



Acme-Cool AC-77

R-22 Replacement

The Logical, Cost Effective, Affordable Replacement for R-22 Refrigerant
Acme-Cool AC-77 is a Non-Flammable Non Ozone Depleting
Drop In Replacement for R-22 Refrigerant – No Oil Change Required

Overview

Acme-Cool AC-77 is a Non-Flammable, Non Ozone Depleting refrigerant that replaces R-22 with zero ozone-depletion.

Provides similar cooling capacity and efficiency to R-22 Refrigerant and is miscible with both mineral oil and synthetic lubricants. With Acme-Cool AC-77 there is no need to replace lubricant, resize line sets or replace evaporators or condensers.

Offers similar capacity and efficiency as R-22 refrigerant, exhibits lower compressor discharge temperatures. Acme-Cool AC-77 provides comparable thermodynamic characteristics to those of R-22 refrigerant.

Despite being a blend, Acme-Cool AC-77 exhibits a low glide of between 5.3 and 5.7 °F.

Suggested Uses

Medium-temperature refrigeration equipment
Commercial and domestic air conditioning systems
and Heat pumps

Environmental Impact

Zero ozone depletion
Non-toxic and non-flammable
Lower GWP than many other R22 replacements.

Retrofits

Easy and fast retrofit process with no need to replace expensive equipment during the retrofit process.
Does not require an oil change which is necessary with many other refrigerants. Compatible with MO, AB, POE, POA and Duracool A/C Oil Chill™.

Performance

Similar cooling capacity, coefficient of performance, operating pressures and energy consumption to R-22 Refrigerant.

Provides lower discharge temperatures and in most cases lower discharge pressures which will aid in extending equipment life.

Installation

The original R-22 Refrigerant charge should be recovered in accordance with local regulations. Existing refrigerant should not be released to the atmosphere. A basic inspection of the system should be performed to identify any damage that may be present from previous use of R-22 Refrigerant. The filter drier, seals and oil condition should be included in this inspection during the retrofit. Acme-Cool AC-77 is compatible with traditional MO and AB, plus newer POE oils; the oil does not routinely require replacement. In systems where oil return has been problematic, some POE oil may need to be added.

Charge the system with Acme-Cool AC-77 with an initial charge equal to 85 to 90 % the original charge weight. This can be added to as needed during the charging process.

Acme-Cool AC-77 is a zeotropic, and must be charged as a liquid to prevent fractionation. Acme-Cool AC-77 exhibits a low glide which can normally be managed by a minor adjustment to the expansion device if required. Acme-Cool AC-77 is generally not always suitable for systems with centrifugal compressors or flooded evaporators.

Acme-Cool AC-77 has proven to be as efficient as R-22 Refrigerant, combining environmental gains with parallel energy costs resulting in a simplified “Drop In” conversion.

Acme-Cool AC-77 Refrigerant - Cost Effective “Drop In Replacement” for R-22 Refrigerant

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