



Climalife is a key player in the distribution of refrigerants and other climate control products with a nationwide distribution network and product knowledge that is second to none.



climalife®

The expert in eco-efficient solutions to service the industry.

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REFRIGERANTS
for car
air conditioning



climalife®

Air conditioning changes in the automotive sector

In 2011, the European MAC (Mobile Air Conditioning) Directive prohibited the use of refrigerants in car air conditioning systems with a GWP (Global Warming Potential) of 150 or more in new vehicle types.

Solutions for new vehicles

R-1234yf

R-1234yf replaced R-134a in new cars from 1 January 2017.

R-1234yf is a non-ozone depleting HydroFluoroOlefin (HFO) refrigerant with a very low GWP of less than 1*.

Available in 5kg or 10kg cylinders



The directive aims to reduce the emission of greenhouse gases from automotive air conditioning, reducing impact on climate change.

This ruling applied to all new vehicles sold after 1 January 2017 with production lines now adapted to use R-1234yf refrigerant.



Benefits of R-1234yf

- ✓ R-1234yf has a GWP of less than 1* (99.9% lower GWP than R-134a)
- ✓ It has an atmospheric life of 11 days compared to R-134a's 13-year lifespan.
- ✓ R-1234yf compares in efficiency to R-134a and has the same cooling capacity.
- ✓ Vehicles using R-1234yf are expected to use less fuel and produce 20-30% fewer emissions than the CO₂ alternative, resulting in a significantly decreased carbon footprint.

Solutions for maintenance of older vehicles

R-134a

R-134a (GWP 1300*) continues to support the market to service those vehicles with R-134a. It cannot be used in new vehicles or those that are charged with R-1234yf.

Available in 12kg or 60kg cylinders.



NEW drop-in and go replacement for R-134a

R-456A

R-456A (GWP 626*) is a new refrigerant that has been designed to extend the availability of R-134a in automotive air conditioning, with at least 50% lower GWP, while providing a cooling capacity boost for older vehicles.

- ✓ No oil changes required.
- ✓ It can be charged on top of the existing R-134a charge.

Available in 12kg and 60kg cylinders.



52%
lower
GWP than
R-134a



Always consult Safety Data Sheet before refrigerant use.
*GWP based on IPCC 5th Assessment.