



Frascold S.p.A.  
Rescaldina-ITALY

# OIL SPECIFICATION

File: FTEC022\_EN

REV.: 10

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Date: 15/09/2020

	Refrigerant	App.	Compressor Series	Oil Type	Viscosity	Frascold Name	Oil Brand Product Name	Spare Part Code	Note
RECIPROCATING	HFO HFC R22	L M H	A-B-D-F-Q-S Two stage	POE	32 cSt	32POE	ERRECOM POE32 CPI_Emkarate RL32H		Standard oil charge
							T00SACD321 T00SACD325 T00SACD3223 T00SACD32200	1 Litre Can 5 Litres Can 20 Litres Pail 200 Litres Drum	
			V-Z-W Open C6	POE	68 cSt	68POE	ERRECOM POE68 CPI_Emkarate RL68H		Standard oil charge
							T00SACD681 T00SACD685 T00SACD6820	1 Litre Can 5 Litres Can 20 Litres Pail	
	R22	L M	A-B-D-F-Q-S	MIN	32 cSt	32MIN	CPI PALE OIL 32		Alternative oil
							T00SFR325	5 Litres Can	
		M H	V-Z-W	MIN	68 cSt	68MIN	CPI PALE OIL 68		Alternative oil
							T00SFR685 T00SFR6820 T00SFR68	5 Litres Can 20 Litres Pail 208 Litres Drum	
	L	Two stage	AB	46 cSt	46AB	TOTAL_Lunaria FR 46		Alternative oil	
							T00SPX454220	20 Litres Pail	
	R290 R1270	L M H	A-B-D-F-Q-S-V-Z	PAG	68 cSt	68PAG	ERRECOM PAG68 per HVAC or LUBRIZOL CPI_1516-68		Standard oil charge
							T00SPAG68HC1 T00SPAG68HC19 T00SPAG68HC	1 Litre Can 19 Litres Pail 208 Litres Drum	
W			PAG	150 cSt	150PAG	ERRECOM PAG150 per HVAC or LUBRIZOL CPI_1516-150		Standard oil charge	
						T00SPAG1501 T00SPAG15020	3,8 Litres Can 19 Litres Pail		



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RECIPROCATING	R717 (NH <sub>3</sub> )	L M H	Open C6	MIN	68 cSt	68MIN	LUBRIZOL CPI Pale Oil 68		Standard oil charge		
								T00SFR685 T00SFR6820 T00SFR68	5 Litres Can 20 Litres Pail 208 Litres Drum		
			SK (subcritical)	POE	85 cSt	85POE-C	FUCHS_Reniso C 85E		Standard oil charge		
	R744 (CO <sub>2</sub> )	Booster	TK (transcritical) Motor-2 (small)						T00SACD85/CO2 T00SACD85200	10 Litres Pail 200 Litres Drum	
			SK (subcritical)	PAG	68 cSt	68PAG-C	ERRECOM PAG68 per CO2 or SHRIEVE_Zerol RFL 68-EP		Alternative oil		
			TK (transcritical) Motor-2 (small)						T00SPAG681 T00SPAG6816	1 Litre Can 20 Litres Pail	
			TK (transcritical) Motor-1 (large)	POE	85 cSt	85POE-C	FUCHS_Reniso C 85E		Alternative oil		
									T00SACD85/CO2	10 Litres Pail	
			TK (transcritical) Motor-1 (large)	PAG	68 cSt	68PAG-C	ERRECOM PAG68 per CO2 or SHRIEVE_Zerol RFL 68-EP		Standard oil charge		
		Heat Pump							T00SPAG681 T00SPAG6816	1 Litre Can 20 Litres Pail	
			Cascade	SK (subcritical)	POE	85 cSt	85POE-C	FUCHS_Reniso C 85E		Standard oil charge	
										T00SACD85/CO2 T00SACD85200	10 Litres Pail 200 Litres Drum
				SK (subcritical)	POE	68 cSt	68POE-C	LUBRIZOL CPI Emkarate RL68HB		Alternative oil	
									T00SACD68/SK5 T00SACD68/SK20 T00SACD68/SK	5 Litres Can 20 Litres Pail 200 Litres Drum	



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<b>SCREW</b>	HFO HFC R22	L	CX-CT	POE	170 cSt	170POE	LUBRIZOL CPI Emkarate RL170H		<b>Standard oil charge</b>
								T00SRL170H5	5 Litres Can
								T00SRL170H20 T00SRL170H200	20 Litres Pail 200 Litres Drum
	HFO HFC	L M H	NR – RT ATS	POE	170 cSt	170POE	LUBRIZOL CPI Emkarate RL170H		<b>Recommended oil</b>
								T00SRL170H5	5 Litres Can
								T00SRL170H20 T00SRL170H200	20 Litres Pail 200 Litres Drum
	R22	M H	CX-CT	POE	300 cSt	300POE	LUBRIZOL CPI CP-4214-320		<b>Alternative oil</b>
								T00SRL300H5 T00SRL300H20	5 Litres Can 20 Litres Pail
		L M	NR – RT	AB	100 cSt	100AB	MOBIL Zerice S100	na	<b>Recommended oil</b>
		H	NR – RT	POE	150 cSt	150POE	CPI CP-4214-150	na	<b>Recommended oil</b>
		L M	ATS	AB	100 cSt	100AB	MOBIL Zerice S100	na	<b>Recommended oil</b>
		H	ATS	POE	150 cSt	150POE	CPI CP-4214-150	na	<b>Recommended oil</b>
		R290 R1270	L M H	NR – RT CX	PAG	150 cSt	150PAG	ERRECOM PAG150 per HVAC or LUBRIZOL CPI_1516-150	
	T00SPAG1501 T00SPAG15020								3,8 Litres Can 19 Litres Pail
R717 (NH <sub>3</sub> )	L M H	ATS	MIN	46/68 cSt	46MIN-A	Fuchs Reniso KS 46, KC 68	na	<b>Recommended oil</b>	
			PAO	68 cSt	68PAO-A	Gargoile Arctic SHC226E	na	<b>Recommended oil</b>	



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## Legenda

- **Standard Oil Charge:** included in extent of delivery
- **Alternative Oil:** available on request and charged in the compressor
- **Recommended Oil:** approved oil but NOT supplied by Frascold

- **AB** Alkyl Benzene Oil
- **MIN** Mineral Oil
- **PAG** Polyalkylene Glycol Oil
- **PAO** Poly-alpha-olefin Oil
- **POE** Polyolester Oil (see warning here below)

**WARNING** *POE Oil must be handled carefully, refer to producer Safety Data Sheet  
Use proper protective equipment (gloves, eye protection, etc.).  
Do NOT put POE Oil in contact with any surface or material that might be harmed by,  
such as polymers (e.g. PVC/CPVC and polycarbonate).*

- **L** Low Temperature Application (Refrigeration) for R407A, R407C, R407F, R422A/D, R438A
- **M** Medium Temperature Application (Refrigeration, Air-Conditioning)
- **H** High Temperature Application (Air-Conditioning, Heat Pump)

**For specific product availability and performance data refer to Frascold sales literature**

**Refer to Application Engineering bulletins, change-over guidelines etc... for additional information visit web site [Frascold.it](http://Frascold.it)**



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## Approved lubricants

### POE OIL

- Castrol Icematic SW32, Icematic SW68, Icematic SW170
- Errecom Errecom POE32, Errecom POE68
- Fuchs Reniso C 85E
- Lubrizol CPI Emkarate RL32H, Emkarate RL68H, Emkarate RL170H
- Lubrizol CPI CP-4214-150, CP-4214-320
- Lubrizol CPI Emkarate RL68HB
- Mobil EAL Arctic 32, EAL Arctic 68, EAL Arctic 150
- Total Planetelf ACD32, Planetelf ACD68, Planetelf ACD150

### PAG OIL

- ERRECOM PAG68 for HVAC, PAG150 for HVAC, PAG68 for CO2
- Lubrizol CPI CPI-1516-68, CPI-1516-150
- Shrieve Zerol RFL 68-EP (CO2), Progiline RL WI68 (HC), Progiline RLWI 150 (HC), Zerol PAG-R717

### MIN OIL

- Fuchs Reniso KS 46, Reniso KC 68
- Lubrizol CPI Pale Oil 32, Pale Oil 68

### AB OIL

- Mobil Zerice S100
- Shrieve Zerol 250, Zerol 350 (R717), Zerol 500
- Total Lunaria FR 46