

Free printable from Deepseal · usedeepseal.com/hvac-technician-tool-list · Version: October 2026 · Built from 17 HVAC school tool lists, UA and SMART agreements, current job ads, EPA Section 608 and the A2L guidance from AHRI and the equipment makers. Sources and prices are on the web page. Your employer's policy, your union agreement and state law decide who supplies a tool; this sheet is where the shop writes that down.

HVAC Technician Tool List

Technician		Start date	
Position	☐ Apprentice ☐ Service tech ☐ Installer ☐ Other: _____	Truck / van #	
Shop		List issued by / date	

How to use it. The shop marks **Supplied by** on every row (T = technician buys and owns it, S = shop supplies it) before the list goes to a new hire. **Usually** is where most union agreements, contractor surveys, job ads and technicians' own accounts put the tool; Varies means they split. **Yr**: 1 = school programs require it in the first term, 2 = programs schedule it later, a dash = shop equipment. **A2L**: Yes = the tool must be rated for the mildly flammable refrigerants R-454B and R-32. The technician ticks **Have** and writes the brand and serial number, which is the personal tool list a union agreement asks for if tools are stolen.

A. Hand tools and safety gear (the apprentice's first year)

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Multi-bit screwdriver (11-in-1 type) with Schrader bit		1		Tech	☐ T ☐ S	
☐	Thermostat screwdriver, precision screwdrivers		1		Tech	☐ T ☐ S	
☐	Phillips and flat screwdrivers	#1, #2; 1/4 in flat	1		Tech	☐ T ☐ S	
☐	Nut drivers	1/4 and 5/16 in, magnetic	1		Tech	☐ T ☐ S	
☐	Lineman's pliers	9 in	1		Tech	☐ T ☐ S	
☐	Needle-nose pliers	6 to 8 in	1		Tech	☐ T ☐ S	
☐	Diagonal cutters		1		Tech	☐ T ☐ S	
☐	Tongue-and-groove pliers	10 and 12 in	1		Tech	☐ T ☐ S	
☐	Wire stripper and crimper		1		Tech	☐ T ☐ S	
☐	Adjustable wrenches	8 in and 10 or 12 in	1		Tech	☐ T ☐ S	
☐	Combination wrench set	1/4 to 3/4 in	1		Tech	☐ T ☐ S	
☐	Hex key set	SAE and metric	1		Tech	☐ T ☐ S	
☐	Tape measure	25 ft	1		Tech	☐ T ☐ S	
☐	Torpedo level		1		Tech	☐ T ☐ S	
☐	Hammer	16 oz	1		Tech	☐ T ☐ S	
☐	Utility knife		1		Tech	☐ T ☐ S	

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Aviation snips	left and right cut	1		Tech	☐ T ☐ S	
☐	Scratch awl, inspection mirror		1		Tech	☐ T ☐ S	
☐	Flashlight and headlamp		1		Tech	☐ T ☐ S	
☐	Jumper wires, test leads	insulated alligator clips	1		Tech	☐ T ☐ S	
☐	Hacksaw	12 in	1		Tech	☐ T ☐ S	
☐	Pipe wrenches	14 in, two	2		Varies	☐ T ☐ S	
☐	Tool bag		1		Tech	☐ T ☐ S	
☐	Safety glasses	ANSI Z87.1; prescription safety glasses are the exception	1		Shop (OSHA)	☐ T ☐ S	
☐	Cut-resistant gloves, respirator for attics	N95 or better	1		Shop (OSHA)	☐ T ☐ S	
☐	Safety-toe boots	often a boot allowance	1		Tech	☐ T ☐ S	

B. Meters and test instruments

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Clamp meter	volts, amps, ohms, microfarads, temperature	1		Tech	☐ T ☐ S	
☐	Non-contact voltage tester		1		Tech	☐ T ☐ S	
☐	Pipe clamp thermometers, pocket thermometer	two clamps for superheat and subcooling	1		Tech	☐ T ☐ S	
☐	Psychrometer	dry bulb and wet bulb	2		Tech	☐ T ☐ S	
☐	Manometer	gas pressure and static pressure	2		Varies	☐ T ☐ S	
☐	Micron gauge		2		Varies	☐ T ☐ S	
☐	Wireless probe set	optional	2		Varies	☐ T ☐ S	
☐	Combustion analyzer	CO and O2	2		Shop	☐ T ☐ S	

C. Refrigerant tools

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Manifold gauges and hoses	R-454B and R-32 scales or library; 800 psi hoses, 4000 psi burst	2	Yes	Varies	☐ T ☐ S	
☐	Refrigeration service wrench	with 3/16 and 5/16 in hex	1		Tech	☐ T ☐ S	

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
		adapters					
☐	Tubing cutters	mini, and standard to 1-1/8 in	1		Tech	☐ T ☐ S	
☐	Deburring tool		1		Tech	☐ T ☐ S	
☐	Flaring tool	45 degree, eccentric	2		Tech	☐ T ☐ S	
☐	Swaging tool, tube bender		2		Tech	☐ T ☐ S	
☐	Valve core removal tools	two	2		Tech	☐ T ☐ S	
☐	Left-hand thread cylinder adapter	for R-454B and R-32 cylinders	2	Yes	Varies	☐ T ☐ S	
☐	Vacuum pump	A2L rated; no gas ballast with A2L	-	Yes	Shop	☐ T ☐ S	
☐	Recovery machine	EPA-certified for the refrigerant; A2L rated	-	Yes	Shop	☐ T ☐ S	
☐	Recovery cylinders	DOT; A2L cylinder: left-hand thread, red band	-	Yes	Shop	☐ T ☐ S	
☐	Electronic leak detector	A2L rated; never a flame-type detector	-	Yes	Shop	☐ T ☐ S	
☐	Refrigerant scale	calibrated	-		Shop	☐ T ☐ S	
☐	Nitrogen cylinder and regulator	nitrogen flowing while brazing	-		Shop	☐ T ☐ S	
☐	Brazing outfit	air-acetylene or oxy-acetylene	-		Varies	☐ T ☐ S	
☐	Hand torch	MAPP or propane	1		Varies	☐ T ☐ S	
☐	Fire extinguisher	dry powder or CO2, at the charging area	-	Yes	Shop	☐ T ☐ S	

D. Power tools, ladders and shop equipment

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Cordless drill and impact driver		1		Varies	☐ T ☐ S	
☐	Drill bits, step bit, driver bits	1/4 and 5/16 in hex	1		Varies	☐ T ☐ S	
☐	Hole saw kit		-		Varies	☐ T ☐ S	
☐	Reciprocating saw, other large power tools		-		Shop	☐ T ☐ S	
☐	Shop vacuum		-		Varies	☐ T ☐ S	
☐	Extension cords	12 gauge, 50 and 100 ft	-		Varies	☐ T ☐ S	

Have	Tool	Size / spec	Yr	A2L	Usually	Supplied by	Brand, serial, notes
☐	Ladders		-		Shop	☐ T ☐ S	
☐						☐ T ☐ S	
☐						☐ T ☐ S	
☐						☐ T ☐ S	

Shop tool policy

Tool allowance	\$ _____ per ☐ month ☐ year ☐ None
Tool purchase account or payroll deduction	☐ None ☐ Yes: limit \$ _____, repaid \$ _____ per paycheck
Technician's tools broken on the job	☐ Shop repairs or replaces ☐ Technician replaces ☐ Shop pays ____ %
Shop tools lost or damaged	
Boot allowance	\$ _____ per year ☐ None
Technician / date	Name: _____ Signature: _____ Date: _____
For the shop / date	Name: _____ Signature: _____ Date: _____

The legal floor. Federal wage law (29 CFR 531.35): the cost of tools the employer requires may not cut into minimum wage or overtime pay in any workweek. California's wage orders: required tools are the employer's, except that an employee earning at least twice the state minimum wage may be required to provide hand tools customarily required by the trade; the rule does not apply to apprentices registered with the state Division of Apprenticeship Standards. OSHA (29 CFR 1910.132(h)): the employer pays for required protective equipment, except non-specialty safety-toe boots and prescription safety glasses the employee may wear off the job. Other state rules may apply.

Appendix A: Truck Stock Count

Truck / van #		Technician	
Count date		Counted by	

Carry is the quantity on the van at the start of each day. Count what is on hand, and restock the difference. Filled-in Carry quantities are what working technicians report carrying, except the fire extinguisher's, which is from an R-454B installation manual (each one is named on the web page); a blank is yours to set from your own call history. The rule on HomyScan's truck stock list: once you reach for a part more than once or twice in a season, carry two or three. Cylinders: each one 220 lb gross or less and all hazardous materials on the van 440 lb or less (DOT materials of trade, 49 CFR 173.6); R-32 and R-454B are flammable gases for transport and ride upright.

Item	Sizes / values	Carry	On hand	Restock	Notes
Electrical					
Run capacitor, single, 440 V	5, 7.5, 10, 15 MFD on Totaline's list; HomyScan adds 20	2			
Dual run capacitor, 440 V	30/5, 35/5, 40/5, 44/5, 50/5, 55/5, 60/5, 70/7.5 (Totaline heating list)	2			
Dual run capacitor 45/5 and 45/7.5		4			
Universal multi-tap capacitor (Turbo 200 type)		1			Temporary fit until the exact size is in hand
Hard start kit		4			
Contactors, 24 V coil	1-pole and 2-pole 30 A and 40 A; 3-pole for light commercial	3			
Fuses, 15 to 50 A, 250 V and 600 V	plus 3 A and 5 A blade fuses for control boards	3			
Transformer	40 VA, 120/208/240 V primary, 24 V secondary; multi-tap				
Relays	fan relay SPST and SPDT 24 V; DPDT 24 V				
Time-delay relay	delay-on-make, delay-on-break				
Wire nuts, crimp terminals, thermostat wire	terminal kit, twist-on connector kit				
Motors					
Condenser fan motor, universal PSC	1/3 to 1/6 HP, 208-230 V, 825 and 1075 rpm	2			
Blower motor, universal PSC	1/2 to 1/6 HP and 3/4 to 1/5 HP, 115 V and 230 V	2			
Inducer motor, OEM control board					

Item	Sizes / values	Carry	On hand	Restock	Notes
Gas heat					
Hot surface igniter, universal nitride 120 V		2			
Flame sensor, universal		5			
Gas valve, universal single-stage	24 V, fast opening, 1/2 x 1/2 (e.g. White-Rodgers 36J22-214)	2			
Gas valve, two-stage	e.g. White-Rodgers 36J54-214	1			Smart and intermittent-pilot valves: order them
Pressure switches	the common ranges in your area				
Limit switches, fan-limit control					
Thermocouples, thermopile	24, 30 and 36 in				
Sequencer (electric heat)	single and double				
Refrigerant circuit					
Liquid line filter drier	8 and 16 cu in, 3/8 in ODF; bi-flow drier for heat pumps				
Schrader cores, port caps, locking caps					
Refrigerant: R-410A	25 lb cylinder				Sale needs a 608-certified buyer
Refrigerant: R-454B	20 lb cylinder, red band, left-hand thread				Division 2.1 for transport: carry upright
Refrigerant: R-32	20 lb cylinder, red band, left-hand thread				Division 2.1 for transport: carry upright
Nitrogen		2			Swap the empty one at the supply house
Recovery cylinder	A2L-rated cylinder for R-454B and R-32	2			
Left-hand thread cylinder adapter (A2L)					On both Totaline truck stock lists
Brazing rod and flux	15% silver				
Oil	POE, mineral, vacuum pump oil				
TXV					
Controls					

Item	Sizes / values	Carry	On hand	Restock	Notes
Thermostats	single-stage and two-stage heat/cool				
Float switch		1			
Condensate					
Condensate pump	115 V, 230 V, mini-split				
PVC drain fittings, traps, pan tablets	3/4 in				
Filters and cleaning					
Air filters	1, 2 and 4-5 in media in your area's common sizes				
Coil cleaner	no-rinse evaporator foam				
Supplies and safety					
Screws, tape, sealant, zip ties					
Fire extinguisher, dry powder or CO2	near the charging area on A2L jobs	1			

Appendix B: Shop Tool Issue Record

One sheet per technician. List every shop-owned tool on the truck or in the bag, with the serial number, when it is issued and when it comes back. The Southern California UA service agreement lets the employer require a signed receipt for hand tools issued to employees; this sheet is that receipt.

Technician		Truck / van #	
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Tool	Make / model	Serial #	Issued	Condition	Returned	Tech initials
Vacuum pump						
Recovery machine						
Recovery cylinder						
Recovery cylinder (A2L)						
Electronic leak detector						
Refrigerant scale						
Nitrogen regulator						
Micron gauge						
Manifold gauges						
Combustion analyzer						
Ladder						

Received in working order	Technician: _____ Signature: _____ Date: _____
Issued by	Name: _____ Signature: _____ Date: _____

Keep this record with the tool policy above. In California, IWC Order 4 (section 8) bars deductions for lost or broken equipment unless the loss came from a dishonest or willful act or gross negligence. The spreadsheet version of the tool list and the truck stock count, with the restock column worked out for you, is at usedeepsel.com/hvac-technician-tool-list. Every free checklist and template in the set is at usedeepsel.com/checklists.