

## SECTION XIII: START UP SHEET

**33" 96% AFUE Two Stage Gas Furnace Start Up Sheet**  
 Proper furnace start up is critical to customer comfort and equipment longevity

Start-Up Date Technician Performing Start-Up Installing Contractor Name **Owner Information**Name Address City State or Province Zip or Postal Code **Equipment Data**Furnace Model Furnace Serial Evaporator Coil Model Evaporator Coil Serial Outdoor Unit Model Outdoor Unit Serial **Furnace Configuration**
 Upflow   
  Downflow   
  Horizontal Left   
  Horizontal Right
**Filter, Thermostat, Accessories**Filter Type  Filter Size  Filter Location(s) Thermostat Type  Other System Equipment and Accessories **Connections -- All Per Installation Instructions and Local Code**
 Unit is level or tilted slightly forward   
  Gas piping is connected (including drip leg)  
 Vent system is connected   
  Supply plenum and return air are connected
**Condensate Management**
 Condensate tubing is correctly installed for the furnace position   
  Condensate drain is connected
**Venting**Intake Size  # of 90 Degree Ells  # of 45 Degree Ells  Length Exhaust Size  # of 90 Degree Ells  # of 45 Degree Ells  Length 
 Venting system is the proper size, within the limitations of the chart in the installation instructions, properly connected to the furnace, and properly pitched

**Exhaust Termination**   
  Roof  
 Sidewall  
  
**Intake Termination**   
  Roof  
 Sidewall  
 Attic
**Electrical: Line Voltage**
 Polarity is correct (black is L1 (hot), white is N (neutral))   
  Ground wire is connected from the furnace to electrical panel
Line voltage value to furnace (volts AC) **Electrical: Low Voltage**
 Thermostat wiring is complete   
  Thermostat heat anticipator set to .4 or (6 cycles per hour for electronic thermostats)
Low voltage value between "R" and "C" on furnace control board (volts AC) **Staging:**Thermostat Staging:   
 OFF   
 10 MIN   
 15 MIN   
 20 MIN

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<b>Gas Side</b>	
Gas Type <input type="radio"/> Natural Gas <input type="radio"/> LP Gas (Requires LP conversion kit)	
LP Gas Conversion Kit Part # Used <input style="width: 150px;" type="text"/>	LP Conversion Kit Installed By <input style="width: 150px;" type="text"/>
Inlet Gas Pressure (in. w.c.) <input style="width: 50px;" type="text"/>	Low Fire Manifold Gas Pressure (in. w.c.) <input style="width: 50px;" type="text"/>
High Fire Manifold Gas Pressure (in. w.c.) <input style="width: 50px;" type="text"/>	
Calculated input in btuh - clock the gas meter in high fire (Nat Gas Only) <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> Burner flame inspected -- flames are blue and extending directly into the primary heat exchanger cells	
<b>Air Side: System External Static Pressure</b>	
Supply static <b>before</b> evaporator coil (in w.c.) <input style="width: 50px;" type="text"/>	Supply static <b>after</b> evaporator coil (in w.c.) <input style="width: 50px;" type="text"/>
Return Static (in w.c.) <b>before</b> filter <input style="width: 50px;" type="text"/>	Return Static (in w.c.) <b>after</b> filter (furnace side) <input style="width: 50px;" type="text"/>
Total External Static Pressure <input style="width: 50px;" type="text"/>	
<b>Air Side: Heating (PSC)</b>	
Low Heat Blower Speed Selected <input type="radio"/> Red (Low) <input type="radio"/> Yel (Med Low) <input type="radio"/> Blue (Med/Med High) <input type="radio"/> Black (High)	
High Heat Blower Speed Selected <input type="radio"/> Red (Low) <input type="radio"/> Yel (Med Low) <input type="radio"/> Blue (Med/Med High) <input type="radio"/> Black (High)	
Temperature rise in degrees F measured in low fire <input style="width: 50px;" type="text"/>	
Temperature rise in degrees F measured in high fire <input style="width: 50px;" type="text"/>	
<b>Air Side: Heating (Variable Speed ECM)</b>	<b>Other Jumpers</b>
Heat Speed Selected <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	De-humidistat <input type="radio"/> Yes <input type="radio"/> No
Temperature rise in degrees F measured in Low fire <input style="width: 50px;" type="text"/>	Heat Pump <input type="radio"/> Yes <input type="radio"/> No
Temperature rise in degrees F measured in high fire <input style="width: 50px;" type="text"/>	
<b>Air Side: Cooling (PSC)</b>	
Low Cool Blower Speed Selected <input type="radio"/> Red (Low) <input type="radio"/> Yel (Med Low) <input type="radio"/> Blue (Med/Med High) <input type="radio"/> Black (High)	
High Cool Blower Speed Selected <input type="radio"/> Red (Low) <input type="radio"/> Yel (Med Low) <input type="radio"/> Blue (Med/Med High) <input type="radio"/> Black (High)	
Cooling CFM delivery (use Blower Performance Data Chart) Hi <input style="width: 50px;" type="text"/> Low <input style="width: 50px;" type="text"/>	
<b>Air Side: Cooling (Variable Speed ECM)</b>	
COOL Speed Selected <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	
ADJUST Setting <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	
DELAY Setting <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	
<b>Air Side: Continuous Fan (PSC)</b>	
Blower Speed Selected <input type="radio"/> Lo Heat <input type="radio"/> HI Heat <input type="radio"/> Lo Cool <input type="radio"/> Hi Cool	
<b>Air Side: Continuous Fan (Variable Speed ECM)</b>	
Blower (5-Speed) Selected <input type="radio"/> Lo Cool <input type="radio"/> HI Cool <input type="radio"/> HI Heat <input type="radio"/> Lo Heat <input type="radio"/> VSG	
Blower (3-Speed) Selected <input type="radio"/> L (Low) <input type="radio"/> M (Med) <input type="radio"/> H (High)	
<b>Cycle Test</b>	
<input type="checkbox"/> Operate the furnace through several heating cycles from the thermostat, noting and correcting any problems	
<input type="checkbox"/> Operate the furnace through continuous fan cycles from the thermostat, noting and correcting any problems	
<input type="checkbox"/> Operate the furnace through cooling cycles (as applicable), noting and correcting any problems	
<b>Clean Up</b>	
<input type="checkbox"/> Installation debris disposed of and furnace area cleaned up?	
<b>Owner Education</b>	
<input type="checkbox"/> Give owner the owner's manual provided	
<input type="checkbox"/> Explain operation of system to equipment owner	
<input type="checkbox"/> Explain the importance of regular filter replacement and equipment maintenance	
<input type="checkbox"/> Explain thermostat use and programming (if applicable) to owner	