

RS-44

RS-44 provides a low cost and easy solution to replacing HCFC 22 by avoiding a costly and technically unsatisfactory retrofit situation. By definition, any replacement for HCFC 22 must have no ozone depleting ability so that, in contrast to replacing CFCs (e.g. R12, R502) where there were 'interim' blends available (largely containing HCFC 22) enabling the existing lubricant in the system to be used, this is not an option when seeking to replace HCFC 22. R424A has a zero Ozone Depletion Potential, a similar performance to HCFC 22 and can be used with all types of lubricants.

Features and Benefits

The lower head pressure obtained when using R424A provides significant operational benefits, while the higher Coefficient of Performance reduces energy costs and has a beneficial effect on the Total Equivalent Warming Impact (TEWI) of the whole system. The significantly lower discharge temperatures and pressures of R424A improve the reliability and extend the life of the compressor, and reduce the problem of oil decomposition.

Applications and Uses

RS-44 has been developed for use in all applications where HCFC 22 has traditionally been used including

- commercial air conditioning
- cold stores,
- supermarkets,
- dairy chillers,
- refrigerated transport,
- cellar cooling and others.