

# Free pdf Automotive refrigerant capacity guide (2023)

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chillers and automotive air conditioning performance industry standard choice for automotive ac and small appliances this software tool offers a simple way to calculate refrigerant charge limits for refrigeration air conditioning or heat pump systems in relation to the applied location selected application and accessibility class according to safety standard en 378 1 annex c 72 refrigerant reference guide 7th edition 2020 national refrigerants inc product data summary and thermodynamic tables a refrigerant capacity chart is like a cheat sheet for your vehicle s ac system providing you with the correct refrigerant and oil capacities for optimal performance following these guidelines will keep your ac running efficiently and prevent costly repairs down the road designed and installed refrigerant piping system should provide adequate refrigerant flow to the evaporators using practical refrigerant line sizes that limit pressure drop avoid trapping excessive oil so that the compressor has enough oil to operate properly at all times avoid liquid refrigerant slugging be clean and dry by knowing the system s refrigerant capacity you can determine the correct amount of refrigerant to add and ensure optimal performance consult your hvac manufacturer s manual or contact a professional for guidance on determining your system s refrigerant capacity refrigerant piping design goals a common goal is to size the suction hot gas and liquid lines for about 1<sup>ft</sup> pressure drop at design capacity a suction line must return oil from the evaporator to the compressor at minimum system capacity prevent oil draining from an active to an inactive evaporator when more than one refrigerants temperature and pressure chart si units temperature and pressure chart for refrigerants r22 r410a r12 r134a r401a r409a r502 r404a r507a r408a and r402a here you will find useful information and handy tips relating to refrigerant and oil filling quantities for air conditioning systems in vehicles refrigerant and compressor oil are two essential substances for any air conditioning system it is also crucial to ensure the correct filling quantities properties of refrigerant r22 dichlorodifluoromethane saturated liquid and saturated vapor imperial and metric units refrigerant compressors evaporation temperature condensating temperature and capacity correct refrigerant charge is necessary to achieve optimum performance from an air conditioning system this is very important with the vehicle a c systems designed for r134a refrigerant a total a c system refrigerant charge has been determined for each chassis evans system combination shown refrigerant guide refrigerant oil retained in system components the amount of oil typically retained in system components is shown here the amount will vary with component size and design component typical amount of oil evaporator 2 0 fl oz 60 cc condenser 1 0 fl oz 30 cc receiver drier 0 5 fl oz 15 cc accumulator 2 0 fl oz 60 cc discover the ac 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refrigerant piping design goals a common goal is to size the suction hot gas and liquid lines for about 1<sup>ft</sup> pressure drop at design capacity a suction line must return oil from the evaporator to the compressor at minimum system capacity prevent oil draining from an active to an inactive evaporator when more than one

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