

1-866-999-2653
www.rscool.com

Refrigerant Services Inc.

GENERAL REPLACEMENT GUIDE

All RS Series are non-flamable and have an ASHRAE A1 Safety Rating



Android and Apple
Mobile Apps Available

R-404A
R-507A

R-502

R-22

R-12

R-401A(MP39)
R-409A(FX56)
R-414B(Hotshot)

A/C and Med. Temp Refrig.
Temp Range
+10C to -5C

A/C , Med. & Low Temp Refrig.
Temp Range +10C to -35C
Low Glide, Suitable for Flooded
Evap and Shell & Tube
Chillers

A/C , Med. & Low Temp Refrig.
Temp Range +10C to -35C
Low GWP only (1765)

R-402A(HP80)
R-408A(FX10)

R-426A
(RS-24)

No oil change
required. Similar
pressures, flow rate,
capacity and COP.
Wide temp range
(H/M/L). No system
modifications
required.

RS-44
(R-424A)

No oil change
required.
Similar mass flow ,
capacity and COP.
No system
modifications
required.

RS-45
(R-434A)

No oil change
required.
Similar capacity
and COP. May
require changes to
expansion device.

RS-70
(R-453A)

No oil change
required.
Similar mass flow ,
capacity and COP.
No system
modifications
required.

R-428A
(RS-52)

No oil change
required.
Similar flow rate, ca-
pacity, and COP.
No system
mods required.

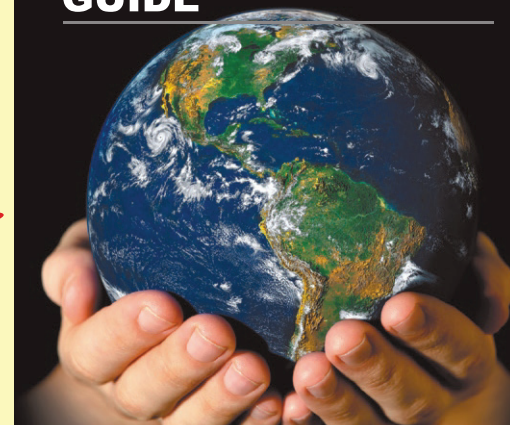
R-442A
(RS-50)

No oil change
required. Similar flow
rate, increased capacity,
significantly higher
energy efficiency.
No system mods
required, low GWP
only (1888).

A COOL NEW WORLD. THE FUTURE IS HERE



GENERAL REPLACEMENT GUIDE



A COOL NEW WORLD. THE FUTURE IS HERE



Refrigerant Services Inc.

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RS-24						RS-44						RS-45						RS-50						RS-52						RS-70													
PRESSURE / TEMPERATURE COMPARISON						PRESSURE / TEMPERATURE COMPARISON						PRESSURE / TEMPERATURE COMPARISON						PRESSURE / TEMPERATURE COMPARISON						PRESSURE / TEMPERATURE COMPARISON						PRESSURE / TEMPERATURE COMPARISON													
Values shown: “HG and PSIG” *Denotes “HG”						Values shown: “HG and PSIG” *Denotes “HG”						Values shown: “HG and PSIG” *Denotes “HG”						Values shown: “PSIG *Denotes “HG”						Values shown: “HG and PSIG” *Denotes “HG”						Values shown: “PSIG *Denotes “HG”													
TEMPERATURE			RS-24 Liquid Bubble Pt.	RS-24 Vapour Dew Pt.	R-12		TEMPERATURE			RS-44 Liquid Bubble Pt.	RS-44 Vapour Dew Pt.	R-22		TEMPERATURE			RS-45 Liquid Bubble Pt.	RS-45 Vapour Dew Pt.	R-22		TEMPERATURE			RS-50 Liquid Bubble Pt.	RS-50 Vapour Dew Pt.	R-22	R-404A	R-507A		TEMPERATURE			RS-52 Liquid Bubble Pt.	RS-52 Vapour Dew Pt.	R-502		TEMPERATURE			RS-70 Liquid Bubble Pt.	RS-70 Vapour Dew Pt.	R-22	
	C	F	PSIG	PSIG	PSIG			C	F	PSIG	PSIG	PSIG			C	F	PSIG	PSIG	PSIG			C	F	PSIG	PSIG	PSIG					C	F	PSIG	PSIG	PSIG			C	F	PSIG	PSIG	PSIG	
	-40	-40	12.6*	16.3*	11.1*		-50	-58.0	12.7*	18.7*	11.4*		-50	-58.0	6.9*	10.1*	11.4*		-50	-58	4.8*	12.3*	11.4*	5.5*	4.5*		-50	-58.0	2.5*	3.8*	6.0*		-50	-58	9.1*	15.8*	11.4*						
	-38	-36.4	10.8*	14.8*	9.3*		-48	-54.4	10.9*	17.3*	9.4*		-48	-54.4	4.5*	7.9*	9.4*		-48	-54.4	2.2*	10.3*	9.4*	1.4*	2.1*		-48	-54.4	0	1.2*	3.0*		-48	-54.4	6.9*	14.1*	9.4*						
	-36	-32.8	8.9*	13.1*	7.3*		-46	-50.8	8.9*	15.9*	7.2*		-46	-50.8	1.9*	5.6*	7.2*		-46	-50.8	0.7*	8.1*	7.2*	0.1	0.9		-46	-50.8	1.5	0.8	0		-46	-50.8	4.6*	12.4*	7.2*						
	-34	-29.2	6.7*	11.3*	5.1*		-44	-47.2	6.7*	14.3*	4.8*		-44	-47.2	0.45	3.0*	4.8*		-44	-47.2	1.8*	5.7*	4.8*	0.7	1.7		-44	-47.2	3.2	2.4	0.6		-44	-47.2	2.1*	10.5*	4.8*						
	-32	-25.6	4.4*	9.3*	2.8*		-42	-43.6	4.3*	12.5*	2.2*		-42	-43.6	1.9	0.2*	2.2*		-42	-43.6	3.5	3.0*	2.2*	2.4	3.5		-42	-43.6	4.9	4.0	2.5		-42	-43.6	0.3	8.4*	2.2*						
	-30	-22	1.9*	7.2*	0.4*		-40	-40.0	1.8*	10.5*	0.3		-40	-40.0	3.5	1.4	0.3		-40	-40	5.3	0	0.3	4.3	5.4		-40	-40.0	6.7	5.8	4.1		-40	-40	1.8	6.1*	0.3						
	-28	-18.4	0.4	4.9*	1.1		-38	-36.4	0.5	8.4*	1.8		-38	-36.4	5.2	3.0	1.8		-38	-36.4	7.1	1.4	1.8	6.3	7.5		-38	-36.4	8.7	7.7	6.0		-38	-36.4	3.4	3.6*	1.8						
	-26	-14.8	1.8	2.4*	2.5		-36	-32.8	1.9	6.1*	3.4		-36	-32.8	7.1	4.7	3.4		-36	-32.8	9.2	3	3.4	8.5	9.8		-36	-32.8	10.8	9.7	7.8		-36	-32.8	5.1	1*	3.4						
	-24	-11.2	3.3	0.2	3.9		-34	-29.2	3.5	3.6*	5.1		-34	-29.2	9.1	6.4	5.1		-34	-29.2	11.4	4.8	5.1	9.6	11		-34	-29.2	13.0	11.9	9.8		-34	-29.2	6.9	0.9	5.1						
	-22	-7.6	4.9	1.5	5.5		-32	-25.6	5.2	0.9*	6.9		-32	-25.6	11.2	8.4	6.9		-32	-25.6	13.7	6.7	6.9	12	13.5		-32	-25.6	15.4	14.3	12.0		-32	-25.6	8.9	2.5	6.9						
	-20	-4	6.6	3.0	7.2		-30	-22.0	6.9	0.9	8.9		-30	-22.0	13.4	10.5	8.9		-30	-22	16.2	8.7	8.9	14.6	16.2		-30	-22.0	17.9	16.7	14.0		-30	-22	11	4.2	8.9						
	-18	0.4	8.5	4.7	9.3		-28	-18.4	8.8	2.5	11.0		-28	-18.4	15.8	12.7	11.0		-28	-18.4	18.8	10.9	11	17.4	19.1		-28	-18.4	20.7	19.4	16.5		-28	-18.4	13.2	6	11						
	-16	3.2	10.5	6.5	10.8		-26	-14.8	10.9	4.2	13.2		-26	-14.8	18.3	15.1	13.2		-26	-14.8	21.7	13.3	13.2	20.4	22.2		-26	-14.8	23.6	22.2	19.1		-26	-14.8	15.6	7.9	13.2						
	-14	6.8	12.6	8.3	12.8		-24	-11.2	13.1	5.9	15.6		-24	-11.2	21.1	17.6	15.6		-24	-11.2	24.7	15.8	15.6	22	23.8		-24	-11.2	26.6	25.2	21.9		-24	-11.2	18.2	10	15.6						
	-12	10.4	14.8	10.3	14.9		-22	-7.6	15.4	7.8	18.1		-22	-7.6	23.9	20.3	18.1		-22	-7.6	27.9	18.5	18.1	25.3	27.2		-22	-7.6	29.8	28.4	24.8		-22	-7.6	20.9	12.2	18.1						
	-10	14.0	17.2	12.5	17.1		-20	-4	17.8	9.8	20.8		-20	-4	27.0	23.2	20.8		-20	-4	31.3	21.3	20.8	28.8	30.9		-20	-4	33.3	31.7	27.5		-20	-4	23.8	14.6	20.8						
	-8	17.6	19.7	14.7	19.4		-18	0.4	20.4	12.0	24.3		-18	0.4	30.2	26.3	24.3		-18	0.4	34.9	24.3	24.3	32.6	34.8		-18	0.4	36.9	35.3	31.4		-18	0.4	26.8	17.1	24.3						
	-6	21.2	22.4	17.2	21.9		-16	3.2	23.2	14.3	26.7		-16	3.2	33.6	29.5	26.7		-16	3.2	38.7	27.6	26.7	36.6	38.9		-16	3.2	40.8	39.0	34.1		-16	3.2	30	19.8	26.7						
	-4	24.8	25.2	19.7	24.5		-14	6.8	26.2	16.8	29.9		-14	6.8	37.2	32.9	29.9		-14	6.8	42.7	31	29.9	38.7	41.1		-14	6.8	44.8	43.0	37.7		-14	6.8	33.5	22.7	29.9						
	-2	28.4	28.2	22.4	27.2		-12	10.4	29.2	19.4	33.3		-12	10.4	41.0	36.5	33.3		-12	10.4	47	34.7	33.3	43.1	45.7		-12	10.4	49.1	47.2	41.4		-12	10.4	37.1	25.7	33.3						
	0	32.0	31.4	25.3	30.1		-10	14.0	32.5	22.2	36.8		-10	14.0	45.1	40.3	36.8		-10	14.0	51.5	38.6	36.8	47.8	50.5		-10	14.0	53.6	51.6	45.4		-10	14.0	40.9	29	36.8						
	2	35.6	34.7	28.3	33.1		-8	17.6	35.9	25.1	40.6		-8	17.6	49.3	44.4	40.6		-8	17.6	56.2	42.7	40.6	52.7	55.6		-8	17.6	58.3	56.3	49.6		-8	17.6	45	32.4	40.6						
	4	39.2	38.2	31.5	36.3		-6	21.2	39.6	28.3	44.6		-6	21.2	53.7	48.6	44.6		-6	21.2	61.2	47	44.6	58	61		-6	21.2	63.3	61.2	53.9		-6	21.2	49.2	36	44.6						
	6	42.8	41.9	34.9	39.6		-4	24.8	43.5	31.6	48.7		-4	24.8	58.4	53.1	48.7		-4	24.8	66.5	51.6	48.7	60.7	63.8		-4	24.8	68.5														