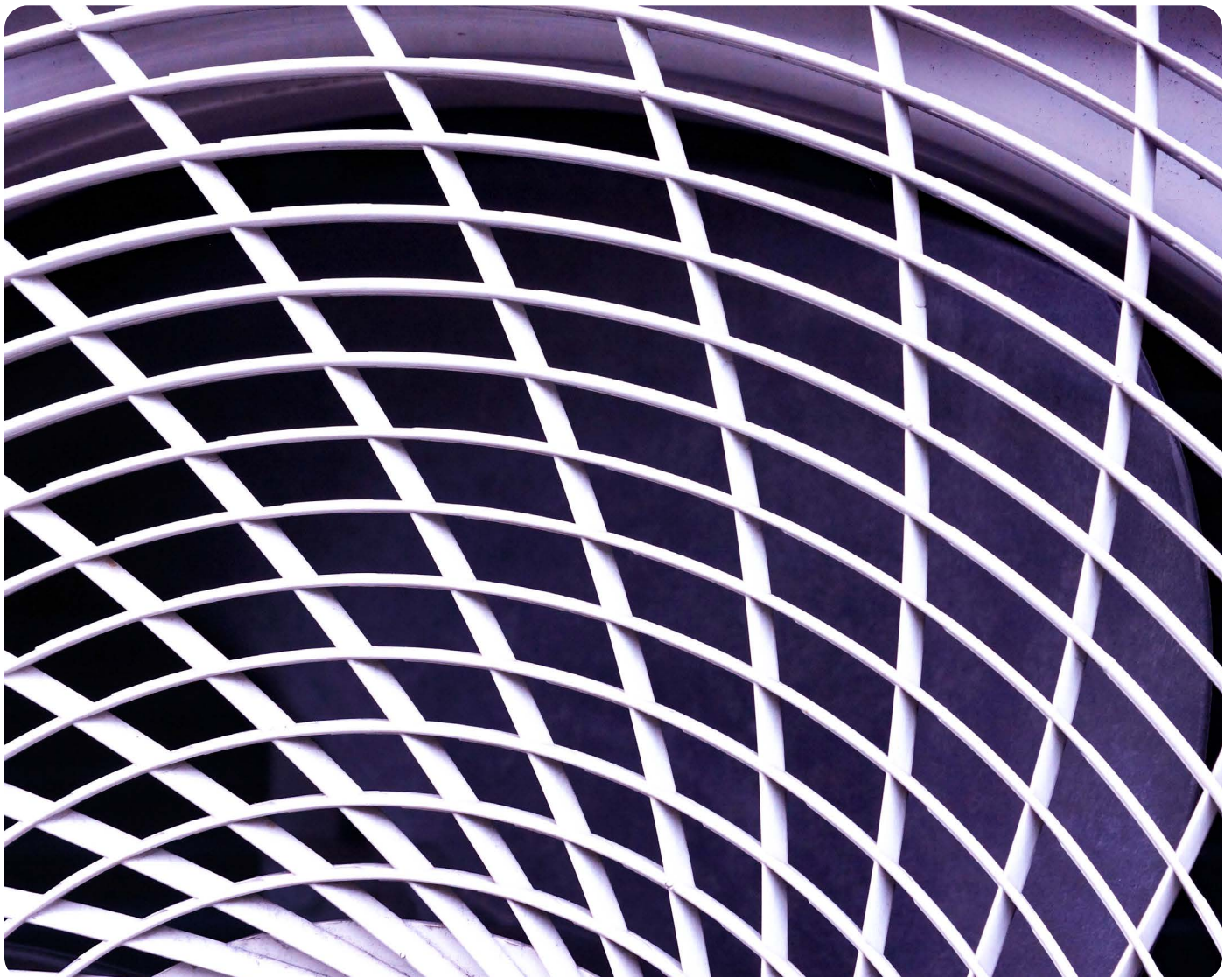




REFRIGERANTS PRODUCT GUIDE

Refrigerants with the future in mind



SOLSTICE REFRIGERANTS PRODUCT GUIDE – SOLSTICE® HFO PRODUCTS

COMMERCIAL REFRIGERATION						
ASHRAE #	GWP ³	Application Usage	Replaces	Blend Composition ASHRAE Classification	Typical Lubricant	Comments
Solstice® yf (R-1234yf)	1	Refrigeration Air Conditioning New Equipment	134a	HFO (single component fluid) ASHRAE A2L	Alkylbenzene, Synthetic (POE, PAG)	Ultra-low GWP of <1. Near drop-in replacement for R-134a in automobile A/C and other applications.
Solstice® ze (R-1234ze)	1	Refrigeration Air Conditioning New Equipment	134a	HFO (single component fluid) ASHRAE A2L	Alkylbenzene, Synthetic (POE, PVE,PAG)	Ultra-low GWP solutions offering close performance match to R134a and to low GWP and nonflammable (A1) Solstice 515B.
Solstice® zd (R-1233zd)	1	HVAC ORC New Equipment	R-123	HFO (single component fluid) ASHRAE A1	Alkylbenzene Mineral oil Synthetic (POE, PVE)	Ultra-low GWP solution for low-pressure chiller systems.
Solstice® L40X (R-455A)	146	Refrigeration New Equipment	R-404A R-507 R-448A	R-32/R-1234yf/C02 ASHRAE A2L	Synthetic (POE)	Like R-404A, R-455A is an A2L refrigerant designed for low and medium-temperature applications. Largest allowable charge size (m3) of food retail SNAP-approved refrigerants (247lbs).
Solstice® 454C (R-454C)	146	Refrigeration New Equipment	R-404A R-507 R-448A	R-32/R-1234yf ASHRAE A2L	Synthetic (POE)	Like R-404A, R-454C is an A2L refrigerant designed for low and medium-temperature applications. Allowable charge size (m3) in food retail applications 165lbs.
Solstice® 454A (R-454A)	239	Refrigeration New Equipment	R-404A R-507 R-448A	R-32/R-1234yf ASHRAE A2L	Synthetic (POE)	Like R-454C but limited to <200lb systems in select applications.
Solstice® N15 (R-515B)	299	Refrigeration Air Conditioning New Equipment	R-134a	R-1234ze/R-227ea ASHRAE A1	Synthetic (POE)	Lower GWP replacement for R-134a in new systems; offers a 77% reduced GWPs R134a. Nonflammable option for retail systems <200lb.
Solstice® 454B (R-454B)	466	HVAC New Equipment	410A	R-32/R-1234yf ASHRAEA2L	Synthetic (POE)	Offering 78% lower GWP vs. incumbent R-410A, Solstice R-454B is designed to replace R-410A in new equipment for comfort cooling and reversible heating applications.
Solstice® 513A (R-513A)	572	Refrigeration Air Conditioning New and Retrofits	134a	R-32/R-1234yf ASHRAE A1	Synthetic (POE)	Offering a 56% reduction in GWP vs. R-134a, Solstice 513A is an excellent capacity and efficiency match for R-134a in new and retrofit of existing systems.
Solstice® N40 (R-448A)	1273	Refrigeration Retrofits	R-404A R-22 S-402A R-408A R-507 R-502	R-3/R-125/ R-134a/R-1234ze/ R-1234yf ASHRAE A1	Synthetic (POE)	Lowest GWP retrofit option for R-22, R-404A, R-408A, R-402A, R-507. Lowest cost method to reduce overall corporate GWP.
Solstice® 452A (R-452A)	1945	Refrigerated Transport New	R-404A R-507	R-1234yf/ R-32/R-125 ASHRAE A1	Synthetic (POE)	Reduced GWP replacement for 404A. Lower discharge temperatures for transport refrigeration.

SOLSTICE REFRIGERANTS APPLICATION GUIDE – GENETRON® LEGACY PRODUCTS

ASHRAE #	GWP	Application Usage	Replaces	Blend Composition ASHRAE Classification	Typical Lubricant
Genetron 245fa (R-245fa)	858	HVAC ORC New Equipment	R-11 R-123	HFO (single component fluid) ASHRAE B1	Synthetic (POE, PVE)
Genetron 134a (R-134a)	1300	Refrigeration Air Conditioning Existing Equipment	R-12 R-409A	R-134A ASHRAE A1	Synthetic (POE, PVE)
Genetron LT (R-407F)	1674	Refrigeration Existing Equipment	R-404A R-22 R-402A R-408A R-507 R-502	R-32/R-125/R-134a ASHRAE A1	Synthetic (POE, PVE)
Genetron AZ-20 CR-410A)	1923	Air Conditioning New ¹ & Existing		R-32/R-125 ASHRAE A1	Synthetic (POE, PVE)
Genetron 404A (R-404A)	3943	Refrigeration Existing Equipment	R-502 R-402A R-408A R-507	R-125/R-143A/R-134A ASHRAE A1	Synthetic (POE, PVE)

¹ EPA rule eliminates R-410A for some new equipment production starting Jan 1, 2025



For More Information Visit
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