## **Compressor Checklist**

Approximately one-third of all air conditioning and refrigeration compressors returned under warranty are NFF (No Fault Found). (Emerson Climate Technologies-achrnew.com-03-30-2009 edition)

It is for this reason that we have implemented a policy that requires a Compressor Checklist to be completed in the field at the time of compressor failure diagnosis. This checklist will aid the technician with operational and non-operational tests that can be performed to confirm the failure. We have experienced several occasions when the use of this checklist has resulted in a misdiagnosed compressor.

If your technician concludes a compressor on a ClimaCool chiller has failed, and it is under warranty, we require that you forward the completed Compressor Checklist to <a href="mailto:Dsparks@climacoolcorp.com">Dsparks@climacoolcorp.com</a>. Once determination has been made that the technician's diagnosis is accurate, we will proceed with the warranty process.

After the compressor has been replaced, the technician will use the same checklist to confirm the health of the system and return the completed form to <a href="mailto:Dsparks@climacoolcorp.com">Dsparks@climacoolcorp.com</a>. We welcome the opportunity to discuss all the data collected to assist in determining the root cause of failure and make recommendations to correct a system problem that may be at fault.

We appreciate your continued support as we work together developing effective service tools benefiting our valued Reps, our mutual customers and ClimaCool.





## **Compressor Checklist**

Fill out checklist as com	olete as possible to	confirm fail	ure; also afte	r replaceme <u>nt</u>	to help d	etermine ro	oot cause.	
Project Name:			Contractor Name:					
Address:			Address:					
City/State:			City/State:					
Stort up Dt.			Phone:					
Todays Dt.:								
Module				C	ompres	SOL		
Model#:			Model #:		Zem pres	301		
Serial #:	-		Serial # 1:					
Chiller #: Bank #			Serial # 2:					
► All wiring terminations in mod		and compress	sors tightened	<u>l:</u>	Yes		No	
► Rotation of scroll compressor					☐ Yes		No	
► Phase Monitor installed and properly connected:					□ Yes		No	
	Resistance	Reading o	of Compres	sor Winding	S			
(Be sure	to remove powe	er, lock ou	t and tag o	ut before pe	erformin	g test)		
L1 /L2 I	_1 /L3		L2 / L3					
L1 / Ground	_2 / Ground		L3 / Ground					
Motor thermistor resistance:		NOTE:	(If > 2750 OHMS	allow compress	or motor tir	ne to cool and	l recheck)	
Is compressor hot to the touch?	Se	e compressor	motor PTC instru	uctions for furthe	r troublesh	ooting inform	ation	
Phase to Gro	und Voltage			Phase '	to Phase	• Voltage		
MEASURE VAC ON LOAD		СВ	ME	ASURE VAC A			TACTOR	
L1 L2	L3		L1/L2	1.2/1.3		L1/L3		
	npressor Is O omplete the S Circuit #1	- ·		_	cuit.			
Amperage: L1 L2	L3		Amperage:	L1	L2	L3		
· •	HEAT	COOL				— HEAT	COOL	
Sight Glass Oil Level:	IILAI	COOL	Sight Glass	Oil I evel:		IILAI	0001	
Suction Pressure:			Suction Pres				_	
Suction Line Temperature:			Suction Line	Temperature:			_	
Compressor Superheat:			Compressor	-		-		
Discharge Pressure:			Discharge Pı	<del>-</del>				
Discharge Line Temperature: 2	220 max		Discharge Li	ne Temperatur	r <b>e</b> : 220 ı	max		
Discharge Gas Superheat:	50 min		Discharge G	as Superheat:	50 m	in		
Liquid Line Temperature:			Liquid Line 1	Temperature:				
Liquid Subcooling:			Liquid Subco	ooling:				
<b>Evaporator Entering Water Temp</b>	.:		Evaporator E	Intering Water	Temp.:			
<b>Evaporator Leaving Water Temp.</b>	:		Evaporator L	eaving Water	Temp.:			
<b>Condenser Entering Water Temp</b>	.:	-	Condenser E	ntering Water	Temp.:			
Condenser Leaving Water Temp.	<u> </u>	-		eaving Water.	=			
<b>Evaporator Pressure Drop:</b>			-	Pressure Drop:			_	
Condenser Pressure Drop:			Condenser P	Pressure Drop:				
Comments:								

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