



Choose the right lubricants for low GWP refrigerants

Refrigerant type	Compressor type	Evaporating T°C	Typical CPI Solutions
HFO			
Solstice® ze (R-1234ze)	Reciprocating	❄️ -20°C to +10°C	Icematic Range
	Centrifugal		Icematic Range
	Screw		Emkarate RL170H
Solstice® yf (R-1234yf)	Reciprocating	❄️ -30°C to -10°C	Emkarate RL 32-3 MAF, Solest 31HE, Icematic Range
	Centrifugal		Icematic Range
	Hermetic		Emkarate RL85HM
	Screw		Emkarate RL170H
Solstice® zd (R-1233zd)	Reciprocating	❄️ -30°C to -10°C	Consult us
	Centrifugal		Consult us
	Screw		Consult us
HFO BLENDS			
Solstice® L40X (R-455A)	Reciprocating	❄️ -50°C to -30°C	Emkarate RL 32-3 MAF, RL68H, Solest 31HE, Icematic Range
	Centrifugal		Emkarate RL220H, Icematic Range
	Screw		Emkarate RL170H
Solstice® N40 (R-448A) Solstice® 449A (R-449A)	Reciprocating	❄️ -40°C to 0°C	Emkarate RL 32-3 MAF, RL68H, Solest 31HE, Icematic Range
	Centrifugal		Emkarate RL220H, Icematic Range
	Screw		Emkarate RL170H
Solstice® 513A (R-513A)	Reciprocating	❄️ -30°C to -10°C	Emkarate RL 32-3 MAF, RL68H, Solest 31HE, Icematic Range
	Centrifugal		Emkarate RL220H, Icematic Range
	Screw		Emkarate RL170H, Icematic Range
	Scroll		Emkarate RL32-3MAF, Solest 68. Icematic Range
Solstice® L41y (R-454B)	Reciprocating	❄️ -50°C to -30°C	Emkarate RL 32-3 MAF, RL68H, Solest 31HE, Icematic Range
	Centrifugal		Emkarate RL220H, Solest 68-220, Icematic Range
	Scroll		Emkarate RL3MAF
	Screw		Emkarate RL170H
Solstice® N71 (R-471A)	Reciprocating	❄️ -40°C to 0°C	Emkarate RL68H, Icematic Range
	Centrifugal		Emkarate RL220, Icematic Range
	Screw		Emkarate RL170H
Solstice® N15 (R-515B)	Reciprocating	❄️ -30°C to -10°C	Emkarate RL68H, Icematic Range
	Centrifugal		Emkarate RL220H, Icematic Range
	Screw		Emkarate RL1710H, Icematic Range
AMMONIA			
R-717	Screw	❄️ -40°C to +10°C -50°C to +10°C	CPI 1008, CPI 1009, CPI 4628
	Heat pump		Icematic Range
CO₂			
R-744	Reciprocating	❄️ -55°C to -10°C	Emkarate RL68HB, RL100HB, RL85HB
HYDROCARBON			
R-290	Screw & Centrifugal	❄️ -30°C to +20°C	CPI 1507, CPI 1516
	Reciprocating		CPI 1507, CPI 1516