

Cracking discharge lines on Large Cooling only RACs

MODELS EFFECTED: - MAY180, MAY180A, MAY220 & MAY220A

SYMPTOM:- Discharge line split on bottom U Bend.

GENERAL: - We have recognised the fault which is causing the discharge pipe to split (and subsequently causes the compressor to fail). The position that the compressor discharge pipe is saddled to the condenser coil was not consistent.

The units that are failing have the pipe saddled at the middle or bottom of the coil. This saddled position holds the pipe too rigid at the coil end, the compressor vibration is concentrated at the bottom U bend of discharge pipe causing metal fatigue at this point, resulting in the pipe splitting in this position.

If the pipe is saddled higher on the coil the entire discharge pipe is free to move and the compressor's vibration is spread across the full length of the discharge pipe, alleviating the concentration of vibration and subsequent metal fatigue. Unit manufactured after June 2003 have the pipe saddled at the top on the coil.

If working on one of the units please move the pipe saddle to the top of the condenser coil.



Incorrect pipe clamping position

Correct clamping position