

# Choice™

The easy choice

REFRIGERANT

# R421A

## *Replaces R22 in Multiple Applications*

Save Time and Save Money with a Quick and Easy Conversion to **R421A**

- ✓ **R421A** is a unique non-ozone depleting long-term replacement for R22.
- ✓ **R421A** is an environmentally **GREEN** refrigerant.
- ✓ **R421A** can replace R22 without unit modification.
- ✓ **R421A** does not contain a hydrocarbon, such as Butane.
- ✓ **R421A** can replace R22 with no change of oil.
- ✓ **R421A** can be used in compressors designed for R22.
- ✓ **R421A** can be used with Mineral, AB or POE oils.
- ✓ **R421A** is the only 2-component blend to replace R22.
- ✓ **R421A** is non-flammable and rated A1 by ASHRAE.
- ✓ **R421A** is comparable to R22 in terms of performance across the R22 temperature range.
- ✓ **R421A** can be topped off following repair of a system leak.
- ✓ **R421A** is used in a wide variety of applications including:

Air Conditioning Split Systems  
Cold Stores  
Supermarket Pak Systems

Dairy Chillers  
Reach-in Storage  
Bakery Applications

Refrigerated Transport  
Self-Contained Display Cabinets  
Walk-in Coolers

**\*CHOICE R421A** is packaged with a proprietary lubricant

*Distributed By:*



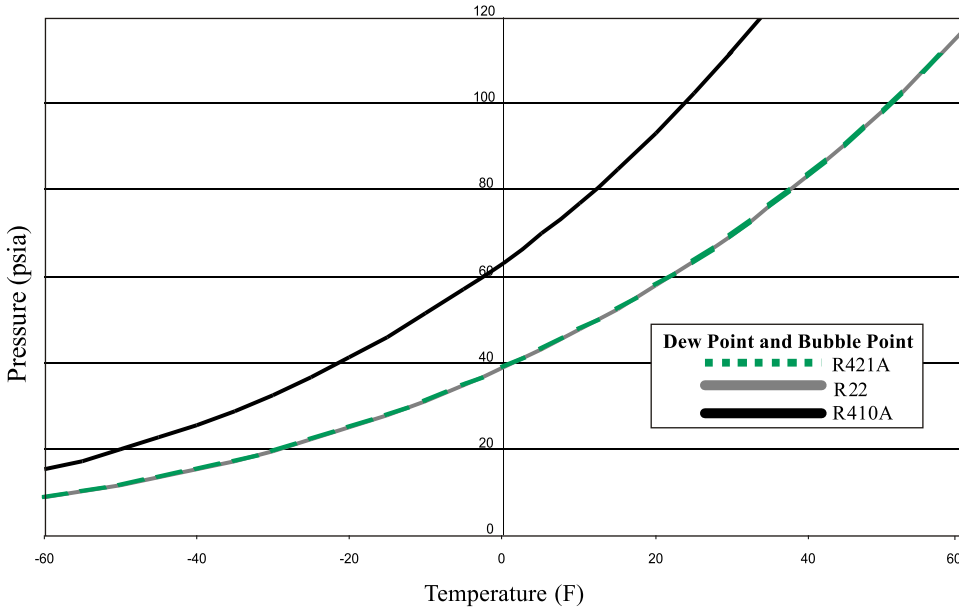
**Choice™**  
REFRIGERANT  
**R421A**

*is manufactured by:*  
**RMS of Georgia, LLC**

1-800-347-5872 [www.rmsgas.com](http://www.rmsgas.com)

**For Technical Information or To Locate a Wholesaler in Your Area  
Call 1-888-659-COLD**

## PRESSURE / TEMPERATURE CHOICE R421A REFRIGERANT



## PRESSURE/TEMPERATURE COMPARISON PSIG/ VACUUM IN INCH WATER

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 a 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 with **R421A** without significant effect 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 evaporator 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**.