Refrigeration and Air Conditioning Technology (RAC) Tool List

The following tools are required to complete the four semesters of the RAC program. Most common hand tools can be found at Home Depot, Lowes and through online vendors. Specialized refrigeration tools can be found on island at AC Warehouse, Cosco Wholesale Refrigeration and Air Conditioning, Johnstone Supply, Ferguson and various online vendors. Student discounts may apply so inquire at time of purchase. Student ID and email may be required to receive student discount.

Students do not need to purchase the entire list of tools all at once. Lab assignments are scheduled so that students purchase tools as needed. Students will obtain the entire list of tools by the end of the fourth semester. Estimated cost for the bare minimum amount of tools is $500. It is not uncommon for students to purchase more than $2000 worth of tools by the end of the fourth semester. Instructors will provide students with detailed tool descriptions so students can purchase the best tools that fit their budget.

RAC 21 & 32 Students

- Tubing Cutter
- Reamer
- Flaring Tool Set
- Swagging Tool Set
- Harris 95/5 Lead Free Wire Solder 1/8” diameter 1 roll
- Harris Stay-Silv 15 Phos-copper silver brazing alloy 1 tube (28 sticks)
- Hammer
- Manifold & Gauge Set w/5 ft hoses and low loss fitting or ball valves for R-134a refrigerant
- Digital Multimeter that measures Volts, Ohms, Capacitance, Amps, Temperature (Fieldpiece, Klein or Fluke)
- Service Wrench
- Screwdrivers (Philip & Slotted)
- Tape Rule
- Nut Drivers (1/4” & 5/16”)
- Wire cutter/stripper/crimper (all in one or individual tools)
- Needle nose plier
- 10” adjustable wrench
- 12” adjustable wrench
- Safety glasses/goggles
- 10” Vise grip
- Thermocouple (optional)
- IR thermometer (optional)
- Leather gloves
- Sharpie Marker
- Inspection mirror
- Vacuum gauge (Micron gauge)
- Vacuum pump 3, 5 or 7 CFM
- Tool bag
- MAPP Torch head with or without auto ignition
- Strike/igniter for torch head without auto ignition

RAC 40 & 50 Students

- All tools listed above for RAC 21 & 32 students
- Socket Sets (SAE & Metric)
- Combination Wrench Sets
- Snap ring pliers with assorted tips
- Adjustable Joint Pliers
- Allen Wrench Set
- Flashlight with magnet or hook mount
- Pocket Knife or Box Cutter
- Screwdriver Set (Straight and Phillips)
- "Imp" Tubing Cutter
- Hose Gaskets (spares for manifold hoses)
- Pocket Thermometer
- Core Removal Tool
- Pocket Screwdrivers
- Nut Driver Sets (standard and metric)
- 12” Combination Square
- Recovery Machine
- Refrigerant scale
- Recovery cylinder
- Electronic leak detector
- Digital Camera
- Speed Clean CoilJet CJ-125 HVAC Coil Cleaner

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