

# R-416A

The Lower Pressure Solution



- Cost effective R-12 and R-134a replacement
- Compatible with all refrigeration oils
- Lower condensing pressures than R-22 based alternatives
- Designed for medium temperature applications
- EPA SNAP approved, ASHRAE A1/A1, UL Classified
- Can be used in most flooded evaporators, centrifugal chillers
- Minimal glide - classified as a NARM (Near Azeotrope)
- Low fractionation - it can be topped-off without loss of performance
- 99.2 % less ozone depletion than R-12
- 25% less global warming than R-134a



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For additional details, specifications and application information, contact:

CFC Refimax, LLC  
5211 Industrial Court SE  
Smyrna, GA 30080-7311  
404-352-4007 Main  
800-406-2292 Toll Free  
404-352-6959 Fax  
www.refimax.com

CFC Refimax has a complete line of other refrigerants available including R-11, R-12, R-502, R-500, etc. Contact your local distributor for these CFC Refimax products.

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TRI-HVAC-9/06

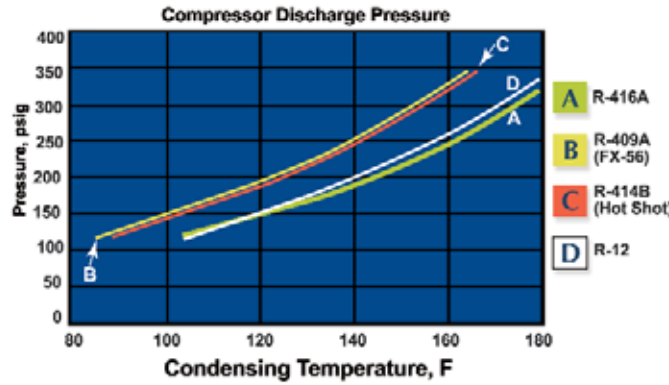
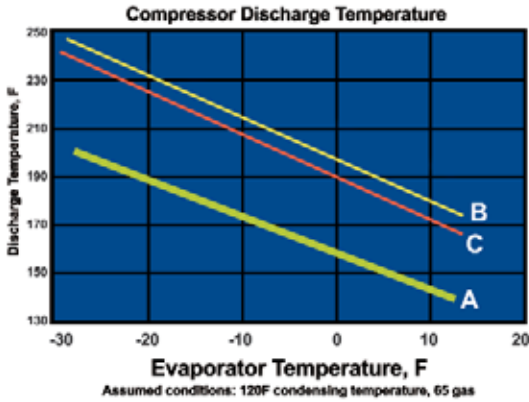


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# R-416A Lower Temperature Lower Pressure

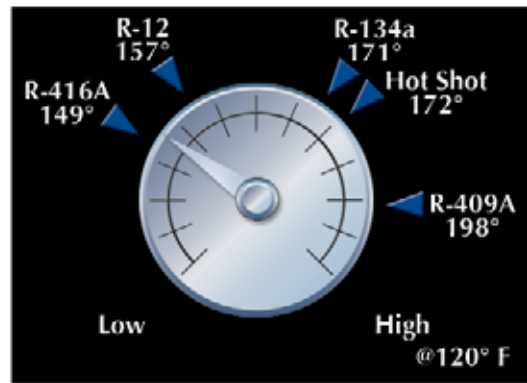


Pressure/Temperature Chart					
Temperature		R-12	134a	R-416A	
°F	°C			Liquid Pressure	Vapor Pressure
-60	-51.1	19.0			
-55	-48.3	17.3			
-50	-45.6	15.4			
-45	-42.8	13.3			
-40	-40.0	11.0	14.8		
-35	-37.2	8.4	12.5		
-30	-34.4	5.5	9.9	12.1	13.4
-25	-31.7	2.3	6.9	9.6	11.0
-20	-28.9	0.6	3.7	6.7	8.3
-15	-26.1	2.4	0.6	3.5	5.3
-10	-23.3	4.5	1.9	0.0	2.0
-5	-20.6	6.7	4.0	1.9	0.8
0	-17.8	9.2	6.5	4.0	2.8
5	-15.0	11.8	9.1	6.3	5.0
10	-12.2	14.6	11.9	8.9	7.4
15	-9.4	17.7	15.0	11.6	10.0
20	-6.7	21.0	18.4	14.6	12.8
25	-3.9	24.6	22.1	17.8	15.9
30	-1.1	28.4	26.1	21.4	19.3
35	1.7	32.6	30.4	25.2	22.9
40	4.4	37.0	35.0	29.3	26.8
45	7.2	41.7	40.1	33.7	31.1
50	10.0	46.7	45.5	38.4	35.6
55	12.8	52.0	51.3	43.5	40.5
60	15.6	57.7	57.5	49.0	45.7
65	18.3	63.8	64.1	54.8	51.3
70	21.1	70.2	71.2	61.1	57.3
75	23.9	77.0	78.8	67.7	63.7
80	26.7	84.2	86.8	74.8	70.6
85	29.4	91.8	95.4	82.3	77.8
90	32.2	99.8	104.0	90.3	85.5
95	35.0	108.3	114.0	98.8	93.7
100	37.8	117.2	124.0	108.0	102.0
105	40.6	126.6	135.0	117.0	112.0
110	43.3	136.4	147.0	127.0	121.0
115	46.1	146.8	159.0	138.0	132.0
120	48.9	157.7	171.0	149.0	143.0
125	51.7	168.6	185.0	161.0	154.0
130	54.4	181.0	199.0	173.0	166.0
135	57.2	193.5	214.0	186.0	179.0
140	60.0	206.6	229.0	200.0	192.0
145	62.8	220.3	246.0	214.0	206.0
150	65.6	234.6	263.0	229.0	221.0
155	68.3	249.5	281.0		
160	71.1	265.1	299.3		

## The Superior R-12 and R-134a Alternative

- Lower condensing pressures and temperatures than R-134a and R-22 based alternative blends
- Reliable high ambient temperature operation
- Compatible with all oils including mineral oil, alkabenzene, and polyolester (POE)

## Typical Medium Temperature (10° F to 35° F Box Temperature)



Note: EPA Regulations prohibit the mixing of different refrigerants.

Refrigerant	Condensing Temperature	Condensing Pressure
<b>R-416A</b>	<b>110° F</b>	<b>127 PSIG</b>
R-12	110° F	136 PSIG
R-134a	110° F	147 PSIG
R-414B (Hot Shot)	110° F	147 PSIG
R-409A (FX-56)	110° F	172 PSIG
<b>R-416A</b>	<b>120° F</b>	<b>149 PSIG</b>
R-12	120° F	157 PSIG
R-134a	120° F	171 PSIG
R-414B (Hot Shot)	120° F	172 PSIG
R-409A (FX-56)	120° F	198 PSIG
<b>R-416A</b>	<b>130° F</b>	<b>173 PSIG</b>
R-12	130° F	181 PSIG
R-134a	130° F	199 PSIG
R-414B (Hot Shot)	130° F	197 PSIG
R-409A (FX-56)	130° F	227 PSIG

