



Equipment List

From the desk of: Bob Newton

Date: 1/1/2008

TO: Tek-Air Service Engineers and Technicians

Many people have asked for a suggested list of equipment that a person should carry in their tool box and here it is. Of course, there is not a tool box that is large enough for all of this and every project may not require the use of all this equipment. The person just needs to be sure that equipment similar to this is available if needed on site.

Hand Tools:

- Wire Strippers, (sized from 16 awg down to 24 awg)
- Small screw driver set with Phillips and Flat drivers *
- Assorted Larger Screw Drivers *
- Small vise grips and or channel locks
- Small Needle nose pliers, crescent wrench
- Pocket knife *
- Set of nut drivers ¼" 5/16" 3/8"
- Small butane or electric soldering iron, solder *
- Cell phone, digital camera, Flashlight

Meters and Instrumentation: (Some of this equipment can be rented at <http://www.cleanair.com/>)

- Digital Volt Meter; DC and AC Voltmeter, DC and AC Ameter, Resistance measurement, with tone for continuity.
- Signal Generator; Altek 334A, for generating mA signals for calibration of actuators, (use resistor for units requiring voltage)
- Digital Oscilloscope (portable); similar to Tektronics TDS 1002 or better for communications troubleshooting.
- Shortridge Airdata Meter 850 or 870 with Pitot, Velgrid and hood attachments
- TSI Velocalc model 8384 or better for quick traverses and hood velocity readings
- SPM7000 and cable for SPM 2000 (IsoTek Setup)
- FHT7000 tool and cable for FVC2000 fume hood commissioning
- Magnehelic 0.0 to 0.25 and 0 to 10.0, Static pressure probe and tubing
- Personal Computer Lap Top Pentium
 - Pentium 4 Processor at 1.6GHz or better
 - 128MB SDRAM at 266MHz (min)
 - 10Gb min. of free Hard drive space
 - MS Windows XP
 - 9-pin serial port (COM 1)
 - Communication interfaces and cables
 - Tek-Air Software

Project Information, Submittals, O&Ms for Products, Etc...

- Electrical tape, duct tape, foil tape
- Heat shrink tubing
- Fuses for Meters
- Selection of wire nuts
- Extra terminal connectors to PC boards
- Fine tip markers
- Wire Labels
- Air Pressure Gauge 0-30 psi with tubing and fittings for testing
- Smoke sticks or generator for testing rooms*
- Ladders, Fall arrest harness
- Safety Glasses, Hardhat, Steel toed shoes

* Note: Some equipment may not be checked in baggage for air travel.