A2L Equipment Best Practices

Before Installing or Servicing Equipment
• SAFETY FIRST!
• Read SDS and OEM Equipment Manual.
• Follow lockout/tagout procedures when needed.
• Verify no voltage is present before working.
• Ensure area is well ventilated.
• Evaluate jobsite for a) ignition sources, b) flammable vapors, c) controlling area, d) confined spaces, and e) clear exit points.

A2L Installation
• Follow OEM guidelines for minimum room area/refrigerant charge limits.
• Ensure mitigation components are installed and operating per OEM instructions.
• Use locking refrigerant caps to prevent unauthorized access to the system.
• Ensure a filter drier is installed.

A2L Evacuation and Pressure Test
• Consult the OEM instructions to determine proper evacuation targets/procedures.
• Pressure test field erected components.
• Evacuate the system before charging using an A2L rated vacuum pump.
• Record a) date, b) test pressure, and c) vacuum level on the label (UL 60335-2-40).

A2L Charging (if required)
• Do NOT exceed the maximum allowable refrigerant charge per OEM instructions. (Charge amounts may vary due to line-sets.)
• Follow OEMs procedure for proper charging techniques. (Superheat/Subcooling)
• If refrigerant is a 400-series, the refrigerant must leave the cylinder in ‘liquid form.’
• Record a) date and b) total refrigerant charge weight on the unit label (UL 60335-2-40).

A2L System Repairs
• Leak check to verify no refrigerant is present.
• Ensure equipment is grounded before working.
• Use proper capacitor discharge methods.
• Use only OEM approved replacement parts.
• Use nitrogen before and during all brazing.

A2L Recovery
• Do NOT vent.
• Do NOT mix refrigerants.
• Use recovery tools rated for use with A2L refrigerants.
• Recover all refrigerants before opening system.
• Recover into DOT approved recovery cylinder.
• Do not exceed cylinder fill weights.
• Label recovery cylinder contents.

For more information visit, https://www.ahrinet.org/saferefrigerant. © AHRI 2022