

Tool List

HVACR Associate Degree

REQUIRED TOOL LIST (Approximate cost \$600 to \$800)

HVACR Programs required tools list are listed below. These tools are necessary for the required classes in the program and will meet many basic needs of employment in the HVACR Industry. These items may be purchased on campus during the first days of class or from a HVACR supply house before arriving at the university.

Tools Required For Semesters One and Two

- 4-hose-gauge set with 48" hoses
- 8" adjustable wrench
- Refrigeration valve wrench
- Screw starter
- Dial or digital thermometer – 40 to 160°
- Quick connect discharge hose connectors
2 each (one straight and one 90°) not needed if purchased with 4 hose gauge set
- Toolbox (plastic 20x11x9) or canvas
- Tape measures; 1/4"x 12' or 1/2"x 10' or 1"x 30'
- "IMP" tube cutter
- Regular tube cutter
- Flaring and swaging set
- Paste solder flux
- 1/8" solder 1# 95-5
- Roll of flint paper
- Combination nut driver
- Volt-amp-ohmmeter with digital readout
- 6" needle-nose pliers with cutter
- Plus 33 electrical tape
- Wire stripper 5"
- Diagonal cutter 5"
- 10" adjustable wrench
- Slip-joint pliers or channel locks
- 6-in-1 electrical tool screwdriver
- 1/8" x 3" screwdriver
- Hex key set
- Wire ties
- Inspection mirror
- 1 Padlock (locker and/or toolbox)
- Flashlight and batteries
- 1/4 & 5/16 drill bit nut drivers
- Safety glasses or goggles (**REQUIRED**)
- Architects Scale 12"

(manufactures and models listed below are suggestions only)

Yellow Jacket Brute II, with vacuum hose and sight glass.

Klein – 500-B

Robinair 10696

Ullman D-2, MA Line MA181A

Robinair 10596, Universal T160 or Universal 300

Imperial 16C or Ritchie 19109 (straight) or 19209 (90 degree)

20" maximum

Stanley 33-115, Klein – 922-10, and Stanley 33-430

Imperial TC1050

Imperial TC1000

Imperial – 275FS

Mueller, or Harris 40027

Mueller – 95-5

3M

Klein 5 or 7 piece set

Universal DLP-259 or Amprobe ACD 14

Klein – D203-6H2

3M

V6C0 #V 88202 or Klein 1011

V-WS100C or Klein D210-5C

Klein – 500 – 10

Klein – 511 – 8 or Diamond HLI108H

Lennox 23931

Klein – 19401, or A216-3

Watsco P-13

MA Line 3174

Wagner M-3

110 Series Architects Scale 12" by Alvin