SERVICE BULLETIN





SR - 084

DATE: January 20, 2022

TO: All Service and Parts Managers

SUBJECT: Rotary Compressors Require Hard Start Kit when Paired with Indoor TXV

All outdoor equipment utilizing a rotary compressor when matched with a TXV equipped indoor coil are <u>**REQUIRED**</u> to have a hard start kit installed per the Installation Instructions. Shown below are the manufacturer approved hard start kits. The appropriate hard start kit can be found in the accessories section of the Spec Sheet of the outdoor equipment. Operating the unit without the proper Hard Start Kit can cause damage to or failure of the unit. Such damage or failure is not covered under the unit's warranty.

Hard Start Kit Part #'s

Notice Shown in IO's

Part #	Description	ſ
CSR-U-1	Hard-start Kit	
CSR-U-2	Hard-start Kit	
CSR-U-3	Hard-start Kit	



UNITS WITH ROTARY OR RECIPROCATING COMPRESSORS AND NON-BLEED TXV'S REQUIRE A HARD START KIT.



NOTICE: Any unit with a rotary or scroll compressor and a line set length over 79' would require a hard start kit.

In this example, the GSX14018, 024 and 030 have rotary compressors. If the Evaporator coil has a Thermal Expansion Valve (TXV or TEV) metering device, the outdoor unit must have a factory installed or field installed hard start kit. If compressor type is unknown, please refer to one of the discovery options below.

1. Review the equipment Spec Sheets shown in the example below

- 2. Call your Distributor or Customer Service Representative
- 3. Call Goodman Tech Support at 888-593-9988

If you have questions regarding this bulletin, please contact TechServices@goodmanmfg.com

	G5X14 0181M*	GSX14 0191K*	G5X14 0241L*	G5X14 0251L*	G5X14 0301K*	G5X14 0301N*	GSX14 0311K*
CAPACITIES							
Max Cooling (BTU/h)	18,000	18,000	24,000	24,000	30,000	30,000	30,000
SEER/EER	14/11.5	14/12.2	14/12	14/12.2	14/12.0	14/11.5	14/12.2
Decibels	75	71	74	71	72	73	72
COMPRESSOR							
RLA	60	9.0	77	13.5	12.8	12.1	12.8
LRA	37 5	47.5	3 .0	58.3	64	3	67.8
Type	Rotary	Scroll	Rotary	Scroll	Scroll	Rotary	Scroll

The GSXN3N1810A* will require a field installed hard start

The specification sheets accessories section, located at the end of the spec sheet file, will tell you which units have factory installed hard start kits and which ones don't. kit if you used with an evaporator coil with a TXV.

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Model #	DESCRIPTION	GSXN3 N1810A*	GSXN3 N2410A*	GSXN3 N3010A*	GSXN3 N3610A*	GSXN3 N4210A*	GSXN3 N4810A*	GSXN3 N6010A*
ABK-20	Anchor Bracket Kit ^	Х			Х	Х	Х	Х
ASC-01	Anti-Short Cycle Kit	Х			Х	Х	Х	Х
Factory Installed Hard-start Kit			Х	Х				
CSR-U-1	Hard-start Kit	Х			Х			
CSR-U-2	Hard-start Kit				Х	Х	Х	Х
CSR-U-3	Hard-start Kit						Х	Х
FSK01A1	Freeze Protection Kit	Х	Х	Х	Х	Х	Х	Х

Accessories

List of Goodman/Amana Condensers (AC and HP) With or Without Hard Start Kits Factory Installed 2024

All Outdoor Condensers utilizing a rotary Compressor when Match with

a TXV Equipped indoor coil are REQUIRED to have a hard start kit

installed per the Installation Instructions

Model Numbers	Compressor MFG	Compressor Type	Hard-start Kit Factory Installed		Model Numbers	Compressor MFG	Compressor Type	Hard-start Kit Factory Installed	
ASXN3N1810AA	Rechi	Rotary	No	AC	GSXC70**10AA		Scrolls - all		AC
ASXN3N2410AA	Rechi	Rotary	Yes	AC					
ASXN3N3010AA	Panasonic	Rotary	Yes	AC	GSZB401810AA	Rechi	Rotary	Yes	HP
					GSZB402410AA	Rechi	Rotary	Yes	HP
ASXN401810AA	Rechi	Rotary	Yes	AC					
ASXN402410AA	Rechi	Rotary	Yes	AC					
ASXN403010AA	Rechi	Rotary	Yes	AC	GSZC70**10AA		Scrolls - all		НР
ASXC70**10AA		Scrolls - all		AC	VSXN3N1810AA	Rechi	Rotary	No	AC
					VSXN3N2410AA	Rechi	Rotary	Yes	AC
ASZN401810AA	Rechi	Rotary	Yes	НР	VSXN3N3010AA	Panasonic	Rotary	Yes	AC
ASZN402410AA	Rechi	Rotary	Yes	НР	I I			2	- Ale
ASZC70**10AA		Scrolls - all		НР					
GSXN3N1810AA	Rechi	Rotary	No	AC				Ø	Dunna .
GSXN3N2410AA	Rechi	Rotary	Yes	AC			~		
GSXN3N3010AA	Panasonic	Rotary	Yes	AC		B			
								00	· · · ·
GSXN401810AA	Rechi	Rotary	Yes	AC					300
GSXN402410AA	Rechi	Rotary	Yes	AC	Rotar		ciprocating	c	Scroll
GSXN403010AA	Panasonic	Rotary	Yes	AC	notai	y ne	cipiocating	Ĺ	

