

**MAHLE**

## Refrigerant and oil filling quantities

Cars, vans, & trucks  
2021-22

**BEHR**<sup>®</sup>

**MAHLE**

ArcticPRO



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# Symbols



Vehicle type (passenger cars + vans)



Vehicle type (trucks)



Year of manufacture



Refrigerant type



Refrigerant quantity (g)



OE compressor oil type



Compressor oil type from the BEHR sales brand  
(please refer to the following pages when selecting the oil)



Oil filling quantity for the overall system (ml)  
(if "n/a" is entered, see notes)

# Safety precautions and notes

The information in the following tables has been compiled using data from vehicle manufacturers and other sources, and it is applicable only to air conditioning systems in their original designs. Only specially trained professionals should carry out work on air conditioning systems, taking into account the relevant safety precautions and country-specific laws.

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# Product features

## PAO 68 oil and PAO 68 Plus UV oil

- Not hygroscopic: in contrast to other oils, these do not absorb any moisture from the ambient air
  - Can be used as an alternative to a range of PAG oils (see the usage overview): stock one oil instead of three
  - Successfully used in practice for more than 20 years
- Helps to increase the air conditioning system's performance
  - No adverse effects on components in the air conditioning circuit (also applies to use in air conditioning service units/confirmed by manufacturers using the sealed glass tube method in accordance with the ASHRAE 97 standard)
  - Available with (PAO 68 Plus UV oil) or without the addition of a contrast agent (PAO 68 oil)

# Advantages/effect

## PAO 68 oil

- Being nonhygroscopic, PAO oil is easy to use in workshops. The required amount of oil can also be taken from large containers (e.g., 5 liters).
- A low degree of refrigerant solubility in the oil means that the PAO oil is not diluted and retains its full viscosity in the air conditioning compressor.
- Oil film inside the components creates a better seal and decreases friction between the air conditioning compressor's moving parts.
- Reduced operating temperature and wear.
- Results in increased operational safety and reduces noise, running time, and energy consumption by the air conditioning compressor.

## PAO 68 Plus UV oil

- Same positive characteristics as PAO 68 oil
- Additional admixture of a fluorescent contrast agent for UV leak detection
- Low vol% concentration of the contrast agent with the following advantages: preserves the oil's positive characteristics and avoids negative effects on system components or service equipment
- Suitable for use as the sole oil for filling the entire system, without any negative effects



# Additional details


## Is PAO 68 oil compatible with other oils?

- PAO 68 oil does not damage fluoroelastomer materials, such as hoses and seals.
- Since PAO 68 oil is compatible with many other lubricants and refrigerants, it can be used both when topping off and when changing the system's entire oil volume. Its molecular structure and density mean that, although PAO 68 oil can be mixed to a certain extent with other oils, it separates from them again when it settles and does not form a permanent bond.
- This guarantees that the necessary viscosity of the oils is maintained and there is no change in the overall viscosity.



The AA1 clear version of PAO 68 oil (without leak detecting agent) is also approved for use with R1234yf and in electric air conditioning compressors in hybrid and electric vehicles.

# Oils in comparison

Type of oil	Application	Notes
<b>PAG oils</b> for refrigerant R134a	There are various PAG oils with different flow characteristics (viscosities) for use with refrigerant R134a. PAG oils are hygroscopic. This means that cans do not have a long shelf life once opened.	Standard PAG oils are not suitable for refrigerant R1234yf or for electrically driven air conditioning compressors.
<b>PAG oil YF</b> for refrigerants R1234yf and R134a	There are also various PAG oils with different flow characteristics (viscosities) for use with refrigerant R1234yf. What makes these PAG oils from the BEHR sales brand special is that they are not only suitable for use with the refrigerant R1234yf but can also be used with the refrigerant R134a. As PAG oils are hygroscopic, cans do not have a long shelf life once opened.	PAG oil YF is suitable for both R1234yf and R134a refrigerants.
<b>PAG oil SP-A2</b> for refrigerants R1234yf and R134a	For use in electric air conditioning compressors, such as those manufactured by Sanden and Hanon Systems.	
<b>PAO 68 oil</b> for refrigerant R134a, and in some cases for refrigerant <b>R1234yf</b> and others	Can be used as an alternative to the various PAG oils that are offered for R134a (has the advantage of not being hygroscopic, i.e., in contrast to other oils, it does not absorb any moisture from the ambient air). The two different PAO 68 oils offered by MAHLE under the BEHR sales brand (AA1 and AA3) can be used in conjunction with numerous different refrigerants (see product overview).	 <b>PAO 68 AA1 clear version oil (without leak detecting agent) can also be used with the new refrigerant R1234yf as well as in electrically driven air conditioning compressors in hybrid and electric vehicles.</b>

# PAO and other oils

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Contents	MAHLE reference no.	Former Behr Hella Service reference no.
<b>PAG oil</b>	Vehicle air conditioning systems*	All types**	R134a	PAG I (ISO 46)	240 ml	ACPL 1 000P	8FX 351 213-031
	Vehicle air conditioning systems*	All types**	R134a	PAG II (ISO 100)	240 ml	ACPL 3 000P	8FX 351 213-051
	Vehicle air conditioning systems*	All types**	R134a	PAG III (ISO 150)	240 ml	ACPL 2 000P	8FX 351 213-041
<b>PAG YF oil</b>	Vehicle air conditioning systems*	All types**	R1234yf, R134a	PAG I (ISO 46)	240 ml	ACPL 7 000P	8FX 351 213-121
	Vehicle air conditioning systems*	All types**	R1234yf, R134a	PAG II (ISO 100)	240 ml	ACPL 8 000P	8FX 351 213-131
<b>PAG SP-A2 oil</b>	Air conditioning systems in hybrid and electric vehicles	Electrically driven compressors, e.g., those manufactured by Sanden and Hanon Systems	R1234yf, R134a	PAG I (ISO 46)	250 ml	ACPL 9 000P	8FX 351 213-141

\* Passenger cars, trucks, and agricultural and construction machinery

\*\* Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Con-tents	MAHLE reference no.	Former Behr Hella Service reference no.
PAO 68 oil	Vehicle air conditioning systems*	All types (except vane compressors)	R1234yf, R134a, R413a, R22, R513a	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 L 5.0 L	ACPL 11 000P ACPL 10 000P ACPL 14 000P	8FX 351 214-031 8FX 351 214-021 8FX 351 214-101
	Air conditioning systems in hybrid and electric vehicles	Electric compressors	R1234yf, R134a, R513a				
	Refrigerated trucks (fresh produce delivery vehicles)	Reciprocating compressors**	R1234yf, R134a, R507a, R500, R513a				
	Refrigerated trucks (freezer vans)	Reciprocating compressors**	R507a, R502, R513a, R22				
	Vehicle air conditioning systems*	Vane compressors**	R134a, R413a, R513a	AA3 (ISO 100)	1.0 L	ACPL 13 000P	8FX 351 214-081

\* Passenger cars, trucks, and agricultural and construction machinery

\*\* Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.

Product	Application	Air conditioning compressor type	Refrigerant	Viscosity class	Con-tents	MAHLE reference no.	Former Behr Hella Service reference no.
<b>PAO 68 Plus UV oil</b>	Vehicle air conditioning systems*	All types** (except vane compressors)	R134a, R413a, R22	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 L 5.0 L	ACPL 15 000P ACPL 16 000P ACPL 17 000P	8FX 351 214-201 8FX 351 214-211 8FX 351 214-221
	Refrigerated trucks (fresh produce delivery vehicles)	Reciprocating compressors**	R134a, R507a, R500				
	Refrigerated trucks (freezer vans)	Reciprocating compressors**	R507a, R502, R22				
	Vehicle air conditioning systems*	Vane compressors**	R134a, R413a	AA3 (ISO 100)	1.0 L	ACPL 18 000P	8FX 351 214-281

\* Passenger cars, trucks, and agricultural and construction machinery

\*\* Except for electric air conditioning compressors

The appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. The wrong choice can lead to damage. Vehicle- or manufacturer-specific instructions must be followed carefully.



<b>Alfa Romeo</b>						
145/146 1.3/1.4/1.6/1.7	1994–97	R134a	700	SP 10	PAO 68 or PAG ISO 46	225–255
145/146 Twin Spark	1996–00	R134a	700	ND9	PAO 68 or PAG ISO 100	130–150
145/146 D Turbo	1994–00	R134a	700	UCON RL 488	PAO 68 or PAG ISO 150	221–251
145/146 1.9 JTD	1998–00	R134a	700	SP 20	PAO 68 or PAG ISO 100	135
147 1.6 i/1.9 JTD/2.0 i/1.9 JTD 16 V/3.2 i	2001–12	R134a	550	PAG	PAO 68 or PAG ISO 46	135
155	1994–97	R134a	700	SP 10	PAO 68 or PAG ISO 46	225–255
155 1.6/1.8/2.0 16 V	1995–97	R134a	700	ND8	PAO 68 or PAG ISO 46	260–320
155 1.9 diesel	1993–97	R134a	700	UCON RL 488	PAO 68 or PAG ISO 150	236
156	1997–02	R134a	650	SP 20	PAO 68 or PAG ISO 100	130
156 1.9 JTD	1997–02	R134a	650	SP 20	PAO 68 or PAG ISO 100	130
156 2.4 JTD	1997–02	R134a	650	ND9	PAO 68 or PAG ISO 100	150
156 Facelift	2002–09	R134a	500	SP 10	PAO 68 or PAG ISO 46	130
156 Facelift 2.4 JTD 20 V	2003–06	R134a	550	ND9	PAO 68 or PAG ISO 100	150
156 Facelift 2.4 JTD	2002–03	R134a	500	ND9	PAO 68 or PAG ISO 100	150
159	2005–	R134a	460	ZXL100PG	PAO 68 or PAG ISO 46	130



<b>Alfa Romeo</b>						
164	1994–98	R134a	1200	E13 M6	PAO 68	120–150
166	1998–01	R134a	700	SP 10	PAO 68 or PAG ISO 46	135
166	2001–09	R134a	650	SP 10	PAO 68 or PAG ISO 46	135
4C (960) 1.8 TBi 960 A1.000	03/2013–	1234yf	370	Idemitsu PSD1	PAG YF or PAO 68 AA1	120
Brera	2006–	R134a	550	PAG	PAO 68 or PAG ISO 46	130
Giulia (952)	10/2015–	1234yf	535	ND12	PAO 68 or PAG ISO 100 YF	130
Giulietta	2010–	R134a	450	PAG	PAO 68	130
GT	2004–10	R134a	550	SP 10	PAO 68 or PAG ISO 46	130
GT Coupe 1.9 JTD	2003–06	R134a	600	PAG	PAO 68	n/a
GTV 3.0 V6 24 V	1997–06/99	R134a	650–750	SP 10	PAO 68 or PAG ISO 46	230–250
GTV 3.0 V6 24 V	06/1999–04	R134a	550–600	SP 10	PAO 68 or PAG ISO 46	230–250
MiTo	2008–	R134a	450	PAG	PAO 68 or PAG ISO 46	130
Spider	2006–	R134a	460	ZXL100PG	PAO 68 or PAG ISO 46	130
Spider/GTV 1.8	1998–06/99	R134a	650–700	SP 10	PAO 68 or PAG ISO 46	260–320
Spider/GTV 1.8	06/1999–01	R134a	550–600	SP 10	PAO 68 or PAG ISO 46	260–320



<b>Alfa Romeo</b>						
Spider/GTV 2.0	1996–06/99	R134a	650–750	ND9	PAO 68 or PAG ISO 100	260–320
Spider/GTV 2.0	06/1999–03	R134a	550–600	ND9	PAO 68 or PAG ISO 100	260–320
Spider 3.0 V6/GTV 2.0 Turbo	1996–06/99	R134a	650–750	SP 10	PAO 68 or PAG ISO 46	225–255
Spider 3.0 V6/GTV 2.0 Turbo	06/1999–01	R134a	550–600	SP 10	PAO 68 or PAG ISO 46	225–255
<b>Aston Martin</b>						
DB7 Vantage 3.2	1994–04	R134a	870–930	PAG	PAO 68	n/a
<b>Audi</b>						
80	10/1992–95	R134a	650–700	G052 154 A2	PAO 68 or PAG ISO 46	250–300
80 2.3	10/1992–94	R134a	750–800	G052 154 A2	PAO 68 or PAG ISO 46	250–300
100/A6/S4/S6 – Zexel compressor	10/1992–97	R134a	750–800	G052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	10/1992–97	R134a	750–800	G052 300 A2	PAO 68 or PAG ISO 46	250–300
A1 (8X) Sanden/Delphi compressor (5NO XXX XXX)	2010–06/14	R134a	500	PAG	PAG 46 or PAO 68	110
Denso compressor (1KO XXX XXX)	2010–06/14	R134a	500	PAG	PAG 46 or PAO 68	90
A1 (8X) Denso compressor (5Q0 XXX XXX)	2010–06/2014	R134a	500	PAG	PAO 68 or PAG ISO 46	110



**Audi**

A1 (8X) Sanden compressor (5K0/5Q0 XXX XXX)	2010–06/2014	R134a	500	PAG	PAO 68 or PAG ISO 46	80
A1 (8X) Delphi/MAHLE compressor (5K0/5Q0 XXX XXX)	2010–06/2014	R134a	500	PAG	PAO 68 or PAG ISO 46	110
A1 (8XF/8XK) Sanden/Delphi/Denso/MAHLE compressor	06/2014–	R134a	475	PAG	PAO 68 or PAG ISO 46	110
A1 (8XF/8XK) Sanden compressor (5K0/5Q0 XXX XXX)	06/2014–	R134a	475	PAG	PAO 68 or PAG ISO 46	80
A2 1.2 TDI/1.4 i/1.4 TDI/1.6 FSI	2000–01	R134a	500–550	PAG	PAO 68 or PAG ISO 46	170–190
A2 1.2 TDI/1.4 i/1.4 TDI/1.6 FSI	2001–06	R134a	480–530	PAG	PAO 68 or PAG ISO 46	170–190
A3 (8L1)	1996–03	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
A3 (8P1/8PA/Cabriolet)	05/2003–10/03	R134a	500–550	PAG	PAO 68 or PAG ISO 46	170–190
A3 (8P1/8PA/Cabriolet) Zexel/Valeo/Sanden compressor	10/2003–07	R134a	525	PAG	PAG 46 or PAO 68	115
Denso 7SEU17 compressor	10/2003–07	R134a	525	PAG	PAG 46 or PAO 68	140
A3 (8P1/8PA/Cabriolet) Denso 6SEU14 compressor	06/2007–	R134a	525	PAG	PAG 46 or PAO 68	90
Delphi compressor	08/2007–	R134a	525	PAG	PAG 46 or PAO 68	110
A3 (8V) Denso/Delphi compressor	05/2012–	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Sanden compressor	05/2012–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
A3 e-tron (8V)	09/2014–	R134a	500	G 052 535 M	PAO 68 AA1	120



## Audi

A4/S4 – Zexel compressor	1994–11/97	R134a	650–700	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	1994–11/97	R134a	650–700	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A4/S4 – Zexel compressor; Showa condenser	11/1997–00	R134a	700–750	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor; Showa condenser	11/1997–00	R134a	700–750	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A4/S4 – Zexel compressor; AWG condenser	11/1998–12/98	R134a	550–600	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor; AWG condenser	11/1998–12/98	R134a	550–600	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A4 (8E, B6) gasoline	11/2000–11/04	R134a	480–530	PAG	PAO 68 or PAG ISO 46	170–190
A4 (8E, B6) diesel	11/2000–11/04	R134a	480–530	G 052 300 A2	PAO 68 or PAG ISO 46	180
A4 (8EC, 8ED)	11/2004–	R134a	450–550	G 052 300 A2	PAO 68 or PAG ISO 46	n/a
A4 (8K) compressor: Denso 6SEU14 + 7SEU17	2007–	R134a	600	PAG	PAO 68 or PAG ISO 46	150
A4 Denso 6SAS14/SES14 compressor	2011–	R134a	600	PAG	PAG 46 or PAO 68	110
A5/A5 Cabriolet compressor: Denso 6SEU14 + 7SEU17	2007–	R134a	600	PAG	PAO 68 or PAG ISO 46	150
A5 Denso 6SAS14/SES14 compressor	2011–	R134a	600	PAG	PAG 46 or PAO 68	110
A6 – Zexel compressor	1997–11/97	R134a	800–850	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	1997–11/97	R134a	800–850	G 052 300 A2	PAO 68 or PAG ISO 46	250–300



## Audi

A6 – Zexel compressor	11/1997–08/98	R134a	850–900	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	11/1997–08/98	R134a	850–900	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A6 – Zexel compressor (e*)	08/1998–04/99	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor (e*)	08/1998–04/99	R134a	750–800	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A6 – Zexel compressor (3*)	10/1998–12/98	R134a	550–600	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor (3*)	10/1998–12/98	R134a	550–600	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A6 V8 – Zexel compressor	1998–04/99	R134a	550–600	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	1998–04/99	R134a	550–600	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A6 1.8 i/1.8 T/2.4 i/2.7 T/2.8 i	04/1999–04/04	R134a	650–700	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
A6 2.0 i/3.0 i	04/1999–04/04	R134a	550–600	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A6 1.9 TDI (AFN/AVF)	04/1999–04/04	R134a	550–600	PAG	PAO 68 or PAG ISO 46	250–300
A6 1.9 TDI (AVG/AWX)	04/1999–04/04	R134a	650–700	PAG	PAO 68 or PAG ISO 46	250–300
A6 1.9 TDI (AJM)	04/1999–10/99	R134a	650–700	PAG	PAO 68 or PAG ISO 46	250–300
A6 1.9 TDI (AJM)	10/1999–04/04	R134a	550–600	PAG	PAO 68 or PAG ISO 46	250–300
A6 2.5 TDI (AFB/AYM)	04/1999–04/04	R134a	550–600	PAG	PAO 68 or PAG ISO 46	250–300



## Audi

A6 2.5 TDI (AKE)	04/1999–04/04	R134a	650–700	PAG	PAO 68 or PAG ISO 46	250–300
A6 2.5 TDI (AKN/BAU/BCZ/BDG/BDH/BFC)	04/1999–10/99	R134a	650–700	PAG	PAO 68 or PAG ISO 46	250–300
A6 2.5 TDI (AKN/BAU/BCZ/BDG/BDH/BFC)	10/1999–04/04	R134a	550–600	PAG	PAO 68 or PAG ISO 46	250–300
A6 (4F)	04/2004–11	R134a	510–550	G 052 300 A2	PAO 68 or PAG ISO 46	120–140
A6 (4G/C7) Denso/Zexel compressor	2011–	R134a	570	PAG	PAO 68 or PAG ISO 46	120
A7 Denso/Zexel compressor	2010–	R134a	570	PAG	PAO 68 or PAG ISO 46	120
A8 – Zexel compressor	1994–11/97	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	1994–11/97	R134a	750–800	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A8 – Zexel compressor	11/1997–00	R134a	800–850	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	11/1997–00	R134a	800–850	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
A8 (4E) 3.0 i/3.7 i/4.2 i	2002–09	R134a	600–640	PAG	PAO 68 or PAG ISO 46	200
A8 (4E) 6.0 i/4.0 TDI	2002–09	R134a	600–640	PAG	PAO 68 or PAG ISO 46	150
A8 (4H)	2010–	R134a	780	PAG	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	2010–	R134a	930	PAG	PAO 68 or PAG ISO 46	150



<b>Audi</b>						
A8 (4H) engine: 8-cylinder TDI	2010–	R134a	740	PAG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	2010–	R134a	915	PAG	PAO 68 or PAG ISO 46	190
A8 (4H) Hybrid	2012–	R134a	1080	G 052 535 M2	PAO 68 AA1	180
Allroad 4BH	2000–06	R134a	750–850	PAG	PAO 68 or PAG ISO 46	240
Allroad/A6 (4FH) 2.7 TDI/3.0 TDI/3.2 FSI/4.2 FSI	2006–	R134a	510–550	PAG	PAO 68 or PAG ISO 46	120–140
Avant RS2	1994–95	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Cabriolet	10/1992–00	R134a	650–700	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Cabriolet 2.3	10/1992–94	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Coupe	10/1992–96	R134a	650–700	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Coupe 2.3	10/1992–94	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Coupe S2 – Zexel compressor	10/1992–00	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
Denso compressor	10/1992–00	R134a	750–800	G 052 300 A2	PAO 68 or PAG ISO 46	250–300
Q3 Zexel/Valeo/Sanden/Delphi compressor	2011–	R134a	520	PAG	PAG 46 or PAO 68	110
Denso 6SEU14 compressor	2011–	R134a	520	PAG	PAG 46 or PAO 68	90
Q3 Denso 7SEU17 compressor	2011–	R134a	520	PAG	PAG 46 or PAO 68	140



<b>Audi</b>						
Q5 compressor: Denso 6SEU14	2008–06/12	R134a	570	PAG	PAO 68 or PAG ISO 46	150
Q5 Denso 6SAS14/SES14 compressor + condenser 8T0 XXX XXX D	06/2012–10/13	R134a	600	PAG	PAG 46 or PAO 68	110
Q5 Denso 6SAS14/SES14 compressor + condenser 8T0 XXX XXX C	06/2012–10/13	R134a	630	PAG	PAO 68 or PAG ISO 46	110
Q5 Denso compressor + condenser 8T0 XXX XXX C	10/2013–	R134a	550	PAG	PAO 68 or PAG ISO 46	110
Q5 Hybrid	2011–07/12	R134a	840	G 052 535 M2	PAO 68 AA1	200
Q5 Hybrid	07/2012–	R134a	890	G 052 535 M2	PAO 68 AA1	200
Q7 4.2 FSI/3.0 TDI/3.6 FSI/4.2 TDI/6.0 TDI	2005–15	R134a	700–750	ND8	PAO 68 or PAG ISO 46	130–160
with air conditioning system at rear	2005–15	R134a	1050–1100	ND8	PAO 68 or PAG ISO 46	230–260
Q7 (4M) Denso 6SES14 + 6SAS14 compressor	06/2015–	R134a	700	PAG	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	06/2015–	R134a	950	PAG	PAO 68 or PAG ISO 46	150
Q7 (4M) e-tron	02/2016–	R134a	890	G 052 535 M2	PAO 68 AA1	290
RS 3 with 5-cylinder engine	2011–	R134a	500	PAG	PAG 46 or PAO 68	n/a
RS 4 Denso compressor 7SEU17	2012–	R134a	570	PAG	PAG 46 or PAO 68	150
RS 5 Denso compressor 7SEU17	2010–	R134a	570	PAG	PAG 46 or PAO 68	150
S4 Zexel/Denso compressor	2009–	R134a	600	PAG	PAG 46 or PAO 68	150



<b>Audi</b>						
S5 Zexel/Denso compressor	2010–	R134a	600	PAG	PAG 46 or PAO 68	150
R8 compressor: Denso 7SEU17; throttle valve: red	2007–	R134a	650	PAG	PAO 68 or PAG ISO 46	150
S6	2005–10	R134a	530	PAG	PAO 68 or PAG ISO 46	130
TT (8N) condenser with 20 mm depth	1998–06	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
TT (8N) condenser with 16 mm depth	1998–06	R134a	650	G 052 154 A2	PAO 68 or PAG ISO 46	135
TT (8J) Denso 6SEU14 compressor	2006–10/14	R134a	525	PAG	PAO 68 or PAG ISO 46	80–100
Sanden/Delphi/MAHLE compressor	2006–10/14	R134a	525	PAG	PAO 68 or PAG ISO 46	100–120
TT (FV) Denso/Delphi/MAHLE compressor	10/2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	110
TT (FV) Sanden compressor	10/2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
V8	10/1992–93	R134a	850–900	G 052 154 A2	PAO 68 or PAG ISO 46	250–300
<b>BMW</b>						
1 Series (E81/82/87/88)	2004–13	R134a	620	PAG	PAO 68 or PAG ISO 46	n/a
1 Series (F20/21)	2011–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
2 Series (F22)	10/2013–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
2 Series Cabriolet (F23)	10/2013–	R134a	500	PAG	PAO 68 or PAG ISO 46	n/a



<b>BMW</b>						
3 Series (E30)	1992–93	R134a	775–825	81 229 407 724	PAO 68 or PAG ISO 46	160
4 Series (F32/F33/F36)	2013–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
3 Series (E36) – Denso compressor (1*)	1993–00	R134a	975–1025	81 229 407 724	PAO 68 or PAG ISO 46	100–140
Denso compressor (2*)	1993–00	R134a	800–850	81 229 407 724	PAO 68 or PAG ISO 46	100–140
Seiko compressor (1*)	1993–00	R134a	975–1025	PAG	PAO 68 or PAG ISO 100	140–160
Seiko compressor (2*)	1993–00	R134a	800–850	PAG	PAO 68 or PAG ISO 100	140–160
3 Series (E46) gasoline engine: M43/M43TU/M52/M54/N40/N42/S54	1998–05	R134a	715–765	PAG	PAO 68 or PAG ISO 46	150
3 Series (E46) diesel engine: M47/M47TU/M57	2001–05	R134a	670–690	PAG	PAO 68 or PAG ISO 46	150
3 Series (E90/E91/E92/E93) Denso compressor 7SEU17C	2005–12	R134a	600	PAG	PAO 68 or PAG ISO 46	180
3 Series (F30/F31)	2012–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
3 Series (F30) Hybrid 3	2012–	R134a	740	PAG	PAO 68 or PAG ISO 46	n/a
3 Series (F34) Gran Turismo	2013–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
4 Series	07/2013–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
5 Series (E34) – Denso compressor (1*)	1993–96	R134a	1525–1575	81 229 407 724	PAO 68 or PAG ISO 46	160–190
Denso compressor (2*)	1993–96	R134a	1450	81 229 407 724	PAO 68 or PAG ISO 46	160–190





<b>BMW</b>						
Seiko compressor (1*)	1993–96	R134a	1525–1575	PAG	PAO 68 or PAG ISO 100	180–190
Seiko compressor (2*)	1993–96	R134a	1450	PAG	PAO 68 or PAG ISO 100	180–190
5 Series (E39) – Seiko compressor	1996–09/98	R134a	1200–1250	PAG	PAO 68 or PAG ISO 100	145–175
5 Series (E39) – Seiko compressor	09/1998–03	R134a	740–760	PAG	PAO 68 or PAG ISO 100	145–175
525 td/tds (E39) – Seiko compressor	1996–09/98	R134a	1185–1235	PAG	PAO 68 or PAG ISO 100	145–175
525 td/tds (E39) – Seiko compressor	09/1998–03	R134a	1290–1310	PAG	PAO 68 or PAG ISO 100	145–175
530 d (E39) – Seiko compressor	1998–03	R134a	670–690	PAG	PAO 68 or PAG ISO 100	145–175
5 Series (E60/61) 520 i/523 i/525 i/530 i/535 i/540 i/545 i/550 i/M5	07/2003–10	R134a	800–820	PAG	PAO 68 or PAG ISO 46	180
5 Series (E60/61) 520 d/525 d/530 d/535 d	07/2003–10	R134a	690–710	PAG	PAO 68 or PAG ISO 46	180
5 Series (F10/F11)	2010–	R134a	850	PAG	PAO 68 or PAG ISO 46	n/a
5 Series Gran Turismo (F07)	2009–	R134a	850	PAG	PAO 68 or PAG ISO 46	n/a
6 Series (E63/E64) 630 i/645 Ci/650 i engine: N52/N62/N53/S85	01/2004–11	R134a	800–820	PAG	PAO 68 or PAG ISO 46	180
6 Series (F12/F13) 640 i/650 i engine: N55/N63	2011–	R134a	850	PAG	PAO 68	n/a
7 Series (E32) – Denso compressor	1993–94	R134a	1525–1575	81 229 407 724	PAO 68 or PAG ISO 46	160–190
Seiko compressor	1993–94	R134a	1525–1575	PAG	PAO 68 or PAG ISO 100	160–200



<b>BMW</b>						
Denso compressor with air conditioning system at rear	1993–94	R134a	1675–1725	81 229 407 724	PAO 68 or PAG ISO 46	180–210
Seiko compressor with air conditioning system at rear	1993–94	R134a	1675–1725	PAG	PAO 68 or PAG ISO 100	160–200
7 Series (E38) – Seiko compressor	1994–09/98	R134a	1185–1235	PAG	PAO 68 or PAG ISO 100	130–190
7 Series (E38) – Seiko compressor	09/1998–01	R134a	670–690	PAG	PAO 68 or PAG ISO 100	130–190
750 L7 (E38) – Seiko compressor	1994–01	R134a	1245–1295	PAG	PAO 68 or PAG ISO 100	130–190
Seiko compressor with air conditioning system at rear	1994–01	R134a	1375–1425	PAG	PAO 68 or PAG ISO 100	130–190
725 ds (E38) – Seiko compressor	1996–01	R134a	1185–1235	PAG	PAO 68 or PAG ISO 100	130–190
7 Series (E65/E66)	2002–05	R134a	800–820	81 229 407 724	PAO 68 or PAG ISO 46	n/a
7 Series (E65/E66)	07/2005–08	R134a	810	81 229 407 724	PAO 68 or PAG ISO 46	180
7 Series (F01/F02/F04) engine: N54/N63/N57/N74	10/2008–	R134a	900	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	10/2008–	R134a	1000	PAG	PAO 68 or PAG ISO 46	n/a
8 Series (E31) – Denso compressor	1993–99	R134a	1525–1575	81 229 407 724	PAO 68 or PAG ISO 46	160–190
Seiko compressor	1993–99	R134a	1525–1575	PAG	PAO 68 or PAG ISO 100	160–200
i3 (I01)	2013–08/13	R134a	750		PAO 68 AA1	n/a
with heat pump	2013–08/13	R134a	970		PAO 68 AA1	n/a



BMW							
i3 (I01)	09/2013–	R1234yf	750			PAO 68 AA1	n/a
with heat pump	09/2013–	R1234yf	970			PAO 68 AA1	n/a
i8 (I12)	2014–	R1234yf	630			PAO 68 AA1	n/a
M2 (F87)	2015–	R134a	550	PAG		PAO 68 or PAG ISO 46	n/a
M3 (F80)	2014–	R134a	550	PAG		PAO 68 or PAG ISO 46	n/a
M4 (F82/F83)	2014–	R134a	550	PAG		PAO 68 or PAG ISO 46	n/a
X1 (E84)	2009–	R134a	600	PAG		PAO 68 or PAG ISO 46	n/a
X3 (E83) 2.0 d/3.0 d engine: M47T2/M57TU	2004–10	R134a	670–690	PAG		PAO 68 or PAG ISO 100	n/a
X3 (E83) 2.0 i/2.5 i/3.0 i engine: M54/N46/N52K	2004–10	R134a	730–750	PAG		PAO 68 or PAG ISO 100	n/a
X3 (E83) 2.0 d (N47)	2007–10	R134a	690–710	PAG		PAO 68 or PAG ISO 100	n/a
X3 (F25)	09/2010–	R134a	480	PAG		PAO 68 or PAG ISO 46	n/a
X5 (E53)	2000–07	R134a	430–450	PAG		PAO 68 or PAG ISO 100	n/a
X5 (E70) 3.5 d/4.4 i/3.0 d/3.0 Sd/3.0 Si/4.8 i/M	2007–	R134a	690–710	PAG		PAO 68 or PAG ISO 100	150
X5 (F15)	07/2013–	R134a	675	PAG		PAO 68 or PAG ISO 46	n/a
X6 (E71/E72) 3.0 dx/3.5 dx/3.5 ix/5.0 ix/4.0 d (M57T2/N54/N63/N57)	2008–	R134a	690–710	PAG		PAO 68 or PAG ISO 100	150



<b>BMW</b>						
X6 (E71/E72) Active Hybrid engine: N63	2009–	R134a	925	n/a	n/a	n/a
X6 (F06) Gran Coupe	06/2012–	R134a	850	PAG	PAO 68 or PAG ISO 46	n/a
Z3 – Denso compressor (1*)	1997–03	R134a	975–1025	81 229 407 724	PAO 68 or PAG ISO 46	100–140
Denso compressor (2*)	1997–03	R134a	800–850	81 229 407 724	PAO 68 or PAG ISO 46	100–140
Seiko compressor (1*)	1997–03	R134a	975–1025	PAG	PAO 68 or PAG ISO 100	140–160
Seiko compressor (2*)	1997–03	R134a	800–850	PAG	PAO 68 or PAG ISO 100	140–160
Z4 (E85)	2003–05	R134a	730–750	PAG	PAO 68	n/a
Z4 (E89) sDrive 23 i/30 i/35 i/35 is	2009–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
Z8 (E52)	2000–03	R134a	710	PAG	PAO 68	n/a
Mini One/Cooper/Cooper S (R50/53)	2001–09	R134a	405–425	PAG	PAO 68	n/a
Mini/Mini Clubman/Mini Countryman (R56/57, R55, R60, R61)	2007–	R134a	490	81 229 407 724	PAO 68 or PAG ISO 46	n/a
<b>Cadillac</b>						
BLS 2.0 T/2.0 T flex power/2.8 i V6/1.9 D	2005–10	R134a	670	164759106	PAO 68 or PAG ISO 46	130
CTS 2.8 i V6/3.6 i V6 (LY7)	2005–08	R134a	590	PAG	PAO 68 or PAG ISO 46	140
CTS 2.8 i V6/3.6 i V6 (LLT)	2008–	R134a	550	PAG	PAO 68 or PAG ISO 46	110



<b>Cadillac</b>						
Escalade	2006–12/2014	R134a	740	PAG	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	2006–12/2014	R134a	1150	PAG	PAO 68 or PAG ISO 46	280
SRX 3.6 i V6/4.6 i V8	2004–10	R134a	570	PAG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	2004–10	R134a	800	PAG	PAO 68 or PAG ISO 46	200
STS	2004–12/2007	R134a	650	PAG	PAO 68 or PAG ISO 46	140
XLR	2003–09/2009	R134a	620	PAG	PAO 68 or PAG ISO 46	140
<b>Chevrolet</b>						
Aveo/Kalos (left-hand drive) GM/Delphi/Harrison V5	05/2005–11	R134a	520	UCON RL 488	PAO 68 or PAG ISO 150	200
Aveo/Kalos (right-hand drive) GM/Delphi/Harrison V5	05/2005–11	R134a	570	UCON RL 488	PAO 68 or PAG ISO 150	200
Aveo/Kalos (left-hand drive) Delphi SP 10 compressor	05/2005–11	R134a	520	PAG	PAO 68 or PAG ISO 100	150
Aveo/Kalos (right-hand drive) Delphi SP 10 compressor	05/2005–11	R134a	570	PAG	PAO 68 or PAG ISO 100	150
Aveo with gasoline engine	2011–	R134a	500	PAG	PAO 68	110
Aveo with diesel engine	2011–	R134a	580	PAG	PAO 68	125
Captiva (left-hand drive) 2.4 i/3.2 i V6/3.0 i	2007–	R134a	660	RL 897/EOIV	PAO 68 or PAG ISO 61	150



## Chevrolet

Captiva (left-hand drive) 2.0 D/2.2 D	2007–	R134a	520	RL 897/EOIV	PAO 68 or PAG ISO 61	150
Cruze	2009–	R134a	650	PAG	PAO 68 or PAG ISO 46	130
Epica (left-hand drive)	2008–	R134a	820	PAG	PAO 68 or PAG ISO 150	220
Epica (right-hand drive)	2008–	R134a	880	PAG	PAO 68 or PAG ISO 150	220
HHR	2008–	R134a	410	PAG	PAO 68 or PAG ISO 46	125
Lacetti/Nubira (left-hand drive)	2005–	R134a	640	PAG	PAO 68 or PAG ISO 150	200
Lacetti/Nubira (right-hand drive)	2005–	R134a	670	PAG	PAO 68 or PAG ISO 150	200
Malibu 2.4 i/2.0 D VCDi	2012–	R134a	680	PAG	PAO 68	150
Malibu 2.4 i/2.0 D VCDi	2012–	R1234yf	600	PAG yf	PAO 68 or PAG ISO 100 yf	150
Matiz (left-hand drive)	2005–10	R134a	330	PAG	PAO	110
Matiz (right-hand drive)	2005–10	R134a	380	PAG	PAO	110
Orlando 1.8 i/2.0 D	2011–	R134a	650	PAG	PAO 68 or PAG ISO 46	130
Spark (left-hand drive)	2005–10	R134a	330	PAG	PAO 68 or PAG ISO 46	110
Spark (right-hand drive)	2005–10	R134a	380	PAG	PAO 68 or PAG ISO 46	110
Spark (M 300)	03/2010–	R134a	450	PAG	PAO 68 or PAG ISO 46	110

**Chevrolet**

Trax	2012–	R1234yf	950	ND11	POE	180
Volt	2011–	R134a	950	ND11	POE	180
<b>Chrysler (Jeep)</b>						
300 C	2004–06	R134a	740	ND8	PAO 68 or PAG ISO 46	180
300 M 2.7 i/3.5 i	1998–04	R134a	710	PAG	PAO 68 or PAG ISO 46	150
Cherokee	1994–96	R134a	900	SP 20	PAO 68 or PAG ISO 100	240
Cherokee	1997–00	R134a	567	SP 20	PAO 68 or PAG ISO 100	240
Cherokee 2.8 CRD	2008–	R134a	510	PAG	PAO 68 or PAG ISO 46	150
Grand Cherokee	1993–96	R134a	795	ND8	PAO 68 or PAG ISO 46	230
Grand Cherokee	1997–06/99	R134a	680	ND8	PAO 68 or PAG ISO 46	170
Grand Cherokee (WJ/WG)	06/1999–05	R134a	680	ND8	PAO 68 or PAG ISO 46	170
Grand Cherokee (WH)	2005–	R134a	680	ND8	PAO 68 or PAG ISO 46	130
Commander 3.0 D CRD	2006–	R134a	680	ND8	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2006–	R134a	960	ND8	PAO 68 or PAG ISO 46	220



<b>Chrysler (Jeep)</b>						
Compass 2.0 CRD/2.4 i	2006–	R134a	510	ND8	PAO 68 or PAG ISO 46	110
Crossfire/Crossfire Roadster	2003–09	R134a	850	ND8	PAO 68 or PAG ISO 46	130
Neon	1995–99	R134a	821	ND8	PAO 68 or PAG ISO 46	140
Neon II	08/1999–06	R134a	850	ND8	PAO 68 or PAG ISO 46	200
Patriot 2.0 CRD/2.4 i	2007–	R134a	510	ND8	PAO 68 or PAG ISO 46	110
PT Cruiser gasoline	2000–02	R134a	710	ND8	PAO 68 or PAG ISO 46	160
PT Cruiser gasoline	2002–03	R134a	850	ND8	PAO 68 or PAG ISO 46	180
PT Cruiser diesel	2002	R134a	595	ND8	PAO 68 or PAG ISO 46	180
PT Cruiser diesel	2004–09	R134a	510	ND8	PAO 68 or PAG ISO 46	180
Sebring	2001–04	R134a	640	PAG	PAO 68	n/a
Sebring 2.4 Turbo	2001–04	R134a	500	PAG	PAO 68	n/a
Stratus 2.0 i/2.5 i	1994–01	R134a	800	SP 10	PAO 68 or PAG ISO 46	210
Voyager	1994–00	R134a	960	ND8	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	1994–00	R134a	1360	ND8	PAO 68 or PAG ISO 46	220
Voyager (RG) gasoline	2001–03	R134a	960	PAG	PAO 68	n/a





<b>Chrysler (Jeep)</b>						
Voyager (RG) gasoline with air conditioning system at rear	2001–03	R134a	1310	PAG	PAO 68	n/a
Voyager (RG) diesel	2001–03	R134a	910	PAG	PAO 68	n/a
Voyager (RG) gasoline	2003–06	R134a	880	PAG	PAO 68	n/a
Voyager (RG) gasoline with air conditioning system at rear	2003–06	R134a	1220	PAG	PAO 68	n/a
Voyager (RG) diesel	2003–06	R134a	790	PAG	PAO 68	n/a
Grand Voyager 2.8 CRD/3.8 i	2008–14	R134a	820	ND8	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	2008–14	R134a	1150	ND8	PAO 68 or PAG ISO 46	150
Wrangler	1994–96	R134a	900	SP 20	PAO 68 or PAG ISO 100	240
Wrangler (TJ)	1996–06	R134a	565	ND8	PAO 68 or PAG ISO 46	240
Wrangler (JK) 2.8 CRD/3.8 i	2007–	R134a	510	PAG	PAO 68 or PAG ISO 46	150
<b>Citroën</b>						
AX	1994–97	R134a	600–650	SP 20	PAO 68 or PAG ISO 100	135
Berlingo	1996–02	R134a	850–900	SP 10	PAO 68 or PAG ISO 46	135
Berlingo	2003–08	R134a	575	SP 10	PAO 68 or PAG ISO 46	135



## Citroën

Berlingo (B9)	2008–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
Berlingo IV 1.5 HDi Jianshe compressor	2018–	R1234yf	450	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	135
Berlingo IV 1.5 HDi Sanden compressor	2018	R1234yf	450	SPA2	PAO 68 AA1 or PAG ISO 46 YF	60
C1 1.0 i	2005–14	R134a	420–480	ZXL200PG	PAO 68 or PAG ISO 100	80
C1 1.4 HDi	2005–10	R134a	470–530	ZXL200PG	PAO 68 or PAG ISO 100	80
C1 II	04/2014–	R134a	400	PAG	PAO 68 or PAG ISO 46	80
C1 II	04/2014–	R1234yf	400	ND12	PAO 68 or PAG ISO 46 YF	80
C2 up to ORGA no. 10041	2003–	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C2 from ORGA no. 10042 (Europe)	2003–	R134a	500	SP 10	PAO 68 or PAG ISO 46	135
C3 up to ORGA no. 10041	2002–10	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C3 from ORGA no. 10042 (Europe)	2002–10	R134a	500	SP 10	PAO 68 or PAG ISO 46	135
C3 III	11/2009–	R134a	500	SP 10	PAO 68 or PAG ISO 46	135
C3 (IV)	2016–	R134a	425	PAG	PAO 68 AA1 or PAG ISO 100	135
C3 (IV)	2016–	R1234yf	425	PAG YF	PAO 68 AA1 or PAG ISO 100 YF	135
C3 Aircross	2017–	R134a	425	PAG	PAO 68 AA1 or PAG ISO 46	110



## Citroën

C3 Aircross	2017–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	110
C4 1.4 i/1.6 i/2.0 i/1.6 HDi/2.0 HDi	2004–11	R134a	425–475	SP 10	PAO 68 or PAG ISO 46	135
C4 II 1.6 HDi/2.0 HDi/1.6 THP/1.6 VTi	2011–	R134a	440	SP 10	PAO 68 or PAG ISO 46	135
C4 Aircross	2012–	R134a	500	PAG 46	PAO 68 or PAG ISO 46	75
C4 Cactus 1.2 i	2014–	R1234yf	420	SPA2	PAO 68 AA1 or PAG ISO 46 YF	85
C4 Cactus 1.6 HDi	2014–	R1234yf	420	SPA2	PAO 68 AA1 or PAG ISO 46 YF	85
C4 Picasso II/Grand Picasso II	02/2013–	R1234yf	450	SPA2	PAO 68 or PAG ISO 46 YF	85
with air conditioning system at rear	02/2013–	R1234yf	625	SPA2	PAO 68 or PAG ISO 46 YF	135
C5 1.8 i/2.0 i/3.0 i	2001–04	R134a	650–700	SP 10	PAO 68 or PAG ISO 46	135
C5 2.0 D HDi	2001–04	R134a	650–700	Planetelf PAG 488	PAO 68 or PAG ISO 150	265
C5 II	2004–10	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C5 II 2.2 HDi (DW12B)/2.7 HDi	2006–08	R134a	525	SP 10	PAO 68 or PAG ISO 46	135
C5 III 1.6 i/1.8 i/2.0 i/1.6 HDi/3.0 HDi	2008–	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C5 III 2.0 HDi (RHF)	2008–	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C5 III 2.0 HDi (RHE/RHH)	2010–	R134a	525	SP 10	PAO 68 or PAG ISO 46	135



## Citroën

C5 (III)	2017–	R1234yf	470	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	135
C6 2.7 HDi/2.2 HDi/3.0 HDi	2005–12	R134a	525	SP 10	PAO 68 or PAG ISO 46	135
C6 3.0 i V6	2005–09	R134a	625	SP 10	PAO 68 or PAG ISO 46	135
C8 2.0 HDi/2.2 HDi	2002–14	R134a	540	SP 10	PAO 68 or PAG ISO 46	135
C8 2.0 i/3.0 i/2.2 i	2002–	R134a	675	SP 10	PAO 68 or PAG ISO 46	135
C15 1.4 i	2002–	R134a	675	PAG	PAO 68	135
C-Crosser	2007–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
C-Elysée	11/2012–	R134a	430	PAG Zerol HD100	PAO 68 or PAG ISO 100	135
C-Elysée	11/2012–	R1234yf	430	PAG Zerol HD100	PAO 68 or PAG ISO 100 YF	135
C-Zero	2010–	R134a	325	ND11	POE	150
Dispatch/Jumpy	1995–05	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
DS3	2009–	R134a	500	SP 10	PAO 68 or PAG ISO 100	135
DS4 1.6 D HDi/1.6 D e-HDi	2011–	R134a	425	SP 10	PAO 68 or PAG ISO 46	90
type: warm climate zones		R134a	425	SP 10	PAO 68 or PAG ISO 46	115
DS4 2.0 D HDi	2011–	R134a	425	SP 10	PAO 68 or PAG ISO 46	110



## Citroën

type: warm climate zones		R134a	425	SP 10	PAO 68 or PAG ISO 46	135
DS4 1.6 THP/1.6 VTi Denso compressor 5SEL12	2011–	R134a	425	SP 10	PAO 68 or PAG ISO 46	90
Denso compressor 6SEL16	2011–	R134a	425	SP 10	PAO 68 or PAG ISO 46	120
DS5 1.6 D e-HDi	2012–	R134a	450	SP 10	PAO 68 or PAG ISO 46	90
DS5 2.0 D HDi	2012–	R134a	450	SP 10	PAO 68 or PAG ISO 46	110
DS5 1.6 THP Denso compressor 5SEL12	2012–	R134a	450	SP 10	PAO 68 or PAG ISO 46	90
DS5 1.6 THP Denso compressor 6SEL16	2012–	R134a	450	SP 10	PAO 68 or PAG ISO 46	120
e-Méhari	2016–	R1234yf	350	n/a	PAO 68 AA1	
Jumpy 1.6 D HDi/2.0 D HDi	01/2007–	R134a	540	SP 10	PAO 68 or PAG ISO 46	135
with air conditioning system at rear, short wheelbase	01/2007–	R134a	850	SP 10	PAO 68 or PAG ISO 46	180
with air conditioning system at rear, long wheelbase	01/2007–	R134a	950	SP 10	PAO 68 or PAG ISO 46	200
Jumpy 2.0 i	01/2007–	R134a	675	SP 10	PAO 68 or PAG ISO 46	135
with air conditioning system at rear, short wheelbase	01/2007–	R134a	950	SP 10	PAO 68 or PAG ISO 46	180
with air conditioning system at rear, long wheelbase	01/2007–	R134a	1075	SP 10	PAO 68 or PAG ISO 46	200
Nemo	2008–	R134a	500	SP 10	PAO 68 or PAG ISO 46	135



## Citroën

Relay/Jumper	1994–09/96	R134a	950–1050	SP 20	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	1994–09/96	R134a	1150–1250	SP 20	PAO 68 or PAG ISO 100	135
Relay/Jumper	10/1996–02	R134a	750–850	SP 20	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	10/1996–02	R134a	950–1050	SP 20	PAO 68 or PAG ISO 100	135
Relay/Jumper II 2.0 i/2.0 D/2.2 D/2.8 D HDi	2002–06	R134a	500	SP 20	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	2002–06	R134a	700	SP 20	PAO 68 or PAG ISO 100	180
Relay/Jumper III 2.2 D HDi/3.0 D HDi	2006–	R134a	550	SP 10	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	2006–	R134a	950	SP 10	PAO 68 or PAG ISO 46	n/a
Saxo	1996–03/96	R134a	575–625	SP 10	PAO 68 or PAG ISO 46	135
Saxo	04/1996–00	R134a	750–800	SP 10	PAO 68 or PAG ISO 46	135
Synergie/Evasion	1994–00	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
Xantia – Sanden compressor SD7H15	1993–00	R134a	750–800	SP 20	PAO 68 or PAG ISO 100	135
Sanden compressor SD7V16 (3*)	1993–00	R134a	850–900	SP 10	PAO 68 or PAG ISO 46	135
Sanden compressor SD7V16 (4*)	1993–00	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
Xantia 3.0	1997–00	R134a	725	SP 10	PAO 68 or PAG ISO 46	135



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Xantia 1.9 D/1.9 D Turbo	02/1996–00	R134a	800–850	UCON RL 488	PAO 68 or PAG ISO 150	250–280
XM 2.0	10/1993–96	R134a	700–750	SP 20	PAO 68 or PAG ISO 100	135
XM 2.0	1996–00	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	135
XM V6	10/1993–00	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	135
XM 2.1/2.2 diesel	10/1993–96	R134a	700–750	SP 20	PAO 68 or PAG ISO 100	135
XM 2.1/2.2 diesel	1996–00	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	135
XM 2.5 diesel	1994–96	R134a	800–850	SP 20	PAO 68 or PAG ISO 100	135
XM 2.5 diesel	1996–00	R134a	800–850	SP 10	PAO 68 or PAG ISO 46	135
Xsara gasoline	1997–00	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
Xsara diesel	1997–00	R134a	850–900	SP 10	PAO 68 or PAG ISO 46	120–150
Xsara 1.6 i/2.0 i/2.0 HDi (RHY)	2000–06	R134a	540–590	SP 10	PAO 68 or PAG ISO 46	135
Xsara 2.0 HDi (RHZ)	2000–06	R134a	540–590	SP 10	PAO 68 or PAG ISO 46	250–280
Xsara Picasso	1999–00	R134a	625–725	SP 10	PAO 68 or PAG ISO 46	135
ZX	1993–98	R134a	900–950	SP 20	PAO 68 or PAG ISO 100	135



<b>Dacia</b>						
Duster Valeo compressor	2010–	R134a	475	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	110
Duster Sanden compressor	2010–	R134a	475	SP 10	PAO 68 AA1 or PAG ISO 46	135
Duster Valeo compressor	2016–	R1234yf	450	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	110
Duster Sanden compressor	2016–	R1234yf	450	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	135
Dokker Valeo compressor	2012–	R134a	475	ZXL200PG	PAO 68 AA1 or PAG ISO 100	80
Dokker Valeo compressor	2012–	R134a	475	DH-PR	PAO 68 AA1 or PAG ISO 100	150
Dokker Valeo compressor	2016–	R1234yf	440	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	80
Dokker Calsonic compressor	2016–	R1234yf	440	YR20	PAO 68 AA1	150
Lodgy engine: K7M/K9K/H5F Valeo compressor	2012–	R134a	475	ZXL200PG/PAG 488	PAO 68 or PAG ISO 100	80
Lodgy engine: K7M/K9K/H5F Calsonic compressor	2012–	R134a	475	DH-PR/PAG 488	PAO 68 or PAG ISO 100	150
Logan/Logan MCV/Logan van/Logan pick-up	2005–	R134a	780	PAG SP 10	PAO 68 or PAG ISO 46	135
Logan II Valeo compressor	2012–	R134a	480	PAG 488	PAO 68 or PAG ISO 150	95
Logan II Calsonic compressor	2012–	R134a	480	PAG 488	PAO 68 or PAG ISO 150	150
Logan II Valeo compressor	2016–	R1234yf	430	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	110
Sandero	2008–	R134a	475	SP 10	PAO 68 or PAG ISO 46	135





<b>Dacia</b>						
Sandero II engine: D7F/D4F/K4M/K9K	2012–	R134a	660	SP 10	PAO 68 or PAG ISO 46	135
Sandero II Valeo compressor	2016–	R1234yf	430	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	110
<b>Daewoo</b>						
Espero	1995–97	R134a	710–750	PAG	PAO 68 or PAG ISO 150	240
Evanda	2002–07	R134a	710–750	PAG	PAO 68 or PAG ISO 150	265
Kalos (left-hand drive) Delphi/Harrison V5	2002–07	R134a	580–620	PAG	PAO 68 or PAG ISO 150	220
Kalos (right-hand drive) Delphi/Harrison V5	2002–07	R134a	630–670	PAG	PAO 68 or PAG ISO 150	220
Korando	1999–03	R134a	650–750	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Lanos	1997–09/98	R134a	700–740	PAG	PAO 68 or PAG ISO 150	265
Lanos	10/1998–01	R134a	700–740	PAG	PAO 68 or PAG ISO 150	265
Lanos	2001–03	R134a	700–740	PAG	PAO 68	220
Leganza	1997–03	R134a	810–850	PAG	PAO 68 or PAG ISO 150	265
Matiz	1998–05	R134a	500–550	PAG RL 244	PAO 68 or PAG ISO 46	150
Matiz (left-hand drive)	2005–08	R134a	330	PAG	PAO 68	110

**Daewoo**

Matiz (right-hand drive)	2005–08	R134a	380	PAG	PAO 68	110
Musso	1999–03	R134a	650–750	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Nexia	1995–97	R134a	710–750	PAG	PAO 68 or PAG ISO 150	240
Nubira	1997–10/98	R134a	730–770	PAG	PAO 68 or PAG ISO 150	265
Nubira	11/1998–03	R134a	730–770	PAG	PAO 68 or PAG ISO 150	265
Nubira (J200, J150, J190)	2003–05	R134a	660–700	PAG RL 488	PAO 68 or PAG ISO 150	220
Nubira (left-hand drive)	2005–07	R134a	620–660	UCON RL 488	PAO 68 or PAG ISO 150	180
Nubira (right-hand drive)	2005–07	R134a	670–710	UCON RL 488	PAO 68 or PAG ISO 150	180
Rezzo (left-hand drive)	2000–04	R134a	730–770	PAG	PAO 68	220
Rezzo (right-hand drive)	2000–04	R134a	800–840	PAG	PAO 68	220
<b>Daihatsu</b>						
Applause (A101)	1993–07/97	R134a	500–600	PAG	PAO 68	n/a
Applause (A101)	08/1997–03	R134a	420–480	PAG	PAO 68	n/a
Charade (G200)	1993–03	R134a	600–700	PAG	PAO 68	n/a



Daihatsu						
Copen	09/2003–	R134a	320–380	PAG	PAO 68	n/a
Cuore (L701)	10/1998–03	R134a	350–410	PAG	PAO 68	n/a
Cuore VII (L251)	2003–07	R134a	350–410	PAG	PAO 68 or PAG ISO 46	80
Cuore VIII	04/2007–	R134a	300	ND8	PAO 68 or PAG ISO 46	60
Feroza (F300)	1993–03	R134a	500–600	PAG	PAO 68	n/a
Grand Move (G303)	1996–98	R134a	500–600	PAG	PAO 68	n/a
Grand Move (G301)	05/1998–03	R134a	370–430	PAG	PAO 68	n/a
Materia (M4) 1.3 i	10/2006–	R134a	350	PAG	PAO 68 or PAG ISO 46	70
Move (L901)	10/1996–03	R134a	350–410	PAG	PAO 68	n/a
Rocky (F73/78)	1993–03	R134a	500–600	PAG	PAO 68	n/a
Sirion (M100)	1998–08/00	R134a	380–420	PAG	PAO 68	n/a
Sirion (M110, M111) EJ engine	09/2000–05	R134a	350–410	PAG	PAO 68	n/a
Sirion (M101, M111) K3 engine	09/2000–05	R134a	310–370	PAG	PAO 68	n/a
Sirion (M3)	01/2005–	R134a	270–330	PAG	PAO 68	n/a
Terios (J100)	10/1997–08/98	R134a	550–650	PAG	PAO 68	n/a



<b>Daihatsu</b>						
Terios (J100, J102)	09/1998–05	R134a	370–430	PAG	PAO 68 or PAG ISO 46	80
Terios (J2) (left-hand drive) 1.3 i/1.5 i	11/2005–	R134a	350	ND8	PAO 68 or PAG ISO 46	80
Terios (J2) (right-hand drive) 1.3 i/1.5 i	11/2005–	R134a	300	ND8	PAO 68 or PAG ISO 46	80
Trevis	06/2006–	R134a	300	PAG	PAO 68 or PAG ISO 46	60
YRV (M201, M211)	2001–07	R134a	350–410	PAG	PAO 68 or PAG ISO 46	80
<b>Datsun</b>						
mi-DO	2014–	R134a	500	ND8	PAO 68 AA1 or PAG ISO 46	n/a
on-DO	2014–	R134a	500	ND8	PAO 68 AA1 or PAG ISO 46	n/a
<b>DFSK</b>						
Glory 580	2018–	R1234yf	550	RG20	PAO 68 AA1 or PAG ISO 46 YF	n/a
Glory Fengon	2019–	R1234yf	450	RG20	PAO 68 AA1 or PAG ISO 46 YF	n/a
<b>Dodge</b>						
Avenger 2.0 i/2.4 i	2007–11	R134a	450	ND8	PAO 68 or PAG ISO 46	180



<b>Dodge</b>						
Caliber	2006–	R134a	510	ND8	PAO 68 or PAG ISO 46	120
Journey 2.4 I/2.0 CRD	2008–	R134a	625	ND8	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	2008–	R134a	910	ND8	PAO 68 or PAG ISO 46	170
Nitro	2007–	R134a	510	ND8	PAO 68 or PAG ISO 46	140
<b>Fiat</b>						
500	10/2007–	R134a	500	ND8	PAO 68 or PAG ISO 46	80
500L	2012–	R134a	450	PAG	PAO 68 or PAG ISO 46	130
500X 1.3 D/1.6 D/2.0 D	2015–	R1234yf	450	ND12	PAO 68 or PAG ISO 100 YF	90
500X 1.4 Turbo/1.6 E.TorQ/2.4 i	2015–	R1234yf	450	ND12	PAO 68 or PAG ISO 100 YF	130
Barchetta	1996–06	R134a	600	ND9	PAO 68 or PAG ISO 100	140–180
Bravo/Brava – Denso compressor	1995–00	R134a	600–650	ND9	PAO 68 or PAG ISO 100	140–180
Harrison compressor V5	1995–00	R134a	600–650	UCON RL 488	PAO 68 or PAG ISO 150	236
Bravo/Brava 1.9 JTD	1998–00	R134a	625–675	ND8	PAO 68 or PAG ISO 46	60–100
Bravo	04/2007–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Cinquecento	1991–97	R134a	700	PAG	PAO 68 or PAG ISO 46	100



<b>Fiat</b>						
Cinquecento Sporting	1994–98	R134a	550	PAG	PAO 68 or PAG ISO 46	100
Coupe 1.8	1996–00	R134a	740	ND9	PAO 68 or PAG ISO 100	140–180
Coupe 16 V	1994–97	R134a	720–745	SP 20	PAO 68 or PAG ISO 100	135
Coupe 20 V/20 V Turbo	1996–01	R134a	500	ND9	PAO 68 or PAG ISO 100	130–170
Croma	1994–97	R134a	1100	E13 M6	PAO 68 or PAG ISO 100	135
Croma 2.2 i	2005–	R134a	700–760	SP 10	PAO 68 or PAG ISO 46	105–135
Croma 1.9 JTD/1.9 JTD 16 V	2005–	R134a	700–760	SP 10	PAO 68 or PAG ISO 46	120–150
Doblo 1.2 i/1.6 i/1.4 i	2001–10	R134a	600	PAG	PAO 68 or PAG ISO 46	130
Doblo 1.9 JTD/1.3 JTD	2002–10	R134a	600	ND8	PAO 68 or PAG ISO 46	130
Doblo/Doblo Cargo (152/223/263) 1.3 D	2010–	R134a	450	PAG 46	PAO 68 or PAG ISO 46	120
Doblo/Doblo Cargo (152/223/263) 1.4 i/1.6 D/2.0 D	2010–	R134a	450	PAG 46	PAO 68 or PAG ISO 46	85
Doblo Work Up 1.3 D/1.6 D/2.0 D	2011–	R134a	450	SP 10	PAO 68 AA1 or PAG ISO 46	n/a
Doblo Work Up 1.3 D/1.6 D/2.0 D	2015–	R1234yf	430	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	n/a
Ducato/Talento	1994–02	R134a	800–900	PAG	PAO 68 or PAG ISO 100	120–150
with air conditioning system at rear	1994–02	R134a	950–1050	PAG	PAO 68 or PAG ISO 100	120–150



<b>Fiat</b>						
Ducato (244)	2002–06	R134a	875–925	SP 20	PAO 68 or PAG ISO 100	n/a
with air conditioning system at rear	2002–06	R134a	975–1025	SP 20	PAO 68 or PAG ISO 100	n/a
Ducato (244) Panorama	2002–06	R134a	775–825	SP 20	PAO 68 or PAG ISO 100	n/a
Ducato (250) 2.2 D/2.3 D/3.0 D	07/2006–	R134a	550	SP 10	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	07/2006–	R134a	950	SP 10	PAO 68 or PAG ISO 46	220
Ducato 2.0 D/2.3 D/3.0 D/3.0 CNG	2014–2019	R134a	550	PAG	PAO 68 AA1	n/a
Ducato 2.0 D/2.3 D/3.0 D/3.0 CNG	2014–2019	R1234yf	550	PAG YF	PAO 68 AA1	n/a
Fiorino	1997–00	R134a	n/a	UCON RL 244	PAO 68	140–160
Fiorino	2008–	R134a	500	PAG	PAO 68 or PAG ISO 46	130
Freemont	08/2011–	R134a	625	ND8	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	08/2011–	R134a	910	ND8	PAO 68 or PAG ISO 46	170
Fullback 2.4 D	2016–	R134a	520	PAG 100	PAO 68 AA1 or PAG ISO 100	150
Grande Punto (199) 1.2 i/1.4 i/1.3 D/1.9 D	10/2005–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Grande Punto (199)	2006–	R134a	480	PAG	PAO 68 or PAG ISO 46	130
Idea 1.3 JTD/1.4 i/1.9 JTD/1.2 i/1.6 D	2004–11	R134a	470–530	PAG	PAO 68 or PAG ISO 46	130



Fiat						
Linea 1.4 i/1.4 i 16 V/1.3 D Multijet	2007–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Linea 1.6 D Multijet	2007–	R134a	460	ND8	PAO 68 or PAG ISO 46	130
Marea/Marengo	1996–00	R134a	600	ND9	PAO 68 or PAG ISO 100	130–170
Multipla 1.6	1999–05	R134a	650	UCON RL 488	PAO 68 or PAG ISO 150	265
Multipla 1.6 i	2005–11	R134a	650	UCON RL 488	PAO 68 or PAG ISO 150	265
Multipla 1.9 JTD	1999–05	R134a	650	SP 20	PAO 68 or PAG ISO 100	130
Palio/Palio Weekend 1.2 i/1.9 D	1997–02	R134a	750	ND8	PAO 68 or PAG ISO 46	60–100
Palio/Palio Weekend 1.2 i	2002–06	R134a	600–650	ND8	PAO 68 or PAG ISO 46	60–100
Palio/Palio Weekend 1.6 i 16 V	1997–02	R134a	750	ND9	PAO 68 or PAG ISO 100	100–115
Palio/Palio Weekend 1.6 i 16 V	2002–06	R134a	600–650	ND9	PAO 68 or PAG ISO 100	100–115
Palio/Palio Weekend 1.2 i 16 V/1.9 JTD/1.9 D	2001–06	R134a	600–650	ND8	PAO 68 or PAG ISO 46	60–100
Palio/Palio Weekend 1.7 TD	1998–00	R134a	750	ND9	PAO 68 or PAG ISO 100	150
Panda (169) 1.1 i/1.2 i	2003–11	R134a	470–530	PAG	PAO 68 or PAG ISO 46	80
Panda (169) 1.3 JTD	2003–11	R134a	470–530	SP 10	PAO 68 or PAG ISO 46	130
Panda (169) 1.4 i	2006–	R134a	500	ND8	PAO 68 or PAG ISO 46	110





<b>Fiat</b>						
Panda (312/319) 0.9 i/1.2 i/1.3 D	02/2012–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Punto	1993–99	R134a	650–700	ND9	PAO 68 or PAG ISO 100	130–170
Punto (188) 1.2 i/1.2 i 16 V/1.9 D	09/1999–06/03	R134a	525–575	ND8	PAO 68 or PAG ISO 46	60–100
Punto (188) 1.9 D JTD	09/1999–06/03	R134a	525–575	ND8	PAO 68 or PAG ISO 46	60–100
Punto (188) 1.8 i	09/1999–06/03	R134a	525–575	ND9	PAO 68 or PAG ISO 100	60–100
Punto (188) 1.2 i/1.2 i 16 V/1.9 D	06/2003–	R134a	525–575	ND8	PAO 68 or PAG ISO 46	130
Punto 1.3 JTD	06/2003–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Punto Evo	2009–03/12	R134a	480	ND8	PAO 68 or PAG ISO 46	130
Punto (199)	03/2012–	R134a	440	ND8	PAO 68 or PAG ISO 46	130
Qubo	2008–	R134a	500	PAG	PAO 68 or PAG ISO 46	130
Scudo	1996–07	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
Scudo 1.6 D/2.0 D	2007–	R134a	540	SP 10	PAO 68 or PAG ISO 46	135
with air conditioning system at rear, short wheelbase	2007–	R134a	850	SP 10	PAO 68 or PAG ISO 46	160
with air conditioning system at rear, long wheelbase	2007–	R134a	950	SP 10	PAO 68 or PAG ISO 46	160
Sedici 1.6 i	06/2006–	R134a	430	PAG	PAO 68 or PAG ISO 46	50



<b>Fiat</b>						
Sedici 1.9 D	2006–	R134a	430	SP 10	PAO 68 or PAG ISO 46	80
Seicento	1997–09	R134a	475–525	SP 10	PAO 68 or PAG ISO 46	100
Spider 124 (348)	2016–	R1234yf	360	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
Stilo (192) 1.2 i/1.4 i	2001–08	R134a	475–525	PAG	PAO 68 or PAG ISO 46	80
Stilo 1.8 i	2001–08	R134a	475–525	SP 10	PAO 68 or PAG ISO 46	135
Stilo 1.6 i/1.9 JTD	2001–08	R134a	475–525	ND8	PAO 68 or PAG ISO 46	80
Strada pickup 1.3 D	2006–	R134a	625	ND8	PAO 68 or PAG ISO 46	n/a
Talento 1.6 D	2016–	R1234yf	560	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	120
with air conditioning system at rear	2016–	R1234yf	850	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	220
Tempra – Sanden compressor	1994–97	R134a	730	SP 10	PAO 68 or PAG ISO 46	240
Harrison compressor V5	1994–97	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	263
Tipo – Sanden compressor	1994–95	R134a	730	SP 10	PAO 68 or PAG ISO 46	240
Harrison compressor V5	1994–95	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	263
Tipo	2015–	R134a	450	PAG	PAO 68 AA1 or PAG ISO 46	n/a
Tipo	2016–	R1234yf	420	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	n/a



<b>Fiat</b>						
Ulysse	1994-02	R134a	950-1000	SP 10	PAO 68 or PAG ISO 46	135
Ulysse (179AX)	2002-	R134a	575-625	SP 10	PAO 68 or PAG ISO 46	135
<b>Ford</b>						
B-MAX 1.0 EcoBoost/1.6 TDCi	2012-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
B-MAX 1.5 TDCi	2012-	R134a	550	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
B-MAX 1.4 i/1.6 Ti	2012-	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
C-MAX condenser tube 1.2 mm (f)	2007-	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
C-MAX condenser tube 3 mm (f)	2007-	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
C-MAX II/Grand C-MAX 1.6 TDCi	12/2010-	R134a	460	PAG	PAO 68 or PAG ISO 46	110
C-MAX II/Grand C-MAX 1.6 SCTi/2.0 TDCi/1.6 Ti-VCT	12/2010-	R134a	530	PAG	PAO 68 or PAG ISO 46	150
Cougar	1998-03	R134a	725-755	YN-12 B	PAO 68 or PAG ISO 46	200
EcoSport	2013-	R134a	625	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Edge	2016-	R1234yf	570	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	150
Escort	1994-00	R134a	725-755	WSH-M1C231-B	PAO 68 or PAG ISO 46	160

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Explorer (U2) 4.0 i V6	03/1995–98	R134a	600	PAG	PAO 68	n/a
Explorer (U2) 4.0 i V6	1998–02	R134a	650	PAG	PAO 68 or PAG ISO 46	265
Fiesta	1994–96	R134a	725–755	WSH-M1C231-B	PAO 68 or PAG ISO 46	100
Fiesta	1995–99	R134a	730–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta	1999–02	R134a	725–755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) condenser tube 3 mm (f)	2002–08	R134a	635–665	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Fiesta (JH) condenser tube 1.2 mm (f)	2004–08	R134a	460–480	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) 1.6 D TDCi condenser tube 3 mm (f)	2004–08	R134a	510–530	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta (JH) 1.6 D TDCi condenser tube 1.2 mm (f)	2004–08	R134a	460–480	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fiesta VI 1.25 i/1.4 i/1.6 Ti	2008–13	R134a	390	WSH-M1C231-B	PAO 68 or PAG ISO 46	170
Fiesta VI 1.4 TDCi	2008–13	R134a	390	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Fiesta VI 1.6 TDCi	2008–13	R134a	475	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Fiesta VII 1.25 i/1.4 i/1.5 i/1.6 i Duratec with 12 mm condenser	2013–	R134a	390	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	170
Fiesta VII 1.25 i/1.4 i/1.5 i/1.6 i Duratec with 16 mm condenser	2013–	R134a	520	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	170
Fiesta VII 1.4 TDCi with 12 mm condenser	2013–	R134a	390	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120



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Fiesta VII 1.4 TDCi/1.5 TDCi with 16 mm condenser	2013–	R134a	520	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120
Fiesta VII 1.6 TDCi with 12 mm condenser	2013–	R134a	450	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120
Fiesta VII 1.6 TDCi with 16 mm condenser	2013–	R134a	570	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120
Fiesta VII 1.0 i Duratec/EcoBoost with 16 mm condenser	2013–	R134a	620	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120
Fiesta VII 1.6 i EcoBoost with 16 mm condenser	2013–	R134a	675	WSH-M1C231-B	PAO 68 AA1 or PAG ISO 46	120
Fiesta VIII 1.0 i EcoBoost with 6-gear automatic transmission (6F15)	2017–	R1234yf	650	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Fiesta VIII 1.0 i EcoBoost with 6-gear manual transmission (6MX65)	2017–	R1234yf	520	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Fiesta VIII 1.1 i Duratec	2017–	R1234yf	500	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Fiesta VIII 1.5 i EcoBoost	2017–	R1234yf	550	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Fiesta VIII 1.5 TDCi Duratorq	2017–	R1234yf	490	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Focus	1998–04	R134a	725–755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus II condenser tube 3 mm (f)	2004–11	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus II condenser tube 1.2 mm (f)	2004–11	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus III 1.6 Ti-VCT/1.6 SCTi/2.0 TDCi	2011–14	R134a	530	PAG	PAO 68 or PAG ISO 46	150
Focus III 1.6 TDCi	2011–14	R134a	460	PAG	PAO 68 or PAG ISO 46	110

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Focus IV 1.0 i EcoBoost/1.5 TDCi/1.6 TDCi	2014–	R134a	530	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
Focus IV 1.0 i EcoBoost/1.5 TDCi/1.6 TDCi	08/2016–	R1234yf	530	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	130
Focus IV 1.5 i EcoBoost/2.0 TDCi	2014–	R134a	625	WSH-M1C231-B	PAO 68 or PAG ISO 46	110
Focus IV 1.5 i EcoBoost/2.0 TDCi	08/2016–	R1234yf	625	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	110
Focus IV 1.6 TI-VCT/2.0 i + 2.3 i EcoBoost/2.0 GDi	2014–	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
Focus IV 1.6 TI-VCT/2.0 i + 2.3 i EcoBoost/2.0 GDi	08/2016–	R1234yf	600	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	150
Focus C-MAX condenser tube 3 mm (f)	2003–07	R134a	730–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Focus C-MAX condenser tube 1.2 mm (f)	2003–07	R134a	590–610	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Fusion (JU) condenser tube 3 mm (f)	2002–10	R134a	635–665	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Fusion (JU) condenser tube 1.2 mm (f)	2002–10	R134a	460–480	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
Galaxy 2.0/2.3	1995–00	R134a	950–1000	WSH-M1C231-B	PAO 68 or PAG ISO 46	205
with air conditioning system at rear	1995–00	R134a	1350–1400	WSH-M1C231-B	PAO 68 or PAG ISO 46	240
Galaxy 2.8/1.9 TDI	1995–00	R134a	950–1000	N052 154 VXOO	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	1995–00	R134a	1350–1400	N052 154 VXOO	PAO 68 or PAG ISO 46	240



<b>Ford</b>						
Galaxy Sanden compressor	06/2000–06	R134a	700–750	PAG	PAO 68 or PAG ISO 46	135
Sanden compressor with air conditioning system at rear	06/2000–06	R134a	1050–1100	PAG	PAO 68 or PAG ISO 46	240
Galaxy Visteon compressor	06/2000–06	R134a	700–750	PAG	PAO 68 or PAG ISO 46	200
Visteon compressor with air conditioning system at rear	06/2000–06	R134a	1050–1100	PAG	PAO 68 or PAG ISO 46	240
Galaxy	05/2006–	R134a	585–615	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	05/2006–	R134a	835–865	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Ka/StreetKa	1996–05	R134a	635–665	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ka (RB) 1.3 i	2005–09	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ka	2009–	R134a	500	ND8	PAO 68 or PAG ISO 46	95
Ka+ 1.2 i	2016–	R1234yf	590	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	120
Kuga	2008–	R134a	600	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Maverick	1993–98	R134a	740–760	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Maverick	2001–06	R134a	850	WSH-M1C231-B	PAO 68 or PAG ISO 46	265
Mondeo with condenser tube 3 mm (f) (g)	12/2001–07	R134a	800–840	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with condenser tube 1.2 mm (f) (g)	12/2001–07	R134a	685–715	WSH-M1C231-B	PAO 68 or PAG ISO 46	200



<b>Ford</b>						
Mondeo	03/2007–	R134a	520	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo I	1993–96	R134a	725–755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo II	1996–00	R134a	725–755	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo III	11/2000–12/01	R134a	800–840	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Mondeo V 1.0 i EcoBoost	2014–	R134a	530	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Mondeo V 1.5 i + 1.6 i + 2.0 i EcoBoost	2014–	R134a	570	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Mondeo V 2.5 Duratec	2014–	R134a	680	WSH-M1C231-B	PAO 68 or PAG ISO 46	145
Mondeo V	2016–	R1234yf	570	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	150
Mustang	2016–	R1234yf	600	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	100
Probe	1994–98	R134a	1000–1100	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Puma	1997–03	R134a	730–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Ranger	1999–03	R134a	550	PAG FD46XG	PAO 68 or PAG ISO 46	180
Ranger 2.5 TDCi/3.0 TDCi	2006–11/11	R134a	475	FD46XG	PAO 68 or PAG ISO 46	180
Ranger III	11/2011–	R134a	650	WSH-M1C231-B	PAO 68 or PAG ISO 46	150



**Ford**

S-MAX (WA6)	2006–14	R134a	585–615	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	2006–14	R134a	835–865	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
S-MAX 1.5 i + 2.0 i EcoBoost	2015–06/2016	R134a	570	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2015–06/2016	R134a	970	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
S-MAX 2.0 TDCi	2015–06/2016	R134a	570	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2015–06/2016	R134a	910	WSH-M1C231-B	PAO 68 or PAG ISO 46	230
S-MAX 1.5 i + 2.0 i EcoBoost	06/2016–	R1234yf	570	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	150
with air conditioning system at rear	06/2016–	R1234yf	970	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	250
S-MAX 2.0 TDCi	06/2016–	R1234yf	570	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	150
with air conditioning system at rear	06/2016–	R1234yf	910	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	230
Granada/Scorpio	1994–12/94	R134a	n/a	WSH-M1C231-B	PAO 68 or PAG ISO 46	160
Scorpio	1995–98	R134a	980–1020	WSH-M1C231-B	PAO 68 or PAG ISO 46	160
Tourneo Connect 1.8 i/1.8 D TDCi	2002–07	R134a	730–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200

**Ford**

Transit	1994–12/99	R134a	885–915	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	1994–08/97	R134a	1375–1425	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	09/1997–12/99	R134a	1175–1225	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Transit 2.0 Di/2.4 Di	01/2000–05	R134a	720–760	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	01/2000–05	R134a	1530–1590	WSH-M1C231-B	PAO 68 or PAG ISO 46	250
Transit 2.3 i/2.0 TDCi	2001–05	R134a	970–1010	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
Transit Connect/Tourneo Connect 1.0 i EcoBoost	2013–	R134a	575	WSH-M1C231-B	PAO 68 or PAG ISO 46	120
Transit Connect/Tourneo Connect 1.6 i EcoBoost	2013–	R134a	675	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	2013–	R134a	875	WSH-M1C231-B	PAO 68 or PAG ISO 46	220
Transit Connect/Tourneo Connect 2.5 Duratec	2013–	R134a	675	WSH-M1C231-B	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	2013–	R134a	875	WSH-M1C231-B	PAO 68 or PAG ISO 46	220
Transit Connect/Tourneo Connect bus 1.6 TDCi	2013–	R134a	575	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2013–	R134a	800	WSH-M1C231-B	PAO 68 or PAG ISO 46	n/a
Transit Custom panel van	12/2012–	R134a	740	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
Transit Custom panel van with additional air conditioning system	12/2012–	R134a	1150	WSH-M1C231-B	PAO 68 or PAG ISO 46	n/a



## Ford

Transit Custom bus	12/2012–	R1234yf	770	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	280
Transit Custom bus with additional air conditioning system	12/2012–	R1234yf	1080	WSS-M2C300-A2	PAO 68 AA1 or PAG ISO 46 YF	n/a
Transit/Tourneo	07/2006–	R134a	730–770	WSH-M1C231-B	PAO 68 or PAG ISO 46	280
with air conditioning system at rear	07/2006–	R134a	1370–1430	WSH-M1C231-B	PAO 68 or PAG ISO 46	n/a
Transit/Tourneo Connect panel van 1.6 TDCi	2013–	R134a	525	WSH-M1C231-B	PAO 68 or PAG ISO 46	150

## Honda

Accord – Denso compressor	1993–98	R134a	700–750	ND8	PAO 68 or PAG ISO 46	160
Hadsys compressor	1993–98	R134a	700–750	S10X	PAO 68	160
Accord diesel right-hand drive	1996–98	R134a	700	SP 10	PAO 68 or PAG ISO 46	135
Accord diesel left-hand drive	1996–98	R134a	650	SP 10	PAO 68 or PAG ISO 46	135
Accord – Denso compressor	1998–03	R134a	500–550	ND8	PAO 68 or PAG ISO 46	160
Sanden compressor	1998–03	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	130
Accord Aerodeck/Coupe – Denso compressor	1994–97	R134a	600–650	ND8	PAO 68 or PAG ISO 46	160
Hadsys compressor	1994–97	R134a	600–650	S10X	PAO 68	160



<b>Honda</b>						
Accord Coupe	1998–03	R134a	600–650	ND8	PAO 68 or PAG ISO 46	160–175
Accord 2.0 i/2.4 i	2003–08	R134a	500–600	SP 10	PAO 68 or PAG ISO 46	130
Accord 2.0 i/2.4 i/2.2 D i-DTEC	07/2008–	R134a	475	SP 10	PAO 68 or PAG ISO 46	185
Accord 2.2 D i-CTDI	2003–08	R134a	450–500	ND8	PAO 68 or PAG ISO 46	160
Civic – Denso compressor	1994–95	R134a	500–550	ND8	PAO 68 or PAG ISO 46	120
Matsushita compressor	1994–95	R134a	500–550	GU10	PAO 68 or PAG ISO 46	140
Sanden compressor	1994–95	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	120
Civic 2/3/4-door – Denso compressor	1996–00	R134a	600–650	ND8	PAO 68 or PAG ISO 46	140
Sanden compressor	1996–00	R134a	600–650	SP 10	PAO 68 or PAG ISO 46	130
Civic 5-door	1995–97	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	120
Civic 5-door – Denso compressor	1997–00	R134a	500–550	ND8	PAO 68 or PAG ISO 46	120
Sanden compressor	1997–00	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	130
Civic 5-door diesel right-hand drive	1997–00	R134a	560	SP 10	PAO 68 or PAG ISO 46	135
Civic 5-door diesel left-hand drive	1997–00	R134a	640	SP 10	PAO 68 or PAG ISO 46	135
Civic/Civic Coupe (EU/EP/EM) 1.4 i/1.6 i/2.0 i	2001–06	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	130–150



<b>Honda</b>						
Civic 1.7 D CTDI	2002–06	R134a	500–550	PAG	PAO 68 or PAG ISO 46	145
Civic VIII 1.4 i/1.8 i	2006–	R134a	450–480	SP 10	PAO 68 or PAG ISO 46	80
Civic VIII 2.2 D i-CTDI	2006–	R134a	450–480	SP 10	PAO 68 or PAG ISO 46	85
Civic IX 1.4 i-VTEC/1.8 i-VTEC/2.2 D i-DTEC left-hand drive	2012–	R134a	380	ND8	PAO 68 or PAG ISO 46	70
Civic IX 1.4 i-VTEC/1.8 i-VTEC/2.2 D i-DTEC right-hand drive	2012–	R134a	420	ND8	PAO 68 or PAG ISO 46	80
Civic 1.0 VTEC/1.5 VTEC/2.0 Typ R	2017–	R134a	430	ND8	PAO 68 AA1 or PAG ISO 46	100
Civic 1.0 VTEC/1.5 VTEC/2.0 Typ R	2017–	R1234yf	430	POE	PAO 68 AA1	100
Civic 1.6 iDTEC	2017–	R1234yf	420	POE	PAO 68 AA1	100
Civic Hybrid IMA left-hand drive	2006–10	R134a	425	SE-10Y	POE	n/a
Civic Hybrid IMA left-hand drive	2006–10	R134a	475	SE-10Y	POE	n/a
Concerto	1993–95	R134a	750–800	SP 10	PAO 68 or PAG ISO 46	120
CRX – Denso compressor	1994–97	R134a	500–550	ND8	PAO 68 or PAG ISO 46	120
Matsushita compressor	1994–97	R134a	500–550	GU10	PAO 68 or PAG ISO 46	140
Sanden compressor	1994–97	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	120
CRV right-hand drive	1997–02	R134a	600–650	SP 10	PAO 68 or PAG ISO 46	130–150



<b>Honda</b>						
CRV (RD)	2002–07	R134a	480–530	SP 10	PAO 68 or PAG ISO 46	130–150
CRV 2.2 D i-CTDI (RD)	2004–07	R134a	450–500	ND8	PAO 68 or PAG ISO 46	160
CRV 2.0 i/2.2 D CTDI/2.4 i	2007–	R134a	465	SP 10	PAO 68 or PAG ISO 46	185
CRV 1.5 VTEC	2018–	R1234yf	460	POE	PAO 68 AA1	90
with air conditioning system at rear	2018–	R1234yf	680	POE	PAO 68 AA1	105
CRV 2.0 iMMD Hybrid	2018–	R1234yf	440	POE	PAO 68 AA1	130
CR-Z 1.5 Hybrid IMA	2010–	R134a	475	SP 10	PAO 68 or PAG ISO 46	165
FR-V Sanden compressor	2005–07	R134a	550	PAG	PAO 68 or PAG ISO 46	130
FR-V Denso compressor	2005–07	R134a	550	PAG	PAO 68 or PAG ISO 46	100
FR-V	2007–	R134a	550	SP 10	PAO 68 or PAG ISO 46	170
HR-V (GH)	1999–06	R134a	550–650	SP 10	PAO 68 or PAG ISO 46	130–150
HR-V (GH) with air conditioning system at rear	1999–06	R134a	750	SP 10	PAO 68 AA1 or PAG ISO 46 YF	170
HR-V (RU)	11/2014–	R1234yf	420	POE	PAO 68 AA1	80
Insight 1.3 i DSi-VTEC (IMA/Hybrid) LHD	2006–	R134a	425	SE-10Y	POE	140
Insight 1.3 i DSi-VTEC (IMA/Hybrid) RHD	2006–	R134a	475	SE-10Y	POE	140



<b>Honda</b>						
Jazz (GD)	2001–08	R134a	400–450	ND8	PAO 68 or PAG ISO 46	85
Jazz (GE)	2008–15	R134a	400	PAG	PAO 68 or PAG ISO 46	85
Jazz IV (GK) 1.3 iVTEC/1.5 iVTEC Denso compressor	2015–2020	R1234yf	400	POE	PAO 68 AA1	80
Jazz IV (GK) 1.3 iVTEC/1.5 iVTEC Sanden compressor	2015–2020	R1234yf	400	POE	PAO 68 AA1	100
Legend – Denso compressor	1993–96	R134a	750–800	ND8	PAO 68 or PAG ISO 46	180
Hadsys compressor	1993–96	R134a	750–800	S10X	PAO 68	180
Legend	1996–00	R134a	700–750	ND8	PAO 68 or PAG ISO 46	140
Legend IV (KB) 3.5 i/3.7 i	05/2006–	R134a	475	ND8	PAO 68 or PAG ISO 46	120
Prelude right-hand drive	1994–96	R134a	650–700	SP 10	PAO 68 or PAG ISO 46	120
Prelude left-hand drive	1994–96	R134a	600–650	SP 10	PAO 68 or PAG ISO 46	120
Prelude	1997–01	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	130–150
S2000	1999–04	R134a	600–650	SP 10	PAO 68 or PAG ISO 46	130–150
Shuttle 2.2 i/2.3 i	1995–01	R134a	600–650	ND8	PAO 68 or PAG ISO 46	160
with air conditioning system at rear	1995–01	R134a	800–850	ND8	PAO 68 or PAG ISO 46	160
Stream 1.7 i	2001–06	R134a	500–550	SP 10	PAO 68 or PAG ISO 46	130–150



<b>Honda</b>						
Stream 2.0 i	2001-06	R134a	500-550	SP 10	PAO 68 or PAG ISO 46	160-175
with air conditioning system at rear	2001-06	R134a	700-750	SP 10	PAO 68 or PAG ISO 46	160-175
<b>Hyundai</b>						
Accent	1994-95	R134a	670-680	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Accent	1996-09/99	R134a	670-680	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Accent	10/1999-02	R134a	575-625	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Accent (LC)	2002-05	R134a	550	PAG FD46XG	PAO 68 or PAG ISO 46	180
Accent (MC)	11/2005-	R134a	500	PAG	PAO 68	n/a
Atoz/Atos	1998-04	R134a	625-675	PAG FD46XG	PAO 68 or PAG ISO 46	150
Azera 3.3 i/2.2 D CRDi	2007-	R134a	500	PAG FD46XG	PAO 68 or PAG ISO 46	150
Coupe	05/1996-04/02	R134a	675-725	PAG FD46XG	PAO 68 or PAG ISO 46	170-190
Coupe (GK)	2002-06	R134a	575-625	PAG	PAO 68	140-160
Elantra (XD) compressor: HS-15	06/2000-06	R134a	655-705	PAG FD46XG	PAO 68 or PAG ISO 46	140-160
Elantra (XD) compressor: 10PA15	06/2000-06	R134a	655-705	ND8	PAO 68 or PAG ISO 46	120-135





## Hyundai

Galoper	08/1998–02	R134a	760–800	PAG FD46XG	PAO 68 or PAG ISO 46	170–190
with air conditioning system at rear	08/1998–02	R134a	1150–1200	PAG FD46XG	PAO 68 or PAG ISO 46	170–190
Genesis Coupe 2.0 i Turbo/3.8 i	2010–	R134a	570	FD46XG	PAO 68 or PAG ISO 46	150
Getz	2002–08	R134a	475–525	ND8	PAO 68 or PAG ISO 46	110–130
Grand Santa Fe	2013–	R134a	600	FD46XG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	2013–	R134a	800	FD46XG	PAO 68 or PAG ISO 46	210
Grand Santa Fe	2013–	R1234yf	550	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	120
with air conditioning system at rear	2013–	R1234yf	750	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	210
Grandeur 3.3 i/3.8 i/2.2 D CRDi	2005–	R134a	480–520	PAG	PAO 68	140–160
H100	1993–02/00	R134a	625–675	PAG	PAO 68 or PAG ISO 46	170–190
with air conditioning system at rear	1993–02/00	R134a	1350–1450	PAG	PAO 68 or PAG ISO 46	170–190
H1/H200/Starex 2.4 i/2.5 D/2.6 D compressor: FS10/Zexel	1997–08	R134a	625–675	PAG	PAO 68	200–220
with air conditioning system at rear	1997–08	R134a	1300	PAG	PAO 68	220–240
H1/H200/Starex 2.4 i/2.5 D/2.6 D compressor: MSC130CV/V6 CWV	1997–05	R134a	625–675	PAG	PAO 68	240–260
with air conditioning system at rear	1997–05	R134a	1300	PAG	PAO 68	260–280



## Hyundai

H1/H200/Starex/Satellite 2.5 D CRDi	2002–08	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2002–08	R134a	950	PAG FD46XG	PAO 68 or PAG ISO 46	210
H1/H300/Starex/Satellite/Montana 2.5 D CRDi	2008–	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2008–	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
i10	2008–13	R134a	450	PAG	PAO 68 or PAG ISO 46	120
i10 (BA/IA)	12/2013–	R134a	410	FD46XG	PAO 68 or PAG ISO 46	100
i10 (BA/IA)	12/2013–	R1234yf	410	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	100
i20	2009–	R134a	450	PAG FD46XG	PAO 68 or PAG ISO 46	120
i20 (GB)	11/2014–	R134a	470	FD46XG	PAO 68 or PAG ISO 46	110
i20 (GB)	11/2014–	R1234yf	470	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	110
i30	2008–12	R134a	500	PAG	PAO 68 or PAG ISO 46	150
i30 (GD)	12/2011–	R134a	500	FD46XG	PAO 68 or PAG ISO 46	150
i30 (GD)	12/2011–	R1234yf	500	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	150
i40 1.6 GDi/2.0 GDi/1.7 CRDi	2011–	R134a	550	PAG	PAO 68 or PAG ISO 46	120



<b>Hyundai</b>						
i800/iLoad/iMax	2008–	R134a	650	FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2008–	R134a	850	FD46XG	PAO 68 or PAG ISO 46	210
i800/iLoad/iMax 2.5 D CRDi	2008–	R134a	650	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2008–	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
ix35	2010–	R134a	510	FD46XG	PAO 68 or PAG ISO 46	120
ix20	2010–	R134a	550	PAG	PAO 68 or PAG ISO 46	100
ix55	2008–	R134a	700	FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	2008–	R134a	900	FD46XG	PAO 68 or PAG ISO 46	210
Lantra	1994–96	R134a	670–680	PAG FD46XG	PAO 68 or PAG ISO 46	140–160
Lantra	1996–00	R134a	675–725	PAG FD46XG	PAO 68 or PAG ISO 46	170–190
Matrix 1.6 i/1.8 i	2001–06	R134a	570	PAG	PAO 68	155
Pony	1994–	R134a	680–700	PAG FD46XG	PAO 68 or PAG ISO 46	207–230
S Coupe	1994–04/96	R134a	650–700	PAG FD46XG	PAO 68 or PAG ISO 46	140–160
Santa Fe	2001–06	R134a	575–625	PAG FD46XG	PAO 68 or PAG ISO 46	160



## Hyundai

Santa Fe (CM)	03/2006–12	R134a	600	PAG FD46XG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	03/2006–12	R134a	850	PAG FD46XG	PAO 68 or PAG ISO 46	210
Santa Fe (DM)	09/2012–	R134a	600	FD46XG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	09/2012–	R134a	750	FD46XG	PAO 68 or PAG ISO 46	210
Santa Fe (DM)	09/2012–	R1234yf	600	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	120
with air conditioning system at rear	09/2012–	R1234yf	750	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	210
Sonata	1993–94	R134a	775–825	PAG FD46XG	PAO 68 or PAG ISO 46	207–230
Sonata	1995–97	R134a	700–750	PAG FD46XG	PAO 68 or PAG ISO 46	207–230
Sonata III (EF)	1998–01	R134a	675–725	PAG FD46XG	PAO 68 or PAG ISO 46	150
Sonata IV (new EF)	2001–05	R134a	660–700	PAG FD46XG	PAO 68 or PAG ISO 46	150
Sonata V (NF)	2005–	R134a	530–570	PAG FD46XG	PAO 68 or PAG ISO 46	150
Terracan 2.9 CRDi/3.5 i V6	2001–08	R134a	825–875	PAG	PAO 68	170–190
Trajet	03/2000–03	R134a	645–695	PAG	PAO 68 or PAG ISO 46	170–190
with air conditioning system at rear	03/2000–03	R134a	825–875	PAG	PAO 68 or PAG ISO 46	170–190
Tucson with gasoline engine	2004–10	R134a	490–530	ND8	PAO 68 or PAG ISO 46	120–135



## Hyundai

Tucson with diesel engine	2004–10	R134a	490–530	ND8	PAO 68 or PAG ISO 46	200–215
Tucson (TLE)	06/2015–	R1234yf	600	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	100
Veloster 1.6 GDi	2011–	R134a	420	PAG	PAO 68 or PAG ISO 46	120
XG	2000–03	R134a	650–690	PAG FD46XG	PAO 68 or PAG ISO 46	150
<b>Infiniti</b>						
EX (J50) 3.7 i	2007–	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150
FX (S51) 3.7 i/5.0 i	2008–	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150
G (V36) 3.7 i	2007–	R134a	550	PAG DH-PS	PAO 68 or PAG ISO 46	150
M (Y51)	2010–	R134a	550	PAG DH-PS	PAO 68 AA1 or PAG ISO 46	150

## Isuzu

Ascender	2003–05	R134a	1100	PAG	PAO 68	n/a
Campo 3.1 D Turbo	1993–03	R134a	650	ZXL100PG	PAO 68 or PAG ISO 46	150
Campo diesel	1993–03	R134a	750	PAG	PAO 68 or PAG ISO 46	260

**Isuzu**

D-Max	2012–	R134a	530	PAG	PAO 68 AA1	150
with air conditioning system at rear	2012–	R134a	800	PAG	PAO 68 AA1	150
TF	2002–	R134a	650	PAG	PAO 68 AA1 or PAG ISO 46	150
Rodeo/D-Max 2.5 D/3.0 D	2003–12	R134a	650	ZXL200PG	PAO 68 or PAG ISO 100	180
Trooper	1994–98	R134a	750	PAG	PAO 68 or PAG ISO 100	270
Trooper diesel	1994–98	R134a	750	PAG	PAO 68 or PAG ISO 46	270
Trooper	1998–03	R134a	750	ZXL200PG	PAO 68 or PAG ISO 100	150
Trooper diesel	1998–03	R134a	750	ZXL100PG	PAO 68 or PAG ISO 46	150
<b>Jaguar (Daimler)</b>						
Daimler Double Six 6.0 i	1994–97	R134a	1050–1150	ND8	PAO 68 or PAG ISO 46	180–200
Daimler 4.0 V8	1997–04	R134a	650–700	PAG	PAO 68	160–200
S-Type ← VIN M45255	1999–02	R134a	775–825	WSH-M1C231-B	PAO 68 or PAG ISO 46	210
S-Type → VIN M45255	2002–08	R134a	725–775	PAG	PAO 68 or PAG ISO 46	210
S-Type 2.7 D	2004–08	R134a	650–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	210



<b>Jaguar (Daimler)</b>						
X-Type (CF1) 2.0 i/2.5 i/3.0 i	2001–10	R134a	795–825	PAG	PAO 68 or PAG ISO 46	220
X-Type 2.0 D/2.2 D	2003–10	R134a	720–750	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
XF 3.0 i	2008–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	130
XF 5.0 i/3.0 D	2009–	R134a	750	JLM12260	PAO 68 or PAG ISO 46	110
XF 2.2 D	2011–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XFR 5.0 i	2009–	R134a	750	JLM12260	PAO 68 or PAG ISO 46	110
XJ (X351)	2010–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XJ6 3.0 i/2.7 D TDVi	2003–10	R134a	650	JLM12260	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	2003–10	R134a	800	JLM12260	PAO 68 or PAG ISO 46	180
XJ6/Sovereign	1993–94	R134a	1127–1173	SP 20	PAO 68 or PAG ISO 100	120–150
XJ6/XJR	1994–97	R134a	1050–1150	ND8	PAO 68 or PAG ISO 46	180–200
XJ8 3.2 i/4.0 i	1997–03	R134a	650–700	PAG	PAO 68 or PAG ISO 46	165–195
XJ8 3.5 i/4.2 i/4.2 i Super V8	2003–10	R134a	650	JLM12260	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	2003–10	R134a	800	JLM12260	PAO 68 or PAG ISO 46	180
XJ12/Double Six	1993–94	R134a	1127–1173	SP 20	PAO 68 or PAG ISO 100	120–150



<b>Jaguar (Daimler)</b>						
XJ12/Double Six	1994–97	R134a	1050–1150	ND8	PAO 68 or PAG ISO 46	180–200
XJR 4.0 i	1998–03	R134a	650–700	PAG	PAO 68 or PAG ISO 46	160–200
XJR 4.2 i	2003–10	R134a	630–650	ND8	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	2003–10	R134a	780–820	ND8	PAO 68 or PAG ISO 46	180
XJS	09/1993–97	R134a	900–950	SP 20	PAO 68 or PAG ISO 100	120–150
XK8	10/1996–03	R134a	600–700	PAG	PAO 68 or PAG ISO 46	160–200
XK8 4.2 i	2006–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	130
XK8 5.0 i	2009–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
XKR 4.0 i/4.2 i	2002–06	R134a	650–700	PAG	PAO 68 or PAG ISO 46	160–200
XKR 4.2 i	2006–	R134a	700	PAG	PAO 68 or PAG ISO 46	130
XKR 5.0 i/5.0 iS	2009–	R134a	700	JLM12260	PAO 68 or PAG ISO 46	110
<b>Kia</b>						
Carens	1999–07/02	R134a	800	PAG	PAO 68 or PAG ISO 46	120
Carens II	07/2002–06	R134a	660–700	ND8	PAO 68 or PAG ISO 46	200



**Kia**

Carens III (UN)	09/2006–	R134a	450	PAG 46	PAO 68 or PAG ISO 46	120
Carens IV	03/2013–	R134a	550	FD46XG	PAO 68 or PAG ISO 46	100
Carens IV	03/2013–	R1234yf	550	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	100
Carnival	2000–06	R134a	1150	PAG	PAO 68 or PAG ISO 46	200
Carnival 2.5 i GV6	2001–06	R134a	1000	ND8	PAO 68 or PAG ISO 46	200
Carnival	2006–	R134a	775–825	ND8	PAO 68 or PAG ISO 46	110–130
Ceed/ProCeed	12/2006–12	R134a	500	FD46XG	PAO 68 or PAG ISO 46	140
Ceed/ProCeed	05/2012–	R134a	500	FD46XG	PAO 68 or PAG ISO 46	n/a
Ceed/ProCeed (JD)	05/2012–	R1234yf	500	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	n/a
Ceed 1.0 + 1.4 T-GDi/1.4 + 1.6 MPI/1.6 CRDi/1.6 GTT-Gdi	2018–	R1234yf	500	PAG46YF	PAO 68 AA1 or PAG ISO 46 YF	110
Ceed 1.6 GDi Plug In	2018–	R1234yf	500	POE	PAO 68 AA1	130
Cerato gasoline engine	2004–08	R134a	475–525	ND8	PAO 68 or PAG ISO 46	120–135
Cerato diesel engine	2004–08	R134a	475–525	ND8	PAO 68 or PAG ISO 46	200–215
Cerato II	01/2009–	R134a	500	FD46XG	PAO 68 or PAG ISO 46	n/a
Cerato II	01/2013–	R1234yf	500	FD46XG	PAO 68 AA1 or PAG ISO 46 YF	n/a

**Kia**

Clarus/Credos 1.8	1996–03	R134a	700	PAG	PAO 68 or PAG ISO 46	150
Clarus/Credos 2.0	1996–03	R134a	700	PAG	PAO 68 or PAG ISO 100	200
Joice	2000–06	R134a	730	FD46XG	PAO 68 or PAG ISO 46	210
Magentis	2001–05	R134a	645–695	PAG	PAO 68	150
Magentis drive belt 6PK	11/2005–07	R134a	475–525	ND8	PAO 68 or PAG ISO 46	140–160
Magentis (MG)	11/2005–	R134a	500	PAG	PAO 68 or PAG ISO 46	150
Niro	2016–	R1234yf	550	POE	PAO 68 AA1	130
e-Niro	2019–	R1234yf	650	POE	PAO 68 AA1	180
Opirus	2003–07	R134a	625–675	FD46XG	PAO 68 or PAG ISO 46	140–160
Optima	03/2012–	R134a	570	FD46XG	PAO 68 or PAG ISO 46	100
Optima	03/2012–	R1234yf	470	ND12	PAO 68 AA1 or PAG ISO 46 YF	90
Optima Hybrid	2012–15	R1234yf	550	POE	PAO 68 AA1	125
Optima Hybrid	2016–	R1234yf	550	POE	PAO 68 AA1	130
Picanto	2004–11	R134a	425–475	FD46XG	PAO 68 or PAG ISO 46	110–130
Picanto (TA)	05/2011–	R134a	370	PAG	PAO 68 or PAG ISO 46	110

**Kia**

Picanto (JA)	03/2017–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	100
Pregio	10/1997–05	R134a	830	PAG	PAO 68 or PAG ISO 46	200
Rio compressor 10 PA15C	2000–05	R134a	650	PAG	PAO 68 or PAG ISO 46	135
Rio II	2005–	R134a	475–525	ND8	PAO 68 or PAG ISO 46	110–130
Rio III (UB)	09/2011–	R134a	420	PAG	PAO 68 or PAG ISO 46	120
Rio IV (YB)	2017–	R1234yf	450	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	120
Sedona	2000–03	R134a	1150	PAG	PAO 68 or PAG ISO 46	200
Sephia/Mentor	1996–00	R134a	700	PAG	PAO 68 or PAG ISO 46	140
Shuma	1998–04	R134a	700	PAG	PAO 68 or PAG ISO 46	140
Sorento	2002–07	R134a	575–625	ND8	PAO 68 or PAG ISO 46	200
Sorento 3.3 i/2.5 CRDi	2007–	R134a	540	ND8	PAO 68 or PAG ISO 46	n/a
Sorento (XM)	11/2009–15	R134a	600	PAG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	11/2009–15	R134a	750	PAG	PAO 68 or PAG ISO 46	180
Sorento III (UM)	01/2015–	R134a	700	PAG	PAO 68 AA1 or PAG ISO 46	130
with air conditioning system at rear	01/2015–	R134a	825	PAG	PAO 68 AA1 or PAG ISO 46	180

**Kia**

Sorento III (UM)	01/2015–	R1234yf	650	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	130
with air conditioning system at rear	01/2015–	R1234yf	800	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	180
Soul	2009–	R134a	500	PAG	PAO 68 or PAG ISO 46	105
Soul II	02/2014–	R1234yf	550	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	110
Soul II	02/2014–	R134a	550	FD46XG	PAO 68 or PAG ISO 46	110
Soul EV Electric	02/2014–	R134a	550	POE	PAO 68 AA1 or POE	180
with heat pump	02/2014–	R134a	900	POE	PAO 68 AA1 or POE	180
Soul EV Electric	02/2014–	R1234yf	550	POE	PAO 68 AA1	180
with heat pump	02/2014–	R1234yf	900	POE	PAO 68 AA1	180
e-Soul	2019–	R1234yf	600	POE	PAO 68 AA1	150
Sportage	1995–03	R134a	700	ZXL200PG	PAO 68 or PAG ISO 100	200
Sportage drive belt 6PK	2004–10	R134a	485–535	ND8	PAO 68 or PAG ISO 46	200–215
Sportage drive belt 4PK	2004–10	R134a	485–535	ND8	PAO 68 or PAG ISO 46	120–135
Sportage 1.6 GDi/1.7 CRDi/2.0 CRDi/2.0 i	2010–2016	R134a	550	PAG 46	PAO 68 AA1 or PAG ISO 46	120
Sportage 1.6 LPG/2.0 GDi	2010–2016	R134a	600	PAG 46	PAO 68 AA1 or PAG ISO 46	120



## Kia

Sportage 1.6 + 1.7 CRDi/1.6 + 2.4 GDi/1.6 TGD/2.0 MPI	2016–	R134a	600	FD46XG	PAO 68 AA1 or PAG ISO 46	120
Sportage 1.6 CRDi Hybrid/2.0 Eco Dynamics+	2016–	R134a	600	POE	PAO 68 AA1	120
Sportage 1.6 + 1.7 CRDi/1.6 + 2.4 GDi/1.6 TGD/2.0 MPI	2016–	R1234yf	600	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	120
Sportage 1.6 CRDi Hybrid/2.0 Eco Dynamics+	2016–	R1234yf	600	POE	PAO 68 AA1	120
Venga	2009–15	R134a	550	PAG	PAO 68 or PAG ISO 46	110

## Lancia

Dedra – Sankyo compressor	1993–95	R134a	850–950	SP 20	PAO 68 or PAG ISO 100	135
Harrison compressor	1993–95	R134a	850–950	SP 20	PAO 68 or PAG ISO 100	236
Dedra – Sankyo compressor	1996–99	R134a	730	ND9	PAO 68 or PAG ISO 100	140–180
Harrison compressor	1996–99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236
Sanden compressor	1996–99	R134a	730	SP 10	PAO 68 or PAG ISO 46	240
Denso compressor	1996–99	R134a	730	ND9	PAO 68 or PAG ISO 100	140–180
Dedra 2.0 ie 16 V all-wheel drive	1995–99	R134a	850–950	SP 20	PAO 68 or PAG ISO 100	135
Dedra Turbo D	1994–99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236



<b>Lancia</b>						
Delta – Sankyo compressor	1994–99	R134a	800	SP 20	PAO 68 or PAG ISO 100	135
Harrison compressor	1994–99	R134a	800	UCON RL 488	PAO 68 or PAG ISO 150	236
Delta	2008–	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Delta 1.6 16 V	1996–99	R134a	730	ND9H-5	PAO 68 or PAG ISO 100	130–170
Delta 1.8 16 V	1996–99	R134a	730	ND9H-5	PAO 68 or PAG ISO 100	140–180
Delta Turbo D	1994–99	R134a	730	UCON RL 488	PAO 68 or PAG ISO 150	236
Kappa – Sanden compressor	1994–00	R134a	730	SP 10	PAO 68 or PAG ISO 46	135
Denso compressor	1994–00	R134a	800	ND8	PAO 68 or PAG ISO 46	140–170
Kappa 2.0 i/2.4 i/3.0 i with Sanden compressor	1994–02	R134a	730	SP 10	PAO 68 or PAG ISO 46	135
Kappa 2.0 i/2.4 i/3.0 i with Denso compressor	1994–02	R134a	800	ND8	PAO 68 or PAG ISO 46	155
Lybra 1.6 i	1999–06	R134a	675–725	UCON RL 488	PAO 68 or PAG ISO 150	265
Lybra 1.8 i/2.0 i/1.9 JTD	2001–07	R134a	675–725	SP 20	PAO 68 or PAG ISO 100	145
Lybra 2.4 JTD	1999–06	R134a	675–725	ND8	PAO 68 or PAG ISO 46	120
Musa 1.4 i/1.4 i 16 V/1.3 D JTD/1.9 D JTD/1.6 D	2004–12	R134a	500	SP 10	PAO 68 or PAG ISO 46	130
Phedra	2002–11	R134a	575–625	SP 10	PAO 68 or PAG ISO 46	135



<b>Lancia</b>						
Thema	1992–94	R134a	1100	E13 M6	PAO 68 or PAG ISO 100	135
Thesis	2002–09	R134a	650	SP 10	PAO 68 or PAG ISO 46	140
Thesis 3.0 i/3.2 i	2002–09	R134a	730	SP 10	PAO 68 or PAG ISO 46	140
Ypsilon 1.1	1996–03	R134a	625–675	ND8	PAO 68 or PAG ISO 46	60–100
Ypsilon 1.2/1.4	1996–03	R134a	650–700	ND9	PAO 68 or PAG ISO 100	140–180
Ypsilon 1.2 i/1.2 i 16 V/1.4 i/1.3 D JTD	2003–11	R134a	500	ND8	PAO 68 or PAG ISO 46	130
Zeta	1996–02	R134a	950–1000	SP 10	PAO 68 or PAG ISO 46	135
<b>Land Rover</b>						
Defender	06/1994–98	R134a	1090	ND8	PAO 68 or PAG ISO 46	313
Defender TD5 engine code: 10P	1999–07	R134a	700–800	ND8	PAO 68 or PAG ISO 46	n/a
Defender TD5 engine code: 15P	2001–07	R134a	700–800	ND8	PAO 68 or PAG ISO 46	180
Defender 2.4 TD4	2006–	R134a	600	SP 10	PAO 68 or PAG ISO 46	130
Discovery	09/1994–98	R134a	900	ND8	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	09/1994–98	R134a	1150	ND8	PAO 68 or PAG ISO 46	180



## Land Rover

Discovery	1998–04	R134a	675–725	ND8	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	1998–04	R134a	875–925	ND8	PAO 68 or PAG ISO 46	180
Discovery III 2.7 TD	10/2004–09	R134a	550	ND8	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	10/2004–09	R134a	810	ND8	PAO 68 or PAG ISO 46	180
Discovery III 4.4 i/4.0 i	10/2004–09	R134a	600	ND8	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	10/2004–09	R134a	900	ND8	PAO 68 or PAG ISO 46	180
Discovery IV (LA) 2.7 TDV6	09/2009–	R134a	550	ND8	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	09/2009–	R134a	810	ND8	PAO 68 or PAG ISO 46	175
Discovery IV (LA) 4.0 i	09/2009–	R134a	600	ND8	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	09/2009–	R134a	900	ND8	PAO 68 or PAG ISO 46	175
Discovery IV (LA) 3.0 TDV6/5.0 i	09/2009–	R134a	625	ND8	PAO 68 or PAG ISO 46	115
with air conditioning system at rear	09/2009–	R134a	900	ND8	PAO 68 or PAG ISO 46	175
Discovery V (L462)	09/2016–	R1234yf	800	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	90
with 4-zone air conditioning system	09/2016–	R1234yf	1150	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	130
Discovery Sport (L550)	12/2014–	R1234yf	650	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	150





## Land Rover

Freelander	1997–00	R134a	700–750	ND8	PAO 68 or PAG ISO 46	130–170
Freelander	2000–06	R134a	515–565	PAG	PAO 68 or PAG ISO 46	n/a
Freelander left-hand drive engine: 2.5 i	2000–06	R134a	410–450	ND8	PAO 68 or PAG ISO 46	n/a
Freelander II 2.2 D TD4	2006–	R134a	730	WSH-M1C231-B	PAO 68 or PAG ISO 46	200
Freelander II 3.2 i	2006–	R134a	730	WSH-M1C231-B	PAO 68 or PAG ISO 46	150
Range Rover/Classic	09/1994–95	R134a	900	ND8	PAO 68 or PAG ISO 46	180
Range Rover II gasoline	1994–99	R134a	1250	SP 10	PAO 68 or PAG ISO 46	150
Range Rover II gasoline	1999–02	R134a	1355–1405	ND8	PAO 68 or PAG ISO 46	180
Range Rover II diesel	1994–02	R134a	1100	ND8	PAO 68 or PAG ISO 46	140
Range Rover III (LM) 4.4 i (448S2)/3.0 TD	2002–12	R134a	500–520	ND8	PAO 68 or PAG ISO 46	110
Range Rover III 4.4 i (448PN)/4.2 i Supercharged	2005–12	R134a	700	ND8	PAO 68 or PAG ISO 46	120
Range Rover IV	2012–	R1234yf	800	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	90
with 4-zone air conditioning system	2012–	R1234yf	1150	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	130
Range Rover Evoque	2011–	R134a	650	PAG	PAO 68 or PAG ISO 46	150
Range Rover Evoque	2012–	R1234yf	650	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	150



## Land Rover

Range Rover Sport 4.4 i (448PN)/4.2 i Supercharged	2005–09	R134a	600	ND8	PAO 68 or PAG ISO 46	130
Range Rover Sport 2.7 D TDV6	2005–09	R134a	600	ND8	PAO 68 or PAG ISO 46	130
Range Rover Sport 3.0 D TDV6	2009–13	R134a	600	ND8	PAO 68 or PAG ISO 46	110
Range Rover Sport 3.6 D TDV8	2006–13	R134a	650	ND8	PAO 68 or PAG ISO 46	130
Range Rover Sport 5.0 i/5.0 i Supercharged	2009–13	R134a	700	ND8	PAO 68 or PAG ISO 46	110
Range Rover Sport (L494)	04/2013–	R1234yf	800	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	90
with 4-zone air conditioning system	04/2013–	R1234yf	1150	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	130

## LDV

Maxus 2.5 D CRD left-hand drive	2005–09	R134a	850	PAG	PAO 68 or PAG ISO 150	265
Maxus 2.5 D CRD right-hand drive	2005–09	R134a	880	PAG	PAO 68 or PAG ISO 150	265

## Lexus

CT 200h	2010–	R134a	470	ND11	POE	135
GS 300	1994–97	R134a	800–900	ND8	PAO 68 or PAG ISO 46	150
GS 300	1997–05	R134a	550–650	ND8	PAO 68 or PAG ISO 46	150



<b>Lexus</b>						
GS 300 (GRS/URZ)	04/2005–	R134a	450	ND8	PAO 68 or PAG ISO 46	135
GS 430	2000–05	R134a	550–650	PAG	PAO 68	n/a
GS 430	2005–08	R134a	450	ND8	PAO 68 or PAG ISO 46	130
GS 450h	2006–	R134a	450	ND11	POE	120
GS 460	2008–	R134a	550	ND8	PAO 68 or PAG ISO 46	130
IS 200	1999–05	R134a	550–650	ND8	PAO 68 or PAG ISO 46	150
IS 300	2001–05	R134a	550–650	ND8	PAO 68 or PAG ISO 46	n/a
IS 250/220 d/5.0 F	2005–	R134a	440	ND8	PAO 68 or PAG ISO 46	n/a
LS 400	1993–09/00	R134a	650–750	ND8	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	1993–09/00	R134a	900–1000	ND8	PAO 68 or PAG ISO 46	180
LS 430	2001–07	R134a	600–700	ND8	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	2001–07	R134a	850–950	ND8	PAO 68 or PAG ISO 46	150
LS 460	2006–	R134a	600	ND8	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	2006–	R134a	750	ND8	PAO 68 or PAG ISO 46	150
LS 600h	2007–10/2009	R134a	900	ND11	POE	130



<b>Lexus</b>						
LS 600h	11/2009–	R134a	840	ND11	POE	130
RX 300	2000–03	R134a	600–700	ND8	PAO 68 or PAG ISO 46	n/a
RX 300	2003–07	R134a	550–650	ND8	PAO 68 or PAG ISO 46	120
RX 350	2006–09	R134a	600	ND8	PAO 68 or PAG ISO 46	120
RX 350	2009–	R134a	500	ND8	PAO 68 or PAG ISO 46	110
RX 400h	2005–10	R134a	550–650	ND11	POE	120
RX 450h	2009–	R134a	600	ND11	POE	120
SC 430	2001–06	R134a	650–750	ND8	PAO 68 or PAG ISO 46	125–135
<b>Maybach</b>						
Maybach (240) 57/63 with air conditioning system at front	2002–06	R134a	950			
with air conditioning system at rear		R134a	950			
compressor 7SEU17C				PAG	PAO 68	170
compressor 6SEU14C				PAG	PAO 68	120



<b>Mazda</b>						
2 condenser tube 1.2 mm (f)	2003–07	R134a	470	PAG	PAO 68 or PAG ISO 46	210
2 condenser tube 3 mm (f)	2003–07	R134a	650	PAG	PAO 68 or PAG ISO 46	210
2	10/2007–14	R134a	500	PAG	PAO 68 or PAG ISO 46	115
2 (DL/DJ)	11/2014–	R1234yf	360	PAG 46 yf	PAO 68 AA1 or PAG ISO 46 YF	100
3 1.4 i/1.6 i/2.0 i	2003–09	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	125
3 1.6 D	2003–09	R134a	650	PAG SP 10	PAO 68 or PAG ISO 46	200
3 2.0 D/2.3 MPS	2007–09	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	155
3 (BL)	06/2009–13	R134a	475	PAG	PAO 68 or PAG ISO 46	130
3 (BM)	09/2013–	R134a	500	PAG 46	PAO 68 or PAG ISO 46	100
3 (BM)	09/2013–	R1234yf	490	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
3 (BN) 1.5 i/2.0 i/1.5 D/2.2 D	2016–2019	R134a	490	PAG 46	PAO 68 AA1 or PAG ISO 46	100
3 (BN) 1.5 i/2.0 i/1.5 D/2.2 D	2016–2019	R1234yf	490	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
3 (BP) 1.5 i/2.0 i/1.8 D	2019–	R1234yf	470	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
3 (BP) 2.0 MHEV	2019–	R1234yf	480	POE	PAO 68 AA1	100
5 1.8 i/2.0 i/2.0 D CRD	2005–10	R134a	500	Atmos GU10	PAO 68 or PAG ISO 46	150



<b>Mazda</b>						
5 (CW)	09/2010–	R134a	480	PAG	PAO 68 or PAG ISO 46	120
6 left-hand drive 1.8 i/2.0 i/2.3 i	2002–07	R134a	470	GU10	PAO 68 or PAG ISO 46	120
6 right-hand drive 1.8 i/2.0 i/2.3 i	2002–07	R134a	430	GU10	PAO 68 or PAG ISO 46	120
6 left-hand drive 2.0 D Turbo	2002–07	R134a	470	Atmos GU10	PAO 68 or PAG ISO 46	150
6 right-hand drive 2.0 D Turbo	2002–07	R134a	430	Atmos GU10	PAO 68 or PAG ISO 46	150
6 1.8 i/2.0 i/2.5 i	2007–12/12	R134a	500	PAG	PAO 68 or PAG ISO 46	120
6 2.0 D/2.2 D	2007–12/12	R134a	525	Atmos GU 10	PAO 68 or PAG ISO 46	120
6 (GJ/GH)	01/2013–	R134a	500	PAG 46	PAO 68 or PAG ISO 46	100
6 (GJ/GH)	01/2013–	R1234yf	490	FD 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
121	1993–12/94	R134a	650	GU10	PAO 68 or PAG ISO 46	175
121	1995–03	R134a	730–750	PAG	PAO 68 or PAG ISO 46	200
323	1994–10/96	R134a	750	GU10	PAO 68 or PAG ISO 46	175
323	11/1996–08/98	R134a	700–750	GU10	PAO 68 or PAG ISO 46	150
323 right-hand drive	09/1998–03	R134a	625	GU10	PAO 68 or PAG ISO 46	150
323 left-hand drive	09/1998–03	R134a	600	GU10	PAO 68 or PAG ISO 46	150



<b>Mazda</b>						
626	1992–05/94	R134a	750–800	ATMOS 150	PAO 68	150
626	06/1994–97	R134a	700	GU10	PAO 68 or PAG ISO 46	175
626	1997–03	R134a	625–700	GU10	PAO 68 or PAG ISO 46	150
B Series 2.5 D/2.5 TD	1998–02	R134a	550	PAG	PAO 68 or PAG ISO 46	180
BT-50 2.5 D/3.0 D	2006–	R134a	475	FD46XG	PAO 68 or PAG ISO 46	180
CX 3 (DK)	05/2015–	R1234yf	360	PAG yf	PAO 68 AA1 or PAG ISO YF	110
CX 5 2.0 i	2012–	R1234yf	500	FD46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
CX 5 2.2 D	2012–	R1234yf	470	FD46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
CX 5 (KF) 2.0 i/2.5 i	2017–	R1234yf	500	FD46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
CX 5 (KF) 2.2 D	2017–	R1234yf	480	FD46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
CX 7 2.3 i/2.2 D	2007–	R134a	490	Atmos GU10	PAO 68 or PAG ISO 46	150
CX 9 3.7 i	2007–	R134a	690	PAG	PAO 68 or PAG ISO 46	160
Demio left-hand drive	1998–04	R134a	650	GU10	PAO 68 or PAG ISO 46	150
Demio right-hand drive	1998–04	R134a	600	GU10	PAO 68 or PAG ISO 46	150



## Mazda

E Series	1995–00	R134a	550	ZXL100PG	PAO 68 or PAG ISO 46	150
with air conditioning system at rear	1995–00	R134a	1150	ZXL100PG	PAO 68 or PAG ISO 46	200
MX3	1991–94	R134a	800	ATMOS 150	PAO 68	150
MX3	1995–99	R134a	750	GU10	PAO 68 or PAG ISO 46	175
MX5 (NB) up to chassis no. 200000	1998–05	R134a	700	PAG	PAO 68	n/a
MX5 (NB) from chassis no. 200001	1998–05	R134a	425	PAG	PAO 68	n/a
MX5 (NC)	2005–15	R134a	450	PAG	PAO 68 or PAG ISO 100	130
MX5 (ND)	06/2015–	R1234yf	360	PAG yf	PAO 68 AA1 or PAG ISO YF	100
MX6	1992–05/94	R134a	750–800	ATMOS 150	PAO 68	150
MX6	06/1994–98	R134a	700	GU10	PAO 68 or PAG ISO 46	175
MPV 3.0 i	1994–99	R134a	1050	ND8	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	1994–99	R134a	1200	ND8	PAO 68 or PAG ISO 46	215
MPV II	09/1999–05	R134a	650	ND8	PAO 68 or PAG ISO 46	160
with air conditioning system at rear	09/1999–05	R134a	850	ND8	PAO 68 or PAG ISO 46	160
Premacy	1999–05	R134a	650	GU10	PAO 68 or PAG ISO 46	150





## Mazda

RX 8	2003–12	R134a	430	PAG	PAO 68 or PAG ISO 46	60
Tribute 2.0 i/3.0 i	2000–07	R134a	900	PAG	PAO 68 or PAG ISO 46	260
Xedos 6	1992–03/94	R134a	700	GU10	PAO 68 or PAG ISO 46	130–140
Xedos 6	04/1994–03	R134a	700	GU10	PAO 68 or PAG ISO 46	175
Xedos 9	1994–03	R134a	700–800	GU10	PAO 68 or PAG ISO 46	175

## Mercedes-Benz

A-Class (W168)	1998–05	R134a	600	A001 989 08 03	PAO 68 or PAG ISO 46	100
A-Class (W169) 150/170/200/160 CDI/180 CDI	09/2004–11	R134a	770	A001 989 08 03	PAO 68 or PAG ISO 46	120
A-Class (W169) 200 CDI/200 Turbo	09/2004–11	R134a	840	A001 989 08 03	PAO 68 or PAG ISO 46	120
A-Class (176)	06/2012–	R134a	650	PAG	PAO 68 or PAG ISO 46	120
B-Class (W245) 150/200/180 CDI/170	2005–11	R134a	770	A001 989 08 03	PAO 68 or PAG ISO 46	120
B-Class (W245) 200 Turbo/200 CDI	2005–11	R134a	840	A001 989 08 03	PAO 68 or PAG ISO 46	120
B-Class (246)	11/2011–	R134a	650	PAG	PAO 68 or PAG ISO 46	120
Citan	2012–	R134a	550	PAG	PAO 68 or PAG ISO 46	150



<b>Mercedes-Benz</b>						
C-Class (W202) <- VIN 1A 168 524, 1F 164 269	1993-00	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	155
C-Class (W202) -> VIN 1A 168 525, 1F 164 270 R	1993-00	R134a	850	A001 989 08 03	PAO 68 or PAG ISO 46	155
C-Class (W203)	05/2000-04/04	R134a	700-750	PAG	PAO 68 or PAG ISO 46	120
C-Class (W203) Facelift	04/2004-07	R134a	850	A001 989 08 03	PAO 68 or PAG ISO 46	120
C-Class (204)	2007-09/14	R134a	590	PAG	PAO 68 or PAG ISO 46	120
C-Class (205)	09/2014-	R134a	620	A000 989 06 06	PAO 68 or PAG ISO 46	80
with code ME 04 (mild hybrid)		R134a	710	A000 989 06 06	PAO 68 AA1	120
with code ME 06 (hybrid 60 kW)		R134a	670	A000 989 06 06	PAO 68 AA1	120
C-Class (205)	2016-	R1234yf	620	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	80
with code ME 04 (mild hybrid)	2016-	R1234yf	690	A000 989 06 06 09	PAO 68 AA1	120
with code ME 06 (hybrid 60 kW)	2016-	R1234yf	670	A000 989 06 06 09	PAO 68 AA1	120
CL (216)	2010-	R134a	1070	PAG	PAO 68 or PAG ISO 46	110
CLA (117)	2013-	R134a	650	PAG	PAO 68 or PAG ISO 46	120
CLC (203)	2008-	R134a	850	A001 989 08 03	PAO 68 or PAG ISO 46	135
CLK (C208)	1997-02	R134a	850	A001 989 08 03	PAO 68 or PAG ISO 46	120



<b>Mercedes-Benz</b>						
CLK (C209)	06/2002–09	R134a	750	PAG	PAO 68 or PAG ISO 46	120
CLS (C219)	2005–	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	120
CLS (218)	2011–	R134a	590	A001 989 08 03	PAO 68 or PAG ISO 46	120
E-Class (W124)	1993–96	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	160
with air conditioning system at rear	1993–96	R134a	1150	A001 989 08 03	PAO 68 or PAG ISO 46	160
E-Class (W210)	1995–02	R134a	1000	A001 989 08 03	PAO 68 or PAG ISO 46	120
E-Class (W211)	03/2002–09	R134a	950	PAG	PAO 68 or PAG ISO 46	120
E-Class (W212)	2009–	R134a	590	A001 989 08 03	PAO 68 or PAG ISO 46	120
E-Class (W212) 6.3 E63 AMG	2009–	R134a	640	A001 989 08 03	PAO 68 or PAG ISO 46	120
E-Class (207) Coupe/Cabriolet	2009–	R134a	590	A001 989 08 03	PAO 68 or PAG ISO 46	120
E-Class (213)	2016–	R134a	630	A000 989 06 06 09	PAO 68 or PAG ISO 46	80
E-Class (213) with hybrid 60 + 80 kW	2016–	R134a	670	A000 989 06 06 09	PAO 68 or PAG ISO 46	120
E-Class (213)	2016–	R1234yf	630	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	80
E-Class (213) with hybrid 60 + 80 kW	2016–	R1234yf	670	A000 989 06 06 09	PAO 68 AA1	120
E-Class (213) AMG 63/63 S	2016–	R1234yf	550	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	80



Mercedes-Benz						
E-Class (213)	2016–	R744	340	A000 989 21 00	n/a	100
G-Class (W461)	1993–05	R134a	1100	A001 989 08 03	PAO 68 or PAG ISO 46	170
with compressor 7SB16	1993–05	R134a	1100	A001 989 08 03	PAO 68 or PAG ISO 46	120
G-Class (W463)	1993–05	R134a	1050	A001 989 08 03	PAO 68 or PAG ISO 46	120
G-Class (463.322/323) 270 CDI	2001–05	R134a	1070	A001 989 08 03	PAO 68 or PAG ISO 46	170
GL-Class (X164)	2006–	R134a	970	A001 989 08 03	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	2006–	R134a	1220	A001 989 08 03	PAO 68 or PAG ISO 46	110
GLA (156)	12/2013–	R134a	660	PAG	PAO 68 or PAG ISO 46	110
GLC (253)	2015–	R134a	630	A000 989 06 06 09	PAO 68 or PAG ISO 46	80
GLC (253) with hybrid 80 kW	2015–	R134a	670	A000 989 06 06 09	PAO 68 AA1	120
GLC (253)	2016–	R1234yf	630	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	80
GLC (253) with hybrid 80 kW	2016–	R1234yf	670	A000 989 06 06 09	PAO 68 AA1	120
GLE (292)	2015–	R134a	1050	PAG	PAO 68 or PAG ISO 46	125
GLK (X204) with compressor: Denso 6SEU16	2008–	R134a	590	PAG	PAO 68 or PAG ISO 46	120
M-Class (W163)	03/1998–05	R134a	750	PAG	PAO 68 or PAG ISO 46	175



Mercedes-Benz						
M-Class (W164)	07/2005–	R134a	970	PAG	PAO 68 or PAG ISO 46	110
M-Class (W164) with air conditioning system at rear	2006–	R134a	1220	A001 989 08 03	PAO 68 or PAG ISO 46	110
M-Class (166)	06/2011–	R134a	1050	PAG	PAO 68 or PAG ISO 46	120
M-Class (166) with air conditioning system at rear	06/2011–	R134a	1300	PAG	PAO 68 or PAG ISO 46	160
R-Class (W251/V251)	2006–	R134a	970	A001 989 08 03	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	2006–	R134a	1220	A001 989 08 03	PAO 68 or PAG ISO 46	110
S-Class (W140) <– VIN 1A 128 373	07/1991–99	R134a	1200	A001 989 08 03	PAO 68 or PAG ISO 46	160
with air conditioning system at rear <– VIN 1A 128 373	07/1991–99	R134a	1400	A001 989 08 03	PAO 68 or PAG ISO 46	160
S-Class (W140) –> VIN 1A 128 374 R	07/1991–99	R134a	1150	A001 989 08 03	PAO 68 or PAG ISO 46	160
with air conditioning system at rear –> VIN 1A 128 374 R	07/1991–99	R134a	1250	A001 989 08 03	PAO 68 or PAG ISO 46	160
S-Class (W220)	10/1998–06	R134a	950	PAG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	10/1998–06	R134a	1050	PAG	PAO 68 or PAG ISO 46	120
S-Class Coupe (C215) CL500/600	2002–07	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	120
S-Class Coupe (C216)	2007–14	R134a	1050	PAG	PAO 68 or PAG ISO 46	125
S-Class Coupe/Cabriolet (217)	2014–	R134a	660	PAG	PAO 68 or PAG ISO 46	120



<b>Mercedes-Benz</b>						
S-Class Coupe/Cabriolet (217)	2016–	R1234yf	640	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	110
S-Class Coupe/Cabriolet (217)	2016–	R744	420	A000 989 21 00	n/a	100
S-Class (W221)	2006–13	R134a	1070	A001 989 08 03	PAO 68 or PAG ISO 46	110
with air conditioning system at rear	2006–13	R134a	1180	A001 989 08 03	PAO 68 or PAG ISO 46	120
S-Class (222)	2013–	R134a	660	A001 989 08 03	PAO 68 or PAG ISO 46	120
with air conditioning system at rear		R134a	770	A001 989 08 03	PAO 68 or PAG ISO 46	130
S-Class (222) Hybrid 20 kW	2013–	R134a	770	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear		R134a	870	A000 989 06 06 09	PAO 68 AA1	130
S-Class (222) Hybrid 85 kW	2013–	R134a	710	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear		R134a	820	A000 989 06 06 09	PAO 68 AA1	130
S-Class (222) S300/S400 Hybrid	2013–	R134a	770	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear	2013–	R134a	870	A000 989 06 06 09	PAO 68 AA1	120
S-Class (222) S500 Hybrid	2013–	R134a	710	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear	2013–	R134a	820	A000 989 06 06 09	PAO 68 AA1	120



## Mercedes-Benz

S-Class (222)	2016–	R1234yf	640	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	110
with air conditioning system at rear	2016–	R1234yf	740	A000 989 06 06 09	PAO 68 AA1 or PAG ISO 46 YF	110
S-Class (222) S300/S400 Hybrid	2016–	R1234yf	730	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear	2016–	R1234yf	850	A000 989 06 06 09	PAO 68 AA1	120
S-Class (222) S500 Hybrid	2016–	R1234yf	670	A000 989 06 06 09	PAO 68 AA1	120
with air conditioning system at rear	2016–	R1234yf	800	A000 989 06 06 09	PAO 68 AA1	120
S-Class	2016–	R744	420	A000 989 21 00	n/a	100
with air conditioning system at rear	2016–	R744	450	A000 989 21 00	n/a	100
SLK (R170)	1996–04	R134a	850	A001 989 08 03	PAO 68 or PAG ISO 46	120
SLK (R171)	2004–11	R134a	670	A001 989 08 03	PAO 68 or PAG ISO 46	120
SLK (172)	2011–	R134a	550	PAG	PAO 68 or PAG ISO 46	120
SL (R129)	1991–02	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	140–150
SL (R230)	10/2001–11	R134a	920	PAG	PAO 68 or PAG ISO 46	120
SL (231)	01/2012–	R134a	550	PAG	PAO 68 or PAG ISO 46	120



<b>Mercedes-Benz</b>						
Sprinter	01/1995–05	R134a	860	PAG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear (HH7)	01/1995–05	R134a	1300	PAG	PAO 68 or PAG ISO 46	175
Sprinter (906)	2006–	R134a	800	PAG	PAO 68 or PAG ISO 46	190
with air conditioning system at rear (HH7)	2006–	R134a	1190	PAG	PAO 68 or PAG ISO 46	190
Sprinter (906) with high-performance air conditioning (H08)	2006–	R134a	1000	PAG	PAO 68 or PAG ISO 46	160
Vaneo (414)	2002–06	R134a	600	PAG	PAO 68 or PAG ISO 46	100
Vito (638)/V-Class (638/2) compressor: Denso 7SB16	02/1996–03	R134a	850	PAG	PAO 68 or PAG ISO 46	175
Denso 7SB16 with air conditioning system at rear	02/1996–03	R134a	1100	PAG	PAO 68 or PAG ISO 46	175
compressor: Denso 10PA17C	02/1996–03	R134a	920	PAG	PAO 68 or PAG ISO 46	120
compressor: Sanden SD7V16	02/1996–03	R134a	850	PAG	PAO 68 or PAG ISO 46	135
Vito/Viano (W639)	2003–14	R134a	550	PAG	PAO 68 or PAG ISO 46	190
Vito/Viano (W639) with air conditioning system at rear	2003–14	R134a	840	A001 989 08 03	PAO 68 or PAG ISO 46	190
long wheelbase and air conditioning system at rear	2003–14	R134a	870	A001 989 08 03	PAO 68 or PAG ISO 46	190
Vito/V-Class (447)	2014–	R134a	600	A001 989 08 03	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	2014–	R134a	950	A001 989 08 03	PAO 68 or PAG ISO 46	180





<b>Mitsubishi</b>						
3000 GT	1993–00	R134a	740–790	Sunpag 56	PAO 68 or PAG ISO 46	140–180
ASX	2008–	R134a	500	Sunpag 56	PAO 68 or PAG ISO 46	n/a
ASX	2010–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Carisma	1996–00	R134a	680–720	Sunpag 56	PAO 68 or PAG ISO 46	120
Carisma diesel	1997–00	R134a	680–720	SP 20	PAO 68 or PAG ISO 100	135
Colt/Lancer	1992–96	R134a	570–610	Sunpag 56	PAO 68 or PAG ISO 46	120
Colt/Lancer (CK/P) 1.3 i/1.6 i	1996–03	R134a	555–595	Sunpag 56	PAO 68 or PAG ISO 46	60
Colt (Z2/CZ/Z30)	2004–	R134a	430	ND8	PAO 68 or PAG ISO 46	100
Colt (CZC) 1.5 i/1.5 Turbo	2006–	R134a	430	PAG 46	PAO 68 AA1 or PAG ISO 46	100
Eclipse (D3)	1996–05	R134a	630–670	Sunpag 56	PAO 68 or PAG ISO 46	170–190
Eclipse Cross 1.5 i	2017–	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	80
Galant	1993–97	R134a	630–670	Sunpag 56	PAO 68 or PAG ISO 46	150–160
Galant	1997–00	R134a	670–710	Sunpag 56	PAO 68 or PAG ISO 46	120
Galoper	08/1998–02	R134a	760–800	PAG FD46XG	PAO 68 or PAG ISO 46	170–190
with air conditioning system at rear	08/1998–02	R134a	1150–1200	PAG FD46XG	PAO 68 or PAG ISO 46	170–190



Mitsubishi						
Grandis	2004–10	R134a	535–585	Sunpag 56	PAO 68 or PAG ISO 46	160–180
with air conditioning system at rear	2004–10	R134a	725–775	Sunpag 56	PAO 68 or PAG ISO 46	160–180
i-MiEV	2010–	R134a	325	ND11	POE	150
L200	1994–97	R134a	700–740	ND8	PAO 68 or PAG ISO 46	100
L200 2.4 i/2.5 D/2.5 D Turbo	1997–06	R134a	550–600	ZXL100PG	PAO 68 or PAG ISO 46	180
L200 2.5 D DI	2006–	R134a	555	ZXL100PG	PAO 68 or PAG ISO 46	130
L200	2015–	R134a	520	PAG 100	PAO 68 AA1 or PAG ISO 100	150
L300	1994–04	R134a	700–750	PAG	PAO 68	n/a
with air conditioning system at rear	1994–04	R134a	1200–1250	PAG	PAO 68	n/a
L400	1996–05	R134a	650	ZXL100PG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	1996–05	R134a	950	Sunpag 56	PAO 68 or PAG ISO 46	240
Lancer estate	12/1993–97	R134a	700	Sunpag 56	PAO 68 or PAG ISO 46	120–140
Lancer 1.3 i/1.6 i	2003–08	R134a	480–520	Sunpag 56	PAO 68 or PAG ISO 46	140
Lancer 2.0 i/EVO VIII	2003–08	R134a	480–520	Sunpag 56	PAO 68 or PAG ISO 46	120
Lancer (CX/CY)	2008–	R134a	500	Sunpag 56	PAO 68 or PAG ISO 46	n/a



<b>Mitsubishi</b>						
Outlander	2003–07	R134a	530–570	Sunpag 56	PAO 68 or PAG ISO 46	120
Outlander II (CW/W)	02/2007–12	R134a	500	ND8	PAO 68 or PAG ISO 46	100
Outlander III (GG/GF)	08/2012–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Outlander III (GG/GF) Hybrid	08/2012–	R134a	590	POE MA68EV	PAO 68 AA1	100
Pajero/Shogun	1994–03/00	R134a	600–650	ND8	PAO 68 or PAG ISO 46	80
with air conditioning system at rear	1994–03/00	R134a	1000–1050	ND8	PAO 68 or PAG ISO 46	150
Pajero/Shogun	04/2000–07	R134a	480–520	ND8	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	04/2000–03	R134a	770–810	ND8	PAO 68 or PAG ISO 46	140
Pajero/Shogun Sport	2000–07	R134a	600–650	Sunpag 56	PAO 68 or PAG ISO 46	170
Pajero/Shogun Pinin left-hand drive	1999–05	R134a	600–640	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Pajero/Shogun Pinin right-hand drive	1999–05	R134a	550–590	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Pajero IV (V80)	02/2007–	R134a	550	ZXL100PG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	02/2007–	R134a	870	ZXL100PG	PAO 68 or PAG ISO 46	n/a
Santamo	1999–06	R134a	730	PAG FD46XG	PAO 68 or PAG ISO 46	210
Sigma	1990–96	R134a	740–790	PAG	PAO 68	n/a



<b>Mitsubishi</b>						
Space Gear	1995–05	R134a	650	ZXL100PG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	1995–05	R134a	950–1000	Sunpag 56	PAO 68 or PAG ISO 46	240
Space Runner/Wagon Denso compressor: 10PA15	06/1993–98	R134a	720	ND8	PAO 68 or PAG ISO 46	140
Space Runner/Wagon Denso compressor: 10PA17	06/1993–98	R134a	720	ND8	PAO 68 or PAG ISO 46	180
Space Runner/Wagon	1999–12/99	R134a	550	ND8	PAO 68 or PAG ISO 46	80
Space Runner/Wagon 2.0 diesel	12/1993–98	R134a	720	ND8	PAO 68 or PAG ISO 46	100–140
Space Runner (N50)	08/1999–04	R134a	500–600	PAG	PAO 68	n/a
Space Star	1998–05	R134a	660–700	Sunpag 56	PAO 68 or PAG ISO 46	120
<b>Nissan</b>						
200SX (S14)	1994–03	R134a	600–800	Nissan Type R	PAO 68 or PAG ISO 100	200
300ZX (Z32)	1994–09/95	R134a	550–650	KLHOO-PAGSO	PAO 68 or PAG ISO 46	200
350Z (Z33)	2003–09	R134a	550	DH-PS	PAO 68 AA1 or PAG ISO 46	180
370Z (Z34)	2009–	R134a	500	DH-PS	PAO 68 or PAG ISO 46	150
Almera (N15) right-hand drive – Calsonic compressor	1995–00	R134a	450–550	Nissan Type R	PAO 68 or PAG ISO 100	180
right-hand drive – Zexel compressor	1995–00	R134a	450–550	Nissan Type R	PAO 68 or PAG ISO 100	200



<b>Nissan</b>						
Almera (N15) left-hand drive – Calsonic compressor	1995–00	R134a	600–700	Nissan Type R	PAO 68 or PAG ISO 100	180
left-hand drive – Zexel compressor	1995–00	R134a	600–700	Nissan Type R	PAO 68 or PAG ISO 100	200
Almera (N16)	07/2000–06	R134a	450–550	PAG	PAO 68 or PAG ISO 46	200
Almera Tino V10	08/2000–06	R134a	450–550	PAG	PAO 68 or PAG ISO 46	200
Cabstar (F23)	06/1994–00	R134a	600–700	KLHOO-PAGSO	PAO 68 or PAG ISO 46	250
Cabstar 3.0 Di (TLO)	2004–07	R134a	750	PAG	PAO 68 or PAG ISO 46	250–270
Cabstar (F24) 2.5 D/3.0 D	2006–	R134a	300	KLHOO-PAGSO	PAO 68 or PAG ISO 46	150
Cube (Z12) 1.5 dCi	2009–	R134a	450	DH-PS	PAO 68 AA1 or PAG ISO 46	135
Cube (Z12) 1.6 i	2009–	R134a	450	DH-PR	PAO 68 AA1 or PAG ISO 100	120
Evalia	2010–	R134a	450	DH-PR	PAO 68 AA1 or PAG ISO 100	150
with air conditioning system at rear	2010–	R134a	650	DH-PR	PAO 68 AA1 or PAG ISO 100	250
Evalia	2016–	R1234yf	450	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	150
with air conditioning system at rear	2016–	R1234yf	650	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	250
e-Evalia	2016–	R1234yf	450	ND11	POE	140
Interstar (X70) 1.9 D/2.2 D/2.5 D/3.0 D	2003–06	R134a	820–880	PAG	PAO 68	150



<b>Nissan</b>						
7-seater, with air conditioning system at rear	2003–06	R134a	1300	PAG	PAO 68	170
16-seater, with air conditioning system at rear	2003–06	R134a	1400	PAG	PAO 68	170
Interstar (X70) 2.5 D dCi	2006–	R134a	750	PAG	PAO 68 or PAG ISO 150	220
Interstar (X70) 2.5 D dCi 9-seater with air conditioning system at rear	2006–	R134a	1300	PAG	PAO 68 or PAG ISO 150	240
Interstar (X70) 2.5 D dCi 16-seater with air conditioning system at rear	2006–	R134a	1400	PAG	PAO 68 or PAG ISO 150	240
Juke	2010–	R134a	450	DH-PR	PAO 68 or PAG ISO 100	130
Kubistar (X76) 1.2 i/1.2 i 16 V/1.5 D dCi/1.6 i	2003–08	R134a	640–680	SP 10	PAO 68 or PAG ISO 46	135
Leaf	2010–	R134a	400	ND11	POE	150
Leaf (ZE1)	2018–	R1234yf	425	POE	PAO 68 AA1	150
with heat pump	2018–	R1234yf	850	POE	PAO 68 AA1	170
Maxima QX (A32)	1994–00	R134a	600–700	Nissan Type S	PAO 68 or PAG ISO 46	250
Maxima QX (A33) 2.0 V6/3.0 V6	03/2000–04	R134a	600–700	KLH00-PAGSO	PAO 68 or PAG ISO 46	200
Micra (K11)	04/1994–00	R134a	425–475	Nissan Type R	PAO 68 or PAG ISO 100	200
Micra (K11)	2000–03	R134a	475–525	PAG	PAO 68 or PAG ISO 46	200
Micra (K12) 1.0 i/1.2 i/1.4 i	2003–	R134a	450–500	KLH00-PAGRO	PAO 68 or PAG ISO 100	n/a



<b>Nissan</b>						
Micra (K12) 1.5 dCi	2003–	R134a	500–600	KLHOO-PAGRO	PAO 68 or PAG ISO 100	135
Micra (K12) 1.6 i	2005–	R134a	550	PAG	PAO 68 or PAG ISO 100	120
Micra (K13) 1.2 i	2010–	R134a	400	DH-PR	PAO 68 or PAG ISO 100	120
Micra (K14) 0.9 i/1.0 IGT/1.0 DIG-T	2017–	R1234yf	430	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	110
Micra (K14) 1.5 dCi CR12S compressor	2017–	R1234yf	430	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	140
Micra C+C (K12) 1.4 i	2005–	R134a	500	PAG	PAO 68 or PAG ISO 100	80
Micra C+C (K12) 1.6 i	2005–	R134a	450	PAG	PAO 68 or PAG ISO 100	120
Murano 3.5 i	2005–08	R134a	525	KLHOO-PAGSO	PAO 68 or PAG ISO 46	150
Murano (Z51) 3.5 i/2.5 D dCi	2008–	R134a	600	KHLOO-PAGSO	PAO 68 or PAG ISO 46	150
Navara (D40) 2.5 dCi with manual air conditioning system	2005–	R134a	1080	PAG	PAO 68 or PAG ISO 46	280
Navara (D40) 2.5 dCi with automatic air conditioning system	2005–	R134a	700	PAG	PAO 68 or PAG ISO 46	180
Navara (D40) 2.5 dCi with air conditioning system at rear	2005–	R134a	800	PAG	PAO 68 or PAG ISO 46	210
Note 1.4 i	2007–06/13	R134a	450–500	PAG	PAO 68 or PAG ISO 100	80
Note 1.6 i	2006–06/13	R134a	475	PAG	PAO 68 or PAG ISO 100	120
Note 1.5 D dCi	2006–06/13	R134a	550	PAG	PAO 68 or PAG ISO 100	135



<b>Nissan</b>						
Note (E12) 1.2 i	2013–	R134a	400	YR20	PAO 68 AA1	120
Note (E12) 1.2 i	2013–	R1234yf	400	YR20	PAO 68 AA1	120
Note (E12) 1.5 dCi	2013–	R134a	400	YR20	PAO 68 AA1	150
Note (E12) 1.5 dCi	2013–	R1234yf	400	YR20	PAO 68 AA1	150
NV200 (M20) 1.6 i	2010–	R134a	450	DH-PR	PAO 68 or PAG ISO 100	120
with air conditioning system at rear	2010–	R134a	650	DH-PR	PAO 68 or PAG ISO 100	220
NV200 (M20) 1.5 D dCi	2010–	R134a	450	DH-PS	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	2010–	R134a	650	DH-PS	PAO 68 or PAG ISO 46	235
NV300 (X82)	2016–	R134a	590	PAG 46	PAO 68 AA1 or PAG ISO 46	120
with air conditioning system at rear	2016–	R134a	880	PAG 46	PAO 68 AA1 or PAG ISO 46	230
NV400	2011–	R134a	580	PAG	PAO 68 or PAG ISO 46	120
Pathfinder (R51) 4.0 i/2.5 D dCi	2004–	R134a	700	KLHOO-PAGSO	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	2004–	R134a	850	KLHOO-PAGSO	PAO 68 or PAG ISO 46	180
Patrol GR (Y60)	07/1994–98	R134a	550–650	Nissan Type S	PAO 68 or PAG ISO 46	200
Patrol (Y61) 2.8 D/3.0 D	1998–08	R134a	750–850	Nissan Type S	PAO 68 or PAG ISO 46	300





<b>Nissan</b>						
Pick-up (D21)	03/1992–98	R134a	750–850	Nissan Type R	PAO 68 or PAG ISO 100	200
Pick-up (D22)	1998–02	R134a	500–600	Nissan Type R	PAO 68 or PAG ISO 100	200
Pick-up/Navara (D22) 2.5 Di	2002–07	R134a	550–650	KLHOO-PAGSO	PAO 68 or PAG ISO 46	200
Pick-up/Navara (D22) 2.4 i	2002–07	R134a	600–700	KLHOO-PAGRO	PAO 68 or PAG ISO 100	200
Pixo	2009–	R134a	375	PAG	PAO 68 or PAG ISO 100	65
Primera (P10)	09/1993–96	R134a	700–800	Nissan Type R	PAO 68 or PAG ISO 100	200
Primera (W10) – Calsonic compressor	09/1993–05/96	R134a	550–650	KLHOO-PAGRO	PAO 68 or PAG ISO 100	180
Zexel compressor	09/1993–05/96	R134a	550–650	Nissan Type R	PAO 68 or PAG ISO 100	200
Primera (P11)	1996–99	R134a	550–650	Nissan Type R	PAO 68 or PAG ISO 100	180
Primera 1.6/2.0 D Turbo (P11-144)	1999–02	R134a	550–650	Nissan Type R	PAO 68 or PAG ISO 100	180
Primera 1.8/2.0 (P11-144)	1999–02	R134a	550–650	Nissan Type S	PAO 68 or PAG ISO 46	200
Primera (P12)	07/2002–07	R134a	500	KLH00-PAGSO	PAO 68 or PAG ISO 46	180
Primastar (X83) 1.9 D dCi	2002–06	R134a	700	Planetelf 488	PAO 68 or PAG ISO 150	220
Primastar 2.0 i/2.0 D dCi/2.5 D dCi	2006–	R134a	750	PAG	PAO 68 or PAG ISO 150	220
with air conditioning system at rear	2006–	R134a	1050	PAG	PAO 68 or PAG ISO 150	240



<b>Nissan</b>						
Pulsar	2014–	R1234yf	450	ND12	PAO 68 AA1 or PAG YF	150
Qashqai/Qashqai +2	2007–11/13	R134a	450	SDH-PS	PAO 68 or PAG ISO 46	150
Qashqai (J11)	2014–	R1234yf	500	ND12	PAO 68 AA1 or PAG YF	110
QX	1994–00	R134a	650	PAG 46	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo right-hand drive	1992–06/96	R134a	600–700	Nissan Type S	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	1992–06/96	R134a	725–825	Nissan Type S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo left-hand drive	1992–06/96	R134a	625–725	Nissan Type S	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	1992–06/96	R134a	675–775	Nissan Type S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo right-hand drive	07/1996–03	R134a	550–650	Nissan Type S	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	07/1996–03	R134a	675–775	Nissan Type S	PAO 68 or PAG ISO 46	250
Serena/Vanette Cargo left-hand drive	07/1996–03	R134a	575–675	Nissan Type S	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	07/1996–03	R134a	625–725	Nissan Type S	PAO 68 or PAG ISO 46	250
Sunny (N14/B13)	10/1992–95	R134a	700–800	Nissan Type R	PAO 68 or PAG ISO 100	200
Sunny estate/panel van (Y10)	09/1992–03/94	R134a	700–800	Nissan Type R	PAO 68 or PAG ISO 100	200
Sunny estate/panel van (Y10)	04/1994–96	R134a	650–750	KLHOO-PAGRO	PAO 68 or PAG ISO 100	180–200



<b>Nissan</b>						
Terrano II (R20)	1993–08	R134a	700–800	Nissan Type R	PAO 68 or PAG ISO 100	200
Tiida 1.6 i/1.8 i	2007–	R134a	450	DH-PR	PAO 68 or PAG ISO 100	120
Tiida 1.5 D dCi	2007–	R134a	450	DH-PS	PAO 68 or PAG ISO 46	100
Urvan (E24)	07/1994–96	R134a	900–1000	KLHOO-PAGSO	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	07/1994–96	R134a	1150–1250	KLHOO-PAGSO	PAO 68 or PAG ISO 46	250
Vanette Cargo (C23H) 2.3 D	07/1996–01	R134a	600	KLHOO-PAGSO	PAO 68 or PAG ISO 46	250
with air conditioning system at rear	07/1996–01	R134a	700	KLHOO-PAGSO	PAO 68 or PAG ISO 46	250
X-Trail 2.0 i/2.5 i/2.2 Di/2.2 D dCi	2001–07	R134a	500	KLHOO-PAGSO/ Nissan Type S	PAO 68 or PAG ISO 46	180
X-Trail (T31) 2.0 i/2.5 i/2.0 D dCi	2007–14	R134a	450	PAG	PAO 68 or PAG ISO 46	150
X-Trail (T32) 1.6 D dCi	2014–	R1234yf	500	ND12	PAO 68 AA1 or PAG ISO 46 YF	110
<b>Opel/Vauxhall</b>						
Adam	2013–	R134a	450	PAG 46	PAO 68 or PAG ISO 46	70
Agila (HOO) 1.1 i/1.2 i/1.3 D CDTi	2000–08	R134a	500	90510419	PAO 68 or PAG ISO 46	140–160
Agila 1.0 i/1.2 i	2008–	R134a	370	PAG	PAO 68 or PAG ISO 46	90



## Opel/Vauxhall

Agila 1.3 D CDTi	2008–	R134a	370	PAG	PAO 68 or PAG ISO 46	120
Ampera	2011–	R134a	950	POE	POE	180
Antara left-hand drive 2.0 D/2.2 D	2006–	R134a	520	PAG	PAO 68 or PAG ISO 150	150
Antara left-hand drive 2.4 i/3.0 i/3.2 i	2006–	R134a	660	PAG	PAO 68 or PAG ISO 150	150
Astra F	1991–94	R134a	700	90443840	PAO 68 or PAG ISO 150	295
Astra F	1994–98	R134a	900	90443840	PAO 68 or PAG ISO 150	295
Astra G engine: model year	1998–05					
Z16XE + YNG/Y17DT/Z17DTL/X20 + Y20DTL/Y20DTH + 22DTR/Z22SE	1998–01	R134a	700	90509933	PAO 68 or PAG ISO 46	120
Z16XE + YNG/Y17DT/Z17DTL/X20 + Y20DTL/Y20DTH + 22DTR/Z22SE	2002–05	R134a	600	90509933	PAO 68 or PAG ISO 46	120
Z20LET	2000–05	R134a	700	90509933	PAO 68 or PAG ISO 46	150
all other engines	1998–01	R134a	700	90509933	PAO 68 or PAG ISO 46	150
all other engines	2002–05	R134a	600	90509933	PAO 68 or PAG ISO 46	150
Astra H engine: model year	2004–09					
Z14XEL/Z14XEP/Z16XEP/Z18XE	2004–06	R134a	475	ND8	PAO 68 or PAG ISO 46	150
Z14XEL/Z14XEP/Z16XEP/Z18XE	2006–	R134a	450	ND8	PAO 68 or PAG ISO 46	150



## Opel/Vauxhall

Z20LEL	2004–09	R134a	500	ND8	PAO 68 or PAG ISO 46	150
Z20LER	2004–06	R134a	500	PAG	PAO 68 or PAG ISO 46	150
Z20LER	2006–	R134a	475	PAG	PAO 68 or PAG ISO 46	150
Z20LEH	2005–	R134a	450	PAG	PAO 68 or PAG ISO 46	150
Z17DTH/Z17DTL	2004–06	R134a	500	ND8	PAO 68 or PAG ISO 46	120
Z17DTH/Z17DTL	2006–	R134a	475	ND8	PAO 68 or PAG ISO 46	120
Z19DTH/Z19DT	2004–06	R134a	475	ND8	PAO 68 or PAG ISO 46	135
Z19DTH/Z19DT	2006–	R134a	450	ND8	PAO 68 or PAG ISO 46	135
Astra J engine:	2010–					
A14XER/A16XER/A13DTH/A17DTR	2010–15	R134a	600	PAG	PAO 68 or PAG ISO 46	125
A14NET/A16LET with manual transmission	2010–15	R134a	600	PAG	PAO 68 or PAG ISO 46	125
A14NET/A16LET with automatic transmission	2010–15	R134a	630	PAG	PAO 68 or PAG ISO 46	125
A20DTH	2010–15	R134a	630	PAG	PAO 68 or PAG ISO 46	125
Astra K	06/2015–	R1234yf	480	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	60
Calibra (7*)	1993–97	R134a	750	90443840	PAO 68 or PAG ISO 150	295



## Opel/Vauxhall

Calibra (8*)	1994–97	R134a	1000	90443840	PAO 68 or PAG ISO 150	295
Campo/Brava diesel	1994–03	R134a	750	PAG	PAO 68 or PAG ISO 46	260
Cascada engine: A14NET/A16XHT	2013–	R134a	600	PAG	PAO 68 or PAG ISO 46	125
Cascada engine: A20DTH/A20DTR	2013–	R134a	630	PAG	PAO 68 or PAG ISO 46	125
Combo C engine: model year	2001–					
Z13DT/Y17DT/Z17DTH	2001–	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Z14XEP/Z16SE/Z12XEP	2001–	R134a	650	90510419	PAO 68 or PAG ISO 46	150
Y17DTL	2001–03	R134a	650	90510419	PAO 68 or PAG ISO 46	120
Y17DTL	2004–	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Combo D (X12) with Sanden compressor SD6V12	2012–	R134a	450	SP 10	PAO 68 or PAG ISO 46	120
Combo D (X12) with Denso compressor SD6V12	2012–	R134a	450	ND8	PAO 68 or PAG ISO 46	80
Combo E (K9) condenser 19.3 dm <sup>3</sup> Valeo/Denso compressor	2018–	R134a	470	PAG	PAO 68 AA1	120
Combo E (K9) condenser 19.3 dm <sup>3</sup> Chongqing compressor	2018–	R134a	470	PAG	PAO 68 AA1	135
Combo E (K9) condenser 23.5 dm <sup>3</sup> Valeo/Denso compressor	2018–	R134a	600	PAG	PAO 68 AA1	120
Combo E (K9) condenser 23.5 dm <sup>3</sup> Chongqing compressor	2018–	R134a	600	PAG	PAO 68 AA1	135



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Combo E (K9) Valeo/Denso compressor	2018–	R1234yf	450	PAG YF	PAO 68 AA1	120
Combo E (K9) Chongqing compressor	2018–	R1234yf	450	PAG YF	PAO 68 AA1	135
Corsa B/Combo	1993–08/00	R134a	900	ND8	PAO 68 or PAG ISO 46	295
Corsa C engine:	09/2000–05					
Z10XE/Z10XEP/Z12XE/Z12XEP/Z14XE/Z14XEP/Z16SE/Z18XE	09/2000–07	R134a	650	90510419	PAO 68 or PAG ISO 46	150
Z13DT/Y17DT/Y17DTH	09/2000–07	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Y17DTL up to model year 2003	09/2000–03	R134a	650	90510419	PAO 68 or PAG ISO 46	120
Y17DTL from model year 2004	2003–07	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Corsa D	2007–	R134a	470	PAG	PAO 68 or PAG ISO 46	80
Corsa E	09/2014–	R134a	420	PAG	PAO 68 or PAG ISO 46	80
Corsa F (P2JO)	2018–	R134a	380	PAG	PAO 68 AA1	n/a
Corsa F (P2JO) Electric (03U)	2018–	R134a	985	POE	PAO 68 AA1	n/a
Corsa F (P2JO)	2018–	R1234yf	350	PAG YF	PAO 68 AA1	n/a
Corsa F (P2JO) Electric (03U)	2018–	R1234yf	945	POE	PAO 68 AA1	n/a
Cavalier/Vectra-A (7*)	1993–95	R134a	750	90443840	PAO 68 or PAG ISO 150	295



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Cavalier/Vectra-A (8*)	1994–95	R134a	1000	90443840	PAO 68 or PAG ISO 150	295
Crossland X	2017–	R1234yf	400	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	80
Crossland X with high-performance condenser	2017–	R1234yf	425	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	80
Frontera A	1991–02/95	R134a	800	PAG	PAO 68	200
Frontera A	03/1995–08/96	R134a	750	PAG	PAO 68	200
Frontera A diesel	03/1995–08/96	R134a	700	PAG	PAO 68	200
Frontera A	09/1996–09/98	R134a	650	PAG	PAO 68	200
Frontera B	10/1998–03	R134a	650	PAG	PAO 68	270
Grandland X	2017–	R134a	575	PAG 46	PAO 68 AA1 or PAG ISO 46	110
Grandland X condenser 19.3 dm <sup>3</sup>	2017–	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	110
Grandland X condenser 23 dm <sup>3</sup>	2017–	R1234yf	525	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	110
Insignia Sanden PXC14 compressor	2008–	R134a	600	PAG	PAO 68 or PAG ISO 46	80
Insignia Sanden PXE16/PXC16 compressor	2008–	R134a	600	PAG	PAO 68 or PAG ISO 46	110
with Delphi compressor	2008–	R134a	600	PAG	PAO 68 or PAG ISO 46	150
Karl	2015–	R1234yf	380	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	60





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Meriva Z13DT/Z17DT + DTL + DTH/Z14XEP/Z16SE/Z16 + Z18XE/Z16LET	2004–10	R134a	690	ND8	PAO 68 or PAG ISO 46	150
Meriva B	06/2010–	R134a	580	PAG	PAO 68 or PAG ISO 46	125
Mocca	2012–	R134a	570	PAG	PAO 68 or PAG ISO 46	75
Mocca	2013–	R1234yf	570	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	75
Monterey	1994–98	R134a	750	90510394	PAO 68 or PAG ISO 100	270
Monterey diesel	1994–98	R134a	750	90510395	PAO 68 or PAG ISO 46	270
Monterey 3.0 D Turbo/3.5 i	1998–01	R134a	750	PAG	PAO 68	150
Movano 2.5 D/2.8 D Turbo	1998–03	R134a	800–900	SP 20	PAO 68 or PAG ISO 100	135
Movano 1.9 D DTI/2.2 D DTI/2.5 D DTI	2000–03	R134a	820–880	PAG	PAO 68	n/a
Movano diesel (except Sanden compressor)	2003–06	R134a	820–880	Planetelf 488	PAO 68 or PAG ISO 150	220
7-seater, with air conditioning system at rear	2003–06	R134a	1300	Planetelf 488	PAO 68 or PAG ISO 150	220
16-seater, with air conditioning system at rear	2003–06	R134a	1400	Planetelf 488	PAO 68 or PAG ISO 150	220
Movano diesel Sanden compressor, without A/C at rear	2003–06	R134a	820–880	SP 10	PAO 68 or PAG ISO 46	135
Movano 2.5 D CDTi	2006–	R134a	750	PAG	PAO 68 or PAG ISO 150	220
9-seater, with air conditioning system at rear	2006–	R134a	1300	PAG	PAO 68 or PAG ISO 150	240



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16-seater, with air conditioning system at rear	2006–	R134a	1400	PAG	PAO 68 or PAG ISO 150	240
Movano B	2010–	R134a	600	PAG	PAO 68 or PAG ISO 46	120
Movano B with air conditioning system at rear + heating at rear	2010–	R134a	1700	PAG	PAO 68 or PAG ISO 46	180
Omega B	1994–03	R134a	950	90443840	PAO 68 or PAG ISO 150	250
Omega 2.0 diesel	1998–09/00	R134a	950	90445840	PAO 68 or PAG ISO 150	295
Omega 2.5 D Turbo	1994–03	R134a	950	ND8	PAO 68 or PAG ISO 46	155
Sintra	1996–99	R134a	910	90443840	PAO 68 or PAG ISO 150	265
Tigra	1995–03	R134a	900	ND8	PAO 68 or PAG ISO 46	295
Tigra B engine: Z14XEP/Z18XE	2004–10	R134a	650	90510419	PAO 68 or PAG ISO 46	150
engine: Z13DT	2004–10	R134a	560	90510419	PAO 68 or PAG ISO 46	120
Vectra B	1995–02	R134a	900–950	90443840	PAO 68 or PAG ISO 150	295
Vectra B 2.5	1995–00	R134a	900–950	ND8	PAO 68 or PAG ISO 46	120
Vectra 1.7 D Turbo	1995–96	R134a	900–950	ND8	PAO 68 or PAG ISO 46	155
Vectra 2.0 D Turbo – engine code X20DTH	1997–02	R134a	750	90443840	PAO 68 or PAG ISO 150	295



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Vectra C/Signum engine: model year	2002–08					
Z16XE/Z18XE/Z32SE/Z20NET/Z22SE/Z22YH/Y20DTH/Y22DTR	2002–08	R134a	730	90509933	PAO 68 or PAG ISO 46	120
Z19DT/Z19DTH	2002–08	R134a	730	90509933	PAO 68 or PAG ISO 46	135
Y30DT	2002–05	R134a	680	90509933	PAO 68 or PAG ISO 46	120
Vivaro 1.9 D Di/1.9 D DTi/2.0 i/2.5 D CDTi	2001–12	R134a	700–750	Planet 488	PAO 68 or PAG ISO 150	220
with air conditioning system at rear	2001–12	R134a	1100	Planet 488	PAO 68 or PAG ISO 150	235
Vivaro 2.0 CDTi	2006–	R134a	650	PAG	PAO 68 or PAG ISO 46	220
with air conditioning system at rear	2006–	R134a	950	PAG	PAO 68 or PAG ISO 46	235
Vivaro (K0/KR)	2019–	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	n/a
Zafira (F75) up to model year 2001	1998–01	R134a	700	90509933	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	1998–01	R134a	950	90509933	PAO 68 or PAG ISO 46	240
Zafira (F75) from model year 2002	2002–05	R134a	600	90509933	PAO 68 or PAG ISO 46	120
with air conditioning system at rear		R134a	725	90509933	PAO 68 or PAG ISO 46	240
Zafira (F75) from model year 2002 engine: Z20LET	2002–05	R134a	700	90509933	PAO 68 or PAG ISO 46	120
with air conditioning system at rear		R134a	800	90509933	PAO 68 or PAG ISO 46	240



<b>Opel/Vauxhall</b>						
Zafira B engine: model year	2006–					
Z16XEP/Z18XER/Z22YH/Z16XE1	2006–	R134a	450	SP 10	PAO 68 or PAG ISO 46	120
Z19DT/Z19DTL/Z19DTH/Z13DTH	2006–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
Z20LER/Z20LEH/Z20LEL	2006–	R134a	450	SP 10	PAO 68 or PAG ISO 46	150
Zafira C (P12)	2011–	R134a	630	PAG	PAO 68 or PAG ISO 46	125
Zafira C (P12) with engine: A18XER/A18XFR/A18XEL	2011–	R134a	600	PAG	PAO 68 or PAG ISO 46	125
Zafira Life (K0)	2019–	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	n/a
Zafira-e Life (eK0) condenser 19.3 dm <sup>3</sup> /12 mm	2019–	R1234yf	525	POE	PAO 68 AA1	n/a
Zafira-e Life (eK0) condenser 23.5 dm <sup>3</sup> /16 mm	2019–	R1234yf	850	POE	PAO 68 AA1	n/a
<b>Perodua</b>						
Myvi 1.3 i	2006–	R134a	330	ND8	PAO 68 or PAG ISO 46	n/a
<b>Peugeot</b>						
106 – Sanden compressor SD7H13/15	1994–04/96	R134a	850–900	SP 20	PAO 68 or PAG ISO 100	135
Sanden compressor SD7V12/16	1994–04/96	R134a	850–900	SP 10	PAO 68 or PAG ISO 46	135



## Peugeot

106 II	05/1996–03	R134a	815–835	SP 10	PAO 68 or PAG ISO 46	120–150
106 II diesel/1.6 GTI	05/1996–03	R134a	750	SP 10	PAO 68 or PAG ISO 46	120–150
107 1.4 HDi	2005–12	R134a	480–520	ZXL200PG	PAO 68 or PAG ISO 100	80
107 1.0 i	2005–12	R134a	450	ZXL200PG	PAO 68 or PAG ISO 100	80
205	1993–98	R134a	675	SP 20	PAO 68 or PAG ISO 100	120–150
206	1998–07	R134a	680–720	SP 10	PAO 68 or PAG ISO 46	120–150
206 2.0 i/1.6 D HDi	04/1999–07	R134a	650	PAG	PAO 68 or PAG ISO 46	120–150
206 CC 1.6 i	2000–07	R134a	680–720	SP 10	PAO 68 or PAG ISO 46	120–150
206 CC 2.0 i/1.6 D HDi	2000–07	R134a	630–670	SP 10	PAO 68 or PAG ISO 46	120–150
206+ (T3E) 1.4 i	2009–	R134a	700	SP 10	PAO 68 or PAG ISO 46	135
207 1.4 i/1.6 i/1.4 D HDi/1.6 D HDi/1.4 + 1.6 VTi	2006–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
207 CC 1.6 THP/1.6 VTi/1.6 D HDi	2007–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
307 1.4 i/1.6 i/2.0 i/1.4 HDi/2.0 HDi up to ORGA no. 10080 (i)	2001–06/04	R134a	585	SP 10	PAO 68 or PAG ISO 46	135
307/307 CC 1.4 i/1.6 i/2.0 i/1.4 HDi/2.0 HDi up to ORGA no. 10080 (i)	06/2004–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
307 1.6 HDi up to ORGA no. 10218 (i)	2004–11/04	R134a	585	SP 10	PAO 68 or PAG ISO 46	135



## Peugeot

307/307 CC 1.6 HDi from ORGA no. 10218 (i)	11/2004–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
307 1.4 i 16 V	2004–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
306 Sanden compressor SD7H	1993–97	R134a	875–925	SP 20	PAO 68 or PAG ISO 100	120–150
306 Sanden compressor SD7V	1993–97	R134a	875–925	SP 10	PAO 68 or PAG ISO 46	120–150
306	1997–03	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	120–150
308/308 CC 1.4 VTi/1.6 VTi/1.6 THP	2007–14	R134a	450	ND8	PAO 68 or PAG ISO 46	80
308/308 CC 1.6 HDi/2.0 HDi	2007–14	R134a	450	ND8	PAO 68 or PAG ISO 46	135
308 II	2014–	R1234yf	450	SPA2	PAO 68 AA1 or PAG ISO 46 YF	100
405 II Sanden compressor SD7H13/15	1993–97	R134a	675	SP 20	PAO 68 or PAG ISO 100	120–150
Sanden compressor SD7V12/16	1993–97	R134a	675	SP 10	PAO 68 or PAG ISO 46	120–150
406 – Delphi compressor	1995–99	R134a	750	Planetelf PAG 488	PAO 68 or PAG ISO 150	250–280
Sanden compressor	1995–99	R134a	780–820	SP 10	PAO 68 or PAG ISO 46	120–150
406 V6	1997–99	R134a	750	SP 10	PAO 68 or PAG ISO 46	120–150
406 1.6/1.8/2.0 – engine code XU	1999–04	R134a	775	SP 10	PAO 68 or PAG ISO 46	120–150
406 2.0 – engine code EW10	1999–04	R134a	620	SP 10	PAO 68 or PAG ISO 46	120–150



## Peugeot

406 3.0 i	1999–04	R134a	750	SP 10	PAO 68 or PAG ISO 46	120–150
406 2.2 HDi	1999–04	R134a	620	UCON RL 488	PAO 68 or PAG ISO 150	250–280
407 1.8 i/2.0 i/2.2 i/3.0 i/1.6 HDi/2.0 HDi	2004–12	R134a	600–650	SP 10	PAO 68 or PAG ISO 46	135
407 2.2 HDi/2.7 HDi/3.0 HDi	2004–12	R134a	525	SP 10	PAO 68 or PAG ISO 46	135
508	2011–13	R134a	525	SP 10	PAO 68 or PAG ISO 46	135
605 2.5 D Turbo	1995–09/99	R134a	850	SP 10	PAO 68 or PAG ISO 46	120–150
605 V6 – engine code ESJ	1997–09/99	R134a	875	SP 10	PAO 68 or PAG ISO 46	120–150
605 – Sanden compressor SD7H13/15	1994–99	R134a	885	SP 20	PAO 68 or PAG ISO 100	120–150
Sanden compressor SD7V12/16	1994–99	R134a	885	SP 10	PAO 68 or PAG ISO 46	120–150
607	2000–05	R134a	625	PAG	PAO 68 or PAG ISO 46	120–150
607 (Facelift)	2005–	R134a	525–575	SP 10	PAO 68 or PAG ISO 46	135
607 (Facelift) 2.7 HDi (DT17)	2005–	R134a	575–625	SP 10	PAO 68 or PAG ISO 46	135
806	06/1994–07/02	R134a	940–980	SP 10	PAO 68 or PAG ISO 46	120–150
807 2.0 i/2.2 i/3.0 i/2.2 D HDi	2002–10	R134a	640	SP 10	PAO 68 or PAG ISO 46	135
807 2.0 D HDi	2002–10	R134a	540	SP 10	PAO 68 or PAG ISO 46	135



## Peugeot

1007	2005–	R134a	580–620	SP 10	PAO 68 or PAG ISO 46	135
3008 (1.6 HDi/2.0 HDi)	2009–10/13	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
3008 (1.6 THP/1.6 VTi)	2009–10/13	R134a	450	SP 10	PAO 68 or PAG ISO 46	120
4007	2007–	R134a	500	PAG	PAO 68	90
5008 (1.6 THP/1.6 VTi)	2009–10/13	R134a	450	SP 10	PAO 68 or PAG ISO 46	120
5008 (1.6 HDi/2.0 HDi)	2009–10/13	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
Expert	1995–07	R134a	940–980	SP 10	PAO 68 or PAG ISO 46	120–150
Expert 2.0 i/1.6 HDi/2.0 HDi	05/2007–	R134a	675	SP 10	PAO 68 or PAG ISO 46	135
with air conditioning system at rear, short wheelbase	05/2007–	R134a	950	SP 10	PAO 68 or PAG ISO 46	160
with air conditioning system at rear, long wheelbase	05/2007–	R134a	1075	SP 10	PAO 68 or PAG ISO 46	160
Boxer	1994–09/96	R134a	950–1050	SP 20	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	1994–09/96	R134a	1150–1250	SP 20	PAO 68 or PAG ISO 100	135
Boxer	10/1996–03/02	R134a	750–850	SP 20	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	10/1996–03/02	R134a	950–1050	SP 20	PAO 68 or PAG ISO 100	135
Boxer II (244)	04/2002–06	R134a	750–850	SP 20	PAO 68 or PAG ISO 100	135





## Peugeot

Boxer III 2.2 HDi/3.0 HDi	04/2006–	R134a	550	SP 10	PAO 68 or PAG ISO 46	200
with air conditioning system at rear	04/2006–	R134a	950	SP 10	PAO 68 or PAG ISO 46	220
iOn	2010–	R134a	325	ND11	PAO 68 AA1	150
Partner 1.1/1.4/1.6 carburetor	1996–00	R134a	850–900	SP 20	PAO 68 or PAG ISO 100	135
Partner 1.1 i/1.4 i/1.6 i	1996–05	R134a	850–900	SP 10	PAO 68 or PAG ISO 46	135
Partner 1.8 i/1.8 D/1.9 D (XUD)/2.0 HDi	1996–05	R134a	700–750	SP 10	PAO 68 or PAG ISO 46	135
Partner 1.9 D (DW8)	1996–05	R134a	750–800	SP 10	PAO 68 or PAG ISO 46	135
Partner Facelift	2005–08	R134a	550–600	SP 10	PAO 68 or PAG ISO 46	135
Partner III 1.6 i/1.6 HDi	2008–	R134a	450	SP 10	PAO 68 or PAG ISO 46	135
RCZ 1.6 THP/2.0 HDi	2010–	R134a	425	PAG	PAO 68 or PAG ISO 46	n/a
<b>Porsche</b>						
718 (982)	2016–	R1234yf	835	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
911 (993)	1993–08/97	R134a	840	ND8	PAO 68 or PAG ISO 46	80–120
911 (996)	1998–05	R134a	900	PAG 46	PAO 68 or PAG ISO 46	180–210
911 (997)	07/2004–12/11	R134a	850	ND8	PAO 68 or PAG ISO 46	195



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968	1993–96	R134a	860	PAG	PAO 68	100–140
Boxster (986)	1996–11/04	R134a	850	PAG 46	PAO 68 or PAG ISO 46	180–210
Boxster (987)	12/2004–12/11	R134a	850	ND8	PAO 68 or PAG ISO 46	195
Boxster (981)	04/2012–	R134a	850	ND8	PAO 68 or PAG ISO 46	150
Carrera GT 5.7	2003–07	R134a	600	PAG 46	PAO 68 or PAG ISO 46	140
Cayenne (955)	2002–10	R134a	700	PAG 46	PAO 68 or PAG ISO 46	175
with air conditioning system at rear	2002–10	R134a	1050	PAG 46	PAO 68 or PAG ISO 46	240
Cayenne	06/2010–	R134a	850	ND8	PAO 68 or PAG ISO 46	160
with air conditioning system at rear	06/2010–	R134a	1100	ND8	PAO 68 or PAG ISO 46	230
Cayenne (9YA) 2.9 S/3.0 i/4.0 i Turbo	2017–	R134a	700	ND 8	PAO 68 AA1 or PAG ISO 46	110
with air conditioning system at rear	2017–	R134a	850	ND 8	PAO 68 AA1 or PAG ISO 46	140
Cayenne (9YA) 2.9 S/3.0 i/4.0 i Turbo	2017–	R1234yf	680	ND 12	PAO 68 AA1 or PAG ISO 46 YF	110
with air conditioning system at rear	2017–	R1234yf	850	ND 12	PAO 68 AA1 or PAG ISO 46 YF	140
Cayman (987)	11/2005–13	R134a	850	ND8	PAO 68 or PAG ISO 46	195
Cayman (981)	03/2013–	R134a	850	ND8	PAO 68 or PAG ISO 46	150



## Porsche

Macan	02/2014–	R134a	560	ND8	PAO 68 or PAG ISO 46	110
Macan	2016–	R1234yf	540	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	110
Panamera (970)	09/2009–16	R134a	580	ND8	PAO 68 or PAG ISO 46	140
Panamera Hybrid/E-Hybrid (970)	2011–16	R134a	850	n/a	PAO 68 AA1	160
Panamera (971) 2.9 4S/3.0 i/4.0 i Turbo/4.0 D	2016–	R134a	540	PAG 46	PAO 68 AA1 or PAG ISO 46	100
Panamera (971) 2.9 4S/3.0 i/4.0 i Turbo/4.0 D	2016–	R1234yf	490	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	100
Panamera (971) 2.9 E-Hybrid/4 E-Hybrid	2016–	R134a	700	PAG 46	PAO 68 AA1 or PAG ISO 46	220
Panamera (971) 2.9 E-Hybrid/4 E-Hybrid	2016–	R1234yf	660	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	220
<b>Proton</b>						
413	1995–01	R134a	500–600	PAG	PAO 68	n/a
420	1996–01	R134a	500–600	PAG	PAO 68	n/a
Gen-2 1.3 i/1.6 i	2004–	R134a	600	SP 10	PAO 68 or PAG ISO 46	120
Impian/Waja 1.6 i	2001–07	R134a	575	ND8	PAO 68 or PAG ISO 46	120
Satria Neo 1.3 i/1.6 i	2006–	R134a	550	SP 10	PAO 68 or PAG ISO 46	135
Savvy 1.2 i	2005–	R134a	500	SP 10	PAO 68 or PAG ISO 46	135



## Renault

Avantime 2.0 i Turbo	2000–04	R134a	855–905	Planetelf PAG 488	PAO 68 or PAG ISO 150	220
Avantime 3.0 i	2000–04	R134a	855–905	SP 10	PAO 68 or PAG ISO 46	135
Captur	06/2013–	R134a	450	PAG 488	PAO 68 or PAG ISO 150	115
Clio	1994–98	R134a	625–695	SP 10	PAO 68 or PAG ISO 46	120–150
Clio II	09/1998–05	R134a	630–690	SP 10	PAO 68 or PAG ISO 46	135
Clio II 2.0 i	1999–04	R134a	680–740	SP 10	PAO 68 or PAG ISO 46	135
Clio 3	06/2005–	R134a	505–565	PAG 46	PAO 68 or PAG ISO 46	125–145
Clio IV	11/2012–	R134a	430	PAG 488	PAO 68 or PAG ISO 150	120
Espace II	1994–97	R134a	1225–1275	SP 20	PAO 68 or PAG ISO 100	120–150
Espace III	12/1996–02	R134a	850–910	SP 20	PAO 68 or PAG ISO 100	120–150
Espace V6 24 V	1998–02	R134a	865–915	SP 10	PAO 68 or PAG ISO 46	135
Espace 1.9 D Turbo	1999–02	R134a	700–740	SP 10	PAO 68 or PAG ISO 46	120–150
Espace 2.2 D Turbo	1996–00	R134a	770–830	SP 20	PAO 68 or PAG ISO 100	120–150
Espace IV (JKO) 1.9 D dCi/2.0 i/2.0 i Turbo	2002–10	R134a	965–1035	SP 10	PAO 68 or PAG ISO 46	190–210
Espace IV (JKO) 2.2 D dCi/3.0 D dCi/3.5 i/2.0 D dCi	2002–10	R134a	965–1035	SP 10	PAO 68 or PAG ISO 46	210–230



## Renault

Extra/Express/Rapid	1994–03/98	R134a	645–715	SP 10	PAO 68 or PAG ISO 46	120–150
Fluence 1.5 D dCi	2010–	R134a	530	PAG 448	PAO 68 or PAG ISO 100	150
Kangoo	1998–08	R134a	615–685	SP 10	PAO 68 or PAG ISO 46	120–150
Kangoo 1.5 D/1.6 i/1.6 i 16 V	02/2008–	R134a	550	SP 10	PAO 68 or PAG ISO 46	150
Koleos 2.5 i/2.0 dCi	2008–	R134a	550	SP 10	PAO 68 or PAG ISO 46	120
Koleos II	2017–	R1234yf	500	ND12	PAO 68 AA1 or PAG YF	110
Laguna	1994–00	R134a	670–730	SP 10	PAO 68 or PAG ISO 46	120–150
Laguna 2.0 – engine code F3P 670/674	1994–00	R134a	750–810	SP 10	PAO 68 or PAG ISO 46	120–150
Laguna 2.0 16 V – engine code N7Q	1996–99	R134a	775–825	SP 20	PAO 68 or PAG ISO 100	135
Laguna 2.0 16 V – engine code F4R	1999–03	R134a	625–695	SP 10	PAO 68 or PAG ISO 46	120–150
Laguna 2.2 D/3.0 V6	1994–00	R134a	750–810	SP 10	PAO 68 or PAG ISO 46	135
Laguna 2.2 D Turbo/1.9 D dTi	1996–01	R134a	670–730	SP 10	PAO 68 or PAG ISO 46	120–150
Laguna II (XGO) 1.6 i/1.8 i/1.9 D dCi/2.2 D dCi	2001–05	R134a	625–675	Planetelf PAG 488	PAO 68 or PAG ISO 150	240–260
Laguna II (XGO) 2.0 i/2.0 IDE	2001–05	R134a	670–730	Planetelf PAG 488	PAO 68 or PAG ISO 150	240–260
Laguna II (XGO) 3.0 i	2001–05	R134a	625–675	SP 10	PAO 68 or PAG ISO 46	120–150



## Renault

Laguna II	2005–08	R134a	650	Planetelf 488	PAO 68 or PAG ISO 150	220
Laguna II engine: G9T706 + G9T707 (2.2 dCi)	2005–09	R134a	650	Planetelf 488	PAO 68 or PAG ISO 150	250
Laguna II engine: L7X733 (3.0 i)	2005–09	R134a	650	SP 10	PAO 68 or PAG ISO 46	135
Laguna III (BT/01)	10/2007–	R134a	650	SP 10	PAO 68 or PAG ISO 46	150
Latitude 2.0 D dCi	2010–	R134a	600	PAG	PAO 68 or PAG ISO 46	120
Master II 2.5 D/2.8 DTi	1998–03	R134a	820–880	SP 20	PAO 68 or PAG ISO 100	135
Master II 1.9 D dCi/2.2 D dCi/2.5 D dCi	2000–10/2003	R134a	850	Planetelf 488	PAO 68 or PAG ISO 150	220
9-seater/16-seater	2000–10/2003	R134a	1350	Planetelf 488	PAO 68 or PAG ISO 150	250
with Sanden compressor	2000–10/2003	R134a	850	SP 10	PAO 68 or PAG ISO 46	135
9-seater/16-seater with Sanden compressor	2000–10/2003	R134a	1350	SP 10	PAO 68 or PAG ISO 46	155
Master II 2.8 D dCi	10/2003–07	R134a	850	SP 10	PAO 68 or PAG ISO 46	135
Master II 3.0 D DXi	10/2003–07	R134a	750	SP 10	PAO 68 or PAG ISO 46	135
Master II 3.0 D DXi	2007–10	R134a	750	SP 10	PAO 68 or PAG ISO 46	135
Master (EV/UV)	02/2010	R134a	590	SP 10	PAO 68 or PAG ISO 46	125



<b>Renault</b>						
Mégane – Delphi compressor	1995–99	R134a	720–780	Planetelf PAG 488	PAO 68 or PAG ISO 150	205–235
Sanden compressor	1995–99	R134a	725–775	SP 10	PAO 68 or PAG ISO 46	135
Mégane 1.4 i/1.6 i/2.0 i	1999–03	R134a	720–780	Planetelf PAG 488	PAO 68 or PAG ISO 150	205–235
Mégane 1.9 D/1.9 D dTi	1999–03	R134a	720–780	PAG	PAO 68	205–235
Mégane 1.9 D dCi	1999–03	R134a	745–815	Planetelf PAG 488	PAO 68 or PAG ISO 150	205–235
Mégane II (XMO) 1.4 i/1.5 D dCi/1.6 i/1.9 D dCi/2.0 i/2.0 dCi	2003–08	R134a	550	Planetelf PAG 488	PAO 68 or PAG ISO 150	150
Mégane III	11/2008–	R134a	480	SP 10	PAO 68 or PAG ISO 46	120
Mégane Scenic	09/1996–99	R134a	765–835	PAG	PAO 68 or PAG ISO 46	120–150
Modus	2004–13	R134a	510	SP 10	PAO 68 or PAG ISO 46	135
R19	1994–96	R134a	800	SP 10	PAO 68 or PAG ISO 46	120–150
R21	1994–95	R134a	715–785	SP 20	PAO 68 or PAG ISO 100	120–150
Safrane	1995–00	R134a	815–885	SP 10	PAO 68 or PAG ISO 46	120–150
Safrane 2.0 16 V/2.5 20 V/2.2 D Turbo	1996–12/00	R134a	750–810	SP 10	PAO 68 or PAG ISO 46	120–150
Scenic (JA) 1.4 i/1.6 i	09/1999–03	R134a	720–780	Planetelf PAG 488	PAO 68 or PAG ISO 150	205–235
Scenic (JA) 2.0 i/1.9 D dTi/1.9 D dCi	09/1999–03	R134a	645–715	Planetelf PAG 488	PAO 68 or PAG ISO 150	205–235



Renault						
Scenic II (JMO) 1.4 i/1.5 D dCi/1.6 i/2.0 i/1.9 D dCi/2.0 D dCi	2003–09	R134a	550	Planetelf PAG 488	PAO 68 or PAG ISO 150	150
Scenic/Grand Scenic III 1.4 i/1.6 i/1.5 dCi/1.9 dCi/2.0 dCi	2009–	R134a	480	ND8	PAO 68 or PAG ISO 46	110
Scenic/Grand Scenic III 2.0 i	2009–	R134a	510	ZXL100PG	PAO 68 or PAG ISO 46	150
Talisman	2015–	R134a	540	PAG	PAO 68 AA1	110
Talisman	2016–	R1234yf	480	ND12	PAO 68 AA1 or PAG YF	110
Trafic 1.9 D dCi (F9Q760)	2001–08	R134a	700–725	Planetelf PAG 488	PAO 68 or PAG ISO 150	220–235
Trafic 1.9 D dCi (F9Q762)/2.0 i/2.5 D dCi	2001–06	R134a	720–780	Planetelf PAG 488	PAO 68 or PAG ISO 150	220–235
Trafic 2.0 i/2.5 D dCi	2001–12	R134a	730	PAG	PAO 68	230
with air conditioning system at rear	2001–12	R134a	1150	PAG	PAO 68	250
Trafic 2.0 D dCi	2006–14	R134a	650	PAG	PAO 68	230
with air conditioning system at rear	2006–14	R134a	950	PAG	PAO 68	250
Twingo 1.2 i (C3G)	1993–97	R134a	615–685	SP 10	PAO 68 or PAG ISO 46	120–150
Twingo 1.2 i (D7F)/1.2 i 16 V (D4F)	1997–07	R134a	710–770	SP 10	PAO 68 or PAG ISO 46	120–150
Twingo II (CNO) 1.2 i 16 V	03/2007–14	R134a	430	SP 10	PAO 68 or PAG ISO 46	135
Twingo II (CNO) 1.6 i/1.5 dCi	03/2007–14	R134a	520	SP 10	PAO 68 or PAG ISO 46	135





<b>Renault</b>						
Twingo III	09/2014–	R134a	475	ZXL200PG	PAO 68 or PAG ISO 100	175
Twingo III	09/2014–	R1234yf	430	VC200YF	PAO 68 AA1 or PAG ISO 100 YF	175
Vel Satis 2.0 i Turbo/3.5 i	2000–08	R134a	615–685	Planetelf PAG 488	PAO 68 or PAG ISO 150	250
Vel Satis 2.2 D dCi/3.0 D dCi	2000–08	R134a	615–685	Planetelf PAG 488	PAO 68 or PAG ISO 150	265
Wind	2010–	R134a	510	PAG	PAO 68 or PAG ISO 46	135
Zoe	2013–	R1234yf	1000	ND11	POE	125
<b>Rover</b>						
200 Series	1994–95	R134a	710	SP 10	PAO 68 or PAG ISO 46	120–135
200 Series right-hand drive	1995–99	R134a	535–585	SP 10	PAO 68 or PAG ISO 46	135
200 Series left-hand drive	1995–99	R134a	612–665	SP 10	PAO 68 or PAG ISO 46	135
216/218 Coupe/Cabriolet right-hand drive	1996–99	R134a	535–585	SP 10	PAO 68 or PAG ISO 46	135
216/218 Coupe/Cabriolet left-hand drive	1996–99	R134a	612–665	SP 10	PAO 68 or PAG ISO 46	135
25 right-hand drive	1999–05	R134a	540–580	SP 10	PAO 68 or PAG ISO 46	135
25 left-hand drive	1999–05	R134a	620–660	SP 10	PAO 68 or PAG ISO 46	135



## Rover

400 Series	1994–95	R134a	710	SP 10	PAO 68 or PAG ISO 46	120–135
400 Series right-hand drive	1995–99	R134a	535–585	SP 10	PAO 68 or PAG ISO 46	135
400 Series left-hand drive	1995–99	R134a	612–665	SP 10	PAO 68 or PAG ISO 46	135
416 Tourer right-hand drive	1996–99	R134a	535–585	SP 10	PAO 68 or PAG ISO 46	135
416 Tourer left-hand drive	1996–99	R134a	612–665	SP 10	PAO 68 or PAG ISO 46	135
45 right-hand drive	1999–05	R134a	535–585	SP 10	PAO 68 or PAG ISO 46	135
45 left-hand drive	1999–05	R134a	615–665	SP 10	PAO 68 or PAG ISO 46	135
600 Series	1993–99	R134a	700–750	ND8	PAO 68 or PAG ISO 46	160
75	1999–05	R134a	400–500	ND8	PAO 68 or PAG ISO 46	110–130
820	1994–99	R134a	600–700	ND8	PAO 68 or PAG ISO 46	155
825	1996–99	R134a	600–700	ND8	PAO 68 or PAG ISO 46	80–120
827	1994–96	R134a	600–700	ND8	PAO 68 or PAG ISO 46	100
825 2.5 D Turbo	1994–96	R134a	600–700	ND8	PAO 68 or PAG ISO 46	155
825 2.5 D Turbo	1996–99	R134a	600–700	ND8	PAO 68 or PAG ISO 46	80–120
MGF	1995–02	R134a	620	SK20	PAO 68 or PAG ISO 100	170



## Rover

Streetwise left-hand drive	2003–05	R134a	620–660	SP 10	PAO 68 or PAG ISO 46	135
Streetwise right-hand drive	2003–05	R134a	540–580	SP 10	PAO 68 or PAG ISO 46	135
<b>Saab</b>						
900 Seiko Seiki compressor	1993–96	R134a	725	16 4074 787	PAO 68 or PAG ISO 100	200
900 Sanden compressor	1997–98	R134a	725	SP 10	PAO 68 or PAG ISO 46	150
9-3 gasoline (YS3D)	1998–03	R134a	800	16 4759 106	PAO 68 or PAG ISO 46	150
9-3 diesel (YS3D)	1998–03	R134a	800	16 4774 787	PAO 68 or PAG ISO 100	295
9-3 (YD3F) 2.0 i/2.2 D/2.2 TiD/1.8 i/1.9 TiD/2.8 t/1.9 D	2003–10	R134a	675	16 4759 106	PAO 68 or PAG ISO 46	130
9000 Seiko Seiki compressor	1992–98	R134a	950	16 4074 787	PAO 68 or PAG ISO 100	200
9000 Sanden compressor	1992–98	R134a	950	16 4759 106	PAO 68 or PAG ISO 46	200
9-5	1997–05	R134a	875	ND8	PAO 68 or PAG ISO 46	145
9-5 1.9 D TiD	2005–09	R134a	825	16 4759 106	PAO 68 or PAG ISO 46	120
9-5 2.0 i/2.3 i BioPower/2.0 i + 2.3 i Turbo/2.3 Aero	2005–09	R134a	825	PAG	PAO 68 or PAG ISO 46	145



## Seat

Alhambra	10/1995–00	R134a	950–1000	PAG	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	1996–00	R134a	1350–1400	PAG	PAO 68 or PAG ISO 46	240
Alhambra	06/2000–10	R134a	700–750	PAG	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	06/2000–10	R134a	1050–1100	PAG	PAO 68 or PAG ISO 46	240
Alhambra (710) Sanden compressor	06/2012–	R134a	600	PAG	PAO 68 or PAG ISO 46	110
with air conditioning system at rear		R134a	1000	PAG	PAO 68 or PAG ISO 46	210
Alhambra (710) Denso compressor	06/2012–	R134a	600	PAG	PAO 68 or PAG ISO 46	140
with air conditioning system at rear		R134a	1000	PAG	PAO 68 or PAG ISO 46	240
Alhambra (711) Sanden/Zexel compressor	2015–	R134a	525	G 052 154 A2	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	2015–	R134a	875	G 052 154 A2	PAO 68 or PAG ISO 46	220
Alhambra (711) Denso compressor	2015–	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	2015–	R134a	875	G 052 300 A2	PAO 68 or PAG ISO 46	240
Altea Denso compressor 7SEU17C	2004–13	R134a	500–550	PAG	PAO 68 or PAG ISO 46	130–150
Altea Sanden compressor/Delphi compressor	2004–13	R134a	500–550	PAG	PAO 68 or PAG ISO 46	100–120
Altea Zexel compressor/Valeo compressor	2004–13	R134a	500–550	PAG	PAO 68 or PAG ISO 46	105–135



## Seat

Altea Denso compressor 7SEU16C	2004–13	R134a	500–550	PAG	PAO 68 or PAG ISO 46	180
Arosa Sanden compressor SD7B	1997–00	R134a	700–750	PAG	PAO 68 or PAG ISO 46	100
Arosa compressor: Sanden SD6V	2000–05	R134a	700–750	PAG	PAO 68 or PAG ISO 46	120
Exeo Denso compressor 7SEU17C	2009–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	130
Exeo Denso compressor 6SEU14	2009–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	90
Ibiza II/Cordoba right-hand drive	1993–99	R134a	900–930	PAG	PAO 68 or PAG ISO 46	115–130
Ibiza II/Cordoba left-hand drive	1993–99	R134a	850–880	PAG	PAO 68 or PAG ISO 46	115–130
Ibiza III/Cordoba right-hand drive	1999–02	R134a	775	PAG	PAO 68 or PAG ISO 46	135
Ibiza III/Cordoba left-hand drive	1999–02	R134a	775	PAG	PAO 68 or PAG ISO 46	135
Ibiza IV/Cordoba (6L2)	2002–03/08	R134a	525–575	PAG	PAO 68 or PAG ISO 46	140
Ibiza V (6J) Denso compressor	03/2008–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	140
Ibiza V (6J) Sanden compressor	03/2008–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Ibiza V (6J) Zexel/Valeo compressor	03/2008–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	120
Ibiza (6P) Denso compressor	2015–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	90
Ibiza (6P) Delphi compressor	2015–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110



## Seat

Inca right-hand drive	1995-03	R134a	885-940	PAG	PAO 68 or PAG ISO 46	110-130
Inca left-hand drive	1995-03	R134a	840-890	PAG	PAO 68 or PAG ISO 46	110-130
Leon	1999-05	R134a	750-800	PAG	PAO 68 or PAG ISO 46	120-150
Leon II Denso 7SEU17C compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	130-150
Leon II Sanden PXE16 compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	100-120
Leon II Zexel DSC17E compressor	2005-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	105-135
Leon II Denso compressor 7SEU16C	2004-	R134a	500-550	PAG	PAO 68 or PAG ISO 46	180
Mii	2012-	R134a	380	PAG	PAO 68 or PAG ISO 46	120
Toledo I right-hand drive	1993-99	R134a	870-930	PAG	PAO 68 or PAG ISO 46	110-130
Toledo I left-hand drive	1993-99	R134a	820-880	PAG	PAO 68 or PAG ISO 46	110-130
Toledo II	1999-05	R134a	750-800	PAG	PAO 68 or PAG ISO 46	120-150
Toledo III (5P2) Denso compressor	10/2004-12	R134a	525	G 052 154 A2	PAO 68 or PAG ISO 46	140
Toledo III (5P2) Sanden compressor	10/2004-12	R134a	525	G 052 154 A2	PAO 68 or PAG ISO 46	110
Toledo III (5P2) Zexel compressor	10/2004-12	R134a	525	G 052 154 A2	PAO 68 or PAG ISO 46	120
Toledo IV	07/2012-	R134a	500	G 052 154 A2	PAO 68 or PAG ISO 46	120



## Škoda

Fabia	2000–07	R134a	525–575	G 052 300 A2	PAO 68 or PAG ISO 46	130–150
Fabia II	2007–	R134a	550	G 052 300 A2	PAO 68 or PAG ISO 46	140
Fabia III (NJ3/NJ5) Delphi compressor	08/2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Fabia III (NJ3/NJ5) Sanden compressor	08/2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Felicia 1.3	1996–01	R134a	750–780	SP 20	PAO 68 or PAG ISO 100	135
Felicia 1.6	1996–01	R134a	720–750	SP 10	PAO 68 or PAG ISO 46	100
Octavia (1U)	1996–05	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
Octavia II (1Z) Denso compressor 7SEU17C	06/2004–	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	130–150
Octavia II (1Z) Sanden compressor	06/2004–	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	100–120
Octavia II (1Z) Zexel compressor/Delphi compressor	06/2004–	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	105–135
Octavia II (1Z) Denso compressor 7SEU16C	06/2004–	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	180
Octavia III (5E3/5E5) Denso + Delphi compressor	11/2012–	R134a	490	PAG	PAO 68 or PAG ISO 46	110
Octavia III (5E3/5E5) Sanden compressor	11/2012–	R134a	490	PAG	PAO 68 or PAG ISO 46	80
Rapid compressor 5Q0820803A/6R0820803D	2012–	R134a	500	G 052 154 A2	PAO 68 or PAG ISO 46	80
Rapid compressor 6R0820803A/B	2012–	R134a	500	G 052 154 A2	PAO 68 or PAG ISO 46	125



## Škoda

Roomster/Praktik Delphi/Zexel compressor	2006–	R134a	525–575	G 052 300 A2	PAO 68 or PAG ISO 46	120
Roomster/Praktik Denso compressor	2006–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	90
Superb	2002–08	R134a	575–625	G 052 300 A2	PAO 68 or PAG ISO 46	250
Superb II	2008–	R134a	525	PAG	PAO 68 or PAG ISO 46	180
Superb III (3V3/3V5) Denso + Delphi compressor	03/2015–	R134a	490	PAG	PAO 68 or PAG ISO 46	110
Superb III (3V3/3V5) Sanden compressor	03/2015–	R134a	490	PAG	PAO 68 or PAG ISO 46	80
Yeti	2009–	R134a	525	PAG	PAO 68 or PAG ISO 46	n/a

## Smart (MCC)

Cabriolet, City Coupe, Roadster, Crossblade (450)	1998–03	R134a	620	A001 989 0803	PAO 68 or PAG ISO 46	180
Cabriolet, City, Fortwo (450)	2003–07	R134a	450	A001 989 0803	PAO 68 or PAG ISO 46	180
Forfour (454)	2004–06	R134a	440	A001 989 0803	PAO 68 or PAG ISO 46	100
Fortwo (451)	2007–	R134a	420	PAG	PAO 68 or PAG ISO 46	180
Fortwo (451.391/491) Electric Drive	2010–15	R134a	550		PAO 68 AA1	n/a
Fortwo (453)	2014–	R134a	475	PAG	PAO 68 AA1 or PAG ISO 100	100





<b>Smart (MCC)</b>						
Fortwo (453)	2014–	R1234yf	475	PAG YF	PAO 68 AA1 or PAG ISO 100 YF	100
Fortwo (453) Electric Drive	2017–	R1234yf	430		PAO 68 AA1	100
Roadster, Coupe (452)	2003–06	R134a	650	A001 989 0803	PAO 68 or PAG ISO 46	180
<b>SsangYong</b>						
Actyon 2.0 D	2006–	R134a	650	PAG	PAO 68	n/a
Korando	1997–07	R134a	650–750	ZXL200PG	PAO 68 or PAG ISO 100	200
Korando	2011–	R134a	460	PAG	PAO 68 AA1	150
Kyron	2005–	R134a	600–700	PAG	PAO 68	265
Musso	1996–99	R134a	650–750	ZXL200PG	PAO 68 or PAG ISO 100	200
Musso (FJ)	1999–06	R134a	650–750	PAG	PAO 68	n/a
Rexton	2002–06	R134a	800–900	PAG	PAO 68 or PAG ISO 150	265
with air conditioning system at rear	2002–06	R134a	1150–1250	PAG	PAO 68 or PAG ISO 150	265
Rexton II 2.7 D Delphi compressor	2006–12	R134a	850	PAG	PAO 68 or PAG ISO 150	260
with climate control system		R134a	750	PAG	PAO 68 or PAG ISO 150	220
with air conditioning system at rear		R134a	1200	PAG	PAO 68 or PAG ISO 150	260



<b>SsangYong</b>						
Rodius 2.7 D	2005–	R134a	1050	PAG	PAO 68	n/a
Rodius II	2013–	R134a	1050	PAG	PAO 68 AA1	200
Tivoli	2015–	R1234yf	500	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	120
<b>Subaru</b>						
BRZ	2012–	R134a	390	PAG	PAO 68 AA1	80
BRZ	2012–	R1234yf	350	PAG YF	PAO 68 AA1	80
Forester (SF) right-hand drive	1997–03	R134a	650–750	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Forester (SF) left-hand drive	1997–03	R134a	550–650	DH-PR	PAO 68 or PAG ISO 100	n/a
Forester (SG) 2.0 i/2.0 i Turbo/2.5 i	2003–08	R134a	550–650	ZXL200PG	PAO 68 or PAG ISO 100	145
Forester (SH)	2008–13	R134a	500	PAG	PAO 68	n/a
Impreza left-hand drive	1994–11/00	R134a	550–650	DH-PR	PAO 68 or PAG ISO 100	145
Impreza right-hand drive	1994–00	R134a	550–650	PAG	PAO 68 or PAG ISO 100	245
Impreza left-hand drive 1.6 i/2.0 i/2.0 i Turbo/1.5 i/2.5 i	2001–07	R134a	450–550	ZXL200PG	PAO 68 or PAG ISO 100	n/a
Impreza right-hand drive 1.6 i/2.0 i/2.0 i Turbo/1.5 i/2.5 i	2001–07	R134a	450–550	ND9	PAO 68 or PAG ISO 100	n/a



## Subaru

Impreza (GP)	2012–	R134a	475	ZXL200PG	PAO 68 AA1 or PAG ISO 100	80
Impreza (GP)	2012–	R1234yf	450	VC 200 YF	PAO 68 AA1 or PAG ISO 100 YF	80
Impreza (GR)	2007–	R134a	500	PAG	PAO 68 or PAG ISO 100	n/a
Justy (G3X) 1.3 i/1.5 i	2003–07	R134a	430	PAG	PAO 68 or PAG ISO 46	95
Justy IV	2007–02/10	R134a	300	PAG	PAO 68 or PAG ISO 46	85
Legacy	1994–95	R134a	600–700	ZXL100PG	PAO 68 or PAG ISO 46	150
Legacy left-hand drive	01/1996–12/96	R134a	600–700	PAG	PAO 68 or PAG ISO 100	n/a
Legacy left-hand drive	01/1997–99	R134a	550–650	PAG	PAO 68 or PAG ISO 100	n/a
Legacy left-hand drive	2000–03	R134a	600–700	PAG	PAO 68 or PAG ISO 100	n/a
Legacy right-hand drive	01/1996–12/96	R134a	700–800	PAG	PAO 68 or PAG ISO 100	n/a
Legacy right-hand drive	01/1997–99	R134a	775–825	PAG	PAO 68 or PAG ISO 100	n/a
Legacy right-hand drive	2000–03	R134a	625–675	PAG	PAO 68 or PAG ISO 100	n/a
Legacy/Legacy Outback (BL/BP)	2003–09	R134a	430	PAG	PAO 68	n/a
Legacy V 2.5 i/2.0 D	09/2009–	R134a	425	PAG	PAO 68	n/a
Levorg	2015–	R134a	475	ZXL200PG	PAO 68 AA1 or PAG ISO 100	80



## Subaru

Levorg	2015–	R1234yf	450	VC 200 YF	PAO 68 AA1 or PAG ISO 100 YF	80
Outback	2003–09	R134a	430	PAG	PAO 68	n/a
Outback (BM/BR)	09/2009–	R134a	425	PAG	PAO 68	n/a
Outback (BS)	2015–	R1234yf	450	VC 200 YF	PAO 68 AA1 or PAG ISO 100 YF	80
SVX	1994–97	R134a	650	ZXL100PG	PAO 68 or PAG ISO 46	150
Trezia	2011–	R134a	360	ND8	PAO 68 or PAG ISO 46	65
Tribeca (B9)	2005–	R134a	600	PAG	PAO 68	n/a
Tribeca (B9) with air conditioning system at rear	2005–	R134a	870	PAG	PAO	n/a
WRX	2011–	R134a	500	DH-PR	PAO 68 or PAG ISO 100	n/a
XV	2012–	R134a	475	ZXL200PG	PAO 68 AA1 or PAG ISO 100	80
XV	2012–	R1234yf	450	VC 200 YF	PAO 68 AA1 or PAG ISO 100 YF	80

## Suzuki

Alto	1997–02	R134a	500–600	PAG	PAO 68	n/a
Alto	06/2002–09	R134a	400	ND8	PAO 68 or PAG ISO 46	n/a



Suzuki						
Alto (GF)	2009–	R134a	370	PAG	PAO 68 or PAG ISO 46	65
Baleno	1995–03	R134a	600	PAG	PAO 68	150
Baleno (FW/EW)	2016–	R134a	380	PAG	PAO 68 AA1 or PAG ISO 46	110
Baleno (FW/EW)	2016–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	110
Cappuccino	1993–96	R134a	700	PAG	PAO 68	150
Celerio 1.0 i (K10B/K10C)	2014–	R134a	350	PAG	PAO 68 AA1	125
Celerio 1.0 i (K10B/K10C)	2014–	R1234yf	370	PAG	PAO 68 AA1	125
Grand Vitara	1998–00	R134a	500–600	PAG	PAO 68	n/a
Grand Vitara 1.6 i/2.0 i/2.5 i/2.0 D Turbo Seiko compressor	2000–05	R134a	390–490	RS 20	PAO 68 or PAG ISO 100	130
Denso compressor	2000–05	R134a	390–490	ND8	PAO 68 or PAG ISO 46	180
Grand Vitara 2.7 V6	2001–05	R134a	450–550	ND8	PAO 68 or PAG ISO 46	100
Grand Vitara 1.6 i	10/2005–	R134a	570	PAG	PAO 68	120
Grand Vitara 1.9 D DDiS/2.0 i Zexel compressor	10/2005–	R134a	570	PAG	PAO 68 or PAG ISO 100	160
Ignis	2000–03	R134a	330–390	PAG	PAO 68	n/a
Ignis II 1.3 i/1.5 i	09/2003–	R134a	430	PAG	PAO 68	90



<b>Suzuki</b>						
Ignis II 1.3 D DDiS	09/2003–	R134a	480	SP 10	PAO 68 or PAG ISO 46	100
Ignis (MF) Calsonic CR08D compressor	10/2016–	R134a	390	PAG	PAO 68 AA1 or PAG ISO 100	135
Ignis (MF) Calsonic CR08D compressor	10/2016–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 100 YF	135
Jimny	1998–03	R134a	500–600	PAG	PAO 68	120
Jimny 1.3 i (Euro 4)	2004–11	R134a	430	99000-99088-00D0	PAO 68	120
Jimny 1.3 i (Euro 6)	2015–	R1234yf	430	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	170
Jimny 1.5 D DDiS	2004	R134a	550	99000-99088-00D0	PAO 68	120
Kizashi	2010–	R134a	530	99000-99022-00E	PAO 68 or PAG ISO 46	150
Liana	2001–08	R134a	470–530	PAG	PAO 68	n/a
Splash	2008–	R134a	370	PAG	PAO 68	n/a
Super Carry 1.3 i	1999–06	R134a	500–560	PAG	PAO 68	n/a
Swift	1993 –	R134a	700	PAG	PAO 68	n/a
Swift 1.3 i/1.5 i/1.6 i	2004–10	R134a	370	PAG	PAO 68	n/a
Swift 1.3 D Sanden compressor	2004–10	R134a	370	SP 10	PAO 68 or PAG ISO 46	120
Swift (FZ/NZ) 1.2 i/1.6 i	2010–17	R134a	370	PAG	PAO 68 AA1 or PAG ISO 46	60



<b>Suzuki</b>						
Swift (FZ/NZ) 1.3 DDIS	2010–17	R134a	370	PAG	PAO 68 AA1 or PAG ISO 46	120
Swift (AZ)	2017–	R134a	390	PAG	PAO 68 AA1 or PAG ISO 46	100
Swift (AZ)	2017–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	100
SX4 1.5 i/1.6 i	2006–13	R134a	430	SP 10	PAO 68 or PAG ISO 46	60
Vitara (APK) 1.0 i/1.4 i (K10C/K14C)	2015–	R134a	400	PAG 46	PAO 68 AA1 or PAG ISO 46	80
Vitara (APK) 1.0 i/1.4 i (K10C/K14C)	2015–	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	80
Vitara (APK) 1.6 DDIS/1.6 VVT	2015–	R134a	400	PAG 46	PAO 68 AA1 or PAG ISO 46	130
Vitara (APK) 1,6 DDIS/1.6 VVT	2015-	R1234yf	450	PAG 46 YF	PAO 68 AA1 or PAG ISO 46 YF	130
Wagon R (EM)	1997–00	R134a	500–600	PAG	PAO 68	n/a
Wagon R (MM) 1.0 i/1.2 i/1.3 DDIS	05/2000–08	R134a	480	PAG	PAO 68	150
Wagon R (MM) 1.3 i	2000–08	R134a	450–500	PAG	PAO 68 or PAG ISO 46	135
<b>Tata</b>						
Safari 1.9 D	1999–07	R134a	1150	ND8	PAO 68 or PAG ISO 46	220



<b>Tesla</b>						
Model S	2013–	R134a	770	ND11	POE	150
Model S	2016–	R1234yf	730	ND11	POE	150
Model X	2016–	R1234yf	720	ND11	POE	150
with air conditioning system at rear	2016–	R1234yf	980	ND11	POE	240
<b>Toyota</b>						
4Runner right-hand drive	1993–96	R134a	650–750	ND8	PAO 68 or PAG ISO 46	n/a
4Runner left-hand drive	1993–96	R134a	700–800	ND8	PAO 68 or PAG ISO 46	n/a
Auris	2007–12	R134a	450	ND8	PAO 68 or PAG ISO 46	90
Auris Hybrid	2010–	R134a	475	ND11	POE	135
Avensis (T22)	1998–03	R134a	410–470	ND8	PAO 68 or PAG ISO 46	n/a
Avensis (T25)	2003–09	R134a	410–470	ND8	PAO 68 or PAG ISO 46	n/a
Avensis (T27)	2009–	R134a	440	ND8	PAO 68 or PAG ISO 46	n/a
Avensis Verso	2001–06	R134a	470–530	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	2001–06	R134a	770–830	ND8	PAO 68 or PAG ISO 46	n/a
Aygo	2005–14	R134a	500	ZXL200PG	PAO 68 or PAG ISO 100	80





Toyota						
Aygo (B4)	05/2014–	R134a	390	PAG	PAO 68 AA1 or PAG ISO 100	80
Aygo (B4)	05/2014–	R1234yf	350	PAG YF	PAO 68 AA1 or PAG ISO 100 YF	80
Camry	1994–96	R134a	850	ND8	PAO 68 or PAG ISO 46	n/a
Camry (V20)	1996–01	R134a	750–850	ND8	PAO 68 or PAG ISO 46	n/a
Camry (V30)	11/2001–05	R134a	520–580	ND8	PAO 68 or PAG ISO 46	n/a
Camry (XV50/51)	2011–17	R134a	500	ND8	PAO 68 AA1 or PAG ISO 46	110
Carina E	1992–98	R134a	700–800	ND8	PAO 68 or PAG ISO 46	n/a
Celica (T20)	1994–11/99	R134a	600–700	ND8	PAO 68 or PAG ISO 46	n/a
Celica (ZZT23)	1999–06	R134a	400–460	ND8	PAO 68 or PAG ISO 46	120
C-HR	2016–	R134a	450	ND8	PAO 68 AA1 or PAG ISO 46	80
C-HR	2016–	R1234yf	400	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	80
Corolla	1994–97	R134a	650–750	ND9	PAO 68 or PAG ISO 100	n/a
Corolla	1997–00	R134a	600–700	ND9	PAO 68 or PAG ISO 100	n/a
Corolla 1.9 D – produced in Japan	2000–02	R134a	600–700	ND9	PAO 68 or PAG ISO 100	n/a
Corolla 1.9 D – produced in Great Britain	2000–02	R134a	450–490	ND9	PAO 68 or PAG ISO 100	n/a



Toyota						
Corolla (E12U)	2002–08	R134a	425–475	ND8	PAO 68 or PAG ISO 46	n/a
Corolla	2008–	R134a	440	ND8	PAO 68 or PAG ISO 46	n/a
Corolla (E18) 1.3 i + 1.4 D	2013–18	R134a	450	ND8	PAO 68 AA1 or PAG ISO 46	90
Corolla (E18) 1.3 i + 1.4 D	2013–18	R1234yf	420	ND12	PAO 68 AA1 or PAG ISO 46 YF	90
Corolla (E18) 1.6 i	2013–18	R134a	450	ND8	PAO 68 AA1 or PAG ISO 46	n/a
Corolla (E18) 1.6 i	2013–18	R1234yf	420	ND12	PAO 68 AA1 or PAG ISO 46 YF	n/a
Corolla (E21)	2018–	R1234yf	475	PAG YF	PAO 68 AA1 or PAG ISO 46 YF	80
Corolla (E21) Hybrid	2018–	R1234yf	475	ND11	POE	120
GT 86	03/2012–	R134a	390	ND8	PAO 68 or PAG ISO 46	n/a
GT 86	03/2012–	R1234yf	350	ND12	PAO 68 or PAG ISO 46 YF	n/a
Hi-Lux	1993–96	R134a	700–800	ND8	PAO 68 or PAG ISO 46	n/a
Hi-Lux	1997–05	R134a	500–600	ND8	PAO 68 or PAG ISO 46	n/a
Hi-Lux	08/2005–	R134a	450	ND8	PAO 68 or PAG ISO 46	80
Highlander	2014–	R134a	820	ND8	PAO 68 AA1 or PAG ISO 46	n/a
Ipsum	1996–01	R134a	750	ND8	PAO 68 AA1 or PAG ISO 46	n/a



Toyota						
iQ	2008–	R134a	370	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser 3.4	1996–03	R134a	650–750	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	1996–03	R134a	900–1000	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser 4.5	1995–98	R134a	750	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser Amazon 4.7/4.2 Turbo D	1998–00	R134a	750	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser 3.0 Turbo D	1993–96	R134a	850–900	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	1993–96	R134a	1550–1650	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser Colorado/Prado	1997–99	R134a	650–750	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	1997–99	R134a	900–1000	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser Amazon 4.2 Turbo D	1995–98	R134a	800–900	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser (J12)	2003–07/04	R134a	620–680	ND8	PAO 68 or PAG ISO 46	n/a
with cooling box	2003–07/04	R134a	720–780	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	2003–07/04	R134a	770–830	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, with cooling box	2003–07/04	R134a	870–930	ND8	PAO 68 or PAG ISO 46	n/a
Land Cruiser (J12)	07/2004–	R134a	600	PAG	PAO 68 or PAG ISO 46	125



Toyota						
with cooling box	07/2004–	R134a	700	PAG	PAO 68 or PAG ISO 46	125
with air conditioning system at rear	07/2004–	R134a	750	PAG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear, with cooling box	07/2004–	R134a	850	PAG	PAO 68 or PAG ISO 46	180
Land Cruiser (J15)	2009–	R134a	550	PAG	PAO 68 or PAG ISO 46	n/a
with cooling box	2009–	R134a	600	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	2009–	R134a	770	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, with cooling box	2009–	R134a	800	PAG	PAO 68 or PAG ISO 46	n/a
Land Cruiser (J20) condenser with 22 mm depth	2008–					n/a
with/without cooling box	2008–	R134a	870	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, without cooling box	2008–	R134a	960	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, with cooling box	2008–	R134a	1010	PAG	PAO 68 or PAG ISO 46	n/a
Land Cruiser (J20) condenser with 22 mm depth	2008–					n/a
with/without cooling box	2008–	R134a	770	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, without cooling box	2008–	R134a	920	PAG	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear, with cooling box	2008–	R134a	970	PAG	PAO 68 or PAG ISO 46	n/a



<b>Toyota</b>						
MR2 (W2)	11/1993–00	R134a	800–900	ND8	PAO 68 or PAG ISO 46	n/a
MR2 (W3)	2000–06	R134a	470–530	ND8	PAO 68 or PAG ISO 46	n/a
Mirai	2015–	R1234yf	475	ND12	PAO 68 AA1	130
Paseo	1996–99	R134a	550–650	ND9	PAO 68 or PAG ISO 100	n/a
Picnic	1996–00	R134a	700–800	ND8	PAO 68 or PAG ISO 46	n/a
Previa	08/1993–06	R134a	850–950	ND8	PAO 68 or PAG ISO 46	n/a
with air conditioning system at rear	08/1993–06	R134a	1100–1200	ND8	PAO 68 or PAG ISO 46	n/a
Previa	08/2000–06	R134a	670–730	PAG	PAO 68 or PAG ISO 46	120
with air conditioning system at rear	08/2000–06	R134a	850–910	PAG	PAO 68 or PAG ISO 46	120
Prius (NHW11)	1999–04	R134a	450–550	PAG	PAO 68 or PAG ISO 46	120
Prius	2004–09	R134a	420–480	ND11	POE	n/a
Prius 1.8 HSD	2009–	R134a	470	ND11	POE	n/a
Prius + (ZVW4)	05/2011–	R134a	470	ND11	POE	130
Prius + (ZVW4)	05/2011–	R1234yf	470	ND11	POE	130
RAV4	1994–00	R134a	650–750	ND8	PAO 68 or PAG ISO 46	n/a



Toyota						
RAV4 (XA2)	06/2000–06	R134a	480–540	PAG	PAO 68 or PAG ISO 46	120
RAV4 III (ACA/ACE)	2006–12	R134a	400–460	ND8	PAO 68 or PAG ISO 46	130
RAV4 IV (A4)	2013–	R134a	500	ND8	PAO 68 AA1 or PAG ISO 46	75
RAV4 IV (A4) Hybrid	2013–	R134a	550	ND11	POE	130
RAV4 IV (A4) Hybrid	2013–	R1234yf	500	ND11	POE	130
Starlet	1994–96	R134a	650	ND8	PAO 68 or PAG ISO 46	n/a
Starlet	1996–99	R134a	550–650	ND8	PAO 68 or PAG ISO 46	n/a
Supra	1993–97	R134a	650–750	ND8	PAO 68 or PAG ISO 46	n/a
Urban Cruiser	2009–	R134a	370	ND8	PAO 68 or PAG ISO 46	65
Verso	2009–12	R134a	440	ND8	PAO 68 or PAG ISO 46	n/a
Verso S	2011–	R134a	360	ND8	PAO 68 or PAG ISO 46	60
Yaris 1.1 i/1.3 i/1.5 i	1999–02	R134a	400–460	ND8	PAO 68 or PAG ISO 46	n/a
Yaris 1.1 i/1.3 i/1.5 i	2002–06	R134a	380–440	ND8	PAO 68 or PAG ISO 46	n/a
Yaris 1.4 D	2002–06	R134a	410–470	ND8	PAO 68 or PAG ISO 46	n/a
Yaris 1.0 i/1.3 i/1.4 D	2006–	R134a	370	ND8	PAO 68 or PAG ISO 46	n/a



<b>Toyota</b>						
Yaris (P13)	2011–	R134a	360	ND8	PAO 68 or PAG ISO 46	60
Yaris Hybrid	2011–	R134a	435	ND11	POE	125
<b>Volkswagen</b>						
Amarok	2010–	R134a	525	PAG	PAG 46 or PAO 68	140
Arteon Denso/MAHLE/Delphi compressor	2017–	R134a	500	PAG	PAO 68 AA1 or PAG ISO 46	110
Arteon Sanden compressor	2017–	R134a	500	PAG	PAO 68 AA1 or PAG ISO 46	75
Arteon Denso/MAHLE/Delphi compressor	2017–	R1234yf	460	PAG	PAO 68 AA1 or PAG ISO 46 YF	110
Arteon Sanden compressor	2017–	R1234yf	460	PAG	PAO 68 AA1 or PAG ISO 46 YF	75
Beetle	1998–11	R134a	700–750	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
Beetle (5C1) Sanden compressor PXE14/PX16	2012–	R134a	525	PAG	PAG 46 or PAO 68	110
Beetle (5C1) Denso compressor 6SEU14C	2012–	R134a	525	PAG	PAG 46 or PAO 68	90
Bora	1997–05	R134a	775	G 052 154 A2	PAO 68 or PAG ISO 46	135
Caddy II	1995–03	R134a	850–880	G 052 154 A2	PAO 68 or PAG ISO 46	115
Caddy III Denso compressor 7SEU17C	03/2004–09	R134a	500–550	PAG	PAO 68 or PAG ISO 46	130–150
Caddy III Sanden compressor	03/2004–09	R134a	500–550	PAG	PAO 68 or PAG ISO 46	100–120



<b>Volkswagen</b>						
Caddy III Denso compressor 7SEU16C	03/2004–09	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	180
Caddy III Zexel compressor	03/2004–09	R134a	500–550	PAG	PAO 68 or PAG ISO 46	105–135
Caddy (2CX)	2010–	R134a	525			
compressor: 1K0820808B/C/E/F				PAG 46	PAO 68 or PAG ISO 46	110
compressor: 1K0820859E/M/S + 7H0820803D				PAG 46	PAO 68 or PAG ISO 46	140
compressor: 1K0820859T				PAG 46	PAO 68 or PAG ISO 46	90
compressor: 5K0820803C				PAG 46	PAO 68 or PAG ISO 46	75
Corrado	07/1992–95	R134a	850–900	G 052 154 A2	PAO 68 or PAG ISO 46	115
Crafter	2006–	R134a	740	G 052 300 A2	PAO 68 or PAG ISO 46	180–200
Crafter with roof air conditioning system	2006–	R134a	1125	G 052 154 A2	PAO 68 or PAG ISO 46	200
Eos (1F)	2006–15	R134a				
compressor: Sanden + Zexel			525	PAG 46	PAO 68 or PAG ISO 46	120
compressor: Denso			525	PAG 46	PAO 68 or PAG ISO 46	90
E-Up	2013–	R134a	380	G 052 535 M2	PAO 68 AA1	150
E-Golf	03/2017–	R134a	500	G 052 535 M2	PAO 68 AA1	120





<b>Volkswagen</b>						
E-Golf with heat pump	03/2017–	R134a	950			
compressor: 5QE820803				G 052 535 M2	PAO 68 AA1	200
compressor: 5QE816803A + 5QE820803A				G 052 535 M2	PAO 68 AA1	250
E-Golf	03/2017–	R1234yf	430	G 052 535 M2	PAO 68 AA1	120
E-Golf with heat pump	03/2017–	R1234yf	850	G 052 535 M2	PAO 68 AA1	250
Fox Delphi compressor	2005–11	R134a	425–475	G 052 154 A2	PAO 68 or PAG ISO 46	150
Golf III/Vento/Cabriolet – Harrison compressor	07/1992–09/97	R134a	800–850	PAG	PAO 68 or PAG ISO 150	250
Sanden compressor	06/1995–09/97	R134a	800–850	G 052 154 A2	PAO 68 or PAG ISO 46	115
Golf IV/Bora	10/1997–05	R134a	750–800	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
Golf V Denso compressor 7SEU17C	2003–08	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	130–150
Golf V Sanden compressor	2003–08	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	100–120
Golf V Zexel compressor	2003–08	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	105–135
Golf V Denso compressor 7SEU16C	2003–08	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	180
Golf VI Sanden/Delphi compressor	2008–	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	110



## Volkswagen

Golf VI Denso compressor 7SEU17C + ES34	2008–	R134a	525	PAG	PAG 46 or PAO 68	145
Denso compressor 6SEU14C	2008–	R134a	525	PAG	PAG 46 or PAO 68	90
Delphi compressor 6CVC140	2008–	R134a	525	PAG	PAG 46 or PAO 68	110
Golf VII Denso 6SES14C + 6SAS14 compressor	2012–16	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Golf VII MAHLE/Delphi 6CVC140 + Visteon compressor	2012–16	R134a	500	PAG	PAO 68 or PAG ISO 46	120
Golf VII Sanden 11PXE14 compressor	2012–16	R134a	500	PAG	PAG 46 or PAO 68	80
Golf VII Sanden 11PXE14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	80
Golf VII Denso 6SES14C + 6SAS14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	110
Golf VII MAHLE/Delphi 6CVC140 + Visteon compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	120
Jetta Sanden PXE16 compressor	2005–10	R134a	500–550	PAG	PAO 68 or PAG ISO 46	110
Jetta Denso compressor SEU16C	2005–10	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	180
Jetta Zexel compressor	2005–10	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	120
Jetta IV (162) Denso SES14C/Sanden 11PXE14	2010–	R134a	500	PAG	PAG 46 or PAO 68	80
LT Denso compressor	1996–03	R134a	750–800	PAG	PAO 68 or PAG ISO 46	175
LT Sanden compressor	1996–03	R134a	750–800	PAG	PAO 68 or PAG ISO 46	135



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Lupo Sanden compressor	1998–00	R134a	700–750	G 052 154 A2	PAO 68 or PAG ISO 46	105–135
Calsonic compressor	06/1999–05	R134a	550–600	PAG	PAO 68 or PAG ISO 46	140–160
Denso compressor	11/2000–05	R134a	550–575	PAG	PAO 68 or PAG ISO 46	140
Passat	07/1992–97	R134a	1150–1200	G 052 154 A2	PAO 68 or PAG ISO 46	115
Passat right-hand drive – Denso compressor	1996–10/00	R134a	700–750	G 052 300 A2	PAO 68 or PAG ISO 46	250
right-hand drive – Zexel compressor	1996–10/00	R134a	700–750	G 052 154/200 A2	PAO 68 or PAG ISO 46	250
Passat left-hand drive – Denso compressor	1996–10/00	R134a	650–700	G 052 300 A2	PAO 68 or PAG ISO 46	250
left-hand drive – Zexel compressor	1996–10/00	R134a	650–700	G 052 154/200 A2	PAO 68 or PAG ISO 46	250
Passat left-/right-hand drive – Denso compressor	10/2000–05	R134a	600–625	G 052 300 A2	PAG ISO 46 or PAO 68	250
Passat W8 left-hand drive – Denso 7SEU16 compressor	05/2001–05	R134a	500–525	G 052 300 A2	PAG ISO 46 or PAO 68	190–210
Passat (3C) Sanden PXE16 compressor	2005–10	R134a	575–625	G 052 154 A2	PAG ISO 46 or PAO 68	100–120
Zexel DSC17E compressor	2005–10	R134a	575–625	G 052 200 A2	PAG ISO 46 or PAO 68	110–130
Passat (362/365) Sanden/Delphi compressor	2010–11/2011	R134a	600	PAG	PAG 46 or PAO 68	110
Denso compressor 6SEU14C	2010–11/2011	R134a	600	PAG	PAG 46 or PAO 68	90



<b>Volkswagen</b>						
Passat (362/365) Sanden/Delphi compressor	11/2011–	R134a	550	PAG	PAG 46 or PAO 68	110
Denso compressor 6SEU14C	11/2011–	R134a	550	PAG	PAG 46 or PAO 68	90
Passat CC Sanden compressor PXE16	06/2008–	R134a	600	G 052 154 A2	PAO 68 or PAG ISO 46	110
Passat CC Zexel compressor DSC17E	06/2008–	R134a	600	G 052 200 A2	PAO 68 or PAG ISO 46	120
Passat CC Denso compressor 6SEU14	06/2008–	R134a	600	G 052 300 A2	PAO 68 or PAG ISO 46	140
Passat CC Delphi compressor 6CVC140	06/2008–	R134a	600	G 052 154 A2	PAO 68 or PAG ISO 46	110
Passat (B8) Denso/Delphi compressor	11/2014–	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Sanden compressor	11/2014–	R134a	500	G 052 154 A2	PAO 68 or PAG ISO 46	80
Passat (B8) Denso 6SES14C + 6SAS14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	110
Passat (B8) MAHLE/Delphi 6CVC140 + Visteon compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	120
Passat (B8) Sanden 11PXE14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	80
Phaeton 7SB-16/7SEU16C compressor	2002–14	R134a	575–625	G 052 300 A2	PAG ISO 46 or PAO 68	190–210
Polo	1994–02	R134a	700–750	G 052 154 A2	PAO 68 or PAG ISO 46	100
Polo Classic	1996–02	R134a	850–880	G 052 154 A2	PAO 68 or PAG ISO 46	115
Polo estate	1997–02	R134a	850–880	G 052 154 A2	PAO 68 or PAG ISO 46	120–150



<b>Volkswagen</b>						
Polo 1.2 i/1.2 i 12 V/1.4 i/1.4 TDI/1.6 i/1.9 SDI/1.9 TDI/1.4 FSI	2002–05/05	R134a	550–575	G 052 300 A2	PAO 68 or PAG ISO 46	140
Polo compressor: 6Q0 820 803J	05/2005–06/09	R134a	550	G 052 300 A2	PAO 68 or PAG ISO 46	95
Polo Denso compressor SEU16C	05/2005–06/09	R134a	550	G 052 300 A2	PAO 68 or PAG ISO 46	180
Polo (6R) 1.2 i/1.6 TDI Denso 6SEU14/C compressor	06/2009–14	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	90
Polo (6R) 1.2 i/1.6 TDI Delphi 6CVC140 compressor	06/2009–14	R134a	500	G 052 300 A2	PAO 68 or PAG ISO 46	110
Polo (6C) Delphi 6CVC140 + Sanden 6PXE14/7PXE16	2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Polo (6C) Sanden 11PXE14 compressor	2014–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Polo (6C) Denso 6SES14C + 6SAS14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	110
Polo (6C) MAHLE/Delphi 6CVC140 + Visteon compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	120
Polo (6C) Sanden 11PXE14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	80
Scirocco	2008–	R134a	525	PAG	PAO 68 or PAG ISO 46	90
Sharan	1995–04/00	R134a	950–1000	G 052 154 A2	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	1995–04/00	R134a	1350–1400	G 052 154 A2	PAO 68 or PAG ISO 46	240
Sharan	04/2000–10	R134a	700–750	PAG	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	04/2000–10	R134a	1050–1100	PAG	PAO 68 or PAG ISO 46	240



<b>Volkswagen</b>						
Sharan (7N) Sanden/Valeo compressor	2010–	R134a	600	PAG	PAG 46 or PAO 68	110
with air conditioning system at rear	2010–	R134a	950	PAG	PAG 46 or PAO 68	210
Sharan (7N) Denso 7SEU17C compressor	2010–	R134a	600	PAG	PAG 46 or PAO 68	140
with air conditioning system at rear	2010–	R134a	950	PAG	PAG 46 or PAO 68	240
Tiguan Denso compressor 6SEU14C	2007–16	R134a	660	G 052 300 A2	PAO 68 or PAG ISO 46	90
Tiguan Denso compressor 7SEU16C	2007–16	R134a	660	G 052 300 A2	PAO 68 or PAG ISO 46	180
Tiguan Sanden compressor PXE17	2007–16	R134a	660	G 052 154 A2	PAO 68 or PAG ISO 46	110
Tiguan (AD1) Denso 6SES14C + 6SAS14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	110
Tiguan (AD1) MAHLE/Delphi 6CVC140 + Visteon compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	120
Tiguan (AD1) Sanden 11PXE14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	80
Touareg 7SEU16C compressor	2002–09	R134a	650–750	G 052 300 A2	PAO 68 or PAG ISO 46	190–210
with air conditioning system at rear	2002–09	R134a	1000–1100	G 052 300 A2	PAO 68 or PAG ISO 46	280–320
Touareg 7SEU17C compressor	2004–10	R134a	650–750	G 052 300 A2	PAO 68 or PAG ISO 46	130–150
with air conditioning system at rear	2004–10	R134a	1000–1000	G 052 300 A2	PAO 68 or PAG ISO 46	220–260



## Volkswagen

Touareg (7P5) compressor 6SEU14	04/2010–	R134a	850	PAG	PAO 68 or PAG ISO 46	130
with air conditioning system at rear	04/2010–	R134a	1150	PAG	PAO 68 or PAG ISO 46	230
Touareg (7P5) 7SEU17C compressor	04/2010–16	R134a	850	PAG	PAO 68 or PAG ISO 46	160
with air conditioning system at rear	04/2010–16	R134a	1150	PAG	PAO 68 or PAG ISO 46	260
Touareg 6SEU14 compressor	2016–	R1234yf	800	N 052 535 A0/B0	PAO 68 AA1	130
with air conditioning system at rear	2016–	R1234yf	1000	N 052 535 A0/B0	PAO 68 AA1	230
Touareg 7SEU17C compressor	2016–	R1234yf	800	N 052 535 A0/B0	PAO 68 AA1	160
with air conditioning system at rear	2016–	R1234yf	1000	N 052 535 A0/B0	PAO 68 AA1	260
Touareg ES34 compressor	2016–	R1234yf	800	N 052 535 A0/B0	PAO 68 AA1	150
Touran Denso compressor 7SEU17C	2003–15	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	130–150
Touran Sanden compressor	2003–15	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	100–120
Touran Zexel compressor	2003–15	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	105–135
Touran Denso compressor 7SEU16C	2003–15	R134a	500–550	G 052 300 A2	PAO 68 or PAG ISO 46	180
Touran (5T1) Denso 6SES14C + 6SAS14 compressor	05/2015–	R134a	500	PAG	PAO 68 or PAG ISO 46	110
Touran (5T1) MAHLE/Delphi 6CVC140 + Visteon compressor	05/2015–	R134a	500	PAG	PAO 68 or PAG ISO 46	120



## Volkswagen

Touran (5T1) Sanden 11PXE14 compressor	05/2015–	R134a	500	PAG	PAO 68 or PAG ISO 46	80
Touran (5T1) Denso 6SES14C + 6SAS14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	110
Touran (5T1) MAHLE/Delphi 6CVC140 + Visteon compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	120
Touran (5T1) Sanden 11PXE14 compressor	2016–	R1234yf	460	N 052 535 A0/B0	PAO 68 AA1	80
Transporter – Sanden compressor SD7H15	05/1992–95	R134a	950–1000	G 052 100 A2	PAO 68 or PAG ISO 100	135
with air conditioning system at rear	05/1992–95	R134a	1350–1400	G 052 100 A2	PAO 68 or PAG ISO 100	240
long wheelbase with air conditioning system at rear	1993–95	R134a	1400–1450	G 052 100 A2	PAO 68 or PAG ISO 100	240
Transporter – Sanden compressor SD7V16	1995–03	R134a	950–1000	G 052 154 A2	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	1995–03	R134a	1350–1400	G 052 154 A2	PAO 68 or PAG ISO 46	240
long wheelbase with air conditioning system at rear	1995–03	R134a	1400–1450	G 052 154 A2	PAO 68 or PAG ISO 46	240
Transporter 2.8 i 16 V	2000–03	R134a	1125	PAG	PAO 68 or PAG ISO 46	135
with air conditioning system at rear	2000–03	R134a	1425	PAG	PAO 68 or PAG ISO 46	240
Transporter T5 (7H/7J) Denso 7SEU16C compressor	2003–10/09	R134a	600–700	G 052 300 A2	PAO 68 or PAG ISO 46	190–210
with air conditioning system at rear	2003–10/09	R134a	950	G 052 300 A2	PAO 68 or PAG ISO 46	300





<b>Volkswagen</b>						
Transporter T5 (7H/7J) Sanden SD7V16 compressor	2003–10/09	R134a	600–700	G 052 154 A2	PAO 68 or PAG ISO 46	120–150
with air conditioning system at rear	2003–10/09	R134a	1000–1100	G 052 154 A2	PAO 68 or PAG ISO 46	210–260
Transporter T5 (7H/7J) Denso 7SEU16C compressor	10/2009–	R134a	650	G 052 300 A2	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	10/2009–	R134a	950	G 052 300 A2	PAO 68 or PAG ISO 46	240
Transporter T5 (7H/7J) Sanden SD7V16 compressor	10/2009–	R134a	650	G 052 154 A2	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	10/2009–	R134a	950	G 052 300 A2	PAO 68 or PAG ISO 46	240
Transporter T5 (7H/7J) Denso 6SEU14C/7SEU17C	10/2009–	R134a	525	G 052 300 A2	PAO 68 or PAG ISO 46	140
with air conditioning system at rear	10/2009–	R134a	825	G 052 300 A2	PAO 68 or PAG ISO 46	240
Transporter T6	2015–	R134a	600			
with air conditioning system at rear			900			
compressor: 7E0820803P/R				PAG 46	PAO 68 or PAG ISO 46	140
with air conditioning system at rear				PAG 46	PAO 68 or PAG ISO 46	220
compressor: 7E0820803N/Q				PAG 46	PAO 68 or PAG ISO 46	140
with air conditioning system at rear				PAG 46	PAO 68 or PAG ISO 46	250



## Volkswagen

compressor: 7E0820803M				PAG 46	PAO 68 or PAG ISO 46	60
with air conditioning system at rear				PAG 46	PAO 68 or PAG ISO 46	100
compressor: 5Q0820803F				PAG 46	PAO 68 or PAG ISO 46	110
with air conditioning system at rear				PAG 46	PAO 68 or PAG ISO 46	150
T-Roc MAHLE compressor	07/2017–	R134a	500	G 052 154 A2	PAO 68 AA1 or PAG ISO 46	110
T-Roc Sanden compressor	07/2017–	R134a	500	G 052 154 A2	PAO 68 AA1 or PAG ISO 46	75
T-Roc Denso compressor	07/2017–	R1234yf	460	G 055 535 M2	PAO 68 AA1 or PAG ISO 46 YF	110
Up Doowon DV9 compressor	2012–	R134a	380	PAG	PAG 46 or PAO 68	120
Up Doowon DV9 compressor	2016–	R1234yf	330	N 052 535 A0/B0	PAO 68 AA1	120
Up with TSI engine and Doowon DV9 compressor	2016–	R1234yf	450	N 052 535 A0/B0	PAO 68 AA1	120
<b>Volvo</b>						
240	1993–94	R134a	750	1161426-0	PAO 68 or PAG ISO 100	220
440/460/480 – Zexel compressor	1994–97	R134a	650	1161407-0	PAO 68 or PAG ISO 46	180–220
Sanden compressor	1994–97	R134a	650	1161407-0	PAO 68 or PAG ISO 46	160–200



<b>Volvo</b>						
850	1991–97	R134a	750–825	PAG	PAO 68 or PAG ISO 46	200
900 Series 4-cylinder engine – Seiko compressor	1993–98	R134a	950	1161426-0	PAO 68 or PAG ISO 100	220
Sanden compressor	1993–98	R134a	950	1161425-2	PAO 68 or PAG ISO 100	240
Zexel compressor	1993–98	R134a	950	1161407-0	PAO 68 or PAG ISO 46	200
900 Series 6-cylinder engine – Seiko compressor	1993–97	R134a	900	1161426-0	PAO 68 or PAG ISO 100	220
Sanden compressor	1993–97	R134a	900	1161425-2	PAO 68 or PAG ISO 100	240
Zexel compressor	1993–97	R134a	900	1161407-0	PAO 68 or PAG ISO 46	200
C30	2007–	R134a	535	PAG	PAO 68 or PAG ISO 46	200
C70	1998–06	R134a	750–850	PAG	PAO 68 or PAG ISO 46	200
C70	2006–	R134a	535	PAG	PAO 68 or PAG ISO 46	200
S40/V40	1997–03	R134a	900	1161407-0	PAO 68 or PAG ISO 46	180
S40/V40 1.8 GDI	1998	R134a	750	1161407-0	PAO 68 or PAG ISO 46	120–140
S40/V40 1.8 GDI	1999–03	R134a	850	1161407-0	PAO 68 or PAG ISO 46	150–180
S40/V40 diesel	1996–98	R134a	900	1161407-0	PAO 68 or PAG ISO 46	135
S40/V40 diesel	1999–03	R134a	850	PAG	PAO 68 or PAG ISO 46	135



Volvo						
S40 II (MS)	2004–	R134a	500–570	ZXL100PG	PAO 68 or PAG ISO 46	200
S60	2000–05	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180
S60 with Komo (h)	2006–10	R134a	700	11616270	PAO 68 or PAG ISO 46	180
S60 II	04/2010–	R134a	820	PAG	PAO 68 or PAG ISO 46	n/a
S70	1997–11/00	R134a	750–850	PAG	PAO 68 or PAG ISO 46	200
S80	1998–06	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180
S80	2006–	R134a	650	PAG	PAO 68 or PAG ISO 46	180
S/V90 – Zexel compressor	1997–99	R134a	900	1161407-0	PAO 68 or PAG ISO 46	200
Sanden compressor	1997–99	R134a	900	1161425-2	PAO 68 or PAG ISO 100	240
V40	03/2012–	R134a	635	161627	PAO 68 or PAG ISO 46	n/a
V50	2004–	R134a	500–570	PAG	PAO or PAG ISO 46	200
V60	2011–	R134a	820	PAG	PAO 68 or PAG ISO 46	n/a
V70 I	1997–00	R134a	750–850	PAG	PAO 68 or PAG ISO 46	200
V70 II	03/2000–07	R134a	1000	PAG	PAO 68 or PAG ISO 46	180
V70 III (BW)	2007–	R134a	820	PAG	PAO 68 or PAG ISO 46	180



Volvo						
XC60	2008–	R134a	820	1161627	PAO 68 or PAG ISO 46	180
XC70	2002–07	R134a	1000	1161407-0	PAO 68 or PAG ISO 46	180
XC70 II	2007–	R134a	800	PAG	PAO 68 or PAG ISO 46	180
XC90	2002–06	R134a	1000	1161627	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	2002–06	R134a	1300	1161627	PAO 68 or PAG ISO 46	200
XC90 with Komo (h)	2006–14	R134a	700	PAG	PAO 68 or PAG ISO 46	180
with air conditioning system at rear	2006–14	R134a	1050	PAG	PAO 68 or PAG ISO 46	200
XC90 II engine: B4204T11/T14T/20/T/23/T27	09/2014–	R1234yf	650	31369128	PAO 68 AA1 or PAG YF	60
with air conditioning system at rear	09/2014–	R1234yf	900	31369128	PAO 68 AA1 or PAG YF	90
XC90 II engine: B4204T35 + B4204T28 with A/C system at rear	09/2014–	R1234yf	1000	31369128	PAO 68 AA1 or PAG YF	120

# Notes on passenger cars (\*)

1	Condenser with round tubes
2	Condenser with flat tubes
3	Condenser 16 mm
4	Condenser 23 mm
5	Rear engine
6	Front engine
7	Expansion valve, old type
8	Expansion valve, new type
9	See sticker in the engine compartment
n/a	Total quantity for system unknown or not indicated by manufacturer—see sticker in engine compartment or on compressor, if applicable
q	Quantity dependent on configuration—see sticker in engine compartment or on compressor
w	Condenser 18 mm
e	Condenser 20 mm

VIN = vehicle identification no.

# Notes on passenger cars (\*)

f	Thickness of flat condenser tube
g	Without oil cooler
h	Condenser module, drier integrated in condenser
i	ORGA/identification no./see info in A-/B-column area

VIN = vehicle identification no.



<b>Daewoo/Avia</b>					
D75/D90 3.9 D	2002-09	850	PAG	PAO 68	n/a
<b>DAF</b>					
45	1996-01	1000	SP 10	PAO 68 or PAG ISO 46	175
LF 45	2001-11	1000	SP 10	PAO 68 or PAG ISO 46	175
LF 55	2001-11	1000	SP 10	PAO 68 or PAG ISO 46	175
65	1990-93	850	SP 10	PAO 68 or PAG ISO 46	135
CF 65	2001-11	850	SP 10	PAO 68 or PAG ISO 46	175
75	1990-93	900	SP 10	PAO 68 or PAG ISO 46	175
CF 75	2001-11	850	SP 10	PAO 68 or PAG ISO 46	135
85	1991-93	900	SP 10	PAO 68 or PAG ISO 46	175
CF 85	2001-11	850	SP 10	PAO 68 or PAG ISO 46	135
95	1991-93	1000	SP 10	PAO 68 or PAG ISO 46	175
95 XF	1997-03	700	SP 10	PAO 68 or PAG ISO 46	135
XF 95	2002-	700	PAG	PAO 68 or PAG ISO 46	135
XF105	2005-	700	PAG	PAO 68 or PAG ISO 46	135





<b>Isuzu</b>					
Grafter 1.9 D N35.125 compressor: DKS	2008–	380	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
Grafter 1.9 D N35.125 compressor: 10S13C	2008–	380	ZXL100PG	PAO 68 AA1 or PAG ISO 46	100
Grafter 3.0 D N35.120/150 Euro 6 compressor: DKS	2014–	380	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
Grafter 3.0 D N35.120/150 Euro 6 compressor: 10S13C	2014–	380	ZXL100PG	PAO 68 AA1 or PAG ISO 46	100
Grafter 5.2 D N75.190	2008–11				
condenser horizontal design		500	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
condenser vertical design		400	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
N Series 3.0 D N35/50/62 (NLR/NMR/NNR/NPR)	2008–11				
condenser horizontal design		500	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
condenser vertical design		400	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
N Series 4.3 D (NKR/NPR) + 5.2 D N75 (NPR)	2006–11				
condenser horizontal design		500	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
condenser vertical design		400	ZXL100PG	PAO 68 AA1 or PAG ISO 46	150
N Series 5.2 D/2.8 D	2005–08	450	ZXL100PG	PAO 68 or PAG ISO 46	180

**Iveco**

DAILY II	1996–99	800	SP 20	PAO 68 or PAG ISO 100	135
DAILY III	1999–06	720	SP 20	PAO 68 or PAG ISO 100	135
DAILY III	1999–06	Combi: 1200	SP 20	PAO 68 or PAG ISO 100	180
DAILY IV (F1A) external drier	05/2006–11	720	ND8	PAO 68 or PAG ISO 46	n/a
DAILY IV (F1C) integrated drier	05/2006–11	440	ND8	PAO 68 or PAG ISO 46	n/a
Daily IV BUS	05/2006–2011	1200	ND8	PAO 68 AA1 or PAG ISO 46	180
Daily V 2.3 D (29/35/40)/3.0 D (35/40/45/50/60/65/70)	2011–14	460	ND8	PAO 68 AA1 or PAG ISO 46	130
Daily V BUS 2.3 D (29/35/40)/3.0 D (35/40/45/50/60/65/70)	2011–14	1200	ND8	PAO 68 AA1 or PAG ISO 46	180
Daily V 3.0 i (35/40/50/65)	2011–14	460	ND8	PAO 68 AA1 or PAG ISO 46	130
Daily V BUS 3.0 i (35/40/50/65)	2011–14	1200	ND8	PAO 68 AA1 or PAG ISO 46	180
Daily VI 2.3 D (30/33/35)/3.0 D (35/40/45/50/60/65/70)	2014–19	475	ND8	PAO 68 AA1 or PAG ISO 46	130
Daily VI 3.0 i (35/40/50/65)	2014–19	475	ND8	PAO 68 AA1 or PAG ISO 46	130
Daily VII	2019–	475	PAG	PAO 68 AA1	n/a
EUROCARGO	1991–01	2 condensers: 1600	SP 20	PAO 68 or PAG ISO 100	135
EUROCARGO	2001–05/03	1020	PAG	PAO 68	n/a

**Iveco**

EUROCARGO	05/2003–	440	PAG	PAO 68	n/a
EUROSTAR	1992–00	1700	SP 20	PAO 68 or PAG ISO 100	135
EUROSTAR	1992–00	Side condenser: 1900	SP 20	PAO 68 or PAG ISO 100	200
EUROSTAR	2000–04	1700	ND8	PAO 68 or PAG ISO 46	135
EUROTECH	1992–99	1700	SP 20	PAO 68 or PAG ISO 100	135
EUROTECH	1992–99	Side condenser: 1900	SP 20	PAO 68 or PAG ISO 100	200
EUROTECH	2000–08	1700	ND8	PAO 68 or PAG ISO 46	200
EUROTRAKKER	2000–04	1700	SP 10	PAO 68 or PAG ISO 46	200
STRALIS AT/AD	2001–12	700	ND8	PAO 68 or PAG ISO 46	180
STRALIS AT/AD	2001–12	Side condenser: 1400	ND8	PAO 68 or PAG ISO 46	200
STRALIS HI-WAY	2012–	700	ND8	PAO 68 or PAG ISO 46	n/a
S–Way	2019–	725	PAG	PAO 68 AA1	n/a
TRAKKER	10/2004–	700	ND8	PAO 68 or PAG ISO 46	200



## MAN

F 2000	1995–99	1150	(1)	(1)	180
F 2000	1999–	Round-tube condenser: 1150	(1)	(1)	180
F 2000	1999–	Flat-tube condenser: 950	(1)	(1)	180
L 2000	1995–99	1250	(1)	(1)	180
L 2000	2000–	Round-tube condenser: 1150	(1)	(1)	180
L 2000	2000–	Flat-tube condenser: 950	(1)	(1)	180
M 2000 L	1995–99	1250	(1)	(1)	180
M 2000 M	1995–99	1150	(1)	(1)	180
M 2000	1999–	Round-tube condenser: 1150	(1)	(1)	180
M 2000	1999–	Flat-tube condenser: 950	(1)	(1)	180
M 90	1990–96	1250	(1)	(1)	180
TGA	2000–09	900	Fuchs Reniso PAG 46	PAO 68 or PAG ISO 46	250
TGA with standstill air conditioning	2000–09	1050	Fuchs Reniso PAG 46	PAO 68 or PAG ISO 46	280
TGE	2017–	570	PAG	PAO 68 AA1	n/a
TGE with air conditioning system at rear	2017–	820	PAG	PAO 68 AA1	n/a

**MAN**

TGL without/with double cabin	2005–	750	PAG 46	PAO 68 or PAG ISO 46	150
TGM without/with double cabin	2005–	750	PAG	PAO 68	n/a
TGS vehicle type S/X Euro 2–4	10/2007–	950	PAG	PAO 68	n/a
with standstill air conditioning	10/2007–	1050	PAG	PAO 68	n/a
TGS vehicle type S/X Euro 5 with AdBlue	10/2007–	950	PAG	PAO 68 AA1	n/a
TGS vehicle type S/X Euro 5 without AdBlue	10/2007–	800	PAG	PAO 68 AA1	n/a
TGS vehicle type S/X Euro 6	2013–	800	PAG	PAO 68 AA1	n/a
TGX vehicle type E/F/J/K with standstill air conditioning	10/2007–	800	PAG	PAO 68 AA1	n/a
TGX vehicle type S/X Euro 2–4	10/2007–	950	PAG	PAO 68	n/a
with standstill air conditioning	10/2007–	1050	PAG	PAO 68	n/a
TGX vehicle type S/X Euro 5 with AdBlue	10/2007–	950	PAG	PAO 68 AA1	n/a
TGX vehicle type S/X Euro 5 without AdBlue + Euro 6	10/2007–	800	PAG	PAO 68 AA1	n/a
TGX vehicle type S/X Euro 6	2013–	800	PAG	PAO 68 AA1	n/a



## Mercedes-Benz

ACTROS 1996	1997-02	1100	ND8	PAO 68 or PAG ISO 46	160
ACTROS 2003	2003-11/11	1100-1200	ND8	PAO 68 or PAG ISO 46	175
ACTROS 2003	2003-11/11	1600 with standstill A/C	ND8	PAO 68 or PAG ISO 46	180
ACTROS	2012-	1080	ND8	PAO 68 or PAG ISO 46	180
ACTROS with standstill air conditioning (code D6H)	2012-	1280	ND8	PAO 68 or PAG ISO 46	210
ACTROS with electric standstill air conditioning (code D6C)	2012-	1150	ND8	PAO 68 AA1 or PAG ISO 46	n/a
AROCS	2013-	1080	ND8	PAO 68 or PAG ISO 46	110
AROCS with standstill air conditioning (code D6H)	2013-	1280	ND8	PAO 68 or PAG ISO 46	120
AROCS with electric standstill air conditioning (code D6C)	2013-	1150	ND8	PAO 68 AA1 or PAG ISO 46	n/a
ANTOS	2012-	1080	ND8	PAO 68 or PAG ISO 46	180
ANTOS with standstill air conditioning (code D6H)	2012-	1280	ND8	PAO 68 or PAG ISO 46	210
ATEGO I	1998-04	1000	ND8	PAO 68 or PAG ISO 46	160
ATEGO II (970-976) up to chassis no. K956641	2004-	1200	ND8	PAO 68 or PAG ISO 46	160
ATEGO II (970-976) from chassis no. K956642	2004-	550	ND8	PAO 68 or PAG ISO 46	160
ATEGO (967)	2013-	550	ND8	PAO 68 or PAG ISO 46	n/a



## Mercedes-Benz

AXOR	2001–10/04	1100–1200	ND8	PAO 68 or PAG ISO 46	175
AXOR II	10/2004–	1100	PAG	PAO 68	n/a
ECONIC	1998–11	800	ND8	PAO 68 or PAG ISO 46	160
T1/TN 407–410	1993–95	700	A001 989 08 03	PAO 68 or PAG ISO 46	120
T2/LN1 507–711	1993–95	860	A001 989 08 03	PAO 68 or PAG ISO 46	120
UNIMOG U300–500	2000–04	1400	A001 989 08 03	PAO 68 or PAG ISO 46	150
VARIO	1996–13	1225	A001 989 08 03	PAO 68 or PAG ISO 46	160
ZETROS	2008–	1250	Ester Oil		n/a

## Mitsubishi

Canter	2006–	650	Sunpag 46	PAO 68 or PAG ISO 46	125
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## Nissan

ATLEON 110, 140 Ch. -> 514109	1999–	900 ± 50	Nissan Type S	PAO 68 or PAG ISO 46	260 ± 10
ATLEON 165, 210 Ch. -> 514109	1999–	950 ± 50	Nissan Type S	PAO 68 or PAG ISO 46	260 ± 10
ATLEON Ch. 514110 ->	1999–	750	Nissan Type S	PAO 68 or PAG ISO 46	260 ± 10



<b>Nissan</b>					
CABSTAR E	1998–	750	Nissan Type S	PAO 68 or PAG ISO 46	260 ± 10
CABSTAR	10/2006–	300	PAG	PAO 68 or PAG ISO 46	150
<b>Renault V.I.</b>					
KERAX	1997–99	1400	SP 20	PAO 68 or PAG ISO 100	165
KERAX	2002–06	1550	SP 20	PAO 68 or PAG ISO 100	165
KERAX	2007–	1250	PAG	PAO 68	175
MAGNUM	1996–99	1450	SP 20	PAO 68 or PAG ISO 100	165
MAGNUM E-TECH	2000–	1450	SP 20	PAO 68 or PAG ISO 100	165
MASCOTT 2.8 D dCi	1999–10	890	CLIM 488	PAO 68	135
MASCOTT 3.0 D DXi	2007–	750	PAG	PAO 68 or PAG ISO 46	135
Maxity 2.5 D/3.0 D	2007–	300	PAG	PAO 68 or PAG ISO 46	150
MIDLINER M	1996–99	1200	CLIM 488	PAO 68	165
MIDLINER S	1995–99	1200	CLIM 488	PAO 68	165
MIDLUM	1999–	1200	CLIM 488	PAO 68	165





### Renault V.I.

PREMIUM	1996–06	1400	SP 20	PAO 68 or PAG ISO 100	165
PREMIUM II	10/2005–	1200	PAG	PAO 68	175

### Scania

93 H, M	1988–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
94 C, D, G, L	1996–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
113 E, H, M	1991–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
114 C, G, L	1998–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
124 C, G, L	1996–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
143 E, H, M	1991–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
144 C, G, L	1995–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
164 C, G, L	2000–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
G Series	2004–	1250	PAG	PAO 68 or PAG ISO 46	240
P Series	2004–	1250	PAG	PAO 68 or PAG ISO 46	240
R Series	2004–10	1250	PAG REF. 584110	PAO 68 or PAG ISO 46	240



<b>Scania</b>					
T 93 H	1990–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
T 94 C, G, L	1996–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
T 113 E, H	1990–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
T 114 C, G, L	1998–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
T 124 C, G, L	1996–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
T 143 E, H	1991–96	800	PAG REF. 584077	PAO 68 or PAG ISO 46	175
T 144 C, G, L	1995–	1450	PAG REF. 584110	PAO 68 or PAG ISO 46	240
<b>Toyota</b>					
Coaster	1998–14	1980	ND8	PAO 68 AA1 or PAG ISO 46	n/a
Dyna 4.1 D	1997–01	650	ND8	PAO 68 AA1 or PAG ISO 46	n/a
Dyna 2.5 D	2001–07	500	ND8	PAO 68 AA1 or PAG ISO 46	n/a
<b>Volvo</b>					
F 10	1990–93	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310
F 12	1990–93	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310



## Volvo

F 16	1990–93	1400	VOLVO 1160048	PAO 68 or PAG ISO 46	310
FE	05/2006–	1280	PAG	PAO 68	175
FH	01/2003–	1150–1200	PAG	PAO 68	n/a
FH 12	1993–01	1200	PAG SP 10	PAO 68 or PAG ISO 46	175
FH 13	2005–	1250	1161425-2	PAO 68 or PAG ISO 100	175
FH 16	1993–99	1150	VOLVO 1161425-2	PAO 68 or PAG ISO 100	175
FL 6	1993–99	1150	VOLVO 1161425-2	PAO 68 or PAG ISO 100	175
FL II	05/2006–	1200	PAG	PAO 68	175
FM 7	1998–	1150	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 9	2001–09	1200	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 10	1999–	1150	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 12	1998–09/05	1200	VOLVO 1161629	PAO 68 or PAG ISO 46	175
FM 13	09/2005–	1250	1161425-2	PAO 68 or PAG ISO 100	175
FMX	2010–	1250	PAG	PAO 68 or PAG ISO 100	175
NH 12	1999–08	1250	1161629	PAO 68 or PAG ISO 46	175

# Notes on trucks

(1)	OE	BEHR
Compressor	Unicla: PAG OIL UNIDAP	PAO 68 or PAG ISO 46
Compressor	Zexel: PAG OIL ZEXEL ZXL100PG	PAO 68 or PAG ISO 46
Compressor	Sanden: PAG OIL SP 20	PAO 68 or PAG ISO 100
Compressor	Nippondenso: PAG OIL ND8	PAO 68 or PAG ISO 46
Compressor	Kiki: FUCHS RENISO PAG 46"	PAO 68 or PAG ISO 46

Oil filling quantity "n/a" = details unknown or not provided by manufacturer