

# Emkarate® is the Only Name You Need to Know

## Emkarate Refrigeration Lubricants - Approval List



Equipment Manufacturer	Compressor Type/Model	Approved Emkarate RI Grade(S)
<b>BITZER</b>	Reciprocating	RL 32H & 68H
	Screw	RL 170H
<b>BLISSFIELD</b>	Reciprocating	RL 68H
<b>BOCK</b>	Reciprocating	RL 22H, 32H, 46H, 68H & 100H
<b>CARRIER</b>	Centrifugal Chillers (17DA & 17EA)	RL 32H
	Externally Geared Centrifugal Chillers (17EX, 17FA & 17MPS)	RL 68H
<b>CARRIER CARLYLE</b>	Reciprocating	RL 68H
<b>CARRIER TRANSICOLD</b>	Reciprocating (Marine Containers)	RL 22H
<b>DAIKIN MCQUAY</b>	Centrifugal	RL 32H
	Screw	RL 68H, 68HB, 100H & 220H
<b>DALIAN BINGSHAN</b>	Reciprocating	RL 32H
	Screw	RL 170H
<b>DANFOSS COMMERCIAL (MANEUROP)</b>	Scroll (SZ, MFZ & LFZ)	RL 32H
	Reciprocating (LTZ & NTZ)	RL 32H
<b>DORIN</b>	Reciprocating	RL 22H, 32H, 46H & 68H
<b>DUNHAM BUSH</b>	Reciprocating	RL 32H & 68H
	Screw	RL 68H
<b>EMERSON COPELAND</b>	Reciprocating & Scroll	RL 32-3MAF, 32CF & 22CF
	Scroll R744 Z0	RL 68HB
<b>FRASCOLD</b>	Reciprocating	RL 32H & 68H
	Screw	RL 170H
<b>FRIGOPOL</b>	Reciprocating (60-DLB-13 to 80-DLB-30)	RL 32H
<b>GRASSO (GEA)</b>	Reciprocating	RL 68H & 100H
<b>HARTFORD</b>	Reciprocating	RL 32H & 68H
<b>HANBELL</b>	Screw compressors (RA, RB & V series)	RL 170H & 220H
<b>HISPACOLD</b>	Reciprocating	RL 68H
<b>J &amp; E HALL</b>	Centrifugal	RL 32H
	Screw	RL 68H, 68HB, 100H & 220H
<b>JIANGSU XUEMEI</b>	Reciprocating	RL 22H & 32H
<b>LOCKHEED MARTIN</b>	Oil can be used to service Lockheed owned compressors	RL 68H
<b>PRESTCOLD</b>	Reciprocating	RL 32-3MAF

<b>REFCOMP</b>	Reciprocating (SRC-F, SRC-M, SRC-L & SRC-P)	RL 32H & 68H
<b>ROLTEC</b>	Screw	RL 46H & 170H
<b>ROYCE</b>	Reciprocating	RL 32H
<b>SABROE</b>	Reciprocating	RL 32H, 46H & 68H
	Screw	RL 68H, 100H, 170H & 220H
<b>TECUMSEH</b>	Reciprocating	RL 22H
<b>THERMOKING</b>	Reciprocating	RL 32H
<b>TRANE</b>	Screw	RL 68H
	Scroll	RL 32HB
<b>NATO MILITARY NSN</b>	NSN 6850P4314-H	RL 32H
	NSN 9150-99-870-1432	RL 32HB
	NSN 9150-01-443-9390 & NSN 9150-01-443-9396	RL 46H
	NSN 9150-01-435-1899, NSN 9150-01-410- 8972 & NSN 9150-01-387-4469	RL 68H
<b>VATANU-COOL</b>	Orbital Vane Rotary (OVR)	RL 220H
<b>YANTAI MOON</b>	Reciprocating	RL 32H

Industrial and Commercial Compressor Manufacturers – HFC/HCFC Systems - unless otherwise stated

The approvals list should be used as a guide only. CPI Engineering Services recommends that users confirm with the original equipment manufacturer (OEM) which Emkarate RL grade is qualified for use with a particular combination of compressor model, refrigerant and application. OEM's advice should always be taken. Only use approved lubricants.