

Bluon TdX 20 (R-458A) Product Comparison Matrix



SIX YEARS OF TESTING






Millions of data points
make this one easy decision

It took six years of empirical testing and countless field tests to uncover the unique phenomena at the heart of our multi-phase technology. That provided a starting point for an iterative product development process that led to Bluon TdX 20. Choose what is truly a next generation refrigerant and feel confident knowing it's cooling 50 million sq. ft. of space.

To learn more about how Bluon TdX 20 can improve performance and energy efficiency in your system while reducing costs, call us at [855.425.8686](tel:855.425.8686) or visit us online at bluonenergy.com.

⚠ Manufacturers state that for most systems an oil change is not required. However, in fine print manufacturers recommend an oil change for some larger systems.

The information provided herein is based on technical data that Bluon Energy believes to be comparable. Conditions of product use are outside our control; therefore, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Bluon Energy and Bluon TdX 20 are trademarks of Bluon Energy, LLC. All other trademarks are the property of their respective owners. All rights reserved. ©2018 Bluon Energy. Equipment modification may be necessary on some types of equipment, for further details, please contact Bluon Energy.

	 TdX 20 R-458A	 - R-407C	 MO-99 R-438A	 NU-22 R-422B	 - R-427A
Live Technician Support	✓	x	x	x	x
Mobile App w/ Database & Tools	✓	x	x	x	x
Warranty Backed	✓	x	x	x	x
Contractor Training	✓	x	x	x	x
Energy Efficient vs. R-22	✓	x	x	x	x
No Loss of Capacity	✓	✓	x	x	x
Fixed Pricing	✓	x	x	x	x
Actively Driving Sales	✓	x	x	x	x
FAR Compliant (Federal Bldgs)	✓	✓	x	x	x
GWP	1650	1774	2265	2526	2138
Oil Compatibility	MO POE	POE	MO POE	MO POE	MO POE

Rest easy. We've got you covered.

Bluon TdX 20 is the only R-22 replacement solution with all the support you need.

Bluon TdX 20 (R-458A) Product Comparison Matrix



SIX YEARS OF TESTING

Millions of data points
make this one easy decision

It took six years of empirical testing and countless field tests to uncover the unique phenomena at the heart of our multi-phase technology. That provided a starting point for an iterative product development process that led to Bluon TdX 20. Choose what is truly a next generation refrigerant and feel confident knowing it's cooling 50 million sq. ft. of space.

To learn more about how Bluon TdX 20 can improve performance and energy efficiency in your system while reducing costs, call us at [855.425.8686](tel:855.425.8686) or visit us online at bluonenergy.com.

✓* Manufacturers state that for most systems an oil change is not required. However, in fine print manufacturers recommend an oil change for some larger systems.

The information provided herein is based on technical data that Bluon Energy believes to be comparable. Conditions of product use are outside our control; therefore, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Bluon Energy and Bluon TdX 20 are trademarks of Bluon Energy, LLC. All other trademarks are the property of their respective owners. All rights reserved. ©2018 Bluon Energy. Equipment modification may be necessary on some types of equipment, for further details, please contact Bluon Energy.

	TdX 20 (R-458A)	R-407C	MO99 (R-438A)	NU22 (R-422B)	R-427A	R22
Energy Efficiency vs. R-22	✓	✗	✗	✗	✗	-
Cooling Capacity vs R-22	✓	✓	✗	✗	✗	-
Oil Compatibility with MOE	✓	✗	✓*	✓*	✓*	-
Mobile App, Tools & Resources	✓	✗	✗	✗	✗	-
Live Veteran Technician Support	✓	✗	✗	✗	✗	-
FAR Compliant	✓	✓	✗	✗	✗	-
Classification	HFC	HFC	HFC	HFC	HFC	HCFC
Molar Mass (lbm/lmbol)	89.9	86.2	99.1	108.5	90.4	86.5
Boiling Point (1atm, °F)	-39.6	-46.5	-44.2	-42.5	-45.3	-41.5
Vapor Pressure (100 °F, PSIG)	164.7	196.1	187.3	182.9	189.9	195.9
Critical Pressure (PSIA)	656.1	672.8	606.1	559.4	638.2	723.7
Critical Temperature (°F)	197.6	187.1	182.9	179.6	185.9	205.1
Critical Density (lb./ft ³)	29.8	30.2	36.7	32.9	30.6	32.7
Liquid Density (70°F, lb./ft ³)	73.4	72.0	72.7	73.1	71.5	75.3
Vapor Density (bp.lb./ft ³)	0.296	0.289	0.332	0.363	0.303	0.294
Heat of Vaporization (-40°F, kJ/kg)	239.2	242.3	210.5	191.7	230.5	233.2
Ozone Depletion Potential (CFC 11 = 1.0)	0	0	0	0	0	0.05
Global Warming Potential (CO2 = 1.0)	1650	1774	2265	2526	2138	1810

Rest easy. We've got you covered.

Bluon TdX 20 is the only R-22 replacement solution with all the support you need.