SOLSTICE® 452A (R-452A)

Solstice® 452A, (R-452A), is a non-ozone-depleting, nonflammable, zeotropic blend refrigerant designed as a low global warming potential (GWP) alternative to R-404A and R-507 for low and medium temperature applications in existing and new systems.

For transport refrigeration, refrigerated storage, distribution, and other temperature-sensitive applications, Solstice 452A helps refrigeration teams maintain focus on cargo protection, uptime, and dependable temperature control. Its close performance match to R-404A and R-507 makes it a practical option for approved replacement applications where familiar service expectations matter.

Solstice 452A is classified as an A1 nonflammable refrigerant and supports similar storage, handling, service standards, and technician skill requirements to R-404A.



Solstice

CATEGORY	SOLSTICE® 452A
Performance Function	Approved replacement applications
Refrigerant Class	HFC / HFO blend
Refrigerant Type	Zeotropic blend
Global Warming Potential	2140
Ozone Depletion Potential	0
ASHRAE Safety Classification	A1, nonflammable
ASHRAE Number	R-452A
Alternative To	R-404A and R-507

WHY CHOOSE SOLSTICE 452A?

Solstice 452A helps transport refrigeration and cold chain teams evaluate a practical replacement option for approved legacy refrigerant applications without losing focus on reliability, uptime, and temperature control.

Its close capacity match, similar energy efficiency, and familiar service profile help support direct replacement conversations for systems using R-404A and R-507. For Solstice sales teams, Solstice 452A creates a clear story around cold chain continuity, operational confidence, and dependable performance in temperature-sensitive environments.

APPLICATIONS



Transport refrigeration



Refrigerated storage & distribution



Cold chain applications



Low- and medium-temperature refrigeration



Temperature-sensitive goods transport



Approved replacement applications



Commercial refrigeration applications (where approved)

BENEFITS

- **Protects temperature-sensitive goods:** Solstice 452A supports refrigerated transport and cold chain applications where cargo protection, inventory integrity, and consistent temperature control are critical.
- **Replaces R-404A and R-507 in approved applications:** Its close performance match helps service teams evaluate replacement paths for legacy systems while maintaining familiar refrigeration expectations.
- **Maintains familiar service practices:** As an A1 nonflammable refrigerant with similar storage, handling, and service standards to R-404A, Solstice 452A supports continuity for technicians and service teams.
- **Supports operational uptime:** Solstice 452A helps keep the value story centered on reliability, temperature control, and business continuity for transport refrigeration and cold chain operations.

PACKAGE TYPE	PRODUCT PACKAGING SIZE	SKU
Jug	25 lb / 11.3 kg	10655439
Cylinder	100 lb / 45 kg	10656545
Half Ton	870 lb / 394.6 kg	10656033
Ton	1300 lb / 589.7 kg	10656032

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