

SOLSTICE® zd (R-1233zd)

Solstice® zd, (R-1233zd), is a nonflammable refrigerant designed for selected low-pressure chillers, heat pumps, and approved industrial or building cooling applications.

If you are evaluating long-life equipment platforms, Solstice zd helps support future-ready cooling strategies without making safety classification a barrier to adoption. Its A1 nonflammable classification, strong efficiency potential,[VSI.1] and fit for approved low-pressure equipment platforms make it a practical option for projects where reliability, lifecycle value, and refrigerant strategy all matter.

It is especially relevant for centrifugal chillers, high-temperature heat pumps, Organic Rankine Cycle applications, and other low-pressure systems where approved. It supports refrigerant planning conversations around long-term system performance, reduced environmental impact, and dependable operation in equipment designed for next-generation refrigerant requirements.



CATEGORY	SOLSTICE® ZD
Performance Function	New equipment / approved equipment platforms
Refrigerant Class	HFO
Refrigerant Type	Molecule
Global Warming Potential	1
Ozone Depletion Potential	~0 / no impact on ozone layer depletion
ASHRAE Safety Classification	A1, nonflammable
ASHRAE Number	R-1233zd

WHY CHOOSE SOLSTICE ZD?

Solstice® zd helps equipment teams plan for long-life cooling systems with a refrigerant option designed around efficiency, nonflammability, and long-term environmental performance.

Its strongest fit is in approved low-pressure equipment platforms where system owners need more than a replacement refrigerant. For facilities with long equipment lifecycles, Solstice® zd can help make refrigerant planning feel more durable, strategic, and aligned with future ready cooling investments.

APPLICATIONS



Low pressure chillers



Centrifugal chillers



Heat pumps



High temperature heat pumps



Building & industrial cooling systems (where approved)



Organic Rankine Cycle applications



Approved new equipment designs



Long-life equipment platforms



Sustainability-focused cooling systems



Facility cooling systems

BENEFITS

- **Support long life equipment planning:** Solstice zd helps refrigerant strategy for approved systems expected to operate over long service lives.
- **Maintain familiar safety expectations:** Its A1 nonflammable classification supports adoption in approved equipment platforms where safety classification is a key decision factor.
- **Strengthen the efficiency story:** Solstice zd can support high-efficiency system design in approved low-pressure applications, helping keep the conversation focused on operating performance and lifecycle value.
- **Enable future-ready cooling investments:** Its use in selected chillers, heat pumps, and industrial cooling platforms helps teams align equipment strategy with evolving refrigerant expectations.
- **Support regulatory durability:** Solstice zd helps teams position approved equipment platforms around long-term refrigerant planning, reduced environmental impact, and business continuity.

PACKAGE TYPE	PRODUCT PACKAGING SIZE	SKU
Jug	10lb / 4.5kg Returnable	10627673
Jug	10lb / 4.5kg NRC	10634672
Cylinder	100lb / 45kg	10627672
Half Ton	1000lb / 453kg	10627671
Ton	1900lb / 861.8kg	10627413



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