

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 systems 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.

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	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/lbmol)	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 (AR5) (CO2 = 1.0)	1564	1624	2059	2290	2024	1760

Rest easy. We've got you covered.

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	TdX 20 R-458A	- R-407C	MO-99 R-438A	NU-22 R-422B	- R-427A
Live Technician Support	✓	×	×	×	×
Mobile App w/ Database & Tools	✓	×	×	×	×
Warranty Backed	✓	×	×	×	×
Contractor Training	✓	×	×	×	×
Energy Efficient vs. R-22	✓	×	×	×	×
No Loss of Capacity	✓	✓	×	×	×
Fixed Pricing	✓	×	×	×	×
Actively Driving Sales	✓	×	×	×	×
FAR Compliant (Federal Bldgs)	✓	✓	×	×	×
GWP (AR5)	1564	1624	2059	2290	2024
Oil Compatibility	MO POE	POE	MO△ POE	MO△ POE	MO△ POE

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