

Solstice[®] yf Refrigerant



**The Next-Generation Refrigerant
for Automotive Air Conditioning**

Honeywell

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Drive the Change to a

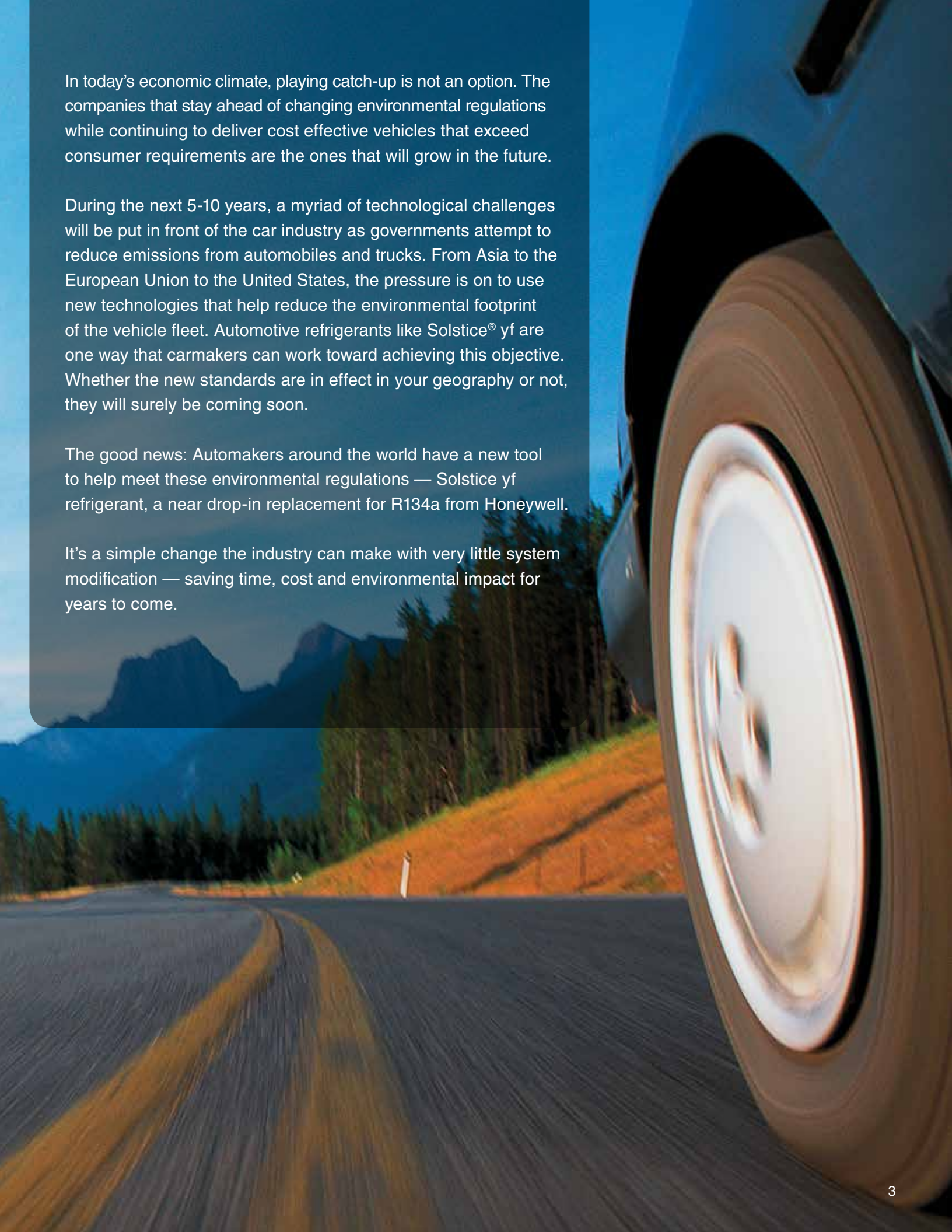
Smarter

Automotive Refrigerant

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Solstice[®] yf refrigerant has a fraction of the global warming impact of traditional automotive refrigerants, yet provides the same cooling comfort that consumers depend on.



In today's economic climate, playing catch-up is not an option. The companies that stay ahead of changing environmental regulations while continuing to deliver cost effective vehicles that exceed consumer requirements are the ones that will grow in the future.

During the next 5-10 years, a myriad of technological challenges will be put in front of the car industry as governments attempt to reduce emissions from automobiles and trucks. From Asia to the European Union to the United States, the pressure is on to use new technologies that help reduce the environmental footprint of the vehicle fleet. Automotive refrigerants like Solstice[®] yf are one way that carmakers can work toward achieving this objective. Whether the new standards are in effect in your geography or not, they will surely be coming soon.

The good news: Automakers around the world have a new tool to help meet these environmental regulations — Solstice yf refrigerant, a near drop-in replacement for R134a from Honeywell.

It's a simple change the industry can make with very little system modification — saving time, cost and environmental impact for years to come.



An **innovative** solution



Why Switch to Solstice[®] yf Refrigerant Now?

Consumers stay cool. Automakers reduce environmental impact without significant changes to vehicle designs.



to a global challenge

Excellent Cooling Performance

- **Just as effective.** Honeywell Solstice® yf refrigerant is as effective as HFC-134a and offers comparable cooling performance in all climates.
- **More energy efficient.** Air conditioning systems using Solstice yf refrigerant are generally more energy efficient than competing technologies.

Low Environmental Impact

- **Surpasses new EU standards.** Honeywell Solstice yf refrigerant doesn't just meet the new standard; it significantly surpasses it. With a global warming potential (GWP) of less than 1, it's 99.3% lower than the EU's Mobile Air Conditioning (MAC) Directive requires* and 99.9% lower than R134a.

- **Reduces fuel consumption and emissions.** Vehicles equipped with Solstice yf refrigerant use less fuel and produce 20% to 30% fewer emissions than the CO₂ alternative, shrinking their carbon footprint even more.

99.9 percent
lower **global warming**
potential than R134a

*The EU's MAC Directive requires new vehicles to use refrigerants with a global warming potential (GWP) below 150.



Up to **30 percent**
fewer emissions
than CO₂

Lower Cost In-Use

- **Solstice® yf is easily integrated into vehicle systems.** Little or no redesign is required. In many cases the AC system hardware costs after converting to Solstice yf are the same as they were before.

Low Implementation Cost

- **Near drop-in replacement.** In most cases, Solstice yf refrigerant is a direct replacement for currently used materials.
- **Single global solution.** The performance characteristics of Solstice yf refrigerant make it well suited to comply with current and future regulations around the world, so automakers have the supply chain benefit of one global solution. In some regions, Solstice yf can help automakers achieve tough future fuel mileage regulations by allowing them to receive tailpipe credits in return for transitioning in advance of any refrigerant-specific use regulations.

Easy Serviceability

- **Similar components.** Parts used in A/C systems running Solstice yf refrigerant are identical or similar to those used in today's HFC-134a systems.

Proven Safety

- **Tested and approved.** Solstice yf refrigerant has been verified as safe to use in automobiles through extensive third-party testing, including tests performed by the Society of Automotive Engineers and crash testing conducted by automakers.
- **Safe and easy to use, handle and store.** Unlike many of today's alternatives, Solstice yf has low flammability and toxicity, is noncorrosive and operates at pressures that repair technicians are already familiar with.

Strong Reputation

- **Backed by Honeywell.** Like all of our products, Honeywell Solstice yf refrigerant comes with the confidence of a brand the industry trusts to meet its requirements with quality innovations.
- **Training and support.** Ask about our customer support and training options to help you make a smooth transition.

**The EU's MAC Directive requires new vehicles to use refrigerants with a global warming potential (GWP) below 150.*



Ready to Learn More?

With Solstice yf refrigerant, you sacrifice nothing — yet there's a lot to gain. Visit www.1234facts.com for more information about the benefits of implementing Solstice yf refrigerant now. Product literature, MSDS and technical specifications are also available at www.honeywell-refrigerants.com.

Honeywell

Solstice yf refrigerant. Good for auto manufacturers, great for the planet.



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