

HVAC SERVICE SHEET

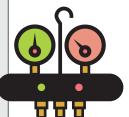
Use this service sheet to collect readings to diagnose an issue. Compare results to the standard range of values below.

MANIFOLD GAUGE PRESSURES:

The low side operating pressure range links to specific saturation temperatures from the pressure/temperature chart.

SYSTEM PRESSURE RANGE: LOW SIDE

SAT	38F - 52F	
R-410A	#113 #152. Psig	
R-454B	#103 #145. Psig	
R-32	#116 #152. Psig	

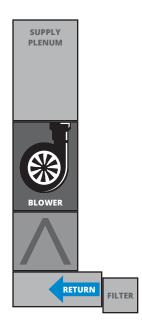


TEMPERATURE SPLIT INDOOR UNIT

Measure the temperature in the return duct and subtract the measured temperature from the supply duct.

15F - 18F Max 20F

Anything above 20F difference is a possible sign of low airflow or charge issue.



TXV SUPER HEAT RANGE

Evaporator Saturation Temp (Pressure converted to Temp) minus suction pipe temp measured 6 inches outside the evaporator.

8F - 12F

Using a clamp-on temperature sensor. Measure the suction pipe temp just after the TXV Sensing Bulb.

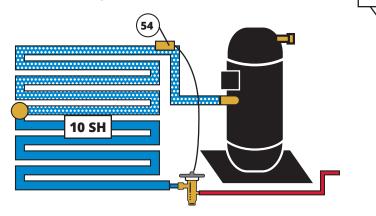


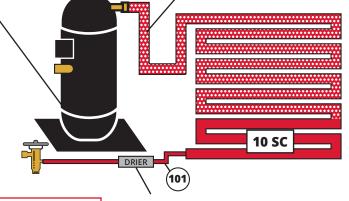
TOTAL SUPERHEAT

20F at the compressor crankcase or bottom.

DISCHARGE TEMP RANGE

145F - 185F Max 200F Above 200 is an issue.





SUPER HEAT (SH)

Higher SH = More Vapor Higher SH = Less Liquid

SUBCOOLING (SC)

Higher SC = More Liquid Higher SC = Less Vapor Filter driers should have no temperature drop across them.

1 degree is tolerable but a plan to replace it should be scheduled.





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