

Orifice Sizing Guidelines

Technical Bulletin

Product: R422D

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Application: Residential R22 A/C systems with fixed orifice

Background: Some service technicians have experienced issues achieving the proper superheat and subcooling settings after converting R22 residential A/C systems with fixed orifice to R422D. If the technician is experiencing high superheat and low suction pressure with the system charged to 96% of the original charge the orifice may be undersized.

Resolution: Use the attached guideline to size orifice appropriately.



R422D Orifice Size Guideline

Tonnage	Orifice Size R22	Recommended Orifice Size R422D
1.5 Ton	0.053	0.059
2 Ton	0.059	0.065
2.5 Ton	0.071	0.076
3 Ton	0.076	0.082
3.5 Ton	0.080	0.086
4 Ton	0.082	0.090
5 Ton	0.090	0.099

*Note - this information is a guideline; other variables may impact system performance.

If you are still experiencing issues after changing the orifice please contact the Honeywell Technical Support Team @ 800-631-8138.

Download Complete Retrofit Guide @ www.honeywell-refrigerants.com

For more information:
 Technical Support Team
 800-631-8138.
www.honeywell-refrigerants.com

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