

Refrigerant Capacities for Automotive Air-Conditioners



HYCHILL HR12

The following is a comprehensive chart listing the suggested HR12 refrigerant capacities for vehicles fitted with R12 and R134a type air conditioning systems up until February 1998.

The specified charge weight for each system is applicable only to HR12. When charging a system keep in mind that the charge weight may need approximately ± 25 -50 grams of refrigerant to have the system running to its optimum. Do not over charge the system.

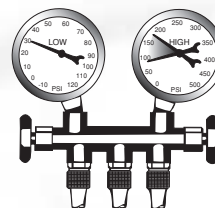
NOTE: Some vehicles have factory and aftermarket systems installed. These are identified as: Factory 335/Frozen Air 265 the first figure being factory, the second being an aftermarket system.

If your vehicle isn't listed there are two other ways of determining how much HR12 to use.

The first method is calculated by finding 30% of the original charge weight of the system. For example, a vehicle charged with 900 grams of R134a or R12 will use 270 grams of HR12.

Original charge weight (grams) x 30 % = HR12 charge weight (grams)

The second method is by reading the gauges. The gauge readings for HR12 refrigerant should be 30 psi (200kPa) on the low side and 90 to 180 psi (620-1200kPa) on the high side, depending on the ambient temperature, a good condenser, air flow and a decent sized condenser - these items contribute to variations in the high pressure gauge reading.



MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
ALFA ROMEO		
33	'88-92	270
75	'86-92	270
90	'85-88	270
164	'89-92	375
AUDI		
Audi 80	up to 7/80	270
Audi 80	8/80-7/86	330
Audi 80	8/86-93	315
Audi 90	up to 12/86	330
Audi 90	1/87-92	315
Audi 100	up to 7/79	270
Audi 100	8/79-7/83	435
Audi 100	8/83-10/85	330
Audi 100	11/85-12/90	330
Audi 100	12/90-93	330
Audi 200	up to 7/79	435
Audi 200	8/79-7/83	435
Audi 200	8/83-10/85	330
Audi 200	11/85-12/90	330
Audi V8	90-92	330
Audi A3	'97-98	225
Audi A4	'95-98	195
Audi A6	'94-98	225
Audi A6	'98-01	195
Audi A8	'95-98	225
Audi S4	'98-01	210
BMW		
316i Hatch	'95-98	245
318ti Hatch	'96-98	245
318i	'80-82	360
318i	'83-91	330
318i	'91-92	360
318i	'93-95	300
318i	'95-98	245
320i	'76-78	315
320i	'88-90	330
320i	'91-92	360
320i	'93-95	300
320i	'95-98	245
323i	'79-82	360
323i	'83-85	330
323i	'95-98	245
325e	'86-87	330

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
325i	'88-90	330
325i	'91-92	360
325i	'93-95	300
325i	'95-97	245
328i	'93-95	300
328i	'95-98	245
M3	'93-95	300
M3	'95-98	245
Z3	'97-98	270
520i	'83-85	330
520i	'90-92	450
520i	'93-96	460
523i	'96-98	360
525e	'86-88	330
525i	'88-91	330
525i	'88-92	450
525i	'93-96	460
528i	'81-85	360
528i	'96-98	360
535i	'85-88	330
535i	'88-92	450
535i	'96-98	360
540i	'93-96	460
540i	'96-98	360
M5	'86-88	330
M5	'90-92	450
(With 570mm condenser width)	'90-92	570
633 CSi Single	'77-80	330
633 CSi Dual	'77-80	540
635 CSi Single	'86-89	330
635 CSi Dual	'86-89	540
730i	'90-92	450
733i	'80-83	390
735i	'83-87	330
735iL	'88-92	450
735iL	'93-98	360
740iL	'93-98	360
750iL	'88-92	450
(With 570mm condenser width)	'88-92	570
750iL	'93-98	360
840Ci	'93-98	435
850i	'90-92	450
(With 570mm condenser width)	'90-92	570
850Ci	'93-95	460

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
CHRYSLER		
Centura KB-KC	'75-79	270
Valiant VK-CM	'75-81	375
Neon	'96-98	245
Neon	'99-01	255
Voyager Single	'97-98	285
Voyager Dual	'97-98	405
CITROEN		
AX	'91-93	235
BX16	'86-94	300
BX19	'86-94	300
CX 2400	'82-83	300
CX 2500	'84-85	300
XM 3.0 V6	'91-94	300
XM 3.0 V6	'94-98	300
Xantia (SDVI6)	'94-98	260
DAEWOO		
1.5i/Cielo	'94-98	Factory 210/Frozen Air 210
Espero	'95-97	210
Lanos	'97-98	215
Leganza	'97-98	245
Nubira	'97-98	240
DAIHATSU		
Applause	'91-93	145
Applause	'93-98	165
Centro	'97-98	145
Charade G10	'80-83	210
Charade G11	'83-87	210
Charade G100	'87-93	145
Charade G102	'89-93	145
Charade G200/G202/G203	'93-98	Factory 195/Frozen Air 145
Feroza	'88-93	210
Feroza	'93-98	145
Handi	'82-90	165
Mira	'90-93	165
Mira/L200	'93-95	140
Mira/L500R	'95-97	145
Move	'97-98	165
Pyzar	'97-98	195
Rocky	'84-93	210
Rocky	'93-98	165
Terios	'97-98	180

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
EUNOS		
30X	'92-97	235
500 V6	'92-98	210
800	'94-98	225
800 Miller	'94-98	225
FORD		
Bronco	'82-87	270
Capri SA	'89-93	180
Courier	'83-93	225
Courier	'93-98	200
Corsair UA	'90-92	360
Cortina TE-TF	'77-82	170
Econovan	'84-93	235
Econovan	'93-98	195
Escort	'77-81	150
Explorer	'96-98	255
Fairlane ZF-ZH	'72-79	270
Fairlane ZJ-ZK	'79-84	440
Fairlane ZL	'84-87	390
Fairlane NA-NC	'87-95	390
Fairlane NF-NL	'95-98	300
Fairlane AU	'98-02	255
Falcon XA-XC	'72-79	270
Falcon XD-XE	'79-84	440
Falcon XF	'84-88	390
Falcon XF-XG (Utility & Van)	'84-93	390
Falcon XH (Utility & Van)	'93-98	300
Falcon EA-EB	'87-93	390
Falcon ED-EL	'93-98	300
Falcon AU	'98-02	255
Festiva WA	'91-94	Factory 225/Frozen Air 145
Festiva WB	'94-98	Factory 210/Frozen Air 195
F Series	'81-93	270
F Series	'93-97	Frozen Air 210
Landau	'73-76	270
Laser KA-KB	'81-85	225
Laser KC-KF	'85-94	210
Laser KH	'92-94	Factory 225/Frozen Air 180
Laser/Liata/Lynx KJ	'94-98	Factory 225/Frozen Air 235
LTD FA-FB	'73-79	270
LTD FC-FD	'79-84	440
LTD FE	'84-87	390
LTD DA-DC	'87-95	390

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
FORD (Continued)		
LTD DF-DL	'95-98	300
LTD AU	'98-02	255
Marquis	'76-79	270
Maverick	'88-92	300
Maverick	'93	Factory 360/Frozen Air 255
Meteor GA-GB	'82-85	225
Meteor GC	'85-87	210
Mondeo HB/HC	'95-98	220
Probe	'94-97	210
Raider	'91-93	225
Spectron Single	'84-90	235
Spectron Dual	'84-90	480
Taurus	'96-98	285
Telstar AR-AS	'83-87	225
Telstar AT-AX	'87-93	235
Telstar	'93-97	300
Transit	'96-98	Factory 270/Frozen Air 195
HOLDEN		
Apollo JK-JL	'89-93	200
Apollo JM-JP	'93-97	Factory 255/Cooltemp 300
Astra LB-LC	'84-87	270
Astra LD	'87-89	Factory R12 - 300 Cooltemp R134a -145
Astra TR	'96-98	270
Astra	'99-02	210
Barina MB-ML	'85-89	210
Barina MF-MH	'89-93	145
Barina SB	'93-98	Factory 210/Frozen Air 145
Calibra YE R12	'91-93	330
Calibra YE (early R134a)	'93-94	210
Calibra YE (late R134a - incl. V6)	'94-98	300
Camira JB-JE	'82-89	270
Commodore VB-VC (Harrison)	'79-81	375
Commodore VB-VH (Air International)	'79-84	285
Commodore VK	'84-86	315
Commodore VL	'86-88	290
Commodore VN-VP	'88-93	330
Commodore VR-VS	'93-97	235

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
Commodore VT-VX	'97-02	240
Commodore Utility VG-VP	'90-93	330
Commodore Utility VR-VS	'93-98	235
Frontera	'96-98	180
Gemini TX-TG	'75-85	255
Gemini RB	'85-87	235
Jackaroo UBS 12-17	'82-92	280
Jackaroo UBS 25	'92-98	Factory 255/Cooltemp 160
Kingswood HQ-HZ	'71-80	440
Monaro HQ-HZ	'71-79	440
Nova LE-LF	'89-93	200
Nova	'93-96	205
Piazza YB	'86-87	300
Premier HQ-HZ	'71-79	440
Rodeo KB	'82-88	255
Rodeo TF	'88-93	280
Rodeo TF	'93-98	180
Shuttle WF Single	'83-90	235
Shuttle WF Dual	'83-90	415
Statesman HQ-WB	'71-85	415
Statesman VQ	'90-93	330
Statesman VR-VS	'93-98	235
Statesman VT-VX	'98-02	240
Torana LH-UC	'74-79	340
Vectra	'97-98	270
HONDA		
Accord	'78-89	210
Accord	'90-93	275
Accord	'93	245
Accord	'94-97	185
Accord 2.2 4cyl & V6	'98	190
City	'84-86	210
Civic	'78-83	210
Civic	'84-87	235
Civic	'88-91	270
Civic	'92-93	185
Civic	'94-95	165
Civic	'96-98	185

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
HONDA (Continued)		
Concerto	'89-91	270
CR-V	'97-98	190
CRX	'87-92	270
CRX	'92-93	185
CRX	'94-98	165
Integra	'86-90	270
Integra	'91-93	275
Integra	'94-98	190
Legend	'86-89	270
Legend	'90-93	255
Legend	'94-95	225
Legend	'96-98	225
NSX	'91-92	275
NSX	'93-98	255
NSX-T	'95-98	255
Odyssey	'95	255
Odyssey	'96-98	235
Prelude	'79-83	190
Prelude	'84-87	235
Prelude	'88-89	255
Prelude	'90-91	245
Prelude	'92-93	230
Prelude	'94-96	210
Prelude	'97-98	210
HYUNDAI		
Excel	'86-89	275
Excel	'90-93	260
Excel	'93-98	210
Lantra	'91-93	270
Lantra	'93-98	Factory 210/Frozen Air 190
S Coupe	'89-93	260
S Coupe	'94-95	Factory 210/Frozen Air 165
Coupe	'96-98	210
Sonata	'89-93	260
Sonata	'93-98	210
INFINITI		
Q45	'93-97	235
JAGUAR		
E Type 5.3 Series III	'72-73	375
Daimler Double Six	'86-87	470

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
Daimler Double Six	'96-97	345
Daimler 3.6	'87-89	345
Daimler 4.0	'89-4/91	405
Daimler 4.0	'4/91-92	345
Daimler Six	'96-97	345
Daimler V8	'97-98	200
Sovereign 4.2	'83-87	470
Sovereign 3.6	'87-89	345
Sovereign 5.3	'86-91	345
Sovereign 4.0	'89-4/91	405
Sovereign 4.0	4/91-92	345
Sovereign	'96-98	345
XJ6 4.2 Series I (York)	'69-72	420
XJ6 4.2 Series I	'72-74	470
XJ6L 4.2 Series II	'74-76	470
XJ 4.2 Series II	'77-79	470
XJ6 4.2 Series III	'79-87	335
XJ 3.6	'87-89	345
XJ 4.0	'89-4/91	405
XJ 4.0	4/91-92	345
XJ6 Sport 4.0	91-93	345
XJ6	'96-97	345
XJ8	'98	200
XJR	'96-98	345
XK8	'96-98	345
XJ 4.2C	'77-78	335
XJ 5.3C	'77-78	335
XJ12 5.3 Series I	'73-74	335
XJ12L 5.3 Series II	'74-76	470
XJ 5.3	'76-79	335
XJS V12	'76-82	335
XJS HE V12	'83-86	335
XJS V12	'86-93	335
XJSC HE V12	'85-86	335
XJSC V12	'86-88	335
JEEP		
CJ7	'81-82	335
CJ8	'81-82	335
Cherokee	'79-85	305
Cherokee	'94-98	270
Grand Cherokee	'94-98	270
Hawk	'82-83	335
J10	'83-85	305

MAKE / MODEL

YEAR

HR12 CHARGE
WEIGHT IN GRAMS**JEEP (Continued)**

J20	'81-85	305
Laredo	'82-85	335
Overlander	'84-85	335
Renegade	'78-85	335
Wrangler	'97-98	180
Wrangler	'99-01	170

KIA

Carnival	'00-01	345
Mentor	'97-98	210
Rio	'00-01	195
Sportage	'97-98	210

LANDROVER

110/County	'84-91	330
Defender	'92-93	185
Defender 110	'93-98	270
Defender	'99-01	150
Discovery Single	'91-93	355
Discovery Dual	'93	475
Discovery Single	'93-98	270
Discovery Dual	'93-98	345
Discovery Single	'99-01	210
Discovery Dual	'99-01	270
Freelander	'99-01	215
Range Rover Single	'80-85	270
Range Rover Single	'86-93	355
Range Rover Dual	'93	475
Range Rover Single	'96-98	375

LADA

Cevaro	'90-93	170
Niva/Bushman	'83-98	185
Samara	'88-91	170

LEYLAND

P76	'73-74	235
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MAKE / MODEL

YEAR

HR12 CHARGE
WEIGHT IN GRAMS**LEXUS**

ES300	'92-93	280
ES300	'93-98	235
GS300	'97-98	190
LS400	'90-92	315
LS400	'93-98	235

MAZDA

121	'87-93	215
121	'93-97	190
121 Metro	'96-98	190
323	'80-85	210
323	'85-87	225
323	'89-93	230
323/Astina	'93-94	Factory 225/Frozen Air 180
323/Astina/ Hardtop	'94-98	Factory 225/Frozen Air 190
323 Protogé	'94-98	Factory 225/Frozen Air 235
626	'83-87	245
626	'87-93	225
626	'93-97	235
626 Wagon	'93-97	180
626 - 26 line condenser	'97-98	185
626 - 32 line condenser	'97-98	210
929	'76-93	280
929	'93-97	225
B Series Utility	'83-93	225
B Series Utility	'93-96	Factory 165/Frozen Air 225
B Series Utility	'96-98	Factory 165/Frozen Air 180
E Series Van Single	'84-93	235
E Series Van Dual	'84-93	480
E Series Van Single	'93-98	Factory 145/Frozen Air 190
E Series Van Dual	'93-98	Frozen Air 400
MPV Dual	'93-98	315
MX5	'89-98	225
MX6	'87-93	235
MX6	'93-97	235
RX4	'76-79	235
RX5	'76-79	235
RX7	'79-85	225
RX7	'85-92	210
RX7	'92-98	165

MAKE / MODEL		YEAR	HR12 CHARGE WEIGHT IN GRAMS
MERCEDES BENZ			
180E	(201)	'91-93	330
180E	(201)	'93-96	300
190D 2.5	(201)	'86-88	330
190E	(201)	'85-92	330
220	(115)	'68-73	360
220D	(115)	'68-73	360
230	(114)	'68-73	360
230	(123)	'76-81	360
230.4	(114)	'73-75	360
230.6	(114)	'73-76	360
230E	(123)	'81-85	360
230E	(124)	'86-93	330
230GE	(463)	'86-89	300
230TE	(123)	'84-86	360
230TE	(124)	'86-89	330
240D	(115)	'74-76	360
240D	(123)	'76-82	360
250	(114)	'68-76	360
250	(123)	'76-78	360
250C	(114)	'69-76	360
250CE	(114)	'69-72	360
260E	(124)	'88-91	330
280	(114)	'72-76	360
280C	(114)	'72-73	360
280CE	(114)	'72-76	360
280CE	(123)	'77-86	360
280E	(114)	'72-76	360
280E	(123)	'76-86	360
280S	(108)	'68-73	300
280SE	(116)	'73-80	300
280SE	(111)	'68-69	235
280SE	(126)	'81-85	450
280SE	(126)	'85-86	390
280SE 3.5	(111)	'69-71	235
280SE 3.5	(108)	'71-73	300
280SE 3.5	(111)	'69-72	235
280SEL	(108)	'68-73	300
280SEL	(116)	'75-81	300
280SL	(113)	'68-71	235
280SL	(107)	'75-76	300
280SLC	(107)	'75-76	300
280TE	(123)	'80-83	360
300CE	(124)	'88-89	330
300CE	(124)	'90-93	330
300D	(123)	'76-85	360

MAKE / MODEL		YEAR	HR12 CHARGE WEIGHT IN GRAMS
300D	(124)	'86-93	330
300E	(124)	'86-93	330
300GD	(463)	'82-89	300
300SE	(126)	'86-92	390
300SEL	(109)	'68-69	300
300SEL	(126)	'83-85	450
300SEL	(126)	'85-86	390
300SEL 3.5	(109)	'70-73	300
300SEL 6.3	(109)	'69-73	300
300TD	(123)	'79-82	360
300TD	(123)	'83-84	360
300TE	(124)	'89-93	330
350SE	(116)	'73-76	300
350SEL	(116)	'75-76	300
350SL	(107)	'71-76	300
350SLC	(107)	'71-76	300
380SE	(126)	'83-85	450
380SE	(126)	'85-86	390
380SEC	(126)	'82-85	450
380SEC	(126)	'85-86	390
380SEL	(126)	'81-85	450
380SEL	(126)	'85-86	390
380SL	(107)	'80-86	300
420SE	(126)	'90-92	390
420SEL	(126)	'86-92	390
450SE	(116)	'73-80	300
450SEL	(116)	'73-80	300
450SEL 6.9	(116)	'78-80	360
450SL	(107)	'73-80	300
450SLC	(107)	'73-80	300
500SL	(129)	'90-93	300
560SEL	(126)	'86-92	390
560SL	(107)	'86-89	300
A140		'99-01	180
C180	(202)	'94-98	255
C200	(202)	'94-98	255
C220	(202)	'94-97	255
C240		'97-98	255
C250		'97-98	255
C280	(202)	'94-98	255
C36 AMG		'97-98	255
CL500		'97-98	345
CLK200		'97-98	255
CLK230		'97-98	255
CLK320		'97-98	255
E220	(124)	'94-97	300

MAKE / MODEL		YEAR	HR12 CHARGE WEIGHT IN GRAMS
MERCEDES BENZ (Continued)			
E230	(210)	'94-98	300
E240		'97-98	300
E280	(124)	'94-97	300
E300D		'97-98	300
E320	(124)	'94-98	300
E320	(210)	'94-98	300
E430		'97-98	300
E36 AMG		'97-98	300
SL280	(129)	'94-98	280
SL500	(129)	'94-98	280
SL600	(129)	'94-98	280
SLK200 / SLK230		'97-98	255
S280	(140)	'94-97	345
S320		'97-98	345
S400	(140)	'94-97	345
S420		'97-98	345
S500	(140)	'94-98	345
S600	(140)	'94-98	345
MG			
MGF 1.8		'97-98	185
mitsubishi			
3000GT		'92-97	245
Colt RA-RE		'80-90	220
Cordia AA-AC		'83-89	270
Express SF-SH Single		'86-93	Factory R12 - 225 Cooltemp R134a -145
Express SF-SH Dual		'86-93	380
Express SJ&WA		'93-98	210
Galant HG-HH		'89-93	300
Galant		'93-97	200
L200 MA-MD		'82-86	255
L300 SC-SE Single		'83-86	225
L300 SC-SE Dual		'83-86	380
Lancer CA-CB		'88-92	Factory R12 - 305 Cooltemp R134a -165
Lancer CC		'92-93	Factory R12 - 220 Cooltemp R134a -190
Lancer CC Hatch		'92-93	305
Lancer CC Hatch		'93-97	190
Lancer CE		'96-98	190

MAKE / MODEL		YEAR	HR12 CHARGE WEIGHT IN GRAMS
Magna TM-TP		'85-91	210
Magna TR		'91-93	225
Magna TS		'94-96	225
Mirage CE		'95-98	190
Nimbus UA-UF		'84-93	255
Nimbus UF		'93-98	210
Pajero NA-NH Single		'83-93	270
Pajero NA-NH Dual		'83-93	415
Pajero NK		'93-97	Factory 225/Cooltemp 190
Pajero NL		'97-98	190
Scorpion GJ-GL		'81-85	255
Sigma GE-GN		'77-87	255
Starion JA-JD		'82-87	195
Starwagon SF-SH Single		'86-93	225
Starwagon SF-SH Dual		'86-93	380
Starwagon SJ&WA		'93-98	210
Triton ME-MJ		'86-93	255
Triton MK		'93-97	225
Triton ML		'97-98	240
Verada KR		'91-93	225
Verada KS		'94-96	225
NISSAN			
120Y B210		'77-78	225
180B 610		'74-77	225
200B 810		'78-81	300
240K C110		'74-78	225
260C 330		'74-78	300
260Z S30		'74-78	225
280C 430		'78-84	255
280ZX S130		'80-84	300
300C Y30		'80-86	300
300ZX Z31		'84-89	300
300ZX Z32		'90-93	270
300ZX		'92-96	180
200SX		'94-97	190
200SX		'97-98	180
Bluebird 910		'81-86	270
Bluebird		'93-97	225
Gazelle S12		'84-89	300
GTR R32		'91-93	210

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
NISSAN (Continued)		
Maxima J30	'90-95	235
Maxima A32	'95-98	190
Maxima	'98-01	195
Micra	'95-97	135
Navara D21	'86-93	255
Navara D21	'93-98	190
Nomad C22 Single	'86-92	375
Nomad C22 Dual	'86-92	435
NX Coupe B13	'91-97	190
Pathfinder D21	'86-93	255
Pathfinder R50	'94-98	190
Pathfinder	'98-01	195
Patrol 160	'80-87	330
Patrol Y60 Single	'88-93	300
Patrol Y60 Dual	'88-93	415
Patrol Y60	'93-97	360
Patrol Y61 Single	'98	240
Patrol Y61 Dual	'98	300
Pick-up 720	'80-85	235
Pintara R31	'86-89	300
Pintara U12	'89-93	360
Prairie M10 Single	'82-85	300
Prairie M10 Dual	'82-85	415
Pulsar N10	'81-83	330
Pulsar N10 (E Engine)	'81-83	270
Pulsar N12	'83-87	270
Pulsar N13	'87-91	Factory R12 - 300 Cooltemp R134a -145
Pulsar N14	'91-93	190
Pulsar N15 1.6L	'93-98	190
Pulsar N15 2.0L	'93-98	165
Serena C23 Single	'92-95	165
Serena C23 Dual	'92-93	255
Skyline C210	'78-80	315
Skyline R30	'81-85	280
Skyline R31	'86-90	Factory R12 - 300 Cooltemp R134a -155
Stanza A10	'80-83	300
Sunny B310	'79-81	300
Terrano II R20	'97-98	225

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
Urvan E23 Single	'81-86	360
Urvan E23 Dual Floor	'81-86	480
Urvan E23 Dual Overhead	'81-86	540
Urvan E24 Single	'87-92	255
Urvan E24 Dual	'87-92	405
Utility XFN	'88-90	390
V30E Brougham Y30	'86-88	300
Vanette C120 Single	'81-86	300
Vanette C120 Dual	'81-86	415
Vanette C22 Single	'86-93	375
Vanette C22 Dual	'86-93	435
Vanette C22 Single	'93-97	165
PEUGEOT		
205	'87-93	270
306	'94-97	270
306	'97-98	255
405	'89-93	270
405	'94-97	200
406	'97-98	235
505	'80-93	300
604	'80-82	270
605	'94-97	265
PORSCHE		
911	'77-82	330
911	'82-92	405
911 Turbo (930)	'75-79	330
911 Turbo (930)	'80-83	390
911	'94-98	250
Boxster	'97-98	255
924	'79-82	255
930	'82-85	390
944	'82-91	280
928 Single	'78-88	315
928 Dual	'86-93	360
928 Single	'88-93	280

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
PROTON		
M21	'97-98	165
Persona	'97-98	135
Satria	'97-98	180
Wira	'96-97	180
RENAULT		
18	'80-83	255
19	'91-95	R12 System use 270 g of HR12
20	'80-83	255
21	'87-91	280
25	'85-91	235
Fuego	'82-87	280
Laguna	'95-96	235
ROLLS ROYCE		
Silver Shadow Single	'66-76	475
Silver Shadow Dual	'70-76	610
Corniche	'71-76	475
Silver Shadow II	'77-80	440
Silver Spirit - To Chassis No. 20000	'81-85	375
Silver Spirit - To Chassis No. 20001	'86-89	580
Silver Spirit II - From Chassis No. 30001	'89-92	580
Silver Dawn	'92-98	225
Silver Spur (Except touring limo)	'92-98	225
Silver Spirit	'92-97	225
ROVER		
3500	'72-79	270
416l	'86-90	270
825l	'87-88	305
827	'88-91	305
Quintet	'83-85	210
SD1	'79-87	405
SAAB		
900	'79-80	360
900 (With large condenser)	'81	345

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
900	'81-93	300
900	'93-98	235
9000	'86-92	330
9000	'93-98	280
95	'97-98	255
SEAT		
Ibiza	'94-97	255
Cordoba	'94-98	255
Toledo	'95-97	255
SSANGYONG		
Korando	'98	195
Musso	'97-98	210
SUBARU		
Brumby Ute	'81-93	225
Fiori	'89-92	180
Forester	'97-98	210
Forester	'98-01	135
Impreza/ Sportswagon	'93-98	210
Impreza	'98-00	180
L Series	'80-93	225
Leone	'81-90	225
Liberty	'89-93	235
Liberty/Outback	'93-98	190
Liberty/Outback	'98-01	195
SVX	'92-97	190
Vortex	'85-89	225
SUZUKI		
Alto 550cc	'85-88	145
Alto 800cc	'85-89	210
Alto	'93-98	165
Carry	'78-85	180
Hatch	'81-83	180
Hatch	'84-89	210
Mighty Boy	'85-89	210
Sierra	'81-98	190
Swift 1.0-1.3L	'84-89	210
Swift 1.0-1.3L	'89-98	Factory - 145 Frozen Air R134a - 145
Swift 1.6L EPI	'89-98	Factory - 145 Frozen Air R134a - 145
Baleno 1.6 & 1.8	'96-98	190

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
SUZUKI (Continued)		
Vitara 1.6 & 2.0V6	'88-98	Factory - 170 Frozen Air R134a - 165
Wagon R+	'97-98	165
X90	'96-98	170
TOYOTA		
Blizzard	'83	210
Camry SV11	'83-87	210
Camry - SV20, 21, 22	'87-93	Factory R12 - 200 Panasonic R134a - 190
Camry VZV21	'88-93	200
Camry/Vienta	'93-97	Factory 190/Cooltemp 300
Camry/Vienta	'97-98	240
Celica TA22	'74-76	235
Celica TA23	'76	210
Celica RA23	'76-77	210
Celica SA63	'83-84	210
Celica RA65	'84-85	210
Celica AT160, ST162	'86-89	235
Celica Supra MA61	'83-85	210
Celica ST184, 185	'89-93	225
Celica	'94-98	190
Corolla KE30, 36	'74-78	210
Corolla KE55, 38	'78-81	210
Corolla KE70	'82-83	210
Corolla AE71	'83-85	210
Corolla AE80, 82	'85-89	Factory R12 - 210 Cooltemp R134a - 180
Corolla AE86	'83-85	Factory R12 - 210 Cooltemp R134a - 180
Corolla AE90, 92, 93	'89-93	Factory R12 - 200 Frozen Air R134a - 180
Corolla 4WD AE95	'88-93	190
Corolla 100 Series	'94-98	Factory - 190 Frozen Air - 210
Corona RT104	'74-79	210
Corona RT118	'74-79	210
Corona MkII MX13, 23	'74-77	210
Corona XT130	'79-82	210
Corona RT132	'79-82	210

MAKE / MODEL	YEAR	HR12 CHARGE WEIGHT IN GRAMS
Corona RT133	'82-83	210
Corona RT133	'82	210
Corona ST141	'83-87	210
Corona RT142	'84-87	210
Cressida MX32, 36	'77-80	210
Cressida MX62	'81-84	210
Cressida MX73	'84-88	210
Cressida MX83	'88-93	235
Crown MS 85	'74-75	210
Crown MS 83, 85 Single	'76-80	210
Crown MS 83, 85 Dual	'76-80	360
Crown MS 112 Single	'82-83	235
Crown MS 123 Single	'83-88	235
Crown MS 123 Dual	'83-88	360
Hiace Single	'82-88	210
Hiace Dual	'82-88	415
Hiace Single	'89-93	255
Hiace Dual	'89-93	415
Hiace Single	'94-98	Factory - 190 Frozen Air - 190
Hilux	'83-87	210
Hilux	'88-93	225
Hilux	'93-97	Factory - 190 Frozen Air - 180
Hilux	'97-98	165
4 Runner	'89-93	235
4 Runner	'93-97	Factory - 190 Frozen Air - 210
Landcruiser Single	'81-89	210
Landcruiser Dual	'84-89	415
Landcruiser Single	'90-93	270
Landcruiser Dual	'90-93	405
Landcruiser Single	'93-98	190
Lexcen	'89-93	330
Lexcen	'93-97	235
Liteace Single	'85-91	210
Liteace Dual	'85-91	415
Liteace & Townace Single	'92-93	200
Liteace & Townace Dual	'92-93	390

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WEIGHT CHART

MAKE / MODEL

YEAR

HR12 CHARGE
WEIGHT IN GRAMS**TOYOTA (Continued)**

Liteace & Townace Single	'93-98	Factory - 190 A.M.C. - 180
MR2 AW11	'87-89	235
MR2 SW20	'90-93	255
MR2 SW20	'93-98	190
Paseo EL44	'91-93	225
Paseo EL44	'93-98	190
Prado	'97-98	190
RAV4	'94-98	190
Spacia	'93-98	Factory - 190 A.M.C. - 180
Sprinter AE86	'83-85	210
Starlet	'96-98	180
Supra MA70	'86-88	235
Supra MA71	'88-93	235
T18 TE72	'83	210
Tarago Single	'82-89	210
Tarago Dual	'82-89	415
Tarago Single	'90-93	280
Tarago Dual	'90-93	360
Tarago Single	'93-98	190
Tercel AL25	'83-88	210

TRIUMPH

Stag	'72-75	335
TR7	'79-82	335

VOLKSWAGEN

Bora	'00-01	225
Caravelle Single	'90-93	210
Caravelle Dual (Single Condenser)	'90-93	285
Caravelle	'97-98	235
Golf	'80-82	280
Golf Cabriolet	'90-93	170
Golf GTi	'90-93	330
Golf	'94-98	255
Golf	'99-01	240
New Beetle	'99-01	240
Passat	'80-82	280
Passat	'90-91	360
Passat	'95-97	345
Passat	'00-01	210
Polo	'96-98	255
Polo	'98-00	240

MAKE / MODEL

YEAR

HR12 CHARGE
WEIGHT IN GRAMS

Transporter	'95-98	235
Vento	'96-97	345

VOLVO		
360	'84-87	270
240	'75-78	330
240	'79-90	390
240	'91-92	330
260	'75-78	330
260	'79-86	450
440	'94-97	185
740	'82-91	360
760	'89-90	360
850	'95-97	225
940	'91-92	360
940	'93-97	225
960	'91-92	360
960	'93-97	225
C70	'97-98	225
S40	'97-98	235
S70	'97-98	235
S90	'97-98	255
V40	'97-98	235
V70	'97-98	235
V90	'97-98	255
70 series	'99-01	300
80 series	'99-01	300