

R-421A

Choice® R-421A

"The Easy Choice" for R-22 Replacement

- Air Conditioning Split Systems
- Heat Pumps
- Geothermal Heat Pumps
- Cold Stores
- Supermarket Pak Systems
- Dairy Chillers
- Reach-In Storage
- Bakery Applications
- Refrigerated Transport
- Self-Contained Display Cabinets
- Walk-In Coolers

- Unique non-ozone depleting, long-term replacement for R22 refrigerant
- Environmentally **GREEN** refrigerant
- Replace R22 without unit modification
- Does not contain hydrocarbons, such as Butane, Isopentane or Isobutane
- Replaces R22 with no change of oil*
- Usable in compressors designed for R22
- Usable with Mineral, AB or POE oils
- Only 2-component blend to replace R22
- Non-flammable; Rated A1 by ASHRAE
- Comparable to R22 performance temperature range
- Usable in a wide variety of applications

REFRIGERANT FOR TOMORROW

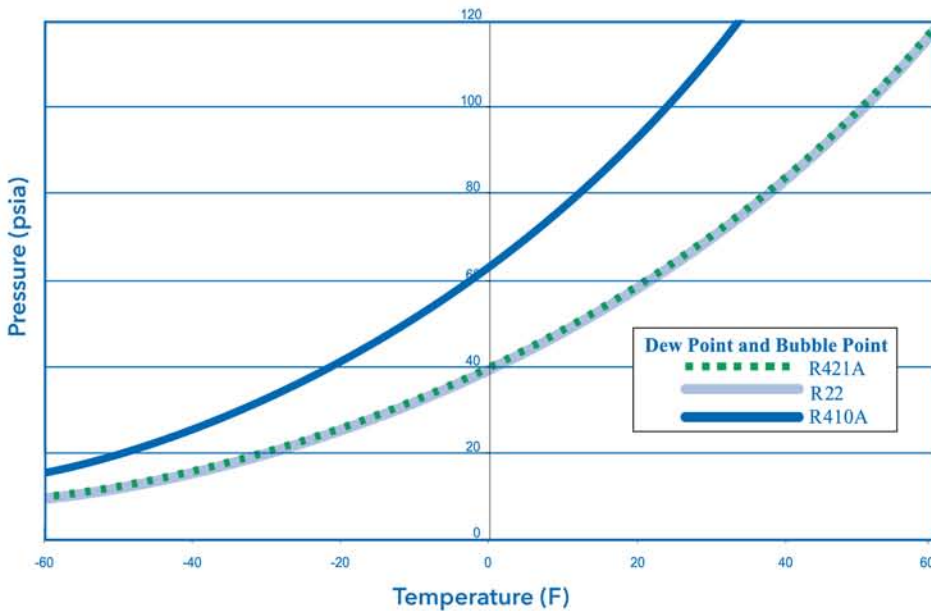


*If there is a vertical height difference of 20 feet or more between the evaporator and condenser, the system must be converted to POE.

Choice
Refrigerants

Call our HOTLINE: 1-855-GET-421A or visit www.choicerefrigerants.com to learn more.

Pressure/Temperature Choice™ R-421A Refrigerant



PRESSURE/TEMPERATURE COMPARISON
(psig / in. Hg)

Temp (F)	R421A	R22	R410A
-60	-12.5	-12.4	0.4
-55	-9.8	-9.7	2.6
-50	-6.7	-6.6	5.1
-45	-3.2	-3.2	7.8
-40	0.5	0.6	10.9
-35	2.6	2.6	14.2
-30	4.9	4.9	17.9
-25	7.4	7.4	22.0
-20	10.2	10.2	26.4
-15	13.2	13.2	31.3
-10	16.5	16.5	36.5
-5	20.1	20.1	42.2
0	24.0	24.0	48.4
5	28.3	28.3	55.1
10	32.9	32.8	62.4
15	37.8	37.8	70.2
20	43.2	43.1	78.5
25	48.9	48.8	87.5
30	55.0	55.0	97.2
35	61.6	61.5	107.5
40	68.7	68.6	118.5
45	76.2	76.1	130.2
50	84.2	84.1	142.7
55	92.8	92.6	156.0
60	101.9	101.6	170.1
65	111.5	111.2	185.1
70	121.8	121.4	201.0
75	132.6	132.2	217.8
80	144.1	143.6	235.6
85	156.2	155.7	254.4
90	169.0	168.4	274.3
100	196.7	195.9	317.3
105	211.7	210.8	340.6
110	227.5	226.4	365.1
115	244.0	242.8	390.9
120	261.4	260.0	418.0
125	279.7	278.0	446.5
130	298.9	296.9	476.5
135	319.0	316.7	508.0
140	340.1	337.4	541.2
145	362.1	359.0	576.0
150	385.3	381.7	612.8

R421A is an HFC blend replacement with zero ODP and is compatible with both synthetic and mineral oils.

R421A is a two component blend packaged with a proprietary lubricant, which we recommend, be transferred from the cylinder in the liquid phase. In any operational leak scenario, the system may be topped off without significant effort on performance.

R421A is an effective refrigerant for process cooling and air-conditioning.

R421A has demonstrated its effectiveness at higher temperatures, giving the added benefit of lower discharge temperatures. In many instances lower compressor discharge temperatures have been reported, which can be a bonus where systems are running close to the recommended maximum.

Charge the equipment with R421A as a liquid. Do not charge liquid refrigerant directly into the compressor. The total charge of R421A will depend on the type of system. For those with liquid receiver(s), it is the same as with R22, for those without liquid receiver(s) it is recommended to add sufficient charge to achieve the required evaporators temperature while maintaining acceptable superheat. For optimum performance it may be necessary to use a larger expansion valve orifice. Capillary systems do not need to be changed. NOTE: It is not unusual for the occasional bubble to be seen in the liquid line sight glass. A small number of bubbles in the sight glass is not a reliable indication of an under charged system.

E.P.A regulations stipulate that the equipment converted is clearly labeled as containing R421A.



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