

COMPRESSOR TYPE

Ref. Vans

Type

ASHRAE

GWP

Safety Group

MIN

POE

PAG

HYBRID

Evaporator Temperature

Piston

Screw

Centrifugal

Swash Plate

Isobutane	R600a	0	A3	✓	✓			-30 °C	3GS	4GS																			
Propylene	R1270	0	A3	✓	✓			-30 °C	3GS	4GS	5GS																		
Propane	R290 *	0.02	A3	✓	✓	✓		-30 °C	3GS	4GS	5GS																		
NH3	R717	0	B2L	✓		✓		-30 °C	3GS	4GS	4SA	4HT			4GS	4SA	4HT												
								-40 °C	3GS	4SA				3GS	4SA														
								-50 °C	3GS					3GS	4SA														
CO2	R744	1	A1		✓	✓	✓	-50 °C	32S	46S	68S	32	46	32S	46S	68S	32	46											
									5S	8S				5S	8S														
HCFC	R22	1960	A1	✓			✓	-25 °C	3GS	4GS			32	46	4GS	5GS			46										
								-35 °C	3GS	4GS			32	46	4GS				46										
								-50 °C	3GS				32	46	3GS				46										
HFC	R23	14600	A1			✓		-100 °C	32S	46S	68S																		
	R32	771	A2L			✓		✓	-25 °C	32S	46S			32	46	68S	100S			46									
	R134a	1530	A1			✓	✓	✓	-40 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46	68S	100S	170T	220T	68SP	68S	46			
	R245fa	962	B1			✓		✓	-20°C	32S	46S	68S	32	46	68S	100S	170T	220T	46	68S	100S	170T	220T			68SP	68S	46	
	R404A	4728	A1			✓		✓	-50°C	32S	46S	68S	32	46	68S	100S	170T	220T	46							68SP	68S	46	
	R407C	1908	A1			✓		✓	-30 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R407H	1615	A1			✓		✓	-50°C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R410A	2256	A1			✓		✓	-45°C	32S				32	46	68S	100S	170T	220T	46							68SP	68S	46
	R417A	2508	A1			✓		✓	-15 °C	68S				32	46	170T	220T			46									
	R507A	4775	A1			✓		✓	-50°C	32S				32	46	100S	170T	220T		46									
HFO	R1234yf	0.501	A2L			✓	✓	✓	-20 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46	68S	100S	170T	220T	68SP	68S	46			
	R1234ze(E)	1.37	A2L			✓		✓	-20 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46	68S	100S	170T	220T						
HCFO	R1224yd(Z)	<1	A1	✓	✓		✓	-20 °C					32	46	4GS	4GSD	68S		46	4GS	4GSD	68S							
	R1233zd(E)	3.88	A1	✓	✓		✓	-20 °C					32	46	4GS	4GSD	68S		46	4GS	4GSD	68S							
HFC/HFO	R448A	1494	A1			✓		✓	-50 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R449A	1505	A1			✓		✓	-50 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R452A	2292	A1			✓		✓	-40 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46							68SP	68S	46	
	R454A	270	A2L			✓		✓	-40 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R454B	531	A2L			✓		✓	-25 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R454C	166	A2L			✓		✓	-30 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46										
	R513A	674	A1			✓		✓	-20 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46							68SP	68S	46	
HFC/HFO/CO2	R455A	166	A2L			✓		✓	-50 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46							68SP	68S	46	
HFC/HFO/HC	R465A	162	A2			✓		✓	-50 °C	32S	46S	68S	32	46	68S	100S	170T	220T	46							68SP	68S	46	
HFC/CO2	R469A	1467	A1			✓		✓	-70°C	32S	46S	68S			68S	100S	170T	220T											
HFC/HC	R417A	2508	A1			✓		✓	-25°C	32S	46S	68S	32	46	68S	100S	170T	220T	46										

*IPCC AR6

Oil Selector for Car Air Conditioning System

		P46	PB100	AC46
Vehicle Type	IC Engine	✓	✓	✓
	BEV/HEV	x	x	✓
Refrigerant Type	R134a	✓	✓	✓
	R1234yf	✓	x	✓
	R744	x	x	✓
Compressor Type	Swash Plate	✓	✓	✓
	Scrol	✓	✓	✓
	Vane	x	✓	*✓
	Belt Driven	✓	✓	✓
	Electrically Driven	x	x	✓

* For compressors specified to use PAG VG100, please use Sunice PB100.



HYB Sunice HYBRID 32
 Sunice HYBRID 46
 For Car A/C
 HYB Sunice AC46



MO Sunice 3GS
 Sunice 4GS
 Sunice 5GS
 Sunice 3GSD
 Sunice 4GSD
 Sunice 5GSD

For NH3

MO Sunice 4SA
 Sunice 4HT

HYB: Patented Technology
 MO: Mineral
 POE: Polyolesters
 PAG: Polyalkylene glycols



Sunice SL-10S
 Sunice SL-22S
 Sunice SL-32S
 Sunice SL-46S
 Sunice SL-68S
 Sunice SL-100S
 Sunice SL-120T
 Sunice SL-170T
 Sunice SL-220T
 Sunice SL-320T

For Ref Vans

POE Sunice SL-68SP

For CO₂ / R744

POE Sunice 55

POE Sunice 85

For Car A/C

PAG Sunice P46

PAG Sunice PB100

* JSO has extensive expertise and a proven track record in refrigeration oils for R290 refrigerants, and welcomes your inquiries.

