



RS-90

Extender for the unique R22 replacement RS-45 (R434A)

Global Warming Potential (GWP) less than 2,500 so complies with EU regulations

Same components as RS-45 (R434A) & no change of lubricant required in flooded systems



Extending the life of flooded systems

RS-45 is the **only** non-flammable & low toxicity refrigerant that can replace R22 in flooded evaporators in existing installations. R404A, R507, R410A, R407C, R134a, R422D, R438A and the new HFOs or HFO/HFC blends are ruled out by various combinations of high glide, high pressure and low capacity.

from

REFRIGERANT SOLUTIONS LIMITED

The Refrigerant Specialists

RS-45 (R434A) has a Global Warming Potential (GWP) above the EU F Gas Regulation maximum of 2,500, so despite being the only refrigerant on the market which can suitably replace R22 in flooded systems it will no longer be permitted for this critical application from 2020.

Recognising this potential problem, Refrigerant Solutions Ltd will make RS-90 available in 2020 to extend the operating life of installations that have already been converted from R22 to RS-45 (R434A). Since RS-90 contains the same components as RS-45 (R434A) there are no concerns about using RS-90 to top up systems containing RS-45 (R434A). The availability of RS-90 will enable existing installations to continue operating for at least another 5 to 10 years beyond the F Gas cut-off date of 2020. Many existing flooded systems are high capital cost installations engineered for 20+ year lifetimes. Often, they are integrated into large manufacturing plants where replacement would require considerable investment and incur high costs from lost production. The combination of RS-45 (R434A) and RS-90 enables these installations to continue in economically viable operation until 2030 and beyond.

Most importantly flooded systems must be first converted from R22 to RS-45 (R434A) before the EU imposed date of 2020. RS-90 is being deployed to extend the life of RS-45 (R434A) after this date but not before.

Performance Characteristics

- * Same components as RS-45 (R434A) so that RS-90 can be used to top up RS-45 based systems
- * Similar energy efficiency to R22
- * Close match for R404A in cooling capacity
- * Substantially lower discharge temperature than R22 which provides important operating benefits
- * Global Warming Potential below 2,500 so that RS-90 can be used in the EU beyond 2020 under F Gas regulation
- * Compatible with existing & new lubricants
- * Extends the life of flooded systems
- * Zero Ozone Depletion Potential
- * Non-flammable & low toxicity



Same components as RS-45 (R434A) & no change of lubricant required



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