

NOTICE

Applies to Copeland Scroll™ Models ZP90 to 182KCE-TF* /TW* and ZR84 to 190KC(E)-TF* /TW*



Copeland Scroll™

Advanced Scroll Temperature Protection

Compressor may stop pumping with motor running.
Turn off and wait until cool. May need more than one hour to reset.

*El compresor puede dejar de comprimir, aun con el motor funcionando.
Apáguelo y espere a que se enfríe. Puede requerir más de una hora para restablecerse.*

052-2905-00

EmersonClimate.com/ASTP

Copeland Scroll™ compressors with the above label have the Advanced Scroll Temperature Protection scheme (ASTP). This protection device will cause the compressor to ‘unload’ (as witnessed by balanced pressures) but continue to run when the discharge gas exceeds a critical temperature. Normal discharge temperatures may vary between 100°F to 250°F but conditions that cause very low suction pressures such as loss of charge, indoor blower failure or incorrect charging may cause a rapid rise in discharge temperature and activation of the ASTP. Maintaining suction pressure above 30 psig for R-407C and R-22 and above 50 psig for R-410A while running the compressor during charging will prevent the ASTP device from activating. If activated, the compressor must be de-energized and allowed time to cool before restarting.

1. Compressor runs but does not pump: If top is hot, ASTP has activated. If top is cool, compressor may be running in reverse.
2. ASTP opens during charging: While the low pressure gage may show adequate charging pressure, pressure drop through the manifold and hoses cause insufficient gas flow to the compressor resulting in high compression ratio and very high gas temperature in the scroll compression element.
3. Action: Shut off compressor and allow to cool. Cool down may take from 30 to 90 minutes depending on how long the compressor ran after ASTP activated.

To see a video and presentation about Advanced Scroll Temperature Protection visit EmersonClimateContractor.com/ASTP