

Invest in Efficiency. Discover the Lifetime Value of Opteon™ XL41 (R-454B).



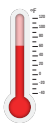
OK to Top Off

No need for complete charge removal or replacement! R-454B can be topped off to simplify maintenance and keep systems running smoothly.



POE Compatible

Works with industry-standard R-410A lubricants for hassle-free use.



Lower Discharge Temperature vs. R-32

Improved thermal efficiency in an HVAC system generally leads to prolonged compressor life and reduced repair costs.



Chosen by Leading OEM's

80% of US OEMs have selected R-454B as their R-410A replacement.



Lowest GWP R-410A Alternative

Reduced environmental impact without compromising performance. Stay compliant while minimizing operational costs and maximizing sustainability!



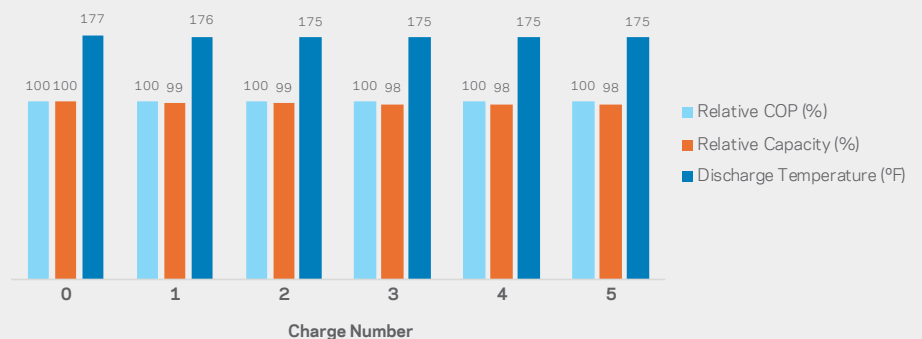
R-410A-like Characteristics, a Seamless Transition!

Enjoy similar charging, servicing, and troubleshooting procedures.

Efficiency Meets Sustainability, Contact Us Today.



The study below was modeled to show how five (5) consecutive worst-case leak recharges affect system performance using Opteon™ XL41 (R-454B).



You can top off R-454B!

- The worst-case leak scenario, from a fractionation perspective, is a slow, vapor leak from a two-phase region, where 50% of the charge is lost.
- The conditions used to compare performance in a typical AC cycle: 45°F mean evaporating temperature, 105°F mean condensing temperature, 70% isentropic efficiency, 20°F of superheat, and 10°F of subcooling.
- All leaks are different in their nature. They can vary by location, amount, phase, temperature, and speed.
- Not all leaks have the potential to fractionate a blend.



Pressure / Temperature Chart

SAFETY GROUP	Freon™ 410A (R-410A)		Opteon™ XL41 (R-454B)		SAFETY GROUP	Freon™ 410A (R-410A)		Opteon™ XL41 (R-454B)		SAFETY GROUP	Freon™ 410A (R-410A)		Opteon™ XL41 (R-454B)	
	A1	A2L	A1	A2L		A1	A2L	A1	A2L		A1	A2L	A1	A2L
°F	psig	psig	°F	psig	psig	°F	psig	psig	°F	psig	psig	°F	psig	psig
-50	4.9	3.1	14	68.4	61.1	60	170.7	161.1	118	408.4	385.3			
-45	7.6	5.6	16	71.6	64.1	65	185.8	175.4	120	419.4	395.7			
-40	10.7	8.4	18	74.9	67.1	70	201.8	190.5	122	430.7	406.2			
-35	14.0	11.4	20	78.4	70.3	75	218.7	206.5	124	442.1	417.0			
-30	17.7	14.8	22	81.9	73.5	80	236.5	223.4	126	453.8	427.9			
-25	21.8	18.5	24	85.5	76.8	82	244.0	230.4	128	465.8	439.1			
-20	26.2	22.6	26	89.2	80.3	84	251.6	237.6	130	477.9	450.5			
-18	28.1	24.3	28	93.1	83.8	86	259.3	244.9	135	509.4	479.9			
-16	30.0	26.1	30	97.0	87.4	88	267.3	252.4	140	542.5	510.7			
-14	32.0	27.9	32	101.1	91.1	90	275.4	260.0	150	613.9	576.8			
-12	34.1	29.8	34	105.2	94.9	92	283.6	267.9						
-10	36.3	31.8	36	109.5	98.8	94	292.1	275.8						
-8	38.5	33.8	38	113.9	102.9	96	300.7	284.0						
-6	40.8	35.9	40	118.4	107.0	98	309.5	292.3						
-4	43.2	38.1	42	123.0	111.2	100	318.5	300.8						
-2	45.7	40.4	44	127.7	115.6	102	327.7	309.4						
0	48.2	42.7	46	132.6	120.0	104	337.1	318.3						
2	50.8	45.1	48	137.5	124.6	106	346.7	327.3						
4	53.5	47.6	50	142.6	129.3	108	356.5	336.5						
6	56.3	50.1	52	148.4	140.0	110	366.4	345.9						
8	59.2	52.7	54	153.8	145.1	112	376.6	355.4						
10	62.2	55.4	56	159.3	150.3	114	387.0	365.2						
12	65.2	58.2	58	164.9	155.7	116	397.6	375.2						

Want more information?

Visit our training page to access educational videos about R-454B, or call our toll free Tech2Tech Support line at **866-433-TECH**.



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