-3-60 460-3-60	575-3-60
Original MMV (PSN 4203F)	HR46TN001	HR46TN002	HR46TN003
Replacement MMV (SSN 4203F)	HR46TN004	HR46TN005	HR46TN006