



EMKARATE™

RL “H” Range from Uniqema

The complete range of synthetic ester refrigeration lubricants from ISO22 to ISO220 viscosities

The following table acts as a guide to selection of the appropriate viscosity lubricant for the “H” range.

Compressor	ISO Viscosity Grades						
	22	32	46	68	100	170	220
Reciprocating	Y	Y	Y	Y			
Rotary Vane			Y	Y	Y	Y	Y
Scroll	Y	Y	Y	Y			
Centrifugal	Y	Y	Y	Y	Y	Y	Y
Screw				Y	Y	Y	Y

Whether you need an approved synthetic lubricant for refrigeration (ranging all the way up to very large commercial and industrial refrigeration systems) or air conditioning (residential, commercial or transport), Emkarate™ RL is the only name you need to know.

The range of Emkarate™ RL “H” lubricants provides quality, reliability, performance and peace of mind, both for original fill oils and during retrofits.

Today, more compressor manufacturers have given their “stamp of approval” by using Uniqema compressor lubricant products rather than those of any other manufacturer.

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Or visit our website at
www.emkarateRL.com



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Emkarate™ RL “H” Range



**Outstanding performance
from the Market Leader in
refrigeration lubricant
technology**

www.emkarateRL.com



Creating your advantage in refrigeration lubricants

Uniqema is the world's leading supplier of approved synthetic lubricants to the refrigeration and air conditioning industry and was one of the first companies to launch a range of lubricants for HFC refrigeration.

Emkarate™ RL polyol ester lubricants have become synonymous with quality and reliability. It is acknowledged that over 400 million compressors have been filled with Emkarate™ RL - more importantly this equates to hundreds of thousands of years of successful field operation.

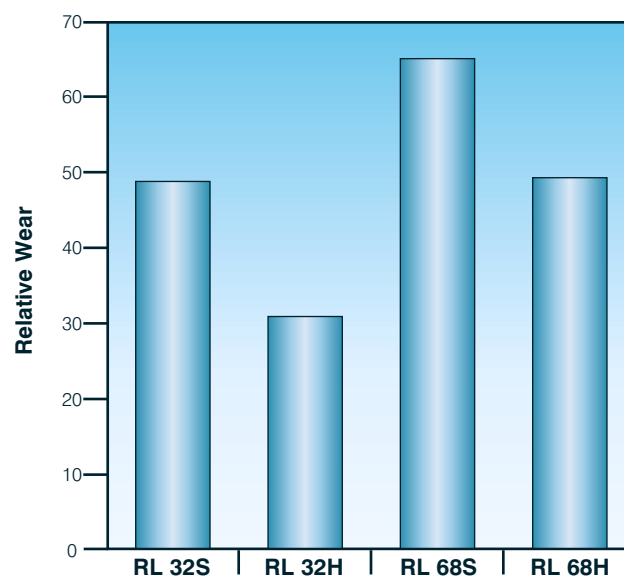
As refrigeration technology moves forward there is an even greater demand for enhanced lubricant performance and reliability. Uniqema leads the way by continuing to invest in synthetic lubricant technology in order to meet the demands of the market and its customers.

Subsequent innovations and developments in technology have permitted improvements to the lubricant formulations and led to the creation of the **Emkarate™ RL "H" range** of polyol esters.

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RL "H" Range - The Benefits

Uniqema's Emkarate™ RL "H" range of polyol esters has been designed to offer an enhanced balance of performance properties:-



Test conditions (Falex V-block wear test - R-134a, Steel/steel, 5hrs, 400lb)

- **Superior wear performance** compared to standard polyol esters, delivering advanced compressor reliability
- Tailored working viscosities and superior coefficients of friction delivering **improved energy efficiency**
- **Improved low temperature characteristics** for optimized system performance

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RL "H" Range - Meeting all of your lubrication requirements

- **Superior wear performance**
- **Improved energy efficiency**
- **Optimised low temperature characteristics**

Uniqema's Emkarate™ RL "H" range of lubricants will fully displace the "S" range at the end of 2003. Where Emkarate™ RL "S" grades are no longer available the user should **substitute with Emkarate™ RL "H"** - this table offers an easy to follow guide to product substitution.

Recommended Emkarate™ RL product	Previously
RL22H	N/A
RL32H	RL32S
RL46H	RL46S
RL68H	RL68S
RL100H	RL100S
RL170H	RL150S
RL220H	N/A

Where necessary Uniqema will provide additional information to assist with lubrication selection.

Availability - The Emkarate™ RL "H" range is widely available through distribution outlets and all of the products are available in the following pack sizes: 1lt & 5lt containers, 20lt & 200lt drums.

Up to 20% less wear with Emkarate™ RL "H"