



CoolDrive
DISTRIBUTION

Refrigerant Charge Rates

04-06 800 +/- 25
93-96 700 +/- 50
97-03 650 +/- 25
03-06 750 +/- 25
98-97 750
93-97 800 +/- 25
01-06 600 +/- 20
94-97 625 +/- 25
98-02 675 +/- 72
03-06 525 +/- 72
03-06 525 +/- 72
94-95 525 +/- 25
96-00 625 +/- 25
00-03 525 +/- 25
95-01 625 +/- 25
07-08 505 +/- 25
94-98 525 +/- 25
01-04 500 +/- 25
94-01 625 +/- 25
01-06 525 +/- 72
02-08 425 +/- 25
01-08 600 +/- 20
94-97 625 +/- 25
98-02 625 +/- 25
03-08 525 +/- 25
03-08 525 +/- 25
94-95 525 +/- 25
96-00 625 +/- 25
02-06 505 +/- 25
94-96 525 +/- 25
01-06 500 +/- 20
94-97 625 +/- 25
94-97 625 +/- 25
01-06 500 +/- 20
99-01 625 +/- 25

GasChart



CoolDrive
DISTRIBUTION



**Includes: Pressure Temperature Chart
Compressor Oil Charge Guide.**

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CoolDrive Come to You!

No.1 in Delivery & Collection Services.

To save you time & money, CoolDrive provide the industry's leading refrigerant delivery and reclaim program.

- We deliver you a new refrigerant cylinder & collect your full used cylinder to **reclaim**.

Part Number	Product Description
OG0011	R134a Refrigerant x 11Kg
OG0022	R134a Refrigerant x 22Kg
OG0045	R134a Refrigerant x 45Kg
OG0065	R134a Refrigerant x 65Kg
OG0430	R134a Refrigerant x 430Kg
OG0404-08	R404a Refrigerant x 8Kg
OG0404	R404a Refrigerant x 16Kg
OG0404-50	R404a Refrigerant x 50Kg
RC0012R	Reclaim Refrigerant x 12Kg
RC0022R	Reclaim Refrigerant x 22Kg

In addition to these standard sizes CoolDrive also sell Refrigerant by the kg & refill any size gas bottle.

Please contact CoolDrive for more information.



***No Rental Charges**
Fully refunded cylinder deposit

Oil charge determination for long hose applications.

THU Systems, Less than 1600g Refrigerant Charge

The desired oil charge for the systems with unusually long hoses, such as trucks, tractors, etc., can be determined based on the total refrigerant charge when less than than 1600g refrigerant is used.

Calculate the desired oil charge as below:

SD5H14: Oil amount (cc) = (Refrigerant charge in grams x 0.125)+40.

SD7H15: Oil amount (cc) = (Refrigerant charge in grams x 0.06)+60 ÷ 0.9.

For a new compressor to be used in this type of system, subtract the standard oil charge from the desired total oil charge to determine how much oil should be added to the compressor.

Remove the oil filler plug and charge the compressor with the amount of additional oil determined in step 3. Use only new oil of the correct type. Reinstall oil plug. Seat and O-ring must be clean and not damaged. Torque to 15-25 Nm, 150-200 kgf cm.

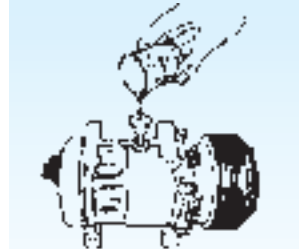
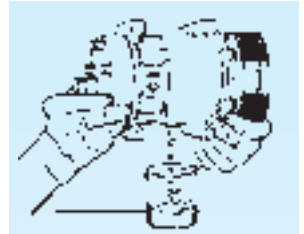
THU Systems, More than 1600g of Refrigerant

For systems with more than 1600g refrigerant, on-vehicle testing is required to determine oil charge.

- Charge system with refrigerant.
- Set up the vehicle as follows:
Doors open
Maximum blower speed
Ambient temp. at least 24°C.

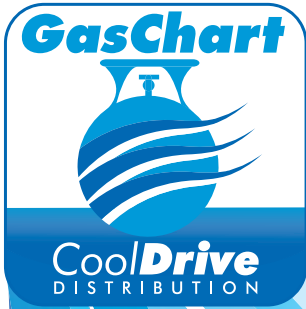


- Run the compressor at one of the speeds listed in the table below for 10-15 minutes.
- While maintaining engine speed, turn off A/C system and immediately turn off engine.
- Recover refrigerant from the system.
- Remove compressor from vehicle.
- Remove the oil plug and drain as much oil as possible into a suitable container.
- Drain oil from the suction and discharge ports into a suitable container while turning the shaft clockwise only with a socket wrench on the armature retaining nut.
- Measure and record the volume of the oil drained from the compressor.
- Approximately 15cc will remain in the compressor as a film coating the internal surfaces. Add 15cc to the recorded volume of the oil. This is the calculated amount of oil in the compressor.
- The amount of oil in the compressor after running for 10-15 minutes should be as per the table at right, if the proper amount of oil was in the system. Determine from the table what the correct amount of oil should be for the particular speed. (The table shown applies to SD5H14 compressors. Other compressors will exhibit a lesser oil amount dependent upon type. It is important that a quantity of oil remains in the crankcase after the test.)
- Compare the desired amount of oil with the calculated actual amount of oil in the compressor. If the amount of oil actually in the compressor (amount drained plus 15cc is less than the desired amount of oil, add oil as necessary to the container and pour back into the compressor, if the amount of oil actually in the compressor is too much, remove oil from the container until the correct amount is reached and pour back into compressor. The amount of oil poured back into the compressor should equal the desired amount (from the table), minus 15cc.
Use the correct oil type.
- Reinstall oil plug. Seal and O-ring must be clean and not damaged. Torque to 15-20 Nm, 150-200 kgf cm.



Compressor RPM	Oil in compressor	
	fl. oz.	cc
1,000	3.4	100
2,000	2.5	75
3,000	1.7	50
4,000	1.3	40
5,000	1.2	35





Refrigerant Charge Rates

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Anytime.
Anywhere.

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at your fingertips



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Refrigerant Charge Rates:

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Refrigerant Charge Rates



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Daewoo	15-16	Opel	47
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Daihatsu	16	Pontiac	48
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Ford	17-21	Renault	49-50
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Hummer	25	Scania - Truck	52
Hyundai	25-27	Seat	52
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Jaguar	28-29	Subaru	53-54
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Pressure Temperature Chart:

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CoolDrive Branch Locations:





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Refrigerant
**Charge
Rates**











			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Alfa Romeo			
33		88-92	450-475
75		86-92	710-750
90		85-88	710-750
145, 1.6, 1.7, 2.0Lt		94-97	700
146, 1.6, 1.7Lt		95-01	700
147, 1.6Lt		01-06	500-550
155		92-93	950
155		93-97	700
156, 1.9, 2.4Lt		97-01	650
156, 2.4Lt, Facelift		02-09	500
159		5/00-08	450-550
159 Selespeed		09>	460
164		87-93	710-750
164		94-98	1200
166		98-01	700
166		5/01-09	650
Alfetta		87>	450-475
Brera		06>	550
Brera V6		10>	460
Giulietta, 1.4Lt		10-13	450
GT, 3.0Lt V6		97-99	650-750
GT Coupe		03-06	600
GT		04-10	550
GT, 2.0Lt		08>	500-550
GT, 3.0Lt V6		08>	650
GTV, 1.8, 2.0Lt	Includes Turbo	96-99	650-700
GTV, 2.0Lt	Includes Turbo	6/99-03	550-600
GTV, 3.0Lt V6		99-04	550-600
GTV, 1.8Lt		6/00-01	550-600
Mito		09-13	450
Spider, 3.0Lt V6		96-99	650-750
Spider, 3.0Lt V6		06/99-03	550-600
Spider		10/03-04	550-600
Spider		06>	460

Refrigerant Gas





			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Aston Martin			
DB7, DB7 Vantage		94-04	870-930
DB7		04-07	750
DB9		05-08	750
Audi			
80, 5 cyl		10/92-94	750-800
80, 4 cyl, 6 cyl		93-95	600-700
90		>92	800-850
100		>92	750-800
100		93-94	550-650
200		81-90	800-850
A1, 1.4, 1.6Lt		10-13	500
A3		97-02	650-750
A3		03-07	500-525
A3		11>	500-550
A4		94-97	650-700
A4	Showa Condenser	11/97-00	700-750
A4	AWG Condenser	11/98-12/98	550-600
A4 (8EC, 8ED)		11/00-11/04	480-530
A4 B6		01-06	480-530
A4 (8K)	Denso Compressor; 6SEU14, 7SEU17	07>	600
A4	Denso Compressor; 6SAS14, 6SES14	11>	600
A5		07-13	580-620
A6	20mm Condenser	11/97-8/98	850-900
A6	13mm Condenser	8/98-4/99	550-600
A6, V8	Zexel, Denso Compressors	98-4/99	550-660
A6 C5		4/99-10/99	650-700
A6 C6		02-04	650-700
A6, 1.8, 2.7, 2.8Lt	Includes Turbo	4/99-4/04	650-700
A6 2.0, 3.0Lt		4/99-4/04	550-600
A6 (AFN/AVF), 1.9Lt TDi		4/99-4/04	550-600
A6 (AJM,AVG,AWX), 1.9Lt TDi		4/99-4/04	650-700
A6 (AFB/AYM), 2.5Lt TDi		4/99-4/04	550-600
A6 (AKE), 2.5Lt TDi		4/99-4/04	650-700
A6 (AKN, BAU, BCZ, BDG, BDH, BFC), 2.5Lt TDi		4/99-10/99	650-700
A6 (AKN, BAU, BCZ, BDG, BDH, BFC), 2.5Lt TDi		10/99-4/04	650-701





Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
A6 4F		4/04-11	510-550
A6 4G, C7	Zexel, Denso Compressors	11>	570
A8		95-97	750-800
A8		11/97-03	800-850
A8, 3.0, 4.2Lt		97-13	750-800
A8, 3.0, 4.2Lt	Dual A/C	97-13	930
Allroad Quattro, 4.2Lt		98-04	750-800
Allroad Quattro, 2.7Lt	Includes Turbo	01-06	650-700
Allroad Quattro, 4.2Lt		04-06	550-600
Cabriolet		10/92-00	650-700
Cabriolet, 2.3Lt		10/92-94	750-800
Q3	All Compressors	11>	520
Q5	All Compressors	08>	600
Q5	Denso Compressor; 6SAS14, 6SES14	11>	600
Q5, Hybrid		11>	520
Q7, 3.6, 4.2Lt	Dual A/C	06-13	1050-1100
Q7, 3.0, 4.2Lt, Tdi, Diesel	Dual A/C	06-13	1050-1100
R8	Denso Compressor; 7SEU17	07>	650
RS3, 5 cyl		11>	500
RS4		12>	570
RS5		10>	570
S4		94-97	650-700
S4	Showa Condenser	11/97-00	700-750
S4	AWG Condenser	11/98-12/98	550-600
S4		00>	600
S5		00>	600
S6		05-10	530
S8		95-97	750-800
TT (8N)	16mm Condenser	98-06	650
TT (8N)	20mm Condenser	98-06	750-800
TT (8J)	Delphi Compressor	06>	500-550
TT, 2.5, 3.2Lt		09-13	480-520
V8		10/92-93	850-900
BMW			
1 Series (E87), 116i, 118i, 120i		07-11	500
1 Series (E87), 118d, 120d, 123d		07-11	590

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
1 Series (E87), 125i, 130i		07-11	590
1 Series (E88), 118i		11>	490-510
1 Series (E88), 118d		11>	610-630
1 Series (E88), 125i		11>	580-600
1 Series (E82, E88), 120i, 135i		11>	610-620
1 Series		12>	540-560
3 Series (E30), 318i		92-93	775-825
3 Series (E36), 316i, 318i, 318is, 318ti, 323csi, 325i, 328i, 320i, 323i, M3	Tube & Fin Condenser	93-00	975-1025
3 Series (E36), 316i, 318i, 318is, 318ti, 323csi, 325i, 328i, 320i, 323i, M3	Multi Flow Condenser	93-00	800-850
3 Series (E36), 328i		95-99	800-850
3 Series (E36), 335i, 320i		93-96	1525-1575
3 Series (E46), 316ti, 318i, 318ti, 320i, 325i, 325ci		98-05	715-765
3 Series (E46), 320d		01-05	670-690
3 Series (E90, E91, E92, E93)	Denso Compressor; 7SEU17	05-12	600
3 Series (E90, E92, E93), 335i		10>	715-765
3 Series (E90), 330i		>11	590-600
3 Series (E91), 320i, 323i, 325i, 335i, 320d, 330d		05>	580-600
3 Series (F30), 328i		11>	715-765
318i	Behr A/C System	91-91	950-1000
318i Hatch		80-82	800-850
318i Hatch		93-95	975-1025
318i Hatch		95-00	800-850
5 Series (E34), 518i, 520i, 525i, 530i, 540i, M5	Denso Compressor; T&F Condenser	93-96	1525-1575
5 Series (E34), 525i	Denso Compressor; MF Condenser	93-96	1450
5 Series (E34), 525i	Seiko Seiki Compressor; T&F Condenser	93-96	1525-1575
5 Series (E34)	Seiko Seiki Compressor; MF Condenser	9/98-03	1450
5 Series (E39), 520i		93-96	1515-1565
5 Series (E39), 520i	570mm Condenser	96-09/98	1185-1235
5 Series (E39), 520i, 523i, 525i, 530i, 535i, 540i, M5	Seiko Seiki Compressor	9/98-03	740-760
5 Series (E39), 525td, 525tds	Seiko Seiki Compressor	96-09/98	1185-1235
5 Series (E39), 525td, 525tds	Seiko Seiki Compressor	9/98-03	1290-1310
5 Series (E39), 530d	Seiko Seiki Compressor	98-03	670-690
5 Series (E60, E61), 520i, 523i, 530i, 535i, 540i, 545i, 550i, M5		7/03-10	800-820

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
5 Series (E60, E61), 520d, 525d, 530d, 535d		7/03-10	690-710
5 Series (F07), Grand Turismo		83-85	900-950
5 Series (F07), 550i		1/04-11	800-820
5 series (F07, F10), 550i		11>	840-860
5 Series (F10, F11), 535i, M5, 535d		10>	850
5 Series (F10), 528i		11>	840-860
5 Series (F10, F11), 535i		11>	840-860
5 Series (F30), 328i		11>	715-765
6 Series (E24), 633csi		86-89	1100-1150
6 Series (E24), 635csi	Dual A/C	86-89	950-1000
6 Series (E24), 635csi	Dual A/C	93-94	1675-1725
6 Series (E63, E64), 630i, 645ci, 650i		77-80	950-1000
6 Series (E63, E64), 630i, 645ci, 650i		04-07	850
6 Series (E63, E64)	Rotary Compressor	04-07	1900
6 Series (E63, E64)	Dual A/C	04-07	2050
6 Series (F12, F13), 640i, 650i		04-07	800
7 Series (E32)		93-94	1525-1575
7 Series (E32)	Dual A/C	93-94	1675-1725
7 Series (E32), 730i, 730il		94-9/98	1185-1235
7 Series (E38), 750i	Seiko Seiki Compressor	88-92	950-1000
7 Series (E38), 750 L7	Seiko Seiki Compressor	94-01	1245-1295
7 Series (E38), 750 L7	Seiko Seiki Compressor; Dual A/C	94-01	1375-1425
7 Series (E38), 725tds		96-01	1185-1235
7 Series (E38), 728i, 735i, 735il, 740il, 750il	Seiko Seiki Compressor	9/98-01	670-690
7 Series (E65, E66), 730i, 735i, 735li, 740i, 745, 745li, 760li		02-05	500-820
7 Series (E65, E66), 740li, 750i, 750li, 760li		7/05-08	810
7 Series (F01, F02), 740i, 740il, 750i, 750li, 760i		10/08>	900
7 Series (F01, F02), 730d, 730id		10/08>	900
7 Series (F01, F02), Active Hybrid 7, Active Hybrid 7i		10/08>	900
7 Series (F01, F02), 740i, 740li, 750i, 750li, 760i	Dual A/C	10/08>	1000
7 Series (F01, F02), 730d, 730id	Dual A/C	10/08>	1000
7 Series (F01, F02), Active Hybrid 7, Active Hybrid 7i	Dual A/C	10/08>	1000
7 Series (F01)		11>	540-560
8 Series (E31), 840ci, 850ci, 850csi	Denso Compressor	93-99	1525-1575
8 Series (E31), 840ci, 850ci, 850csi	Seiko Seiki Compressor	93-99	1525-1577
8 Series (E31) 850CI	570mm Condenser	93-99	1000-1050





			
Vehicle, Make & Model	Notes	Years	Charge (gms)
8 Series (E31) 850Cl	545mm Condenser	93-99	950-1000
X1 (E84)		11>	610-630
X3 (E83), 2.0i, 2.5i, 3.0i		04-10	730-750
X3 (E83), 2.0d		07-10	690-710
X3 (E83), 2.0d, 3.0d		9/10>	480
X3 (F25), 20i, 28i		11>	425-455
X3 (F25) 20d, 30d		11>	425-455
X5 (E53), 3.0i, 4.4i, 4.6is, 4.8is		00-07	430-450
X5 (E53), 3.0d		00-07	430-450
X5 (E70), 4.4i, 3.0d, 3.0sd, 3.0si, 4.8i, M Series		07>	690-710
X5 (E70), 3.5d		07>	690-710
X6 (E71), N57		10-15	690-710
Z3 (E36), 2.8, M3	Denso Compressor; T&F Condenser	97-03	975-1025
Z3 (E36), 2.8, M3	Denso Compressor; MF Condenser	97-03	800-850
Z3 (E36), 2.8, M3	Seiko Seiki Compressor; T&F Condenser	97-03	975-1025
Z3 (E36), 2.8, M3	Seiko Seiki Compressor; MF Condenser	97-03	800-850
Z4 (E85), 2.2i, 2.5i, 3.0i		03-05	730-750
Z4 (E89), Sdrive 23i, 30i, 35i, 35is		00-04	865-735
Z4 (E89), Sdrive 23i, 30i, 35i, 35is		09>	550
Cadillac			
CTS, 2.8, 3.6Lt, (LLT)		05-08	590
CTS, 2.8, 3.6Lt (LY7)		04-10	570
SRX, 3.6, 4.6Lt		04-10	570
SRX, 3.6, 4.6Lt	Dual A/C	04-10	800
Cherry			
J1		11-13	500
J3		11-13	625
J11		11-13	700
Chevrolet			
Camaro		92-97	750-800
Camaro		98-02	650-700
Corvette		91-96	800-850
Corvette		00-03	650-750

Refrigerant Gas

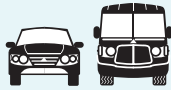


Vehicle, Make & Model	Notes	Years	Charge (gms)
Chrysler (including Dodge)			
300		12-14	700
300C		04-12	740
Caliber		06-12	625
Crossfire, Crossfire Roadster		03-08	850
Grand Voyager RT		08>	820
Grand Voyager RT	Dual A/C	08>	1150
Journey, 2.0, 2.4Lt CRD		08>	595
Journey, 2.0, 2.4Lt CRD	Dual A/C	08>	910
Neon Series I		96-98	820
Neon Series II		8/99-06	850
Nitro		07-11	510
PT Cruiser		01-02	650-700
PT Cruiser		02-04	850
PT Cruiser, Diesel		02-04	595
PT Cruiser, Diesel		04-09	510
Ram, 5.7Lt Hemi		91-00	850-900
Sebring		01-04	640
Sebring, 2.4Lt Diesel		01-04	500
Valiant VK-CM		75-81	700-750
Viper		94-00	700-750
Voyager SE, LX		94-03	960
Voyager SE, LX	Dual A/C	94-03	1360
Voyager RG		03-06	880
Voyager RG	Dual A/C	03-06	1220
Citroën			
AX		91-93	720
AX		94-97	600-650
Berlingo		96-02	850-900
Berlingo		03-08	575
Berlingo		08>	450
BX		86-93	900
C1, 1.4HDI		05-10	470-530
C1, 1.0i		05-12	420-480
C2		04-06	575-625
C3		02-06	600-650

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
C3		08>	475-525
C4		00-10	425-475
C4		10>	455-500
C4	Dual A/C	10>	650-700
C4		11>	440
C5, 1.8i, 2.0i, 2.0HDI, 3.0i		01-04	650-700
C5 SX, 2.0Lt 16V		06-08	525
C5, 2.0i, 2.2Hdi (DW12B), 2.7HDI		08>	625
C5 III, 1.6i, 1.6HDI, 1.8i, 3.0HDI		08>	625
C6		00-05	625
C6, Diesel		00-05	525
C6, 3.0Lt, V6		05-09	625
C6, 2.2HDI, 2.7HDI, 3.0HDI		05-12	525
CX2400		82-85	900
CX2500		82-85	900
Dispatch		09>	515-565
Evasion		98-00	950-1000
Saxo		96-3/96	575-625
Saxo		4/96-00	700-800
Xantia	Sanden Compressor; SDV16, 16mm Condenser	93-00	850-900
Xantia, 1.9Lt, Diesel	Includes Turbo	93-00	950-1000
Xantia	Sanden Compressor; SDV16, 32mm Condenser	94-98	845-900
Xantia, 3.0Lt		97-00	725
Xantia, V6		98-01	955-1000
XM, 3.0Lt V6		91-93	900
XM, 3.0Lt V6		10/93-00	700-750
XM, 2.0, 2.1, 2.2Lt Diesel		10/93-96	700-750
XM, 2.1, 2.2, 2.5Lt Diesel		96-00	800-850
Xsara, 2.0HDI (RHZ)		97-00	850-900
Xsara, Diesel		97-00	950-1000
Xsara Picasso		99-00	625-725
Xsara, 1.6i, 2.0i, 2.0HDI (RHY)		00-06	540-590
ZX		93-98	900-950

Refrigerant Gas


Vehicle, Make & Model
Notes
Years
Charge (gms)

Vehicle, Make & Model	Notes	Years	Charge (gms)
DAF - Truck			
45		96-01	1000
65		90-93	850
75		90-93	900
85		91-93	900
95		91-93	1000
CF65		01-11	850
CF75		01-11	850
CF85		01-11	850
LF45		01-11	1000
LF55		01-11	1000
XF95		97-03	700
XF95		02>	700
XF105		05>	700
Daewoo			
1.5i		94-95	710-750
Cielo		>95	850
Cielo		95-97	715-755
Espero		>95	790-890
Espero		95-97	710-750
Kalos	Delphi Compressor; V5	03-07	525-575
Kalos	Cooltemp A/C	03-07	525-575
Kalos	Delphi Compressor; SP10	5/05-11	570
Kalos	Delphi Compressor; V5	5/05-11	570
Korando (M2B16, M2C19)		98-00	650-750
Lacetti		03-04	660-700
Lanos		97-03	700-740
Lanos		03-07	695-745
Leganza		97-03	810-850
Leganza		07>	810-850
Matiz		99-04	530-570
Matiz		05-08	380
Musso		99-03	650-750
Nubira		97-00	725-775
Nubira		00-03	600-650
Nubira		03-05	660-700

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Nubira		05-07	670-710
Tacuma		00-04	800-840
Daewoo/Avia - Truck			
D75, 3.9Lt, Diesel		02-09	850
D90, 3.9Lt, Diesel		02-09	850
Daihatsu			
Applause (A101)		89-93	450
Applause (A101)		93-7/97	500-600
Applause (A101)		8/97-03	420-480
Centro		95-98	470-530
Charade (G10s, G11, G26, G30)		83-87	630
Charade (G100s, G101S, G102s, G112s, G202s)		87-93	540
Charade (G200, G202, G203)		93-00	600-700
Charade (L251s)		03-05	330-270
Copen		03-06	330-370
Copen (L880k)		03-07	320-380
Cuore (L701s)		10/98-03	350-410
Delta		93-97	600-650
Feroza (F300, F310)		88-93	450-500
Feroza (F300)		93-03	500-600
Mira (L200)		93-95	400-500
Mira (L500R)		95-97	475-530
Move (L600s, L601s, L900s, L901s)		10/96-03	350-410
Pyzar		97-00	600-650
Rocky		84-93	580-680
Rocky		93-09	500-600
Sirion		98-05	360-400
Sirion (M101, M111)	K3 Engine	9/00-05	310-370
Sirion (M110, M111)	EJ Engine	9/00-05	350-410
Terios		97-01	580-620
Terios (J100)		10/97-8/98	550-650
Terios (J100, J102)		9/98-05	370-430
Terios (J2) 1.3, 1.5Lt		11/05>	300
YRV		00-05	350-410
Eunos			
30x		92-93	720


Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
30x		93-97	800
500		93-99	700
500		11>	460-500
800		94-00	750
Fiat			
500		08-13	500
Bravo		95-00	600-650
Bravo		95-00	600-650
Bravo, 1.9Lt JTD		98-00	625-675
Bravo		4/07>	500
Coupe, 1.6Lt		94-97	720-745
Coupe, 1.8Lt		96-01	740
Coupe, 2.0Lt	Includes Turbo	96-01	500
Croma		94-97	1100
Croma, 2.2Lt		05>	700-760
Ducato		94-02	950-1050
Ducato Van		94-02	800-900
Ducato, 2.2, 2.3, 3.0Lt Diesel	Dual A/C	7/06>	550
Ducato		07-09	760-840
Panda		03-13	470-530
Punto		93-99	650-700
Punto (188), 1.2, 1.2 16v, 1.8Lt		9/99-6/03	525-575
Punto, 1.9Lt Diesel		9/99-6/03	525-575
Punto (188), 1.2, 1.2 16v, 1.8Lt		6/03>	525-575
Punto, 1.9Lt, Diesel		6/03>	525-575
Punto, 1.3Lt		6/03>	500
Punto Evo		09>	500
Ritmo		08>	500
Scudo, 1.6, 2.0Lt Diesel	Dual A/C, LWB	07>	950
Scudo, 1.6, 2.0Lt Diesel	Dual A/C, SWB	07>	850
Stilo		01-08	475-525
Tempra		95-02	730
Tipo		89-94	730
Ford			
AT/AT2		12>	600
B-Max, 1.5Lt Diesel	Includes Turbo	12>	550

Refrigerant Gas

01-04 800-7-25
04-06 800-7-25
93-96 700-7-50
00-06 800-7-25
00-01 425-7-25

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
B-Max, 1.0, 1.6Lt		12>	600
B-Max, 1.4, 1.6Lt		12>	650
Bronco		82-87	800-850
Capri SA, SC		89-93	550-600
C-Max	1.2mm Condenser Tube	07>	600
C-Max	3mm Condenser Tube	07>	740
C-Max II, Grand C-Max, 1.6Lt Diesel	Includes Turbo	12/10>	460
C-Max II, Grand C-Max, 1.6, 2.0Lt		12/10>	530
Corsair UA		90-92	900
Corsair UA	Cooltemp A/C	90-92	535-585
Cortina TE, TF		77-82	500-550
Cougar SW, SX		98-03	725-755
Courier		83-94	550-650
Courier PC		93-97	470-530
Courier PD		97-99	495-555
Courier PD	Cooltemp A/C	97-99	495-555
Courier PE		99-02	520-580
Courier PE	Cooltemp A/C	99-02	575-625
Courier PG, PH		02-06	800-900
Courier PH	Cooltemp A/C	05-06	800
Courier UF, 2.6Lt	Cooltemp A/C	06>	580-620
Econovan		84-93	675-720
Econovan	Cooltemp A/C	84-93	625-675
Econovan		93-97	720-780
Econovan		00-05	700-750
Escape BA, ZA, ZB		01-06	800-850
Escort		77-80	400-450
Explorer UN, US		96-01	620-680
Explorer UT, UX, UZ		01-06	880-940
Explorer UT, UX, UZ	Dual A/C	01-06	1540-1640
F100		81>	820
F150		98-01	800-850
F250		98-01	800-850
F250		01-06	1080-1180
F250	Dual A/C	01-06	1880-1980
Fairlane ZF, ZL		72-87	800-850

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Fairlane NA, NC		87-93	850
Fairlane NF, NL		95-99	750
Falcon XA, XB, XC		72-79	700-750
Falcon XD, XE, XF		84-88	750
Falcon XF	Cooltemp A/C	84-88	725-750
Falcon XF P/van, Ute		84-93	700-750
Falcon XG, Ute		93-96	950-1050
Falcon XG, Ute	Cooltemp A/C	93-96	730-770
Falcon XH, Ute		96-99	950-1050
Falcon XH, Ute	Cooltemp A/C	96-99	780-820
Falcon EA, EB, EBII, ED		87-94	850
Falcon EA, EB, EBII, ED	Cooltemp A/C	87-94	725-775
Falcon ED		93-94	1050-1150
Falcon EF, EL		94-98	950-1050
Falcon AU		99-02	800-900
Falcon BA, BF		03-08	600-700
Falcon FG, Series I		08-13	510-530
Falcon FG, Series II		13>	430-500
Festiva WA		91-12/93	600-650
Festiva WA	Cooltemp A/C	91-12/93	430-470
Festiva WB		4/94-12/96	600-650
Festiva WB	Cooltemp A/C	4/94-12/96	580-620
Festiva WD, WF		97-01	675-725
Fiesta		91-02	750
Fiesta		02-04	650
Fiesta (JH), 1.6Lt Diesel	1.2mm Condenser Tube	04-08	510-530
Fiesta (JH), 1.6Lt Diesel	3mm Condenser Tube	04-08	460-480
Fiesta VI, 1.2, 1.4, 1.6Lt		08>	390
Fiesta VI, 1.4Lt Diesel		08>	475
Focus		00-03	550-600
Focus		02-06	725-755
Focus		11-13	515-545
KA		99-03	635-665
Kuga		12>	585-615
Landau		73-76	800-850
Laser KA, KB		81-97	575-625




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Vehicle, Make & Model	Notes	Years	Charge (gms)
Laser KA, KB	Cooltemp A/C	81-97	430-470
Laser KC, KE	Cooltemp A/C	85-90	540-580
Laser KF, KH	Cooltemp A/C	90-94	565-605
Laser KJ	Cooltemp A/C	94-98	680-720
Laser KN		99-02	600-650
LTD		76-79	800-850
Marquis		88-93	800-850
Maverick DA		93-94	810-1000
Maverick DA	Cooltemp A/C	88-94	475-525
Maxi, 1.8, 2.0Lt	Cooltemp A/C	88-97	630-670
Meteor GA, GB, GC		82-87	630-675
Mondeo HA, HB, HC, HD		93-99	740-790
Mondeo HE		00-07	750
Mondeo MA, MB		07>	475-605
Mondeo MA, MB	Dual A/C	07>	825-855
Mustang Cobra		93-03	800-850
Mustang		01-02	945-975
Probe		94-98	760-840
Raider UV	Cooltemp A/C	91-96	575-625
Ranger PJ, PK		06-13	475
Ranger PX		11-15	640-660
Spectron		84-90	700-750
Spectron	Dual A/C	84-90	875-925
Taurus		96-98	935-985
Telstar AR, AS		83-87	700-750
Telstar AR, AS	Cooltemp A/C	83-87	475-525
Telstar AT, AV	Cooltemp A/C	87-91	695-745
Territory SX, SY		04-11	600-700
Territory SZ		11-15	510-530
Trader, 4.0Lt	Cooltemp A/C	95>	630-670
Transit VG Diesel	Cooltemp A/C	94-8/97	725-775
Transit		96-00	880-920
Transit		00-06	970-1010
Transit	Dual A/C	00-06	1665-1735
Transit		03>	990
Transit	Dual A/C	03>	1550


Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Transit, 2.2Lt		11>	730-770
Transit, 2.2Lt	Dual A/C	11>	1370-1430
Great Wall			
4x4		10-12	485-535
Holden			
Adventra		03-06	775-825
Apollo JK, JL		89-93	600-650
Apollo JM, JP		93-97	850
Astra LB, LC		84-87	700-750
Astra LD		87-89	700-750
Astra LD	Cooltemp A/C	87-89	475-525
Astra TR		96-98	900
Astra TS		98-00	675-725
Astra TS		00-04	575-625
Astra AH		06>	450-475
Barina MF, MH	Cooltemp A/C	89-94	425-475
Barina SB		93-97	675-725
Barina TK		05-06	620-660
Barina TK		06-11	500
Barina XC		01-05	620-660
Calais		00>	580
Calibra YE	CCOT System	91-95	980-1030
Calibra		95-00	700
Camira JB, JE		82-89	650
Captiva		00-11	520
Captiva		11-12	520-660
Colorado		08-13	600-775
Combo XC		01-06	650
Commodore VB, VC		78-81	750-800
Commodore VH, VK, VL		81-88	750-800
Commodore VK, VL	Cooltemp A/C	84-88	625-675
Commodore VN, VP		88-93	800-850
Commodore VN, VP	Cooltemp A/C	88-93	725-775
Commodore VR, VS		93-97	775-825
Commodore VT		97-99	775-825
Commodore VX, VY		00-04	775-825

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Commodore VZ		04-06	775-825
Commodore VE, Series I		06-8/10	560-600
Commodore VE, Series II		8/10-4/13	480
Commodore VF, Series I		5/13>	580
Commodore VF, Series II		14>	480-520
Cruze YG		02-06	335-385
Cruze JG, JH, (KL VIN)		06>	625-650
Epica		07-11	880
Epica, Diesel		07-11	480
Frontera UT		95-99	725
Frontera UES		99-00	650
Frontera MX		99-03	650
Gemini JT		83-84	650-700
Gemini RB		>87	650
Gemini RB	Cooltemp A/C	>87	475-525
Holden HQ - HZ		71-79	1300-1400
Jackaroo UBS17, UBS55		88-93	700-750
Jackaroo UBS16, UBS17, UBS52, UBS55	Cooltemp A/C	85-92	475-525
Jackaroo UBS25, UBS69		94>	725
Jackaroo UBS25, UBS69	Cooltemp A/C	94>	625-675
Jackaroo UBS26, UBS73		98-03	750
Monaro		01-06	775-825
Monterey		94-98	750
Monterey, 3.0, 3.5Lt Diesel	Includes Turbo	98-01	750
Nova LE, LF		89-94	500-550
Nova LG		93-96	675-725
Piazza YB		86-87	850
Rodeo TF	Cooltemp A/C	88-92	525-575
Rodeo TF		91-93	750-800
Rodeo TF, Diesel		93-97	750
Rodeo TF, Diesel	Cooltemp A/C	93-97	580-620
Rodeo TF		97-00	625-675
Rodeo TF	Cooltemp A/C	97-00	575-625
Rodeo TF, 2.2Lt, V6	Air International A/C	00-06	725-775
Rodeo TF, 2.2Lt, V6	Cooltemp A/C	00-06	675-725
Rodeo RA		03-04	725-775

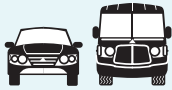
Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Rodeo RA, Diesel		03-04	675-725
Rodeo RA, 2.4, 3.5Lt		05-08	725-775
Rodeo RA, 3.6Lt	Includes Diesel	05-08	675-725
Shuttle WF		82-91	650-700
Shuttle WF	Dual A/C	82-91	950-1000
Statesman VR, VS		93-99	850
Statesman WL		04-06	775-825
Statesman WM		06-10	560-600
Suburban		94>	700-750
Suburban	Dual A/C	94>	1150-1200
Suburban		11>	950
Tigra (Barina)		05-06	650
Vectra JR, JS		96-02	850
Vectra ZC		03-06	730
Viva JF		05-06	680
Volt Electric vehicle		12-13	950
Zafira TT		01-06	575-625
Honda			
Accord		78-89	600-650
Accord		90-93	800-850
Accord Wagon		91-93	825
Accord	Denso Compressor	93-98	700-750
Accord V6		94-03	550-600
Accord	Denso, Sanden Compressor	98-03	500-550
Accord Coupe		98-03	600-650
Accord 7th Gen, V6		03-06	500-550
Accord 2.0, 2.4Lt		03-08	500-600
Accord 2.2Lt CTDi, Diesel		03-08	450-500
Accord 2.0, 2.4Lt		7/08>	475
Accord 2.2Lt DTEC, Diesel		7/08>	475
City		84-86	600-650
Civic		78-83	600-650
Civic		85-91	780-880
Civic		92-93	550-600
Civic		94-95	500-550
Civic EK		95-00	600-650

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Civic (5 door)		95-97	500-550
Civic (2,3,4 door)	Denso, Sanden Compressor	96-00	600-650
Civic (5 door), Diesel	Denso, Sanden Compressor	97-00	500-550
Civic 7th Gen		00-06	500-550
Civic Hatchback EP, EU, 1.4, 1.6, 2.0Lt		01-06	500-550
Civic Coupe EM, 1.4, 1.6, 2.0Lt		01-06	500-550
Civic, 1.7Lt, CTDi Diesel		02-06	500-550
Civic 8th Gen, 1.4, 1.8Lt		06>	450-480
Civic 8th Gen, 2.2Lt, CTDi Diesel		06>	450-480
Civic 9th Gen, 1.4, 1.8Lt, VTEC		12>	420
Civic 9th Gen, 2.2Lt, DTEC Diesel		12>	420
Concerto		89-91	650-700
CRV		97-02	600-650
CRV		02-12	485-530
CRX		87-92	650-700
CRX		92-93	550-600
CRX	All Compressors	94-97	500-550
CRZ, 1.5Lt Hybrid		11/11-3/13	475
HRV, 1.6Lt		99-01	550-650
HRV Insight		00-04	400-500
HRV Insight, 1.3Lt, Dsi-VTEC, Hybrid		11>	450-500
Insight		00-04	400-450
Insight		>11	450-500
Insight		11>	425-475
Integra		86-93	650-700
Integra		94-01	600-650
Integra		01-07	500-550
Integra		11>	780-880
Jazz		02-06	400-450
Jazz		08-13	400
Legend		88-89	770-870
Legend		90-93	600-700
Legend		94-95	700-750
Legend 3rd Gen		96-04	700-750
Legend 4th Gen, KB, 3.5, 3.7Lt		5/06>	475
MDX		03-06	675-725

Refrigerant Gas



Vehicle, Make & Model

Notes

Years

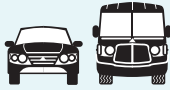
Charge (gms)

NSX		91-92	780-880
NSX		93-97	775-875
NSX		97-05	700-750
Odyssey		95-00	600-650
Odyssey	Dual A/C	95-00	800-850
Odyssey 2nd Gen		00-04	950-1000
Odyssey 3rd Gen		04-06	700-750
Prelude		79-83	600-650
Prelude		84-87	650-700
Prelude		88-91	700-750
Prelude		92-93	650-700
Prelude		94-96	650-700
Prelude		97-01	700-750
S2000		00-06	600-625
Shuttle, 2.2, 2.3Lt		95-01	600-650
Shuttle, 2.2, 2.3Lt	Dual A/C	95-01	800-850
Stream, 1.7, 2.0Lt		01-06	500-550
Stream, 2.0Lt	Dual A/C	01-06	700-750
Hummer			
H2		03-04	750-800
Hyundai			
Accent		94-95	670-680
Accent		96-9/99	670-680
Accent		99-03	575-625
Accent		03-06	525-575
Coupe		96-02	675-725
Coupe GK		02-06	575-625
Elantra J2	Cooltemp A/C	96-00	680-720
Elantra XD	Denso 10PA15, Hella HS15 Compressor	6/00-06	655-705
Elantra MD		07-11	475-525
Excel		86-98	675-725
Excel	Cooltemp A/C	87-89	530-570
Excel		94-00	680
Excel	Cooltemp A/C	94-00	580-620
Getz TB		02-08	475-525
Grandeur XG		99-02	650-700


Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Grandeur		06-11	475-525
H100, 2.6Lt, Diesel	Halla Compressor FS10;	97-08	625-675
H100, 2.6Lt, Diesel	Halla Compressor FS10; Dual A/C	97-08	1300
H100, 2.6Lt, Diesel	Mitsubishi Compressor MSC130CV	97-05	625-675
H100, 2.6Lt, Diesel	Mitsubishi Compressor MSC130CV; Dual A/C	97-05	1300
i20		10-12	425-475
i30		07-12	475-525
i40, 1.6, 2.0Lt		11>	550
i40, 1.7Lt, Diesel		11>	550
i45		10-13	525-575
i45		13-15	525-575
iLoad		08-12	625-675
iMax		08-12	625-675
iX35		10>	510
Lantra		94-00	690-790
Lavita		00>	570
Matrix, 1.6, 1.8Lt		01-07	570
Pony		94>	680-700
S Coupe		89-98	675-725
Santa Fe, SM		00-06	575-625
Santa Fe, SM	Dual A/C	00-06	825-875
Santa Fe, CM		3/06-12	575-625
Santa Fe, CM	Dual A/C	3/06-12	850
Sonata, 2.0Lt		89-98	560-660
Sonata, 2.4Lt		94-95	775-825
Sonata		95-97	700-750
Sonata III, EF		98-01	675-725
Sonata IV, EF (Facelift)		01-05	660-700
Sonata V, NF		05>	530-570
Sonata		07-10	525-575
Terracan, 3.5Lt V6		01-08	825-875
Terracan, 2.9Lt CRDi		01-08	825-875
Tiburon GK		02-10	575-625
Trajeto FO		00-06	650-690
Trajeto FO	Dual A/C	00-06	825-875





Refrigerant Gas






Vehicle, Make & Model	Notes	Years	Charge (gms)
Trajt		07-08	850
Tucson		00-08	525-575
Tucson, 4 cyl		08>	510
Veloster, 1.6Lt Gdi		11>	405-445
Infiniti			
EX, J50, 3.7Lt		07>	550
FX, S51, 3.7, 5.0Lt		08>	550
G, V36, 3.7Lt		07>	550
Isuzu			
Trooper		94-98	750
Trooper, Diesel		94-98	750
Trooper		98-03	750
Trooper, Diesel		98-03	750
Iveco			
Daily I		96-99	800
Daily I		99-02	720
Daily II		03-5/06	720
Daily II, Combi		99-5/06	1200
Daily III, (F1A)	External FDR	5/06>	720
Daily III, (F1A)	Subcool FDR	5/06>	440
Iveco - Truck			
Eurocargo	Dual Condensers	91-01	1600
Eurocargo		01-5/03	1020
Eurocargo		5/03>	440
EuroStar		92-00	1700
EuroStar	Side Mount Condenser	92-00	1900
EuroStar		00-04	1700
EuroTech		92-99	1700
EuroTech	Side Mount Condenser	92-99	1900
EuroTech		00-08	1700
EuroTrakker		00-04	1700
EuroTrakker		10/04>	700
Stralis AT, AD		01-12	700
Stralis AT, AD	Side Mount Condenser	01-12	1400
Stralis Hi-Way		12>	700

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Jaguar			
Daimler, 3.6Lt		87-89	1035
Daimler, 4.0Lt V8		97-04	650-700
Daimler, 4.0Lt		98-4/91	1000-1050
Daimler, 4.0Lt		4/91-92	1035
Daimler Double Six		86-87	1000-1050
Daimler Double Six		94-97	1050-1150
E Type Series III, 5.3Lt		72-73	950-1050
S Type	> VIN M45255	92-02	775-825
S Type	VIN M45255>	02-08	725-775
S Type, X200		00-02	750-800
S Type, X202		03-06	650-700
S-Type, 2.7Lt Diesel		04-08	650-750
Sovereign, 4.2Lt		83-87	1000-1050
Sovereign, 5.3Lt		86-91	1000-1100
Sovereign, 3.6Lt		87-89	1000-1100
Sovereign, 4.0Lt		89-4/91	1000-1050
Sovereign, 4.0Lt		4/91-92	1035
Sovereign		93-94	1127-1173
X Type		00-06	750-800
X Type, 2.0, 2.5, 3.0Lt (C51)		01-10	795-825
X Type, 2.0, 2.2Lt, Diesel		03-10	720-750
X308		97-03	650-700
XF, 3.0Lt		08>	700
XF, 3.0Lt, Diesel		09>	750
XF, 2.2Lt, Diesel		11>	700
XF R, 5.0Lt		11>	700
XJ6 Series I, 4.2Lt	York Compressor	69-72	950-1000
XJ6 Series I, 4.2Lt		72-74	1000-1050
XJ6 Series II, 4.2Lt		74-76	1000-1050
XJ6, 3.6Lt		87-89	1035
XJ6, 4.0Lt Sport		91-93	1035
XJ6		94-97	1150
XJ6, 3.0Lt		03-10	650
XJ6, 3.0Lt	Dual A/C	03-10	800
XJ6, 2.7Lt TDVi, Diesel		03-10	650-700

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
XJ6, 2.7Lt TDVi, Diesel	Dual A/C	03-10	650-700
XJ8, 3.2, 4.0Lt		97-03	650-700
XJ8, 3.5, 4.2Lt		03-10	650
XJ8, 3.5, 4.2Lt	Dual A/C	03-10	800
XJ12 Series I, 5.2Lt		73-74	1035
XJ12 Series II, 5.2Lt		74-76	1000-1050
XJ12		93-94	1127-1173
XJ12		94-97	1050-1150
XJ, 4.2Lt		77-78	1000-1050
XJ, 5.3Lt		76-79	1035
XJ, 4.0Lt		89-4/91	1000-1050
XJ, 4.0Lt		4/91-92	1035
XJ, X350	2 Zone A/C	03-06	625-675
XJ, X350	4 Zone A/C	03-06	775-825
XJ, X351		10>	700
XJR		93-01	800-850
XJR		93-97	1150
XJR, 4.0Lt		98-03	650-700
XJR, 4.2Lt		03-10	630-650
XJR, 4.2Lt	Dual A/C	03-10	780-820
XJS V12		76-82	1035
XJS H.E. V12		83-86	1035
XJS V12		86-93	1035
XJS		9/93-97	900-950
XJSC H.E. V12		85-86	1035
XJSC V12		86-88	1035
XK8		96-02	625-675
XK8, 4.2Lt		06>	700
XK8, 5.0Lt		09>	700
XKR, 4.0, 4.2Lt		02-06	650-700
XKR, 4.2Lt		06>	700
XKR, 5.0Lt		09>	700
XMR		02-06	625-675
Jeep			
Cherokee		79-85	900-950
Cherokee		91-94	800-850

Refrigerant Gas


			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Cherokee		95-96	800-850
Cherokee		97-03	550
Cherokee KJ		01-12	740
Cherokee, 2.8Lt, Diesel		08>	510
CJ7		81-82	1000-1050
CJ8		83-85	1000-1050
Commander, 3.0Lt, Diesel		06>	680
Commander, 3.0Lt, Diesel	Dual A/C	06>	960
Compass		10>	510
Grand Cherokee		93-96	795
Grand Cherokee ZG		96-99	800
Grand Cherokee WJ, WG		99-05	765
Grand Cherokee WH		05>	680
J10		83-85	1020
J20		81-85	1020
Laredo		82-85	1000-1050
Overlander		84-85	1000-1050
Patriot, 2.0, 2.4Lt		00-02	710
Renegade		78-85	1000-1050
Wrangler		89-95	800-850
Wrangler TJ		96-06	565
Wrangler JK, 2.8, 3.8Lt		07>	510
Kia			
Carens		00-02	750-850
Carnival		99-06	775-825
Carnival, V6		00>	1150
Carnival, V6	Dual A/C	02-06	950-1050
Cerato		04-13	475-525
Cerato, Diesel		04-13	475-525
Credos		98-01	650-750
Grand Carnival		06-12	775-825
K2700		00>	700
K2900		00>	700
Magentis		00>	500
Mentor		96-00	500-550
Optima GD		01-13	525-575

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Vehicle, Make & Model	Notes	Years	Charge (gms)
Picanto		04-11	425-475
Picanto TA		5/11>	370
Pregio		02-04	780-880
Rio		98-01	450-500
Rio		01-08	535-575
Rio UB		11-13	395-445
Rondo		08-13	425-475
Shuma		00-01	675-725
Sorento		03-06	575-625
Sorento		07-12	575-625
Soul		09-12	525-575
Spectra		01-03	675-725
Sportage		97-03	675-725
Sportage		04-05	495-535
Sportage		05-13	495-535
Lada			
Cevaro		90-93	570
Niva		83-93	630
Niva		94-98	650
Samara		88-91	570
Lancia			
Therma		92-94	1100
Land Rover (including Range Rover)			
110 County		84-91	980
Defender		92-94	515-615
Defender		94-98	1090
Defender, TD5		99-07	700-800
Defender, 2.4Lt, TD4		06>	600
Discovery	Dual A/C	91-93	1390-1490
Discovery		93-98	800-850
Discovery	Dual A/C	94-98	1000-1050
Discovery		98-05	675-725
Discovery	Dual A/C	98-05	875-925
Discovery	Dual A/C	99-04	875-925
Discovery Seies 3, 4.4Lt		04-07	600
Discovery Series 3, 2.7Lt, Diesel	Includes Turbo	04-07	550

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Discovery Series 3, 4.0, 4.4Lt		10/04-09	600
Discovery Series 3, 4.0, 4.4Lt	Dual A/C	10/04-09	900
Discovery Series 3, 2.7Lt, Diesel	Includes Turbo	10/04-09	550
Discovery Series 3, 2.7Lt, Diesel	Includes Turbo, Dual A/C	10/04-09	810
Discovery Series 4, 4.0Lt		9/09>	600
Discovery Series 4, 4.0Lt	Dual A/C	9/09>	900
Discovery Series 4, 5.0Lt		9/09>	625
Discovery Series 4, 5.0Lt	Dual A/C	9/09>	900
Discovery Series 4, 2.7Lt V6, Diesel	Includes Turbo	9/09>	550
Discovery Series 4, 2.7Lt V6, Diesel	Includes Turbo, Dual A/C	9/09>	850
Discovery Series 4, 3.0Lt V6, Diesel	Includes Turbo	9/09>	625
Discovery Series 4, 3.0Lt V6, Diesel	Dual A/C	9/09>	900
Evoque		11-12	625-675
Evoque	Dual A/C	11-12	785-835
Freelander		97-00	700-750
Freelander		00-06	515-565
Freelander		07-12	720-740
Range Rover	Non Genuine A/C	80-85	825
Range Rover		86-93	1070-1120
Range Rover		89-94	1250
Range Rover	Dual A/C	93-95	1390-1490
Range Rover		95-02	1250
Range Rover II, Diesel		94-02	1100
Range Rover, L322		02-06	495-525
Range Rover, 4.4Lt		02-06	500-520
Range Rover III, 3.0Lt Diesel	Includes Turbo	02-06	500-520
Range Rover 3, Sport		05-07	600
Range Rover 3		05-09	700
Range Rover, 4.2Lt, 4.4Lt	Includes Supercharged	05-09	700
Range Rover Sport, 2.7Lt V6, Diesel	Includes Turbo	05-09	600
Range Rover Sport, 4.2Lt, 4.4Lt	Includes Supercharged	05-09	600
Range Rover		07-12	625-675
Range Rover Sport, 3.0Lt V6, Diesel	Includes Turbo	09>	600
Range Rover Sport, 5.0Lt	Includes Supercharged	09>	700
LDV			
Maxus, 2.5Lt Diesel		05-09	880

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Vehicle, Make & Model	Notes	Years	Charge (gms)
Lexus			
CT200h, Hybrid		11>	470
ES250		90-91	650-700
ES300		92-93	850-900
ES300		94-97	750-800
ES300		98-01	650-700
ES300 MCV30R		02-06	750-850
ES330		04>	450-500
GS300		94-97	800-900
GS300		97-05	550-650
GS300 GRS, URZ		05-11	400-500
GS400		98-00	550-600
GS430		00-05	550-650
GS450h		06-11	400-500
GS460		08-11	500-600
GX470		03-04	550-600
GX470	Dual A/C	03-04	700-750
IS200		99-05	550-650
IS250, 220d		05>	440
IS300		99-05	550-650
LS400		90-92	950-1000
LS400		93-96	900-1000
LS400	Dual A/C	93-96	1150-1250
LS400		96-00	650-700
LS400	Dual A/C	96-00	900-1000
LS400		00-06	600-650
LS400	Dual A/C	00-06	850-950
LS430		00-06	550-600
LS430	Dual A/C	00-06	850-950
LX450		96-97	750-800
LX470		98-06	1000-1100
LX470	Includes Cool Box	98-06	1100-1200
RX300		99-01	550-600
RX300		03-07	550-650
RX330		03-05	550-600
RX350		06-12	450-550

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Vehicle, Make & Model	Notes	Years	Charge (gms)
RX400h		05-10	550-650
RX450h		06-12	550-650
SC300		92-97	750-800
SC300		98-00	800-850
SC400		92-93	850-900
SC400		94-96	800-850
SC430		01-05	450-500
SC430		05>	650-750
Leyland			
P76		73-74	700-900
MAN - Truck			
F2000		95-99	1150
F2000	Round Tube Condenser	99>	1150
F2000	Flat Tube Condenser	99>	950
L2000		95-99	1250
L2000	Round Tube Condenser	00>	1150
L2000	Flat Tube Condenser	00>	950
M2000	Round Tube Condenser	99>	1150
M2000	Flat Tube Condenser	99>	950
M2000 L		95-99	1250
M2000 M		95-99	1150
M90		90-96	1250
TGA		00-09	900
TGA	Independent A/C	00-09	1050
TGL		05>	650
TGM		05>	750
TGS		10/07>	950
TGS	Independent A/C	10/07>	1050
TGX		10/07>	950
TGX	Independent A/C	10/07>	1050
Maybach			
240		04-06	950
Mazda			
121 DA, GEN I		87-90	700
121 DA, GEN II		89-91	625
121		93-96	625-675



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Vehicle, Make & Model	Notes	Years	Charge (gms)
121		96-02	600
323		81-87	650
323, Astina BD, BF		80-89	625
323, Astina BG	Cooltemp A/C	89-93	525-575
323, Astina BA	Cooltemp A/C	94-98	625-675
323, Astina, Protégé		94-98	750
323 BJ		98-03	625
626	Zexel Compressor	83-87	700
626	Denso Compressor	83-87	650
626		87-91	650-750
626		91-94	700
626 Wagon		93-97	575-625
626 GE		92-97	725-775
626 GE	Cooltemp A/C	92-97	600-650
626	Condenser; 26 row	97-02	625
626	Condenser; 32 row	97-02	700
929		76-93	650-700
929 HB, HE		91-96	690-790
929		93-95	700-800
929		96-97	700
B Series, Ute (Inc Bravo)		85-93	650
B Series, Ute (Inc Bravo)		93-02	550
B-Series, 2.5Lt, Diesel	Includes Turbo	98-02	550
B Series, Ute (Inc Bravo)		9/02-06	850
B Series, Van	Dual A/C	85-94	1400
B2000		98-03	700-800
B2600		98-03	700-800
BT50		06-12	425-475
CX5		12-13	475-525
CX7		06-12	515-535
CX9		08-12	660-710
Demio		98-04	600
E Series		84-93	550
E Series	Dual A/C	84-93	1400
E Series		93-00	400
E Series	Dual A/C	93-00	1330


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Vehicle, Make & Model	Notes	Years	Charge (gms)
E1800	Cooltemp A/C	00>	625-675
E2000		95-00	550
E2000	Dual A/C	95-00	1150
E2000	Cooltemp A/C	00>	625-675
E2500	Cooltemp A/C	00>	625-675
Eunos 30X		93-97	800
Eunos 500, V6		93-99	700
Eunos 800		94-00	750
Mazda 2		02-12	470
Mazda 3		02-12	450-500
Mazda 6		02-06	400-450
Mazda 6		06-12	475-525
Millenia		00-02	750
MPV, 3.0Lt		94-99	1050
MPV, 3.0Lt	Dual A/C	94-99	1200
MPV		9/99-05	650
MPV	Dual A/C	9/99-05	850
MX3		91-94	800
MX3		95-99	750
MX5		89-93	650
MX5, NA30		94-97	600-700
MX5, NB30	> VIN 200000	98-05	700
MX5, NB30	VIN 200001>	98-05	425
MX5 SP, NB30		02-05	300-350
MX5 NC		05>	450
MX6		93-97	720
Protegé		95-03	500-550
Premacy		99-02	650
Premacy		02-05	490-535
RX4		76-79	720
RX5		76-79	720
RX7		79-92	650
RX7		92-98	550
RX8		03-12	430
T3500	Cooltemp A/C	84-93	430-470
Tribute		01-06	850

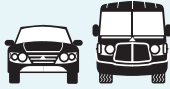
Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Tribute		07-08	800
Mercedes-Benz			
180E (W201)		91-93	1000-1050
190D (W201)		89-93	1000-1100
190E (W201)		89-93	1000-1100
200 (W124)		85-95	990
220 (W124)		93-95	1000
230E (W124)		87-93	990
250, 280, 280C (W114)		72-73	1000-1050
280E (W124)		93-95	1000
280S (W108)		68-73	1000-1050
280SE (W108)		68-69	800
280SE (W108), 3.5Lt		69-71	800
280SE (W108), 3.5Lt		71-73	100-1050
280SEL (W108)		68-81	1000-1050
280SL (W113)		68-71	800
280SL, SLC (W107)		75-76	1000-1050
280TE (W124)		80-83	1000-1050
300CE (W124)		93>	1000-1050
300E (W124)		85-93	900-950
400SEL (W126)		90-93	950-1000
500SE (W126)		90-93	1000-1100
500SE (W126)	Dual A/C	93>	1350
500SEC (W126)		93>	1050-1100
500SEC (W126)	Dual A/C	93>	1100-1150
600SEL (W126)		93>	1100-1150
A Class 176		6/12>	650
A Class A200		05-09	840
A Class (W168)		98-05	600
A Class (W169)		4/08>	770
A Class (W169), 150, 170, 200		9/04-11	770
A Class (W169), 200CDI	Includes Turbo	9/04-11	840
B Class (W245) 150, 170, 200		05-11	770
B Class (W245) 180 CDI		05-11	770
B Class (W245) 200CDI	Includes Turbo	05-11	840
B Class (W246)		11/11>	650

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Vehicle, Make & Model	Notes	Years	Charge (gms)
C180		94-11	750-800
C230		97-00	750-800
C230		05-07	590
C240		00-05	750
C280		94-03	750-800
C280		00-09	700-750
C320		00-06	750
CL500		98-03	1050-1100
CL600		98-03	1050-1100
CL600	Dual A/C	98-03	1100-1150
CLC (W203)		8/08>	850
CLK320		98-99	700-750
CLK (W208)		97-03	850
CLK (W209)		6/02-09	750
CLS (W218)		11>	590
CLS (W219)		05>	950
CS600		95-00	1200
CS600	Dual A/C	85-93	1125
C Class (W201)		94-97	850
C Class (W202)	> VIN 1A168524, 1F164269	93-00	950
C Class (W202)	VIN 1A168525, 1F164270R >	93-00	850
C Class (W202)		94-97	850
C Class (W203)		00-4/04	650-750
C Class (W203) Facelift		4/04-07	850
C Class (W204)		07>	590
G Class 300GD		82-89	950-1050
M Class (W163)		98-05	750
M Class (W164)		05-08	970
M Class (W164)	Dual A/C	06>	1220
M Class ML320		98-03	650-700
M Class ML430		99-00	700-750
R Class (W251)		06>	970
R Class (W251)	Dual A/C	06>	1220
S Class S320	Dual A/C	94-95	1100-1150
S Class S420		94-95	1100-1150
S Class S420	Dual A/C	94-95	1400

Refrigerant Gas





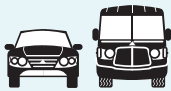
Vehicle, Make & Model	Notes	Years	Charge (gms)
S Class S500		94-00	1050-1100
S Class S500		01-03	850-900
S Class S500	Dual A/C	01-03	950-1000
S Class S600		94-95	950-1000
S Class S63		07-11	1070
S Class (W126), 400SEL		90-93	950-1000
S Class (W140)	> VIN 1A128373	7/91-99	1400
S Class (W140)	Dual A/C; > VIN 1A128373	7/91-99	1500
S Class (W140)	VIN 1A128374R >	7/91-99	1150
S Class (W140)	Dual A/C; VIN 1A128374R>	7/91-99	1250
S Class (W220)		10/98-06	950
S Class (W220)	Dual A/C	10/98-06	1050
S Class (W221)		06>	1070
S Class (W221)	Dual A/C	06>	1180
S Class Coupe (C215), CL500, CL600		02-07	950
SL (R230)		10/01-11	920
SL Class SL500		10-11	780
SL Class SL600		94-01	800-850
SL Class SL600		01>	750-850
SL Class SLK230		98-03	700-750
SL Class (R129)		91-02	950
SL Class (R129)		94-99	950
SL Class (R230)		99-06	890-950
SL Class (R170)		96-04	850
SL Class (R171)		04-11	670
SLK230		98-03	700-750
SLK Class (R170)		96-04	850
SLK Class (R171)		04-11	670
Sprinter		1/95-05	860
Sprinter	Dual A/C	1/95-05	1300
Sprinter (W906)		06>	800
Sprinter (W906)	Dual A/C	06>	1190
Sprinter (W906)	High Output A/C	06>	1000
Viano		05-11	550
Viano	Dual A/C	05-11	840
Viano (639)	Dual A/C; LWB	03-12	870

Refrigerant Gas





			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Vito		98-04	850-910
Vito		04-11	520-580
Vito	Dual A/C	04-11	840
Vito NCV2		04-06	520-580
Vito (639)		03-12	550
Vito	Dual A/C	03-12	840
Vito	Dual A/C; LWB	03-12	870
Mercedes-Benz - Truck			
Actros		97-02	1100
Actros		03-11/11	1100-1200
Actros	Dual A/C	03-11/11	1600
Actros		12>	1280
Atego		98-04	1000
Atego II		04>	1200
Axor		01-10/04	1100-1200
Axor II		10/04>	1100
Unimog U300, U500		00-04	1400
Vario		96-11	1225
MG			
F		95-02	590-650
TF, 1.6Lt		02-05	590-650
TF, 1.8Lt		02-05	710-750
TR,TS		04-05	610-670
TZ		02-05	420-480
Mini			
Cooper S R50,53		02-09	405-425
Clubman R55, R56, R57, R60		07>	490
Mitsubishi			
ASX		10-13	500
380		05-06	435-475
3000GT		91-93	750-800
3000GT		94-97	800-850
Carisma		96-00	680-720
Challenger PA		98-06	600-650
Colt RA, RE		80-90	650
Colt	Cooltemp A/C	80-90	425-475

Refrigerant Gas



			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Colt		92-96	570-610
Colt, 1.3, 1.6Lt		96-03	555-595
Colt RG		04-06	530-570
Colt Cabriolet		04>	410-450
Cordia AA, AC		83-89	760-860
Delica	Dual A/C	86-98	1200
Express SF, SH		86-93	625-725
Express SF, SG	Cooltemp A/C	86>	475-525
Express SF, SH	Dual A/C	86-93	900-1000
Express SJ, WA		93-97	675-725
Express SJ, WA	Cooltemp A/C	93-97	630-670
Express	Dual A/C	94>	1200-1250
Express		97-05	700-750
Galant HG, HH		89-93	900
Galant HJ, EJ		93-97	740-780
Galant		97-00	670-710
Grandis BA		04-06	535-585
Grandis BA	Dual A/C	04-06	675-725
Grandis		05-10	440
L200 MA, MD		82-86	720-810
L300 SC, SD, SE		83-86	650-700
L300 SC, SD, SE	Dual A/C	83-86	900-1000
L300		94-04	700-750
L300	Dual A/C	94-04	1200-1250
L300		97-05	700-750
L400	Dual A/C	86-98	1200
L400		96-05	650
L400	Dual A/C	96-05	1150
Lancer CA, CB	Cooltemp A/C	88-92	625-675
Lancer CC	Cooltemp A/C	92-96	680-720
Lancer CC, Hatch		92-96	625-675
Lancer CE		97-02	555-595
Lancer CE	Cooltemp A/C	97-02	680-720
Lancer CG, CH		02-05	530-570
Lancer CJ		08-14	480-520
Lancer Evo VIII, 2.0Lt		03-08	480-520



Vehicle, Make & Model	Notes	Years	Charge (gms)
Magna TM, TN, TP		85-91	625
Magna TM, TN, TP	Cooltemp A/C	85-91	625-675
Magna TR, TS		94-96	600-700
Magna TE, TF		96-98	650-700
Magna TE	Cooltemp A/C	96-97	680-720
Magna TH		99-00	650-690
Magna TJ		00-03	630-670
Magna TL, TW		03-05	655-695
Mirage CE		97-02	450-500
Mirage CE	Cooltemp A/C	97-02	680-720
Nimbus UA, UB, UC		84-93	650
Nimbus UF		93-98	675-725
Nimbus UF	Cooltemp A/C	93-98	630-670
Outlander ZE, ZF		02-06	530-570
Outlander ZG, ZH		07-12	480-520
Outlander ZJ		12-15	500
Pajero iO		99-02	560-590
Pajero NA, NB, NC, ND, NE, NF, NH		83-93	800
Pajero NA, NB, NC, ND, NE, NF, NH	Dual A/C	83-93	900-1000
Pajero NA, NB, NC, ND, NE, NF, NH, NJ	Cooltemp A/C	83-96	680-720
Pajero NJ, NK, NL		93-00	700-800
Pajero NJ, NK, NL	Dual A/C	93-00	950-1000
Pajero NM, NP		00-06	530-570
Pajero NS		07-11	530-570
Pajero NS	Dual A/C	07-11	850-890
Scorpion GJ, GL		81-85	750-800
Shogun		94-3/00	600-650
Shogun	Dual A/C	94-3/00	1000-1050
Shogun		4/00-03	480-520
Shogun	Dual A/C	4/00-03	770-810
Shogun Sport		00-07	600-650
Sigma GE, GN		77-87	700-750
Sigma	Cooltemp A/C	77-87	425-475
Starwagon SF, SH		82-87	675
Starwagon	Cooltemp A/C	82-87	580-620
Starwagon SJ, WA		93-02	675-725

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Starwagon SJ, WA	Dual A/C	93-02	1200-1300
Triton ME, MJ		86-93	625-675
Triton MH, MK V6	Cooltemp A/C	94-04	530-570
Triton MJ		94-97	675-725
Triton MK		97-04	550-600
Triton ML		05-06	550-600
Triton ML		06-10	480-550
Triton MN		10-14	480-550
Verada KR, KS		93-96	725-775
Verada KE, KH, KJ, KL, KW		96-05	650-700
Mitsubishi - Truck			
Canter		06>	650
Nissan			
120Y		77-78	585-630
180B		74-77	550-600
200B		78-81	580-900
200SX		94-00	600-650
200SX		00-02	450-500
240K		74-78	650-600
260C		74-78	750-800
260Z		74-78	600-650
280C		78-84	800
280Z		80-84	850
280ZX		80-84	850
300C		80-86	850
300ZX Z31		84-89	700-800
300ZX Z32		90-93	750-850
300ZX Z32		93-96	600
350Z Z33		02-06	550
370Z Z34		09-12	500
720		80-85	650-700
Bluebird		81-86	650-750
Bluebird		93-97	700-800
Dualis		07-12	425-475
EXA, N13		83-86	900
Gazelle		84-89	850-900


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Vehicle, Make & Model	Notes	Years	Charge (gms)
GTR		91-93	600-650
Infinity, Q45		93-97	800
Juke		10>	450
Kubistar X76, 1.2, 1.6Lt		03-08	640-680
Kubistar X76, 1.5Lt, Diesel		03-08	640-680
Maxima		90-93	700-750
Maxima		95-01	600-650
Maxima		99-03	600-700
Maxima		03-12	450-550
Micra		95-97	525-575
Micra	Cooltemp A/C	95-97	580-620
Micra K11		00-03	475-525
Micra K12, 1.0, 1.2, 1.4Lt		03>	450-500
Micra K12, 1.6Lt		05>	550
Micra K13, 1.2Lt		10>	400
Murano		03-04	450-500
Murano, 3.5Lt		05-08	525
Murano Z51, 3.5Lt		08-15	600
Navara D21		86-93	750-800
Navara D21	Cooltemp A/C	86-92	580-620
Navara D21, 2.4Lt V6, EFI	Cooltemp A/C	86-92	630-670
Navara D21		93-97	750-850
Navara D21	Cooltemp A/C	93-97	725-775
Navara D22		97-06	500-600
Navara D22, 2.4Lt V6, EFI	Cooltemp A/C	97-06	730-770
Navara D22, 3.2Lt, Diesel	Cooltemp A/C	97-06	730-770
Navara D40 RX, ST-X		06-08	675-725
Navara D40, 2.5Lt Diesel	Dual A/C; Includes Turbo	05-15	800
Navara D40, 2.5Lt Diesel	Climate Control; Dual A/C; Includes Turbo	05-15	700
Navara D40, 2.5Lt Diesel	Manual Control; Dual A/C; Includes Turbo	05-15	1080
Nomad		86-92	700-750
Nomad	Dual A/C	86-92	900-1000
Note, 1.4Lt		07-14	450-500
Note, 1.6Lt		06-14	475
Note, 1.5Lt dCi, Diesel		06-14	550





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Vehicle, Make & Model	Notes	Years	Charge (gms)
NX Coupe		91-93	550-600
NX Coupe, B13		93-97	650
Pathfinder		86-93	750-800
Pathfinder R50		94-05	600-700
Pathfinder R51, 4.0Lt		04>	700
Pathfinder R51, 2.5Lt Diesel		04>	700
Pathfinder R51, 4.0Lt	Dual A/C	04>	850
Pathfinder R51, 2.5Lt Diesel	Dual A/C	04>	850
Pathfinder R51	Climate Control	05-10	650-750
Pathfinder R51	Manual Control	05-10	1030-1130
Patrol, Cab Chassis		00-06	500-600
Patrol, Cab Chassis		07-12	550
Patrol (Y60, Y61)		84-97	550-650
Patrol	Dual A/C	88-93	1000-1050
Patrol GQ		80-93	800-850
Patrol (Y60), GR		7/94-98	550-650
Patrol (Y61), GU		97-06	750-850
Patrol (Y61), 2.8, 3.0Lt, Diesel		98-08	750-850
Patrol, Wagon		07-12	750-850
Pintara		86-89	700-750
Pintara		89-93	700-750
Pintara	Cooltemp A/C	89-93	575-625
Prairie		82-85	700-750
Prairie	Dual A/C	82-85	950-1000
Primera P10		93-96	700-800
Primera P11		96-99	550-650
Primera P12		02-07	500
Pulsar		81-94	450
Pulsar N14, N15	Cooltemp A/C	90-00	580-620
Pulsar N15		95-00	600-700
Pulsar N15, 2.0Lt		95-00	500-600
Pulsar N16		00-06	450-550
Qashqai		07>	450
Serena		92-6/96	600-700
Serena	Dual A/C	92-6/96	725-825
Serenal		96-03	675-775

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Serena		7/96-03	550-650
Serena	Dual A/C	7/96-03	675-775
Skyline		78-90	700-750
Skyline R31	Cooltemp A/C	85-92	575-625
Skyline	Import Vehicles	98>	450-550
Stanza		80-83	650-700
Sunny		79-81	600-650
Sunny B13		10/92-95	700-800
Sunny Y10, Wagon		9/92-3/94	700-800
Sunny Y10, Wagon		4/94-96	650-750
Terrano I, D21		87-92	800-900
Terrano II, R20		97-99	700-800
Tiida		06-12	450
Urvan		81-86	700-750
Urvan	Dual A/C	81-86	950-1000
Urvan	O/Head Dual A/C	81-86	950-1000
Urvan		87-92	750-800
Urvan	Dual A/C	87-92	950-1000
Urvan E24		7/94-96	900-1000
Urvan E24	Dual A/C	7/94-96	1150-1250
Vanette		81-86	700-750
Vanette	Dual A/C	81-86	950-1000
Vanette		86-93	700-750
Vanette	Dual A/C	86-93	950-1000
Vanette		93-97	500-600
Vanette	Cooltemp A/C	93-97	630-670
Vanette Cargo		92-6/96	600-700
Vanette Cargo	Dual A/C	92-6/96	725-825
Vanette Cargo, 2.3Lt, Diesel		7/96-01	600
Vanette Cargo, 2.3Lt, Diesel	Dual A/C	7/96-01	700
Vanette M20, 1.6Lt		10>	450
Vanette M20, 1.6Lt	Dual A/C	10>	650
Vanette M20, 1.5Lt dCi, Diesel		10>	450
Vanette M20, 1.5Lt dCi, Diesel	Dual A/C	10>	650
X-Trail T30,T31		01-13	450-500

Refrigerant Gas



			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Nissan - Truck			
Cabstar E		98>	750
Cabstar F23		6/94-00	600-700
Cabstar F24, 2.5, 3.0Lt, Diesel		06>	300
Cabstar, 3.0Lt, Diesel		04-07	750
Interstar X70, 1.9, 2.2, 2.5, 3.0Lt, Diesel		03-06	820-880
Interstar X70, 1.9, 2.2, 2.5, 3.0Lt, Diesel	16 Seats; Dual A/C	03-06	1400
Interstar X70, 1.9, 2.2, 2.5, 3.0Lt, Diesel	7 Seats; Dual A/C	03-06	1300
Interstar X70, 2.5Lt, Diesel		06>	750
Interstar X70, 2.5Lt, Diesel	16 Seats; Dual A/C	06>	1400
Interstar X70, 2.5Lt, Diesel	9 Seats; Dual A/C	06>	1300
Opel			
Astra		12-13	600
Corsa		12-13	470
Insignia		12-13	600
Omega		98-9/00	950
Peugeot			
106	Sanden Compressor; SD7H13, 15	94-4/96	850-900
106	Sanden Compressor; SD7V12, 16	94-4/96	850-900
106 II, GTI		5/96-03	815-835
106 II, 1.6Lt, Diesel		5/96-03	750
205		87-93	700
205		93-98	675
206		98-07	680-720
207		07-12	425-475
306		94-97	875-925
306 N5		97-03	700-750
307		07-09	425-475
308		08-12	425-450
405		89-91	1200-1250
405		94-97	650-700
406	Delphi Compressor	96-99	730-770
406	Sanden Compressor	96-99	780-820
406, 1.6, 1.8, 2.0Lt	Engine Code; XU	99-04	775
406, 2.0, 2.2Lt Hdi	Engine Code; EW10	99-04	620
406, 3.0Lt	Engine Code; ES9J	99-04	750

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
406		07-11	525
407, 2.0Lt, V6		99-03	730-770
407		04-06	600-650
407		07-12	475-525
505		80-93	750
508		11-13	525
604		80-82	700
605		94-97	865-910
607		01-09	600-650
Expert		08-11	525-575
Partner		08-11	425-475
Boxer III, 2.2, 3.0Lt, Diesel		4/06>	550
Boxer III, 2.2, 3.0Lt, Diesel	Dual A/C	4/06>	950
RCZ		10>	425
Pontiac			
Firebird		93-96	750-800
Firebird		98-99	650-700
Porsche			
911		77-82	990
911		82-92	900-950
911		99-03	800-850
911 Turbo	Includes Turbo	75-79	990
911 Turbo	Includes Turbo	80-83	950
924		79-82	765
928		77-88	945
928		86-93	800
928	Dual A/C	86-93	950
930		82-85	950
944		85-92	950
968		92-95	850
986		97-05	850
Boxster, 986		97-07	850
Carrera		>03	900
Carrera GT		03-07	600
Cayenne, 3.2Lt	2 Zone A/C; Includes Turbo	02-07	700
Cayenne, 3.2Lt	4 Zone A/C; Includes Turbo	02-07	1050

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Vehicle, Make & Model	Notes	Years	Charge (gms)
Cayenne		03-11	698-750
Cayenne	4 Zone A/C	07-11	1000-1100
Cayman All		05>	900
Proton			
Gen 2, 1.6Lt		04>	600
Jumbuck		03-10	500
Persona		95-05	600
Satria		97-05	600
Satria Neo, 1.3, 1.6Lt		06>	550
Savvy, 1.2Lt		06-11	500
Waja, 1.6Lt		01-07	575
Wira		95-96	550
Wira		96-05	600
Wira, 1.5, 1.6Lt	Cooltemp A/C	96-05	650-700
Renault			
18		80-83	765
19		91-93	765
19		94-96	800
20		80-83	765
21		87-91	750
25	Sanden Compressor; SD508, 510	83-92	800
25	Sanden Compressor; SD709	83-92	750
Clio		01-06	630-690
Clio		07-12	475-545
Espace II		94-97	1225-1275
Espace III		12/96-02	850-910
Espace III, 2.2Lt, Diesel	Includes Turbo	96-00	770-830
Espace, V6		98-02	865-915
Espace, 1.9Lt, Diesel	Includes Turbo	99-02	700-740
Espace IV, (JKO), 3.5Lt		02-10	965-1035
Espace IV, (JKO), 1.9, 2.0, 2.2, 3.0Lt, Diesel	Includes Turbo	02-10	965-1035
Fluence, 1.5Lt, Diesel		98-08	530
Fuego		92-87	700-750
Kangoo		98-08	615-685
Kangoo, 1.6Lt		08>	550
Kangoo, 1.5Lt, Diesel		10-13	575

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Koleos		08-13	500-600
Laguna		95-96	800
Laguna (N7Q), 2.0Lt		96-99	775-825
Laguna, 1.9, 2.2Lt, Diesel	Includes Turbo	96-01	670-730
Laguna		02-11	615-685
Megane	Sanden Compressor	95-99	725-775
Megane	Delphi Compressor	95-99	720-780
Megane		01-04	725-795
Megane X84		03-06	550
Megane		07-12	515-585
Safrane		95-00	815-885
Scenic		01-02	715-775
Scenic, 2.0Lt		01-04	645-715
Scenic II		05-06	550
Scenic, Grand		07-11	515-585
Trafic		04-06	705-725
Trafic		07-13	615-685
Renault - Truck			
Kerax		97-99	1400
Kerax		02-06	1550
Kerax		07>	1250
Magnum		96-99	1450
Magnum, E'Tech		00>	1450
Mascott, 2.8Lt, dCi, Diesel	Includes Turbo	99-10	890
Mascott, 3.0Lt dXi, Diesel		07>	750
Master		04-12	715-785
Master II, 2.8Lt, Diesel		10/03-07	850
Master II, 3.0Lt Diesel		1/03-07	750
Master II, 3.0Lt Diesel		07-10	750
Maxity, 2.5, 3.0Lt, Diesel		07>	300
Midliner M		96-99	1200
Midliner S		95-99	1200
Midlum		99>	1200
Premium		96-06	1400
Premium II		10/05>	1200

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Vehicle, Make & Model	Notes	Years	Charge (gms)
Rolls-Royce			
Corniche		71-76	1200
Silver Dawn		93-98	750
Silver Shadow		66-76	1200
Silver Shadow	Dual A/C	70-76	1400-1500
Silver Shadow II		77-80	1150
Silver Spirit		81-85	1125
Silver Spirit		93-98	750
Silver Spirit II		89-92	1450
Silver Spirit	> VIN 20000	-	1100
Silver Spirit	VIN 20001 >	-	1100
Silver Spirit	VIN 30001 >	-	1250
Silver Spur		93-98	750
Rover			
25		99-05	540-580
45		99-05	535-585
75		99-05	400-500
200		94-95	710
200		95-99	535-585
216 Coupe, Cabrio		96-99	535-585
218 Coupe, Cabrio		96-99	535-585
416i		86-90	750-850
416, Tourer		96-99	535-585
820		94-99	600-700
825		94-99	600-700
827		94-99	600-700
3500		72-79	800
Quintet		83-85	650
SAAB			
900		81-93	750-800
900	Large Condenser	81-93	800-850
900	Sanden Compressor	86-92	725
900		93-98	800
900	Seiko Seiki Compressor	97-98	725
9000		86-93	750-800
9000		93-98	950

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Vehicle, Make & Model	Notes	Years	Charge (gms)
9-3		98-02	700-800
9-3		02-11	665-705
9-5		79-80	750-800
9-5		97-05	850-900
9-5		05-08	825
Scania - Truck			
93 H, M		88-96	800
94 C, D, G, L		96>	1450
113 E, H, M		91-96	800
114 C, G, L		98>	1450
124 C, G, L		96>	1450
143 E, H, M		91-96	800
144 C, G, L		95>	1450
164 C, G, L		00>	1450
G Series		04>	1250
P Series		04>	1250
R Series		04-10	1250
T93 H		90-96	800
T94 C, G, L		96>	1450
T113 E, H		90-96	800
T114 C,G,L		98>	1450
T124 C, G, L		96>	1450
T143 E, H		91-96	800
T144 C, G, L		95>	1450
Seat			
Altea		04-08	500-550
Cordoba		95-99	835-895
Cordoba		99-02	775
Ibiza II		95-99	835-895
Ibiza III		99-02	775
Toledo		95-99	820-880
Toledo II		99-05	750-800
Škoda			
Fabia		00-07	525-575
Octavia (1U)		96-05	750-800

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Vehicle, Make & Model	Notes	Years	Charge (gms)
Octavia II (1Z)	Denso Compressor; 7SEU16, 7SEU17; Sanden, Zexel Compressor;	6/04-13	500-550
Roomster		06-10	485-515
Superb		02-12	575-625
Yeti		09>	525
Smart			
Cabrio		98-03	620
Cabrio		03-04	450
Cabrio		04-07	450
City		03-04	450
City		04-07	450
City Coupe		98-03	620
Crossblade (450)		98-03	620
ForFour (454)		04-06	440
ForTwo (450)		03-04	450
ForTwo (450)		04-07	450
ForTwo (451)		07-10	420
ForTwo (451)	Electric Drive	10>	550
Roadster		98-03	620
Roadster, Coupe (452)		03-06	650
Ssangyong			
Actyon, 2.0Lt, Diesel		06>	650
Chairman 100		05-06	650-750
Korando		98>	650-750
Kyron		05>	600-700
Musso		96-99	650-750
Musso FJ		99-06	650-750
Rexton		02-06	800-900
Rexton	Dual A/C	02-06	1150-1250
Rexton II, 2.7Lt, Diesel	Delphi Compressor; Climate Control	06-12	850
Subaru			
BRZ		12-13	375-415
Brumby		81-93	665-710
Fiori		89-92	540
Forester		94-96	750
Forester		97-01	600-700

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Forester		02-08	550-650
Forester		09-10	470-530
Forester		13>	420-480
Impreza		93-97	585-675
Impreza		97-02	550-600
Impreza, 1.5, 1.6, 2.0, 2.5Lt	Includes Turbo	01-07	450-550
Impreza		08-12	470-530
Impreza Sportswagon		94-96	600-700
Impreza Sportswagon		97-00	600-700
Justy (G3X), 1.3, 1.5Lt		03-07	430
Justy IV		07>	300
Legacy		94-95	600-700
Legacy		1/96-12/96	700-800
Legacy		1/97-99	775-825
Legacy		00-03	625-675
Legacy		03-09	430
Legacy 5th Generation, 2.5Lt		9/09>	425
Legacy 5th Generation, 2.0Lt, Diesel		9/09>	425
Leone		81-90	665-710
Liberty		89-93	700
Liberty 2nd Generation		94-98	600-700
Liberty 3rd Generation		98-03	400-500
Liberty 4th Generation		03-08	370-430
Liberty		08-12	400-450
Outback 2nd Generation		94-99	600-700
Outback 3rd Generation		98-03	400-500
Outback 4th Generation		04-12	370-430
SVX		92-93	540-630
SVX		93-97	600-700
Tribeca		06-12	570-630
Tribeca	Dual A/C	06-12	840-900
Vortex		85-89	665-710
WRX		11>	500
XV		12-13	450-500
Suzuki			
Alto		93-98	500-600

Refrigerant Gas



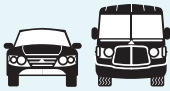
Vehicle, Make & Model	Notes	Years	Charge (gms)
Alto		98-02	500-600
Alto		6/02-09	400
Alto		09-12	350-390
Alto 550		85-88	500
Alto 800		85-89	630
Baleno		95-03	600
Baleno	Cooltemp A/C	95-03	530-570
Cappuccino		93-96	700
Carry		78-85	600
Grand Vitara, 4 Cyl		98-05	390-490
Grand Vitara, V6		01-06	450-550
Grand Vitara	Seiko Seiki Compressor	00-05	390-490
Grand Vitara		10-12	500-560
Hatch		81-83	540
Hatch		84-89	630
Ignis		00-05	330-390
Jimny		98-06	500-600
Kizashi		10-13	530
Liana		01-08	470-530
Mighty Boy		85-89	630
Sierra		81-93	550
Sierra		93-98	650
Splash		08-14	370
Swift		84-93	450-495
Swift		93-99	700
Swift, Cino	Cooltemp A/C	94-99	630-670
Swift		00-01	450-500
Swift		05-12	350-390
SX4		07-13	410-450
Vitara		88-93	495-540
Vitara	Cooltemp A/C	88-93	430-470
Vitara, 1.6, 2.0Lt, V6		93-98	570
Vitara		99-00	450-500
Wagon R (EM)		97-00	500-600
Wagon R (MM), 1.3Lt		00-06	450-500
X90		96-98	570

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
XL7		01-06	450-550
Tata			
Safari		00-07	1100-1200
Toyota			
4 Runner		89-93	675-750
4 Runner		93-96	650-750
4 Runner V6	Cooltemp A/C	93-96	575-625
86		12-13	375-415
Aurion		00-06	500
Aurion		07-13	450
Auris		07-12	450
Auris, Hybrid		10>	475
Avalon		00-05	750-850
Avensis		01-03	430-490
Avensis		03-09	470-530
Avensis	Dual A/C	03-09	770-830
Avensis ZRT272R		09>	440
Blizzard		83>	600-650
Camry		83-91	585-650
Camry SV21, SV22	Cooltemp A/C	86-93	580-620
Camry SXV10, VCV10		93-97	800-900
Camry SDV10R, VDV10R	Cooltemp A/C	93-98	780-820
Camry, 20 Series		97-02	750-850
Camry SXV20R, MCV20R	Cooltemp A/C	97-02	780-820
Camry, 36 Series		02-06	530-630
Camry, 40 Series		06-09	470-530
Camry, Hybrid		07>	480-580
Carina		92-98	700-800
Celica TA22		74-76	720
Celica TA23		76-85	630
Celica		86-89	650-765
Celica		89-98	675-765
Celica		94-06	600-700
Celica ZZT231		99-06	400-460
Celica		00-03	450-500
Coaster		85-94	2350-2400

Refrigerant Gas




			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Corolla		78-85	630
Corolla		85-93	585-650
Corolla AE92	Cooltemp A/C	87-92	650-700
Corolla, AWD		87-93	540-630
Corolla, 100 Series		94-98	600-700
Corolla		96-98	600-650
Corolla AE101R	Cooltemp A/C	91-99	680-720
Corolla AE112		98-01	600-700
Corolla ZZE112R, ZZE122R		01-06	460-520
Corolla ZRE152R		08-11	410-470
Corona		74-87	585-675
Corona		87-93	600-650
Cressida		77-93	585-675
Cressida MX83		88-92	725
Crown		74-75	700
Crown		76-80	700
Crown	Dual A/C	76-80	950
Crown		82-83	720
Crown		85-87	700-750
Crown	Dual A/C	85-87	950
Dyna		85-93	600-650
Echo		99-02	400-460
Echo		02-05	380-440
Hiace		82-89	585-675
Hiace	Dual A/C	82-89	950
Hiace		89-93	750-800
Hiace	Dual A/C	89-93	950
Hiace		94-04	650-750
Hiace RZH103R, LH103R	Cooltemp A/C	89-98	580-620
Hiace		05-06	650-750
Hiace		06>	520-580
Hilux		83-88	585-675
Hilux LN60	Cooltemp A/C	84-89	580-620
Hilux		88-93	630-700
Hilux		93-97	700-800
Hilux		97-05	500-600

Refrigerant Gas




Refrigerant Gas


Vehicle, Make & Model	Notes	Years	Charge (gms)
Hilux LN167R	Cooltemp A/C	00-05	630-670
Hilux		05-10	430-480
Hilux, 4.0Lt V6, 4WD		05>	600-700
Hilux, 2.7Lt		06-08	600-700
IQ		08>	370
Kluger MCU28R		03-06	600-700
Kluger		06>	610-710
Landcruiser BJ, FJ, HJ, RJ		74-92	585-675
Landcruiser FJ, HJ	Dual A/C	84-93	1050-1100
Landcruiser FZJ75, FZJ78, FZJ79		92-03	700-800
Landcruiser FZJ75, FZJ78, FZJ79	Dual A/C	92-03	1300-1400
Landcruiser FZJ75, FZJ78, FZJ79	Dual A/C; Coolbox	92-03	1450-1550
Landcruiser FZJ80		92-98	800-900
Landcruiser FZJ80	Dual A/C	92-98	1300-1400
Landcruiser FZJ80	Dual A/C; Coolbox	92-98	1450-1550
Landcruiser FZJ105		98-02	600-700
Land Cruiser FJ		10>	570-630
Landcruiser HDJ80, HDJ81, HDJ82		90-98	800-850
Landcruiser HDJ80, HDJ81, HDJ82	Dual A/C	90-98	1300-1400
Landcruiser HDJ80, HDJ81, HDJ82	Dual A/C; Coolbox	90-98	1450-1550
Landcruiser HDJ100, HDJ101		98-00	600-700
Landcruiser HDJ100, HDJ101	Dual A/C	98-07	950-1000
Landcruiser HDJ78, HDJ79		01-07	700-800
Landcruiser HZJ70, HZJ73		90-99	600-650
Landcruiser HZJ75		90-93	600-650
Landcruiser HZJ75	Dual A/C	90-93	1050-1100
Landcruiser HZJ75		94-99	700-800
Landcruiser HZJ75	Dual A/C	94-99	1300-1400
Landcruiser HZJ75	Dual A/C; Coolbox	94-99	1450-1550
Landcruiser HZJ78, HZJ79		99-00	725-775
Landcruiser HZJ78	Dual A/C	98-07	950-1000
Landcruiser HZJ78, HZJ79		01-07	600-650
Landcruiser HZJ80		90-93	600-650
Landcruiser HZJ80		94-98	800-900
Landcruiser HZJ80	Dual A/C	94-98	1300-1400
Landcruiser HZJ80	Dual A/C; Coolbox	94-98	1450-1550

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Landcruiser HZJ105		98-07	725-775
Landcruiser HZJ105	Dual A/C	98-07	950-1000
Landcruiser KZJ78		93-96	700-800
Landcruiser KZJ78	Dual A/C	93-96	1300-1400
Landcruiser KZJ78	Dual A/C; Coolbox	93-96	1450-1550
Landcruiser KZJ95		96-03	650-750
Landcruiser KZJ	Dual A/C	96-03	950-1000
Landcruiser LJ70, LJ71, LJ78		86-94	600-650
Landcruiser LJ70, LJ71, LJ78	Dual A/C	86-94	1050-1100
Landcruiser PZJ70, PJZ73		90-93	600-650
Landcruiser PZJ70, PJZ73	Dual A/C	90-93	1050-1100
Landcruiser UZJ100		98-07	725-775
Landcruiser UZJ100	Dual A/C	98-00	1000-1100
Landcruiser UZJ100	Dual A/C; Coolbox	98-00	1100-1200
Landcruiser UZJ100	Dual A/C	01-07	950-1000
Landcruiser UZJ100	Dual A/C; Coolbox	01-07	1000-1050
Landcruiser URJ202, UZJ200	Dual A/C; Coolbox; 22mm Condenser	12-15	985-1035
Landcruiser URJ202, UZJ200	Dual A/C; Coolbox; 16mm Condenser	12-15	945-995
Landcruiser VDJ200	Dual A/C; Coolbox; 22mm Condenser	07-15	960-1060
Landcruiser VDJ200	Dual A/C; Coolbox; 16mm Condenser	07-15	920-1020
Landcruiser VDJ76, VDJ78, VDJ79		07-15	840-900
Landcruiser VDJ76, VDJ78, VDJ79	Dual A/C	07-15	950-1000
Liteace		85-91	585-675
Liteace	Dual A/C	85-91	950-1000
Liteace		93-97	650
MR2		85-89	675-750
MR2		91-93	650-700
MR2 SW20		11/93-00	800-900
MR2 ZZW30		00-06	450-500
Paseo		91-93	650-700
Paseo EL44		93-99	550-600
Picnic		96-00	700-800
Prado KZJ95, RZJ95, VZJ95		96-03	725-775
Prado KZJ95, RZJ95, VZJ95	Dual A/C	96-03	925-975
Prado GRJ120, KZJ120, RZJ120		03-06	600-700
Prado GRJ120, KZJ120, RZJ120	Dual A/C	03-06	750-850

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Prado GRJ120, KZJ120, RZJ120	Dual A/C; Coolbox	03-06	850-950
Prado GRJ120, GRJ150, GRJ200, KDJ120, KDJ150, KDJ155		06-13	520-580
Previa		8/93-06	850-950
Previa	Dual A/C	8/93-06	1100-1200
Prius NHW11R		00-03	450-500
Prius NHW20		04-07	420-480
Prius		08-12	470
Prius C		12-13	370-470
Prius V		12-13	440-500
RAV4, 10 Series		94-00	650-750
RAV4, 20 Series		6/00-06	480-540
RAV4 S3		06-12	400-460
Spacia		92-93	610
Spacia	Dual A/C	92-93	1000-1050
Spacia YR22RG		93-97	650
Spacia SR40		98-01	700-800
Sprinter		83-85	675
Starlet EP91R		94-96	650
Starlet EP91R	Cooltemp A/C	94-96	630-670
Supra		83-85	600-650
Supra		86-93	700-750
Supra		93-97	650-750
T18		83>	630
Tarago		82-89	600-650
Tarago	Dual A/C	82-89	1000
Tarago		90-93	855
Tarago	Dual A/C	90-93	1000
Tarago AC22R		93-00	850-950
Tarago	Dual A/C	93-00	110-1200
Tarago ACR30R		00-06	650-730
Tarago	Dual A/C	00-06	850-910
Tercel		85-88	600-650
Townace		85-88	600-650
Townace	Cooltemp A/C	85-88	630-670
Townace		93-97	600-700
Townace	Dual A/C	93-97	1050-1150

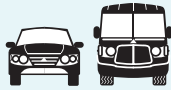
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Vehicle, Make & Model	Notes	Years	Charge (gms)
Yaris		05-06	360
Yaris		06-07	380-440
Yaris P13		11>	360
Triumph			
Stag		72-75	750
TR7		79-82	750
Volkswagen			
Amarok		10-12	500-550
Beetle		98-10	700-750
Beetle		10-13	525
Bora		99-06	750-800
Caddy		05-11	500-550
Caravelle		90-93	650-700
Caravelle	Dual A/C	90-93	900
Corrado		7/92-05	850-900
Crafter		06>	740
Crafter	Roof Mount A/C	06>	1125
Eos		06-11	500-550
Golf		80-82	855
Golf		85-92	800
Golf		93-98	750-850
Golf		94-98	650-700
Golf 4th Generation		98-04	710-810
Golf 5th Generation		04-08	500-550
Golf 6th Generation	Denso Compressor; 6SEU14C	08>	525
Golf Cabriolet		90-93	470
Golf Cabriolet		99-03	750-850
Golf GTI		90-93	490
Jetta		85-92	800
Jetta		92-97	1100-1200
Jetta		98-06	700-750
Jetta		06-12	500-550
Passat		80-82	455
Passat		90-91	450-550
Passat		91-95	800-850
Passat		06-12	650-700

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
Passat 3		95-97	1100-1200
Passat 4		97-00	600-700
Passat GP		01-05	575-625
Passat GPW8		03-05	495-535
Phaeton	Denso Compressor; 7SB16C, 7SEU16	02-10	575-625
Polo		96-01	810-910
Polo		02-06	525-575
Polo		07-12	485-515
Scirocco		08>	525
Sharan		95-00	950-1000
Sharan	Dual A/C	95-00	1350-1400
Sharan		4/00-07	700-750
Sharan	Dual A/C	4/00-10	1050-1100
Sharan (4N)	Denso Compressor; 7SEU17	10>	600
Sharan (4N)	Denso Compressor; 7SEU17C, Dual A/C	10>	950
Sharan (7N)	Sanden, Valeo Compressor	10>	600
Sharan (7N)	Sanden, Valeo Compressor; Dual A/C	10>	950
Tiguan		07-12	660
Touareg	Denso Compressor; 7SEU16C	02-09	650-750
Touareg	Denso Compressor; 7SEU16C, Dual A/C	02-09	1000-1100
Touareg	Denso Compressor; 7SEU17C	04-10	650-750
Touareg	Denso Compressor; 7SEU17C, Dual A/C	04-10	1000-1000
Touareg (7P)		4/10>	850
Touareg (7P)	Dual A/C	4/10>	1150
Transporter	Sanden Compressor	93-03	900-1000
Transporter T5, (7H,7J)	Denso Compressor; 7SEU16C	03-10	600-700
Transporter T5, (7H,7J)	Denso Compressor; 7SEU16C, Dual A/C	03-10	950
Transporter T5, (7H,7J)	Sanden Compressor; SD7V16	03-10	600-700
Transporter T5, (7H,7J)	Sanden Compressor; SD7V16, Dual A/C	03-10	1000-1100
Up!	Doowon Compressor; DV9	12>	380
Vento		95-97	750-850
Volvo			
240		75-78	750
240		79-90	800

Refrigerant Gas



Vehicle, Make & Model





Notes

Years

Charge (gms)

240		91-92	900
240		93-94	750
260		75-78	750
260		79-86	850
360		84-87	800
440		93-96	600-700
740		91>	900
760		89-90	1000-1050
760		91>	900
850		93-97	750-850
900		93-97	750-850
940		91-96	850-950
960		91-96	850-950
C30		07-12	500-550
C70		98-01	700-750
C70		02-04	800-850
C70		05-12	500-550
S40		97-04	800-900
S40 M Series		04-06	500-550
S40		07-12	500-550
S60		00-05	1000
S60		06-10	700
S60		4/10>	820
S70		97-00	750-850
S80		98-06	1000
S80		06>	650
V40		97-04	800-900
V40		05-13	900
V40		13>	650
V50		04-06	500-600
V60		11-13	800
V70		97-00	750-850
V70		00-06	950-1050
V90		94-98	950-1050
XC60		08>	820
XC90	Dual A/C	02-07	1300

Refrigerant Gas

			
Vehicle, Make & Model	Notes	Years	Charge (gms)
XC90		07-13	950-1050
Volvo - Truck			
F10		90-93	1400
F12		90-93	1400
F16		90-93	1400
FE		5/06>	1280
FH		1/03>	1150-1200
FH12		93-01	1200
FH13		05>	1250
FH16		93-99	1150
FL6		93-99	1150
FL Series II		5/06>	1200
FM7		98>	1150
FM9		01-09	1200
FM10		99>	1150
FM12		98-9/05	1200
FM13		9/05>	1250
FMX		10>	1250

Refrigerant Gas

Pressure Temperature Chart

Temperature °C	Pressure (Kpa)					
	HFO-1234yf	R134a	R404a	R507	R407	R12
-10	222	99	324	350	320	118
-8	239	115	355	382	345	134
-6	256	133	387	415	372	151
-4	275	151	420	450	400	169
-2	295	171	455	486	430	187
0	316	191	493	525	461	207
2	338	213	532	565	494	228
4	361	236	572	608	529	250
6	385	260	615	652	566	273
8	411	286	660	698	604	297
10	438	313	707	747	645	322
12	466	341	756	798	688	348
14	495	371	808	851	732	376
16	526	402	862	906	779	404
18	558	435	918	964	828	434
20	591	470	976	1024	880	466
22	627	506	1037	1087	934	498
24	664	544	1101	1152	990	533
26	702	583	1167	1221	1049	568
28	742	625	1236	1291	1110	605
30	784	668	1308	1365	1175	643
32	827	713	1382	1442	1242	683
34	872	761	1460	1521	1311	725
36	919	810	1540	1604	1384	768
38	967	861	1624	1689	1460	813
40	1018	915	1711	1778	1539	859
42	1071	970	1800	1870	1621	907
44	1126	1028	1894	1966	1707	957
46	1182	1089	1990	2064	1796	1009
48	1241	1151	2090	2167	1888	1062
50	1302	1216	2194	2273	1985	1118
52	1366	1284	2301	2382	2085	1175
54	1431	1354	2412	2496	2188	1234
56	1499	1427	2526	2613	2296	1295
58	1569	1502	2644	2734	2408	1359
60	1642	1581	2767	2859	2524	1424

Manufacturer	Model	Type	Specification	OE PAG Oil Part No:	PAG Oil Part No:	ESTER OIL Part No:	Oil Capacity
Atsugi	NVR140	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
Bosch/Behr	DK14	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
Calsonic	CR10, CR14	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	200ml
	CWV615M	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	200ml
	CWV617	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	200ml
	CSV613	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	150ml
	DKV11D	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	200ml
	DKV14C	Swash Plate	PAG II - (ISO 100)		0G6810	0G6001	200ml
Centrola	FS507/8	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	130ml
	FS607	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	130ml
	CPR Series	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	140ml
Chrysler	V2	Reciprocating 2 cyl	PAG II - (ISO 100)		0G6810	0G6001	227ml
Clarion	CPR/W	Swash Plate 10 cyl	PAG I - (ISO 46)		0G6812	0G6001	140ml
		Wankel Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	150ml
Delco/Frigidaire	A6 (R12)	Swash Plate 6 cyl	PAG III - (ISO 150)		0G6822*	0G6001	284ml
	A6 (R134a)	Swash Plate 6 cyl	PAG III - (ISO 150)		0G6822*	0G6001	284ml
	R4	Rotary Vane 4 cyl	PAG III - (ISO 150)		0G6822	0G6001	170ml
	V5/V6	Wobble Plate	PAG III - (ISO 150)		0G6822	0G6001	225ml
Delphi	CVC	Variable Disp	PAG II - (ISO 100)		0G6810	0G6001	220ml
	HR6	Variable Disp	PAG II - (ISO 100)		0G6810	0G6001	237ml
V5 Commodore > June 00		Variable Disp	PAG III - (ISO 150)		0G6822	0G6001	220ml
V7 Commodore > June 00		Variable Disp	PAG III - (ISO 150)		0G6822*	0G6001	265ml
	SP10	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	150ml
	SP15	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	230ml
	SP17	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	230ml
	SP21	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	230ml
DENSO	6D152	Swash Plate 6 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	350ml
	6E171	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	280ml
	6E171A	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	280ml
Note: Most 6P models R12 (150ml)							
	6P80C	Swash Plate 6 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	170ml
	6P127A	Swash Plate 6 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	155ml
	6P127D	Swash Plate 6 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	6P134	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812	0G6001	230ml
	6P148	Swash Plate 6 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	170ml
	6SBU16C	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	170ml
	6SEU12C	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	180ml
	6SEU14	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	105ml
	6SEU16	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SBU16C	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SBU16H	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml

Manufacturer	Model	Type	Specification	OE PAG Oil Part No:	PAG Oil Part No:	ESTER Oil Part No:	Oil Capacity
DENSO	7SBU17C	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SEH17C	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SEU16C	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SEU17C	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	7SEU16	Electric Variable	PAG I - (ISO 46)	0G8040	0G6812	0G6001	145ml
	ES14C	Hybrid	ND11	0G8011	0G8000		145ml
	ES18C	Hybrid	ND11	0G8011	0G8000		145ml
	ES27C	Hybrid	ND11	0G8011	0G8000		145ml
	10P08	Swash Plate	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10P13	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10P15	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10PA15	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10P17	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10PA17	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml
	10P25C	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	400ml
	10P30C	Swash Plate 10 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	400ml
	6C500c	Reciprocating 6 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	1800ml
	TV-10	Rotary Vane	PAG II - (ISO 100)	0G9040	0G6810	0G6001	140ml
	TV-14	Rotary Vane	PAG II - (ISO 100)	0G9040	0G6810	0G6001	140ml
	SC06C	Scroll	PAG I - (ISO 46)	0G8040	0G6812	0G6001	75ml
	SC08C	Scroll	PAG I - (ISO 46)	0G8040	0G6812	0G6001	75ml
	SCSA06C	Scroll	PAG I - (ISO 46)	0G8040	0G6812	0G6001	75ml
	SCSA08C	Scroll	PAG I - (ISO 46)	0G8040	0G6812	0G6001	75ml
2C90	Reciprocating 2 cyl	PAG II - (ISO 100)		0G6810*	0G6001	240ml	
2M110	Reciprocating 2 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	250ml	
2M110B	Reciprocating 2 cyl	PAG I - (ISO 46)	0G8040	0G6812*	0G6001	240ml	
SV07	Rotary Vane	PAG I - (ISO 46)	0G8040	0G6812	0G6001	100ml	
Diesel Kiki	DKS12	Swash Plate 6 cyl	PAG I - (ISO 46)		0G6812	0G6001	150ml
(Zexel)	DKS13	Swash Plate 6 cyl	PAG I - (ISO 46)		0G6812	0G6001	120ml
	DKS15	Swash Plate 6 cyl	PAG I - (ISO 46)		0G6812	0G6001	150ml
	DKS16	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	200ml
	DKS17	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	200ml
	DKV-14C	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	DKV-14D	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	DCW	Wobble Plate	PAG I - (ISO 46)		0G6812	0G6001	200ml
	DCW-17	Wobble Plate	PAG I - (ISO 46)		0G6812	0G6001	200ml
Ford	FX 10-15 YN12a	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
Hadsys	TRF90 style	Turbo Rotary Scroll	PAG II - (ISO 100)		0G3756	0G6001	135ml
Halla Climate Control	FS10, FX15	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	FS10	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	FS20	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml

Manufacturer	Model	Type	Specification	OE PAG Oil Part No:	PAG Oil Part No:	ESTER Oil Part No:	Oil Capacity
	HS11	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	HS15	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	HS17	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	HS18	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
	HS20	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	170ml
Hitachi	MJS130/170	Swash Plate 6 cyl	PAG I - (ISO 46)		0G6812	0G6001	170ml
	MJ123/MJ167	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	200ml
	SWP123, SWP167	Swash Plate	PAG I - (ISO 46)		0G6812*	0G6001	250ml
Kelhin	AN150/CN150	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	150ml
Matsushita	S1150	Rotary Vane	PAG I - (ISO 46)		0G6812	0G6001	135ml
Nihon	NVR140	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
Panasonic	SA1150AA4 (R12)	Rotary Vane	PAG I - (ISO 46)	0G3755	0G6812	0G6001	140ml
	SA1150AA4 (R134a)	Rotary Vane	PAG I - (ISO 46)	0G3755	0G6812	0G6001	140ml
	N1300, N1500	Rotary Vane	PAG I - (ISO 46)	0G3755	0G6812	0G6001	135ml
Sanden	SD505	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	100ml
	SD507 TXV System	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	135ml
	SD507 OT System	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810*	0G6001	240ml
	SD508	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	175ml
	SD510 TXV System	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	135ml
	SD510 OT System	Wobble Plate 5 cyl	PAG II - (ISO 100)	0G3756	0G6810*	0G6001	240ml
	SD708, SD709 TXV System	Wobble Plate 7 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	135ml
	SD708, SD709 OT System	Wobble Plate 7 cyl	PAG II - (ISO 100)	0G3756	0G6810*	0G6001	240ml
	SD5H09	Wobble Plate 5 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	100ml
	SD5H11	Wobble Plate 5 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	175ml
	SD5H14	Wobble Plate 5 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	175ml
	SD7B10	Wobble Plate 7 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	100ml
	SD7H13 TXV System	Wobble Plate 7 cyl	PAG II - (ISO 100)	0G3756	0G6810	0G6001	135ml
	SD7H13 OT System	Wobble Plate 7 cyl	PAG II - (ISO 100)	0G3756	0G6810*	0G6001	240ml
	SD7H15 TXV System	Wobble Plate 7 cyl Series 4-7	PAG II - (ISO 100)	0G3756	0G6810	0G6001	135ml
	SD7H15 OT System	Wobble Plate 7 cyl Series 4-7	PAG II - (ISO 100)	0G3756	0G6810*	0G6001	240ml
	SD7H15 TXV System Series 8	Wobble Plate 7 cyl Series 8	PAG I - (ISO 46)	0G3755	0G6812	0G6001	135ml
	SD7H15 OT System series 8	Wobble Plate 7 cyl series 8	PAG I - (ISO 46)	0G3755	0G6812*	0G6001	240ml
	TR70	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TR90	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRS090	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRF105	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml

Manufacturer	Model	Type	Specification	OE PAG Oil Part No:	PAG Oil Part No:	ESTER Oil Part No:	Oil Capacity
Sanden	TRF105 (Accum Sys)	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	200ml
	TRS105	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRSA09	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRSA11	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRSA12	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRSE07	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	TRSE09	Turbo Rotary Scroll	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	SD6V16	Variable Disp. Wobble Plate-7 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	SD7V12	Variable Disp. Wobble Plate-7 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
	SD7V16	Variable Disp. Wobble Plate-7 cyl	PAG I - (ISO 46)	0G3755	0G6812	0G6001	150ml
Seltec	TM-13/15	Wobble Plate	PAG I - (ISO 46)		0G6812	0G6001	150ml
	TM-16	Wobble Plate	PAG I - (ISO 46)		0G6812	0G6001	180ml
Seiko Seiki	SS110 (R12)	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	SS140 (R12)	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	SS170 (R12)	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	SS110P	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	170ml
	SS140P	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	SS170P	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
	SS805T/806	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	150ml
	SS850/PSV	Rotary Vane	PAG II - (ISO 100)		0G6810	0G6001	200ml
Tama	TM-08/13/14	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	150ml
	TM-16	Swash Plate	PAG I - (ISO 46)		0G6812	0G6001	180ml
	TM-26	Swash Plate	PAG I - (ISO 46)		0G6812*	0G6001	600ml
	TM-32	Swash Plate	PAG I - (ISO 46)		0G6812*	0G6001	600ml
Tecumseh	HG1000, HGS, HGB	Reciprocating 2 cyl	PAG I - (ISO 46)		0G6812*	0G6001	320ml
Unicla	DA299	Reciprocating 2 cyl	PAG I - (ISO 46)	0G7008	0G6812*	0G6001	300ml
	DC120	Reciprocating 2 cyl	PAG I - (ISO 46)	0G7008	0G6812*	0G6001	300ml
	TC170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UC45/90	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UP90	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UPS105/107	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	140ml
	UPS108	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UPS109	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UP110	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UP/UX120	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UP/UX150	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	UP/UX170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
UP/UX200	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	180ml	

Manufacturer	Model	Type	Specification	OE PAG Oil Part No:	PAG Oil Part No:	ESTER Oil Part No:	Oil Capacity
Unicla	UX260/310	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812*	0G6001	500ml
	UPF150/170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	V120/150	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	VA150	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	VA170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	Y170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
	Z150/170	Swash Plate 10 cyl	PAG I - (ISO 46)	0G7008	0G6812	0G6001	150ml
Valeo	DCS17E	Electric Variable	PAG I - (ISO 46)		0G6812	0G6001	145ml
	DCS17EC	Electric Variable	PAG I - (ISO 46)		0G6812	0G6001	145ml
	DCS17IC	Electric Variable	PAG I - (ISO 46)		0G6812	0G6001	145ml
York	206(6")(R12) Standard	Reciprocating 2 cyl	PAG I - (ISO 46)		0G6812*	0G6001	285ml
	E209	Reciprocating 2 cyl	PAG I - (ISO 46)		0G6812*	0G6001	285ml
	E210 (10")	Reciprocating 2 cyl	PAG I - (ISO 46)		0G6812*	0G6001	341ml
	E209/210 (H/D)	Reciprocating 2 cyl	PAG I - (ISO 46)		0G6812*	0G6001	341ml
	E209/210 (H/D)	Reciprocating 2 cyl	PAG I		0G6812	0G6001	341ml

Zexel (See Diesel Kiki)

Oil Capacity and oil specification is only a guide and please consult the compressor label or the compressor manufactures service information for the recommended oil quantity and type also please undertake the correct Compressor Drain / Refill procedure.

Note: Oil Balancing is critical when replacing compressors or any other component that may contain oil.

***Note: Compressor Oil Capacity exceeds 237ml.**



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04-06 800 +/- 25
93-96 700 +/- 50
97-03 65
03-06 75
93-97 75
93-97 80
01-06 60
94-97 62
98-02 62
03-06 52
03-06 52
94-95 52
96-00 62
00-06 52
99-01 62
02-06 50
94-98 52
01-04 50
94-01 42
01-06 52
02-06 42
01-06 60
94-97 62
98-02 62
03-06 52
03-06 52
94-95 52
96-00 62
02-06 50
94-98 52
01-04 50
94-01 62
01-06 52
00-06 525 +/- 25
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