# REPAIRING R-134A CARS WITH SOLSTICE® YF (R-1234YF)

Due to the F-Gas regulation, HFCs, including R-134a, are being phased down in many industries across Europe. Over the next few years the available supply of R-134a will be reduced and pricing will likely increase.

The process to retrofit older R-134a cars with R-1234yf is the simplest, most reliable and best performing repair option available. There are over 200 million cars on European roads potentially leaking R-134a every day that could be safely converted to near-zero GWP R-1234yf refrigerant.

Since 2013, more than 200 million new vehicles have been built using R-1234yf, of which 50% are on the road in Europe. The conversion of car production from R-134a to R-1234yf over the past 10 years has helped the auto industry build more sustainable vehicles. R-1234yf has proven to be reliable, safe and effective and provides the same cooling performance as R-134a.

Automakers agree that R-1234yf has been an important technology in the fight against climate change.

# Honeywell

Why Solstice® yf (R-1234yf) is the obvious choice to replace R-134a?

R-1234yf is trusted and proven -More than 200 million cars on the road today using R-1234yf.

Superior performance versus other R-134a replacement options\*.

Extensive supply network in place.

Easy to use, already available in most shops

No new tools or equipment needed, can be used with existing R-134a and R-1234yf equipment.

Environmentally preferable (GWP<1).

\*Based on thermodynamic analysis for R-444A and P. 455A

## SUSTAINABILITY BENEFITS

Greenhouse gas emissions are being reduced every day as more and more new vehicles are built using Solstice® yf (R-1234yf). Now the aftermarket can also convert R-134a cars to R-1234yf. The use of Honeywell Solstice® yf is helping avoid the eventual release of the equivalent of more than 106 million metric tons\* of carbon dioxide into the atmosphere, comparable to:



Emissions from **41 billion liters** of petrol consumed



Emissions from **2.1 million** homes' electricity use for one year



Carbon sequestered by **12.3 million acres** of forests in one year

# **HOW TO PERFORM A RETROFIT**



Remove remaining R-134a charge from the vehicle



Install new permanent fittings to the charge ports





Introduce PAG Oil engineered for R-1234yf retrofit



Recharge the vehicle with same amount of R-1234yf



Attach new labels to identify that the refrigerant change has been made

\* Calculations are based on actual sales of Solstice yf from Jan 2010 through Dec 2023, and utilize the EPA GHG equivalency calculator for conversion

#### For More Information visit

advancedmaterials.honeywell.com

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