

SOLSTICE® 454A (R-454A)

Solstice® 454A (R-454A) is a non-ozone-depleting, zeotropic HFO blend refrigerant designed for new commercial and industrial systems.

With a low global warming potential (GWP) of 239, Solstice 454A is a close thermodynamic match to R-404A equipment design that lowers GWP by 94% and delivers better efficiency and capacity without requiring a system overhaul.



CATEGORY	SOLSTICE® 454A
Performance Function	New equipment / approved applications
Refrigerant Class	HFO blend
Refrigerant Type	Zeotropic blend
Global Warming Potential	239
Ozone Depletion Potential	0
ASHRAE Safety Classification	A2L
ASHRAE Number	R-454A
Replaces / Alternative To	R-404A

WHY CHOOSE SOLSTICE 454A?

Solstice 454A is available for systems with refrigerant charges under 200 lb., which require a GWP below 300, in food retail and cold storage as well as industrial refrigeration environments. Its close capacity match to R-404A, improved efficiency, zero ODP, and a low GWP profile. Solstice 454A helps make the move to low GWP refrigerants easier without losing focus on performance, reliability, and product protection.

APPLICATIONS



Supermarket refrigeration systems



Retail food condensing units



Cold storage



Industrial process refrigeration

BENEFITS

- **Support new equipment planning:** Designed for new commercial and industrial refrigeration equipment requiring low GWP refrigerant performance.
- **Reduce environmental impact:** A GWP of 239 and zero ODP help lower environmental impact while supporting refrigeration requirements.
- **Maintain performance confidence:** Its close capacity and thermodynamic match to R-404A supports dependable performance in qualified new equipment applications.
- **Improve energy and capacity performance:** Delivers improved approximately 6% efficiency and 8% better capacity compared with R-404A.
- **Simplify design conversations:** Fewer system design changes are required compared with switching to CO₂ or hydrocarbons — helping reduce development time, lower cost, and get to market faster.
- **Support service and project needs:** Available in 25 lb jugs, 100 lb cylinders, and 1,400 lb ton containers ready to support initial fills, ongoing service, and large-scale new equipment builds.

PACKAGE TYPE	PRODUCT PACKAGING SIZE	SKU
Jug	25 lb / 11.3 kg	10673014
Cylinder	100 lb / 45.4 kg	10673012
Ton	1400 lb / 635 kg	10673016



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