

RS-53 IS THE ONLY TRUE RETROFIT REPLACEMENT FOR EXISTING R410A SYSTEMS

- Ultra low GWP @ 909 (AR5)
- Non-flammable, low toxicity
- Replaces R410A in air conditioning & refrigerant systems
- A close match for R410A in cooling capacity
- Similar energy efficiency to R410A
- Equal discharge pressure to R410A
- Similar flow rate to R410A
- Compatible with lubricants commonly used with R410A
- Zero Ozone Depletion Potential

Ask for RS-53!



Major components of all RS Series products are made in the USA.

RS-53 Pressure/Temperature Comparison				
VALUES SHOWN:		"HG and PSIG"		* DENOTES "HG"
TEMPERATURE		RS-53 LIQUID BUBBLE PT.	RS-53 VAPOR DEW PT.	R410A Bold= BUBBLE PT.
°C	°F	PSIG	PSIG	PSIG
-40.00	-40	24.55	-2.96*	10.65
-38.89	-38	26.26	-2.27*	11.96
-37.78	-36	28.03	-1.55*	13.31
-36.67	-34	29.85	-0.79*	14.72
-35.56	-32	31.73	0.0	16.18
-34.44	-30	33.67	0.8	17.70
-33.33	-28	35.67	1.7	19.27
-32.22	-26	37.73	2.6	20.90
-31.11	-24	39.86	3.5	22.60
-30.00	-22	42.04	4.5	24.36
-28.89	-20	44.29	5.5	26.18
-27.78	-18	46.61	6.6	28.06
-26.67	-16	48.99	7.7	30.01
-25.56	-14	51.43	8.9	32.03
-24.44	-12	53.95	10.0	34.12
-23.33	-10	56.54	11.3	36.28
-22.22	-8	59.2	12.6	38.51
-21.11	-6	61.93	13.9	40.81
-20.00	-4	64.73	15.3	43.20
-18.89	-2	67.6	16.8	45.66
-17.78	0	70.56	18.3	48.20
-16.67	2	73.59	19.8	50.82
-15.56	4	76.69	21.4	53.52
-14.44	6	79.88	23.1	56.31
-13.33	8	83.14	24.9	59.18
-12.22	10	86.49	26.6	62.14
-11.11	12	89.91	28.5	65.19
-10.00	14	93.42	30.4	68.33
-8.89	16	97.02	32.4	71.57
-7.78	18	100.7	34.5	74.90
-6.67	20	104.46	36.6	78.33
-5.56	22	108.31	38.8	81.85
-4.44	24	112.26	41.0	85.48
-3.33	26	116.29	43.4	89.20
-2.22	28	120.41	45.8	93.04
-1.11	30	124.62	48.3	96.97
0.00	32	128.93	50.9	101.02
1.11	34	133.33	53.5	105.17
2.22	36	137.83	56.2	109.44
3.33	38	142.41	59.1	113.82
4.44	40	147.11	62.0	118.31
5.56	42	151.89	65.0	122.93
6.67	44	156.78	68.0	127.66
7.78	46	161.75	71.2	132.52
8.89	48	166.84	74.5	137.49
10.00	50	172.03	77.8	142.60
11.11	52	177.32	81.3	148.37
12.22	54	182.72	84.8	153.73
13.33	56	188.21	88.5	159.24
14.44	58	193.82	92.2	164.90
15.56	60	199.54	96.1	170.67
16.67	62	205.37	100.1	176.58
17.78	64	211.3	104.1	182.65
18.89	66	217.33	108.3	188.85
20.00	68	223.49	112.6	195.20
21.11	70	229.76	117.0	201.70

*For a complete PT chart of RS-53 and more, please use the QR Code located on the inner right corner of this brochure.

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Retrofit R410A

Non-Flammable
Drop-in
Replacement for
Existing 410A
Systems!



with RS-53

The NEW generation of
R410A Replacement
Refrigerants has arrived . . .

RETROFIT PROCEDURE FOR REPLACING R410A WITH RS-53 (R470A)

RS-53 (R470A) is suitable to replace R410A across a range of applications, including residential, commercial and larger cooling systems. When retrofitting an R410A system with RS-53, ComStar offers the following guidelines.

9. Clearly label the system to show it contains RS-53. You're complete! 😊

8. Check system thoroughly for leaks; and

7. Where a thermostatic expansion valve (TXV) is present and for optimum performance, make adjustments to attain the sweet spot. This is not necessary for residential systems.

6. Switch on the unit and compare the baseline data, monitor sight glasses, suctionline pressure and temperature, and discharge temperature; add additional RS-53 up to the recommended R410A system charge amount as needed

5. Having evacuated the system, liquid charge the unit with RS-53 up to 90% of the original charge amount of R410A and then compare to baseline data

4. Replace the filter/drier

3. Check the manufacturer's specifications for the unit to find the recommended R410A charge in order to determine the amount of RS-53 to add

2. Record baseline data to establish the normal operating conditions for the equipment

1. Ensure the right equipment is available (e.g., recovery unit and cylinders, containers for recovered lubricant, vacuum pump, weighing scales, replacement drier, etc.)



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