

SEVEN COMMON INSTALLATION MISTAKES

1. Wiring Issues - Condensate pump safety mis-wired - L1, L2, or #3 - crossed wired - Incorrect wire gauge - Use of wire nuts - Electrical contractor not supervised

2. Refrigerant Piping - No insulation on small pipe (HP only), both pipes insulated together, Incorrect pipe diameter, Pipes crossed (not labeled), Piping contaminated with debris, Pipe plugs not removed, Kinks in the line, Use of refrigerant circuit accessories (filter driers, sight glasses)

3. Refrigerant Leaks - Improper Flaring Technics - Over tightening of flare nuts, System not pressurized to 550 psi (*operational pressures can be 450 psig*)

4. Improper Condensate Drainage - Wall penetration not sloped, Drain line not tested - **Condensate Pump** not primed and tested, Safety circuit not wired or wired incorrectly (always/never runs), No vent tube, Suction or Lift not sufficient

5. Low Capacity (Heating/Cooling) - Low Charge/Additional charge not calculated, Incorrect pipe diameter, Piping limitations exceeded, Debris left in pipe (dirt, plugs), Excessive moisture, Not evacuated properly

6. Compressor Won't Start or Compressor Starts Does Not Run
No power - Faulty fuses - King valves closed - Nitrogen left in system - Wiring issue

7. Burnt indoor unit PCB or PCB Fuse blown - Electrical contractor not supervised - L1 or L2 crossed to #3