

OIL FURNACE START-UP CHECKLIST

(Complete this page and keep for future reference)

Customer Name _____
 Address _____
 City _____ State _____ Zip Code _____
 Furnace Model # _____ Serial # _____
 Input Rate _____ Nozzle Used _____
 New Construction _____ Replacement _____
 Date of Installation _____

Installation Data

Furnace Location:

- A. Basement – Open _____ Enclosed* _____
- B. Utility room – Open _____ Enclosed* _____
- C. Closet – Open _____ Enclosed* _____
- D. Crawl space – Open _____ Enclosed* _____

* Provisions must be made for adequate air for combustion. See **Combustion and Ventilation Air** on page 5.

Chimney Data:

- A. Inside _____ Outside _____
- B. Brick or Masonry _____
- C. Lined _____ Size: _____
- D. Type: Class A all-purpose _____ Type L _____
- E. Condition _____

Flue Pipe:

- A. Distance to chimney _____ Pitch _____
- B. Diameter _____
- C. Barometric damper installed _____
- D. Drill 5/16" hole in flue pipe 12" upstream of barometric damper _____
- E. Obtain drafting reading; adjust barometric _____

Oil Tank Data:

- A. Installed in basement _____
- B. Outside _____
- C. Buried/Depth: _____
- D. Size: _____ gallons
- E. Age: _____
- F. Date of last cleaning: _____

Oil Lines:

- A. Size: 3/8" _____ 1/2" _____ Other _____
- B. Single pipe _____ Two pipe _____
- C. Distance from tank _____ Lift _____
- D. Filter type _____ Inspect _____ Change _____
- E. Pressure test _____
- F. Recheck all fittings for tightness _____

Thermostat

- A. Type: Heating _____ Cooling _____
- B. Anticipator set _____
- C. Wires: New _____ Old _____

Air Filter

- A. Type: Permanent _____ Disposable _____
- B. Installed _____
- C. Size: _____

Start-Up Procedure

- A. Close disconnect switch _____
- B. Set thermostat to call for heat _____
- C. Bleed air from lines and pump; run for 20 seconds after bubble disappears _____
- D. Install vacuum gauge; check pump vacuum _____
- E. Install pressure gauge; adjust pressure to 140 psig (except on 57 models – adjust to 100 psig) _____
 Always verify proper pump pressure to corresponding tables with instructions supplied with unit.
- F. After 10 minutes of operation, obtain flue temperature reading: 1st _____ 2nd _____ 3rd _____
- G. Obtain smoke reading:
 1st _____ 2nd _____ 3rd _____
- H. Measure CO₂: 1st _____ 2nd _____ 3rd _____
- I. Check draft overfire _____ Breech _____
- J. Air shutter setting _____ Locked _____
- K. Measure static pressure in duct system
 Static pressure on supply side _____
 Static pressure on return side _____
 Static pressure drop _____
- L. Temperature rise after steady state conditions have been achieved: Supply side _____ Return side _____
- M. Block off return air (limit control checkout); burner should shut down in 2 or 3 minutes _____

Owner Record

Installed By: _____
 Dealer _____
 Address _____

 Telephone # _____
 License # _____

Manufactured By
Allied Air Enterprises, Inc.
A Lennox International Company
 215 Metropolitan Drive
 West Columbia, SC 29170

Upflow

IMPORTANT: Run furnace at least 10 minutes before taking measurements, except for the Standby Line and Low Voltage measurements, which should be taken before the furnace is turned on.

Supply Air Temperature (A) _____ °F

Supply Air Static Pressure - Downstream of Coil + _____ "WC.

Evaporator Coil (if applicable)

Supply Air Static Pressure - Upstream of Coil + _____ "WC.
(Drill through A-plate of coil to get this static measurement)

If the system does not include an evaporator coil, only one Supply Air Static Pressure measurement is needed.

Blower Motor Speed Tap (Heating) _____
(Cooling) _____

Return Air Static Pressure - _____ "WC.

Filter Type/Size _____
Filter Condition _____

Return Air Temperature (B) _____ °F

Plenum Size:
Return _____
Supply _____

Actual Voltage (Measured)

(Standby) Line Voltage* _____

(Running) Line Voltage _____

(Standby) Low Voltage* _____

(Running) Low Voltage _____

Unit Ground (Yes/No)? _____

* Measure before the furnace is put into operation.

(A) - (B) = _____ °F Temperature Rise Total Static Pressure _____ "WC. Number of Runs _____

Counterflow

IMPORTANT: Run furnace at least 10 minutes before taking measurements, except for the Standby Line and Low Voltage measurements, which should be taken before the furnace is turned on.

Filter Type/Size _____
Filter Condition _____

Return Air Temperature (B) _____ °F

Return Air Static Pressure - _____ "WC.

Supply Air Static Pressure - Upstream of Coil + _____ "WC.

Supply Air Static Pressure - Downstream of Coil + _____ "WC.
(Drill through A-plate of coil to get this static measurement)

If the system does not include an evaporator coil, only one Supply Air Static Pressure measurement is needed.

Evaporator Coil (if applicable)

Supply Air Temperature (A) _____ °F

Plenum Size:
Return _____
Supply _____

Number of Runs _____

Actual Voltage (Measured)

(Standby) Line Voltage* _____

(Running) Line Voltage _____

(Standby) Low Voltage* _____

(Running) Low Voltage _____

Unit Ground (Yes/No)? _____

* Measure before the furnace is put into operation.

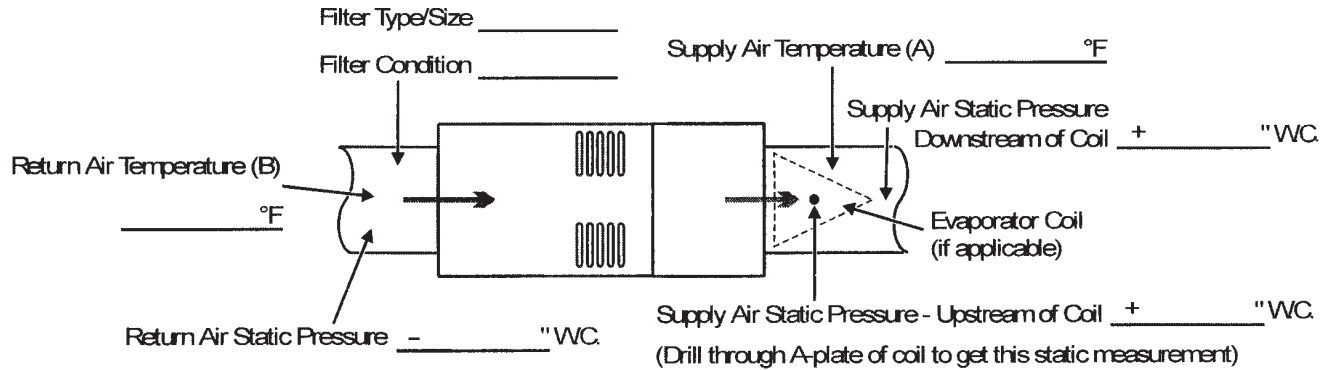
(A) - (B) = _____ °F Temperature Rise

Blower Motor Speed Tap (Heating) _____
(Cooling) _____

Total Static Pressure _____ "WC.

Horizontal – Left to Right Airflow

IMPORTANT: Run furnace at least 10 minutes before taking measurements, except for the Standby Line and Low Voltage measurements, which should be taken before the furnace is turned on.



Actual Voltage (Measured)

(Standby) Line Voltage* _____
 (Running) Line Voltage _____
 (Standby) Low Voltage* _____
 (Running) Low Voltage _____
 Unit Ground (Yes/No)? _____

Plenum Size:
 Return _____
 Supply _____
 Number of Runs _____

If the system does not include an evaporator coil, only one Supply Air Static Pressure measurement is needed.

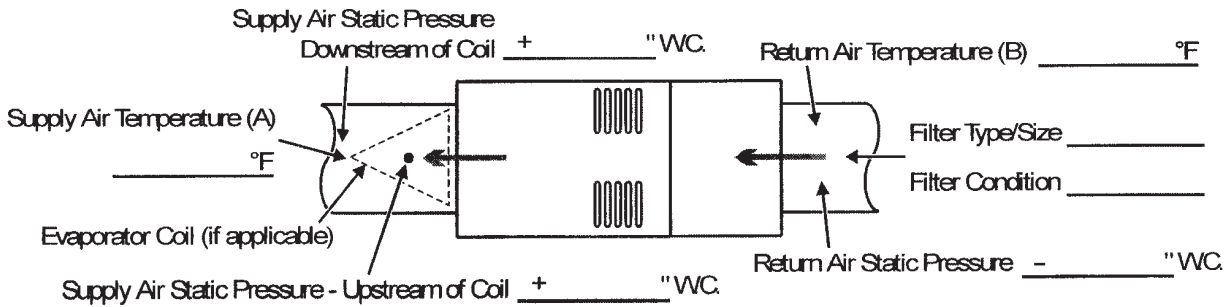
Blower Motor Speed Tap (Heating) _____
 (Cooling) _____

* Measure before the furnace is put into operation.

(A) - (B) = _____ °F Temperature Rise Total Static Pressure _____ "WC.

Horizontal – Right to Left Airflow

IMPORTANT: Run furnace at least 10 minutes before taking measurements, except for the Standby Line and Low Voltage measurements, which should be taken before the furnace is turned on.



Plenum Size: Blower Motor Speed Tap (Heating) _____
 Return _____ (Cooling) _____
 Supply _____
 Number of Runs _____

Actual Voltage (Measured)

(Standby) Line Voltage* _____
 (Running) Line Voltage _____
 (Standby) Low Voltage* _____
 (Running) Low Voltage _____
 Unit Ground (Yes/No)? _____

If the system does not include an evaporator coil, only one Supply Air Static Pressure measurement is needed.

* Measure before the furnace is put into operation.

(A) - (B) = _____ °F Temperature Rise Total Static Pressure _____ "WC.