

Table 4. Alliance scroll compressors

Compressor type	Refrigerant	Oil part number
SSR and SPR	R-22	OIL00027
SPA	R-410a	OIL00094
SSE	R-407c	OIL00094

Several of the oils listed below have different miscibilities and aniline points and therefore are not listed as being the same even though they appear similar from the descriptions.

White mineral oil is highly refined compared to pale mineral oil and the two are not interchangeable.

Table 5. Oil descriptions

Part number	Description	POE (Polyolester)	Mineral oil	Semi-synthetic	150 SUS = 32 cSt	300 SUS = 68 cSt	Container size	Anti-wear additive
OIL00015	Pale mineral oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, no identical oil in other size containers exists		X			X	1 gal	
OIL00022	White mineral oil, viscosity: 300 SUS = 68 cSt, 2.5 gallon container, no identical oil in other size containers exists		X			X	2.5 gal	
OIL00027	White mineral oil with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 1 quart container, no identical oil in other size containers exists		X		X		1 qt	X
OIL00031	Pale mineral oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, no identical oil in other size containers exists		X			X	1 gal	
OIL00037	Polyolester oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, same as OIL0020E, OIL0021E, OIL00049 and OIL00064	X				X	1 gal	
OIL00042	Pale mineral oil with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 1 gallon container, same as OIL0054E		X		X		1 gal	X

The "E" on the end of the oil part number refers to a European oil. Do not substitute oils unless approved in the application.

- 1 qt (quart) = 0.95 liters
- 1 gal (gallon) = 3.78 liters
- 2.5 gal (gallons) = 9.46 liters
- 5 gal (gallons) = 18.93 liters
- 10 L (liters) = 2.64 gallons



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Part number	Description	POE (Polyolester)	Mineral oil	Semi-synthetic	150 SUS = 32 cSt	300 SUS = 68 cSt	Container size	Anti-wear additive
OIL00045	Pale mineral oil with an anti-wear additive, viscosity: 300 SUS = 68 cSt, 1 gallon container, no identical oil in other size containers exists		X			X	1 gal	X
OIL00048	Polyolester oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, same as OIL0023E and OIL0048E	X				X	1 gal	
OIL00049	Polyolester oil, viscosity: 300 SUS = 68 cSt, 5 gallon container, same as OIL0020E, OIL0021E, OIL00037 and OIL00064	X				X	5 gal	
OIL00050	Semi-synthetic, viscosity: 300 SUS = 68 cSt, eleven 10 liter containers, same as OIL0025E			X		X	10 L	
OIL00057	Pale mineral oil, viscosity: 150 SUS = 32 cSt, 1 gallon container, no identical oil in other size containers exists, OIL00043 supersedes to OIL00057		X		X		1 gal	
OIL00064	Polyolester oil, viscosity: 300 SUS = 68 cSt, 5 gallon container, same as OIL0020E, OIL0021E, OIL00037 and OIL00049	X				X	5 gal	
OIL00078	Polyolester oil, with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 1 quart container, same as OIL0057E and OIL0058E	X			X		1 qt	X
OIL00094	Polyolester oil, with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 1 quart container, no identical oil in other size containers exists	X			X		1 qt	X
OIL00095	Polyolester oil, viscosity: 300 SUS = 68 cSt, 1 quart container, no identical oil in other size containers exists	X				X	1 qt	

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Part number	Description	POE (Polyolester)	Mineral oil	Semi-synthetic	150 SUS = 32 cSt	300 SUS = 68 cSt	Container size	Anti-wear additive
OIL0020E	Polyolester oil, viscosity: 300 SUS = 68 cSt, 5 gallon container, same as OIL0021E, OIL00037, OIL00049 and OIL00064	X				X	5 gal	
OIL0021E	Polyolester oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, same as OIL0020E, OIL00037, OIL00049 and OIL00064	X				X	1 gal	
OIL0023E	Polyolester oil, viscosity: 300 SUS = 68 cSt, 5 gallon container, same as OIL00048 and OIL0048E	X				X	5 gal	
OIL0025E	Semi-synthetic, viscosity: 300 SUS = 68 cSt, eleven 10 liter containers, same as OIL00050			X		X	10 L	
OIL0027E	Semi-synthetic, viscosity: 150 SUS = 32 cSt, eleven 10 liter containers, no identical oil in other size containers exists			X	X		10 L	
OIL0048E	Polyolester oil, viscosity: 300 SUS = 68 cSt, 1 gallon container, same as OIL0023E and OIL0048	X				X	1 gal	
OIL0054E	Pale mineral oil with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 20 L container, same as OIL00042		X		X		20 L	X
OIL0057E	Polyolester oil, with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 1 gallon container, same as OIL00078 and OIL0058E	X			X		1 gal	X
OIL0058E	Polyolester oil, with an anti-wear additive, viscosity: 150 SUS = 32 cSt, 5 gallon container, same as OIL00078 and OIL0057E	X			X		5 gal	X

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Table 6. Recommended oil charges for model A, B, C, D, E, F, M and R compressors

Model	Type	Number of cylinders	Oil charge pints (liters)
Model A			
A514	Open	4	27.0 (12.8)
2A514	Open	4	27.0 (12.8)
A516	Open	6	28.0 (13.2)
2A516	Open	6	28.0 (13.2)
A518	Open	8	28.0 (13.2)
2A518	Open	8	28.0 (13.2)
Model B			
B514	Open	4	15.0 (7.1)
2B514	Open	4	15.0 (7.1)
B516	Open	6	17.0 (8.0)
2B516	Open	6	17.0 (8.0)
B518	Open	8	17.5 (8.3)
2B518	Open	8	17.5 (8.3)
2B5*3*	Hermetic	3	12.0 (5.7)
Model C			
2C5*2	Hermetic 3 and 5 hp	2	6.7 (3.2)
2C5*3*	Hermetic 7.5 hp	3	6.7 (3.2)
Model D			
2D3*3*	Hermetic 5 hp	3	7.5 (3.5)
2D3*4*	Hermetic 7.5	4	4.6 (2.2)
Model E			
3E5*40 or CROE50*	Open	4	29.0 (13.7)
3E5*50 or CROE60*	Open	5	31.0 (14.7)
3E5*60 or CROE75*	Open	6	31.0 (14.7)
3E5*80 or CROE1C*	Open	8	33.0 (15.6)
1E5*4* or CRHE30*	Hermetic	4	32.0 (15.1)
2E5*4* or CRHE50*	Hermetic	4	32.0 (15.1)
1E5*5* or CRHE40*	Hermetic	5	34.0 (16.1)
2E5*5* or CRHE60*	Hermetic	5	34.0 (16.1)
1E5*6* or CRHE45*	Hermetic	6	34.0 (16.1)
2E5*6* or CRHE75*	Hermetic	6	34.0 (16.1)
1E5*8* or CRHE55*	Hermetic	8	36.0 (17.0)
2E5*8* or CRHE1C*	Hermetic	8	36.0 (17.0)