

Mobile Air Conditioner Leakage Rates

Model Year 2014 (Alphabetical List)

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Ford	Mustang 3.7L	Passenger Car	9.9	600	1.7
Ford	Mustang 5.0L	Passenger Car	9.9	600	1.7
Ford	Mustang 5.8L	Passenger Car	9.9	600	1.7
Ford	Fiesta 1.6L TiVCT	Passenger Car	7.4	600	1.2
Ford	Fiesta 1.6L TiVCT GDTI	Passenger Car	7.4	680	1.1
Ford	Fiesta 1.0L TiVCT GDTI	Passenger Car	7.4	680	1.1
Ford	Escape 1.6L GTDI	SUV	9.1	680	1.3
Ford	Escape 2.0L GTDI	SUV	8.7	770	1.1
Ford	Escape 2.5L	SUV	8.7	680	1.3
Ford	Police Interceptor Sedan 3.5L GTDI	Passenger Car	10.8	740	1.5
Ford	Police Interceptor Sedan 3.5L/3.7L TiVCT	Passenger Car	11.0	650	1.7
Ford	Explorer 2.0L GTDI (Dual Evaporator)	SUV	13.4	1330	1.0
Ford	Explorer 3.5L GTDI (Dual Evaporator)	SUV	13.3	1330	1.0
Ford	Explorer 3.5L TiVCT (Dual Evaporator)	SUV	13.3	1160	1.1
Ford	Police Interceptor Utility 3.7L TiVCT	SUV	9.0	740	1.2
Ford	Fusion 1.6L GDTI	Passenger Car	7.8	570	1.4
Ford	Fusion 2.5L iVCT	Passenger Car	8.7	680	1.3
Ford	Fusion 3.7L TiVCT	Passenger Car	8.3	680	1.2
Ford	Focus 2.0L TiVCT GDI	Passenger Car	10.2	600	1.7
Ford	Focus BEV	Passenger Car	8.4	600	1.4
Ford	Econoline w auxiliary AC (Dual Evaporator)	MDPV	12.0	1530	0.8
Ford	Econoline w/o auxiliary AC	MDPV	8.4	850	1.0
Ford	Police Interceptor Utility 3.7L TiVCT (Dual Evaporator)	SUV	13.3	1050	1.3
Ford	Fusion 1.5L GDTI	Passenger Car	7.8	570	1.4
Ford	Focus 2.0L TiVCT GTDI	Passenger Car	10.5	600	1.8
Ford/Lincoln	Taurus, MKS 2.0L GTDI	Passenger Car	11.0	740	1.5
Ford/Lincoln	Taurus, MKS 3.5L GTDI	Passenger Car	10.8	740	1.5
Ford/Lincoln	Taurus, MKS 3.5L/3.7L TiVCT	Passenger Car	11.0	650	1.7

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Ford/Lincoln	Flex, MKT 3.5L GTDI (Dual Evaporator)	Crossover	12.6	1020	1.2
Ford/Lincoln	Flex, MKT 3.5L /3.7L TiVCT (Dual Evaporator)	Crossover	12.9	1020	1.3
Ford/Lincoln	Fusion/MKZ 2.0L GTDI	Passenger Car	8.8	570	1.5
Ford/Lincoln	Fusion/MKZ HEV/PHEV	Passenger Car	3.2	570	0.6
Ford/Lincoln	Expedition/Navigator 5.4L Short wheel (Dual Evaporator)	SUV	13.0	1020	1.3
Ford/Lincoln	Expedition/Navigator 5.4L Long wheel (Dual Evaporator)	SUV	10.1	1020	1.0
General Motors	Cadillac ATS	Passenger Car	7.2	550	1.3
General Motors	Chevrolet Cruze	Passenger Car	7.2	625	1.2
General Motors	Chevrolet Express	Van	8.7	810	1.1
General Motors	Chevrolet Camaro	Passenger Car	7.3	540	1.4
General Motors	GMC Acadia (Dual Evaporator)	SUV	8.0	1050	0.8
General Motors	Chevrolet Traverse (Dual Evaporator)	SUV	8.0	1050	0.8
General Motors	Chevrolet Impala	Passenger Car	7.7	680	1.1
General Motors	Chevrolet Caprice	Passenger Car	9.5	540	1.8
General Motors	Buick Encore	Passenger Car	9.3	570	1.6
General Motors	Buick Lacrosse	Passenger Car	7.4	625	1.2
General Motors	Chevrolet Captiva	SUV	10.0	575	1.7
General Motors	Chevrolet Equinox	SUV	7.5	650	1.2
General Motors	Chevrolet Malibu	Passenger Car	7.3	625	1.2
General Motors	Chevrolet Corvette	Passenger Car	7.8	600	1.3
General Motors	Chevrolet Express (Dual Evaporator)	Van	11.5	1410	0.8
General Motors	Chevrolet Silverado	Pickup	7.8	600	1.3
General Motors	Chevrolet Sonic	Passenger Car	9.8	540	1.8
General Motors	Chevrolet Volt	Passenger Car	5.9	1100	0.5
General Motors	Chevrolet Spark	Passenger Car	8.3	430	1.9
General Motors	Cadillac XTS	Passenger Car	8.0	620	1.3
General Motors	Cadillac SRX (Dual Evaporator)	SUV	9.1	730	1.2

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
General Motors	Cadillac CTS Sedan, Coupe, Wagon	Passenger Car	8.0	550	1.4
General Motors	Chevrolet Suburban	SUV	9.0	1020	0.9
General Motors	Chevrolet Tahoe	SUV	9.0	1020	0.9
Honda	RLX Hybrid	Passenger Car	12.6	485	2.6
Honda	Accord Hybrid	Passenger Car	8.3	435	1.9
Honda	Honda Insight	Passenger Car	14.2	500	2.8
Honda	CR-Z	Passenger Car	12.2	500	2.4
Honda	Accord L4 Sedan/Coupe	Passenger Car	15.6	475	3.3
Honda	Accord V6 Sedan/Coupe	Passenger Car	15.6	475	3.3
Honda	CR-V	SUV	14.3	435	3.3
Honda	Crosstour L4	Crossover	15.2	450	3.4
Honda	Crosstour V6	Crossover	15.2	450	3.4
Honda	Pilot (Dual Evaporator)	SUV	19.1	650	2.9
Honda	Odyssey (Dual Evaporator)	Minivan	18.8	750	2.5
Honda	Ridgeline	Pickup	15.3	600	2.6
Honda	Accord Plug-in Hybrid	Passenger Car	8.3	435	1.9
Honda	Acura TSX L4	Passenger Car	14.8	500	3.0
Honda	Acura TSX V6	Passenger Car	15.8	500	3.2
Honda	Acura TL	Passenger Car	15.4	550	2.8
Honda	Acura RLX	Passenger Car	15.2	500	3.0
Honda	Acura RDX	SUV	16.3	455	3.6
Honda	Acura MDX (Dual Evaporator)	SUV	17.8	700	2.5
Honda	Acura ILX Hybrid	Passenger Car	17.8	425	4.2
Honda	Acura ILX 2.0L	Passenger Car	14.7	425	3.5
Honda	Acura ILX 2.4L	Passenger Car	15.0	425	3.5
Jaguar Land Rover	Evaporator)	SUV	14.6	1150	1.3
Jaguar Land Rover	Evaporator)	SUV	14.6	1150	1.3
Jaguar Land Rover	Land Rover Range Rover (V6 and V8)	SUV	12.4	800	1.6

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Jaguar Land Rover	Land Rover Range Rover Sport (V6 and V8) (Dual Evaporator)	SUV	12.4	800	1.6
Jaguar Land Rover	Jaguar F-Type (V6 and V8)	Passenger Car	13.9	700	2.0
Jaguar Land Rover	Jaguar XK	Passenger Car	13.9	700	2.0
Lincoln	MKT Livery (Dual Evaporator)	Crossover	12.7	1020	1.2
Mazda	Mazda 5 2.5L	Minivan	18.1	480	3.8
Mazda	Mazda CX-9 3.7 L (Dual Evaporator)	SUV	21.9	685	3.2
Mazda	Mazda 2 1.5 L	Passenger Car	14.2	470	3.0
Mazda	Mazda MX-5 2.0 L	Passenger Car	13.5	450	3.0
Mazda	Mazda 3 2.0L	Passenger Car	15.7	490	3.2
Mazda	Mazda 3 2.5L	Passenger Car	15.7	490	3.2
Mazda	Mazda CX-5 2.5L	SUV	15.7	490	3.2
Mazda	Mazda CX-5 2.0L	SUV	15.7	490	3.2
Mazda	Mazda 6 2.5L	Passenger Car	15.7	490	3.2
Mitsubishi	Mirage	Passenger Car	11.2	270	4.2
Mitsubishi	Lancer 2.0L and 2.4L	Passenger Car	12.9	500	2.6
Mitsubishi	Lancer Sportsback 2.0L and 2.4L	Passenger Car	12.9	500	2.6
Mitsubishi	Lancer Evolution 2.0L Turbo Charged Engine	Passenger Car	12.9	500	2.6
Mitsubishi	Lancer 2.0L Turbo Charged Engine	Passenger Car	12.9	500	2.6
Mitsubishi	Outlander Sport 2.0L	SUV	11.4	500	2.3
Mitsubishi	Outlander 2.4L	SUV	11.2	450	2.5
Mitsubishi	Outlander 3.0L	SUV	11.3	450	2.5
Mitsubishi	i-MiEV	Passenger Car	7.5	325	2.3
Mitsubishi	Outlander (PHEV) 2.0L	SUV	8.7	590	1.5
Nissan	GTR	Passenger Car	15.3	500	3.1
Nissan	Murano CrossCabriolet	SUV	18.7	600	3.1
Nissan	Versa Hatchback	Passenger Car	16.8	450	3.7
Nissan	Versa Sedan	Passenger Car	16.8	450	3.7
Nissan	Infiniti QX70 (3.7L)	SUV	15.1	550	2.7

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Nissan	Infiniti QX70 (5.0L)	SUV	15.5	550	2.8
Nissan	Infiniti QX80 (Dual Evaporator)	SUV	22.8	1050	2.2
Nissan	Infiniti Q50	Passenger Car	15.3	500	3.1
Nissan	Infiniti Q60 Coupe	Passenger Car	15.1	550	2.7
Nissan	370Z Coupe/Roadster	Passenger Car	15.1	500	3.0
Nissan	Infiniti Q50 HEV	Passenger Car	12.4	500	2.5
Nissan	Infiniti QX50	Crossover	15.1	550	2.7
Nissan	Infiniti Q60 Convertible	Passenger Car	15.1	550	2.7
Nissan	Infiniti QX60 (Dual Evaporator)	SUV	21.0	830	2.5
Nissan	Infiniti QX60 Hybrid (Dual Evaporator)	SUV	18.8	800	2.4
Nissan	Pathfinder (Dual Evaporator)	SUV	21.0	830	2.5
Nissan	Altima (QR25DE)	Passenger Car	16.9	525	3.2
Nissan	Altima (VQ35DE)	Passenger Car	16.8	525	3.2
Nissan	NV200 NYC Taxi	Other (Passenger ')	20.8	650	3.2
Nissan	Pathfinder HEV (Dual Evaporator)	SUV	18.8	800	2.4
Nissan	Sentra	Passenger Car	16.3	450	3.6
Nissan	Armada	SUV	18.6	1080	1.7
Nissan	Maxima	Passenger Car	18.8	550	3.4
Nissan	Juke	Crossover	15.1	400	3.8
Nissan	Murano	Crossover	18.7	600	3.1
Nissan	Quest	Minivan	23.7	900	2.6
Nissan	Titan	Pickup	15.6	700	2.2
Nissan	Xterra	SUV	13.8	700	2.0
Nissan	Leaf (EV) S Grade	Passenger Car	12.3	450	2.7
Nissan	Cube	Passenger Car	15.5	450	3.4
Nissan	Leaf (EV) SV/SL Grade	Passenger Car	16.7	850	2.0
Nissan	Frontier (QR25DE)	Pickup	13.8	700	2.0
Nissan	Infiniti Q70 (3.7L)	Passenger Car	15.6	550	2.8

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Nissan	Frontier (VQ40DE)	Pickup	13.8	700	2.0
Nissan	Infiniti Q70 (5.6L)	Passenger Car	16.0	550	2.9
Nissan	Rogue	SUV	14.0	500	2.8
Subaru	BRZ	Passenger Car	15.7	390	4.0
Subaru	Impreza WRX	Passenger Car	18.6	500	3.7
Subaru	Outback 2.5i	SUV	15.0	425	3.5
Subaru	Forester	SUV	16.8	450	3.7
Subaru	Legacy 2.5i	Passenger Car	15.0	425	3.5
Subaru	Outback 3.6R	SUV	15.1	425	3.6
Subaru	Impreza 2.0i	Passenger Car	16.9	450	3.8
Subaru	Legacy 3.6R	Passenger Car	15.1	425	3.6
Subaru	Tribeca (Dual Evaporator)	SUV	17.6	840	2.1
Subaru	Tribeca	SUV	13.6	570	2.4
Subaru	XV Crosstrek	Crossover	16.9	450	3.8
Toyota	Lexus GS 350 AWD	Passenger Car	15.0	500	3.0
Toyota	Scion iQ	Passenger Car	15.3	360	4.3
Toyota	Lexus IS 250/350	Passenger Car	15.0	570	2.6
Toyota	Lexus IS 250/350 AWD	Passenger Car	15.0	570	2.6
Toyota	Scion tC	Passenger Car	14.3	440	3.3
Toyota	Yaris	Passenger Car	14.1	360	3.9
Toyota	Scion FR-S	Passenger Car	15.7	390	4.0
Volvo	S60 (T5 and T6)	Passenger Car	16.3	800	2.0
Volvo	S80 (3.2 and T6)	Passenger Car	16.3	800	2.0
Volvo	XC70 (3.2 and T6)	SUV	16.3	800	2.0
Volvo	XC60 (3.2 and T6)	SUV	16.3	800	2.0
Volvo	XC 90 3.2 (FWD/AWD)	SUV	22.8	1050	2.2
Mazda	Mazda 6 2.2L	Passenger Car	15.0	490	3.1
Mazda	Mazda 3 2.0L (Mexico Plant)	Passenger Car	12.1	450	2.7

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Toyota	Highlander (2.7 L) (Dual Evaporator)	SUV	15.4	820	1.9
Toyota	Highlander (3.5 L) (Dual Evaporator)	SUV	15.3	820	1.9
Toyota	Lexus CT 200h	Passenger Car	8.0	470	1.7
Toyota	Highlander Hybrid (Dual Evaporator)	SUV	9.2	870	1.1
Toyota	Prius c	Passenger Car	8.4	420	2.0
Toyota	RAV4 EV (Dual Evaporator)	SUV	11.7	620	1.9
Toyota	RAV4	SUV	14.2	500	2.8
Toyota	Scion xB	Passenger Car	14.7	440	3.3
Ford	F150 3.5L and 3.7L	Pickup	7.2	680	1.1
Ford	F150 5.0L	Pickup	7.2	680	1.1
Ford	F150 6.2L	Pickup	9.6	680	1.4
Honda	Civic Hybrid	Passenger Car	14.4	425	3.4
Honda	Civic CNG	Passenger Car	14.2	425	3.3
Honda	Civic Si Sedan	Passenger Car	13.9	425	3.3
Honda	Civic Si Coupe	Passenger Car	14.3	425	3.4
Honda	Civic Sedan	Passenger Car	14.2	425	3.3
Honda	Civic Coupe	Passenger Car	14.6	425	3.4
Subaru	XV Crosstrek Hybrid	Crossover	16.7	450	3.7
Mercedes	C-Class; E-Class; GLK-Class; CLS-Class	Passenger Car	10.7	590	1.8
Mercedes	CL-Class	Passenger Car	10.9	1070	1.0
Mercedes	S-Class	Passenger Car	8.9	660	1.3
Mercedes	S-Class (Dual Evaporator)	Passenger Car	9.5	770	1.2
Mercedes	ML-Class; GL-Class	SUV	10.6	1050	1.0
Mercedes	GL-Class (Dual Evaporator)	SUV	14.6	1300	1.1
Mercedes	G-Class	SUV	12.7	1000	1.3
Mercedes	SLK-Class	Passenger Car	10.7	550	1.9
Mercedes	SL-Class	Passenger Car	10.5	550	1.9
Mercedes	CLA-class	Passenger Car	9.9	650	1.5

Make	Model (MY 2014)	Type of Vehicle	Leakage Rate (grams/year)	AC Charge Size (grams)	Percentage loss per year
Mercedes	Smart	Passenger Car	11.3	430	2.6
Mercedes	E-Class Hybrid (Dual Evaporator)	Passenger Car	11.5	690	1.7
Mercedes	SLS-Class	Passenger Car	11.5	780	1.5
Mercedes	B-Class; E-CELL	Passenger Car	9.8	750	1.3
Jaguar Land Rover	Jaguar XJ V6 and V8	Passenger Car	12.9	700	1.8
Jaguar Land Rover	Jaguar XJ V6 All Wheel Drive	Passenger Car	13.2	700	1.9
Jaguar Land Rover	Jaguar XF V6 and V8	Passenger Car	12.8	750	1.7
Jaguar Land Rover	Jaguar XF V6 All Wheel Drive	Passenger Car	13.4	750	1.8
Jaguar Land Rover	Jaguar XF (I4)	Passenger Car	12.8	750	1.7
Jaguar Land Rover	Land Rover LR2	SUV	11.8	730	1.6
Porche	911 Carrera, 911 Carrera S, 911 Turbo, 911 GT3	Passenger Car	18.1	900	2.0
Porche	Boxster, Boster S, Cayman, Cayman S	Passenger Car	17.6	850	2.1
Porche	Cayenne S, GTS, Diesel, S Hybrid, Turbo, Turbo S	SUV	11.8	700	1.7
Porche	Cayenne S, GTS, Diesel, S Hybrid, Turbo, Turbo S	Passenger Car	11.8	700	1.7
Porche	Cayenne S, GTS, Diesel, S Hybrid, Turbo, Turbo S (Dual Evaporator)	Passenger Car	17.2	1100	1.6
Porche	Cayenne S, GTS, Diesel, S Hybrid, Turbo, Turbo S (Dual Evaporator)	SUV	17.2	1100	1.6
Porche	Executive, Turbo S, Turbo S Executive, S e-Hybrid	Passenger Car	12.8	580	2.2
Ford	Transit Connect 1.6L GTDI	Van/Wagon	8.1	680	1.2
Ford	Transit Connect 1.6L GTDI (Dual Evaporator)	Van/Wagon	8.6	880	1.0
Ford	Transit Connect 2.5L	Van/Wagon	8.0	680	1.2
Ford	Transit Connect 2.5L (Dual Evaporator)	Van/Wagon	8.5	880	1.0
Ford	C-MAX all	Passenger Car	5.7	740	0.8
Ford/Lincoln	Edge/MKX 3.5L/3.7L TiVCT	SUV	12.0	580	2.1
Ford/Lincoln	Edge/MKX 2.0L GTDI	SUV	11.7	480	2.4
Nissan	Infiniti Q70 Hybrid	Passenger Car	11.9	550	2.2
Nissan	NV200	Other	17.0	450	3.8

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Nissan	Rogue Select	SUV	17.1	500	3.4
Mazda	Mazda 2	Passenger Car	14.2	470	3.0
Kia	Kia Sorento 3.3L	SUV	14.2	600	2.4
Kia	Sedona	Minivan	19.8	900	2.2
Kia	Optima Hybrid	Passenger Car	14.0	550	2.5
Kia	Optima 2.0	Passenger Car	14.2	550	2.6
Kia	Sportage	SUV	14.0	550	2.5
Hyundai	Sonata Hybrid	Passenger Car	14.0	550	2.5
Hyundai	Equus	Passenger Car	15.3	700	2.2
Hyundai	Accent	Passenger Car	13.2	450	2.9
Hyundai	Tuscon	SUV	15.2	550	2.8
Hyundai	Veloster	Passenger Car	13.4	450	3.0
Hyundai	Veloster Turbo	Passenger Car	14.1	450	3.1
Hyundai	Genesis 5.0	Passenger Car	14.8	700	2.1
Hyundai	Genesis 3.8	Passenger Car	14.3	700	2.0
Hyundai	Santa Fe Sport	SUV	14.7	600	2.5
Audi	A4/S4	Passenger Car	11.2	550	2.0
Audi	A5/S5	Passenger Car	11.2	550	2.0
Audi	A5/S5 Cabriolet	Passenger Car	11.0	550	2.0
Audi	A6/A7	Passenger Car	11.3	570	2.0
Audi	S6/S7	Passenger Car	11.3	570	2.0
Audi	TTRS	Passenger Car	9.9	525	1.9
Audi	TT, TTS, Roadster	Passenger Car	9.9	525	1.9
Audi	Q5	Crossover	11.2	550	2.0
Audi	Q7	SUV	13.6	700	1.9
Audi	Q7 (dual)	SUV	20.5	1050	2.0
Audi	A8-A8L 1 Eva	Passenger Car	14.7	780	1.9
Audi	A8-A8L 2 Eva	Passenger Car	18.7	930	2.0

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Audi	R8	Passenger Car	16.0	650	2.5
Audi	RS5	Passenger Car	11.6	570	2.0
Bentley	Spur	Passenger Car	18.4	600	3.1
Bentley	Mulsanne	Passenger Car	20.8	920	2.3
Kia	1.8	Passenger Car	13.3	530	2.5
Kia	Forte Koup 1.6, Forte 5 1.6	Passenger Car	13.9	530	2.6
Kia	Sorento 3.3L (dual)	SUV	18.6	750	2.5
Kia	Sorento 2.4L	SUV	14.3	600	2.4
Kia	Sorento 2.4L (dual)	SUV	18.8	750	2.5
Kia	Cadenza	Passenger Car	13.3	650	2.0
Kia	Optima 2.4	Passenger Car	14.5	650	2.2
Kia	Soul, Soul Eco	Passenger Car	13.1	550	2.4
Kia	Soul 1.6	Passenger Car	12.9	550	2.3