

# Solstice Range of Refrigerants

	Alternative To	GWP	Ashrae Class	Performance (vs alternative)	Applications	Status
<b>Solstice™ yf</b> HFO-1234yf	R-134a	4	A2L	Both capacity & efficiency very similar to R134a (typically +/- 5%)	MAC, buses & coaches AC, vending, fridges	Commercially available. Adopted by MAC industry. Proven records in vending units.
<b>Solstice™ ze</b> HFO-1234ze	R-134a	6	A2L	Efficiency comparable or better than R-134a	Chillers, vending, CO <sub>2</sub> cascade systems, air dryers, heat pumps	Commercially available. Non-flammable for handling and storage. Proven records in chillers. Initial trials in cascade systems.
<b>Solstice™ zd</b> HFO-1233zd	R-123	<5	tbd	Better capacity & similar efficiency to highly efficient R123	Centrifugal chillers ORC, high temp applications, high capacity chillers	Available for testing.
<b>Solstice™ N13</b> HFO blend	R-134a	~600	A1	Similar to R-134a	Chillers, MT refrigeration (distributed, CO <sub>2</sub> cascade)	Best non-flammable alternative. Initial trials in cascade systems.
<b>Solstice™ N20</b> HFO blend	R-22 R-407C	~1000	A1	Comparable to R-407C	Stationary A/C, refrigeration	Available for testing.
<b>Solstice™ L20</b> HFO blend	R-22 R-407C	<350	A2L	Comparable to R-407C	Stationary A/C, refrigeration	Available for testing.
<b>Solstice™ N40</b> HFO blend	R-404A	~1300	A1	Better efficiency than R-404A	MT and LT refrigeration	Available for testing.
<b>Solstice™ L40</b> HFO blend	R-404A	<300	A2L	Better efficiency than R-404A	MT and LT refrigeration	Available for testing.
<b>Solstice™ L41</b> HFO blend	R-410A	<500	A2L	Comparable to R-410A	Stationary A/C, heat pumps	Available for testing.

Note: HFOs and HFO blends can be used with existing technology and existing technicians skills in most of the applications.



**Solstice™**  
A Full Range Of Energy Efficient, Innovative  
And Sustainable Refrigerant Solutions

**Learn More**

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# The Future Of Refrigerants Begins With Solstice™

Honeywell's key environmental focus is on safe, lower GWP sustainable solutions, whilst still maintaining energy efficiency at the heart of the product range. We have invested in both R&D and manufacturing capacity for continuous improvement to help countries and companies meet the global commitments for carbon footprint reduction.

