

GAS FURNACE CHECKLIST



Distributor Name _____

Distributor Address _____

Customer Name _____

Customer Address _____

City _____ State _____ Zip Code _____

MODEL # _____ SERIAL # _____ SERIES _____

Dealer Name _____ Dealer Phone _____

DATE OF ORIGINAL INSTALLATION _____

NEW CONSTRUCTION ___ OR REPLACEMENT ___ (mark one)

TYPE OF FUEL: NATURAL GAS ___ OR PROPANE ___ (mark one)

FURNACE LOCATION: **FURNACE POSITION:**
 (mark one for each category)

LOCATION				POSITION	
<input type="checkbox"/>	BASEMENT	<input type="checkbox"/>	CRAWL SPACE	<input type="checkbox"/>	UPFLOW
<input type="checkbox"/>	UTILITY ROOM	<input type="checkbox"/>	CLOSET	<input type="checkbox"/>	DOWNFLOW
<input type="checkbox"/>	ATTIC	<input type="checkbox"/>	GARAGE	<input type="checkbox"/>	HORIZONTAL RIGHT
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	HORIZONTAL LEFT

GAS PIPING:

SEDIMENT TRAP INSTALLED AT UNIT? Yes ___ No ___ (mark one)

EXTERNAL SHUT OFF INSTALLED AT UNIT? Yes ___ No ___ (mark one)

VERIFY SUPPLY PIPE SIZE _____ diameter

FIRING RATE: (CLOCKED METER FOR NAT. GAS)

Remove burner box cover on 90% units. Reinstall after adjusting manifold pressure

Firing rate= heat content (btu/cu. ft.) X size of the dial (cu. ft/rev) X # of rev. per 60 sec (rev/sec) X 3600 (sec/hr)

Example- (1050 btu/cu. ft.) X (1.0 cu. ft./rev.) X (2 revs./60sec) X (3600 sec/hr)= 63,000 btu/hr

OR use the chart in the installation instructions

HIGH HEAT _____ btu/hr MED HEAT _____ btu/hr LOW HEAT _____ btu/hr

LOCAL GAS HEAT CONTENT _____(btu/cu. ft.)

SPECIFIC GRAVITY _____/ CU. FT. (contact your local gas utility-not required for propane)

SUPPLY PRESSURE** _____” W.C. ORIFICE # _____

**Supply pressure should be checked with all other gas appliances running

MANIFOLD PRESSURE: High fire _____” W.C. Low fire _____” W.C.

GAS PIPE SIZE AND LENGTH FROM GAS METER TO APPLIANCE _____FT

TOTAL (COMBINED) GAS INPUT OF ALL GAS APPLIANCES AT SITE _____BTU

LEAVING AIR TEMPERATURE _____(F) high _____(F) med _____(F) low

RETURN AIR TEMPERATURE _____(F) high _____(F) med _____(F) low

TEMPERATURE RISE _____(F) high heat

_____ (F) med heat

_____ (F) low heat

**Temperature rise is equal to the supply air temp minus the return air temp @ steady state operation

The supply temp. should be measured away from the line of sight of the Heat Exchanger

+90 % VENTING SYSTEM

PVC: _____ Long radius ells? Y___N___ (mark one)

Pipe Dia _____ # of Elbows _____ Total Length _____ ft.

Termination Type: Concentric _____ 2 pipe (std) _____ (mark one)

Termination Location: Roof _____ Sidewall** _____

** Ht. Above Grade _____ # of Combustion Air Disks Installed _____

MID-EFFICIENCY VENTING SYSTEM

METAL: B vent _____ Chimney Liner _____ (mark one)

Vent Dia _____ Total Ht. _____ ft. Vent Conn. Dia _____ Conn. length _____ ft.

of Elbows _____ Connector Type: Single Wall _____ B Vent _____ (mark one)

Connector Rise. Above Furnace _____ ft. Vent Cap Above Peak : Y___ N___ (mark one)

If No, Dist. From Peak _____ Water Htr. Input _____ btu/hr

of Elbows on W H Vent _____ W H Conn. Dia. _____ Conn length. _____

Type of Water Htr Vent Conn: Single Wall _____ B Vent _____ (mark one)

ACCESSORIES (fill in or circle as necessary)

Digital Thermostat/U.I. Model # _____

Humidifier Model # _____

Air Cleaner Model# _____

Zoning System Comfort Zone Comfort Zone II Two Zone Three Zone
 Zone Perfect Zone Perfect Plus VVT Infinity /Evolution

Zoning System (Others brand name) _____

Air Conditioning Indoor Coil Mod.# _____ Serial # _____
 or

Heat Pump Outdoor Unit. Mod. # _____ Serial# _____

Indoor TXV Yes___ No___ OR Indoor Piston Yes___ No___ Piston # _____ (mark one)

Outdoor TXV Yes___ No___ OR Outdoor Piston Yes___ No___ Piston # _____ (mark one)

Heat Recovery Ventilator or Energy Recovery Ventilator Model # _____

Twinning Kit Installed? Y___ N___ Kit # _____

Interface Kit Installed? Y___ N___ Kit # _____

A/C ROTARY KNOB SETTING																			
0		1		2		3		4		5		6		7		8		9	
BLOWER OFF DELAY ROTARY KNOB SETTING																			
0		1		2		3		4		5		6		7		8		9	

HK42FZ017 Control:

LHT		OFF DLY	
ON		ON	
OFF		OFF	

HK42FZ015, HK42FZ010 or HK42FZ005 Control:

SW-1 HIGH HEAT ONLY		SW- 2 LOW HEAT (ADAPTIVE ALGORITHM)		SW-3 and SW4 BLOWER OFF DELAY			
ON		ON		ON		ON	
OFF		OFF		OFF		OFF	

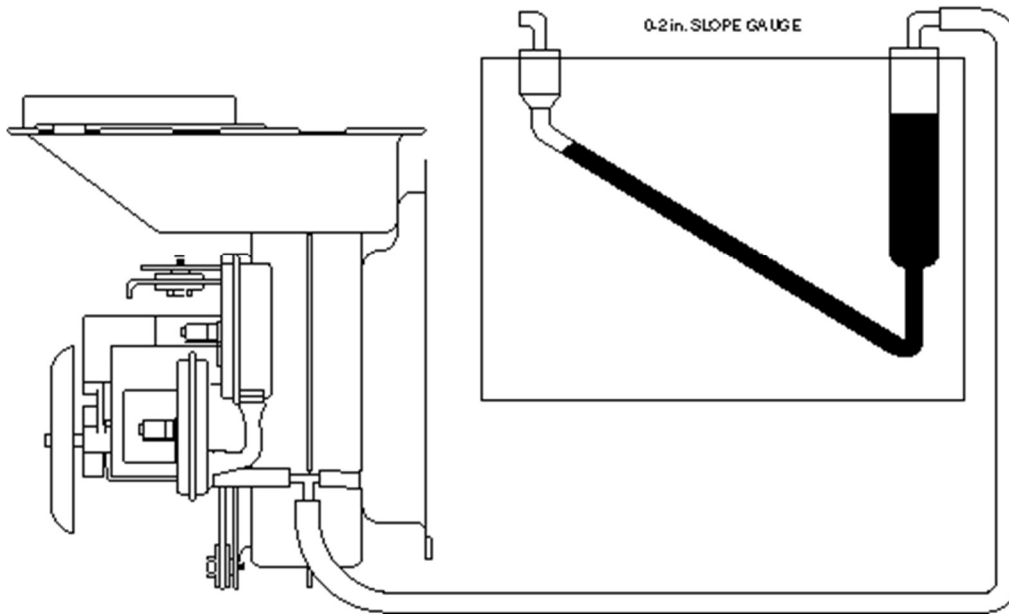
BLOWER OFF DELAY SETTING (Other Fixed Speed Controls)_____sec.

ACTUAL TIME FOR BLOWER TO SHUT OFF (All Controls)_____sec.

RECORD ANY FAULT CODES HERE

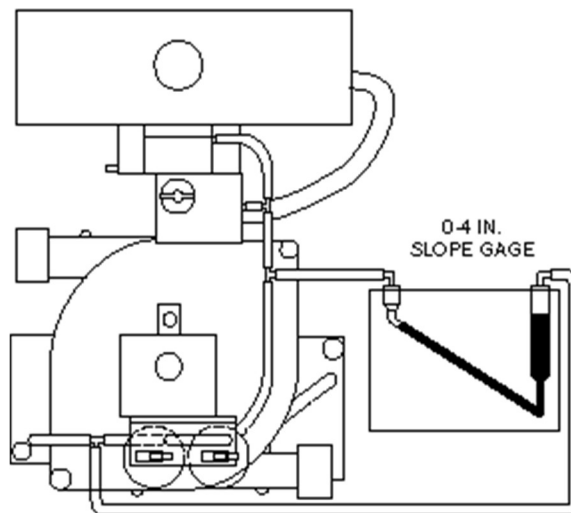
**** IF ANY SYSTEM CHANGES ARE PERFORMED,
REPEAT SYSTEM CHECK , RECHECKING TEMPERATURE RISE AND PERFORM THE
OPERATIONAL CHECKS**

Pressure Check Diagram



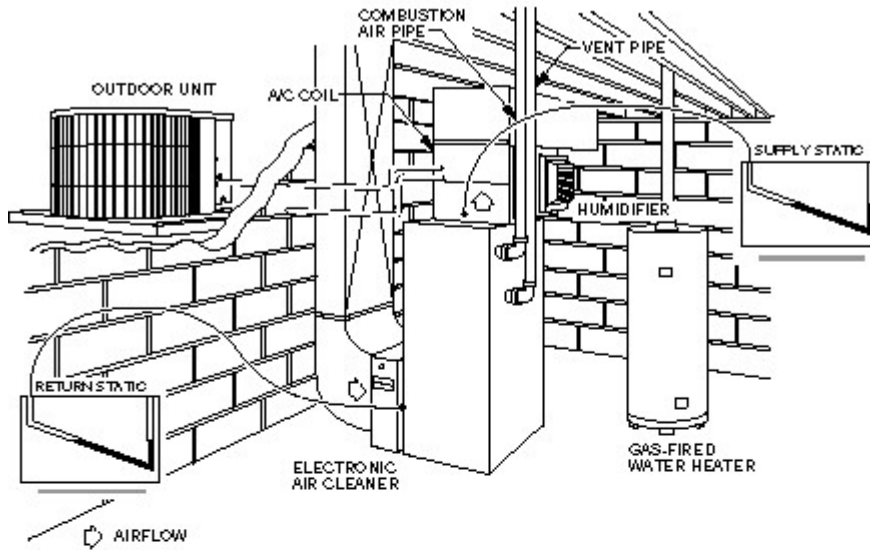
80% Units

Pressure Check Diagram



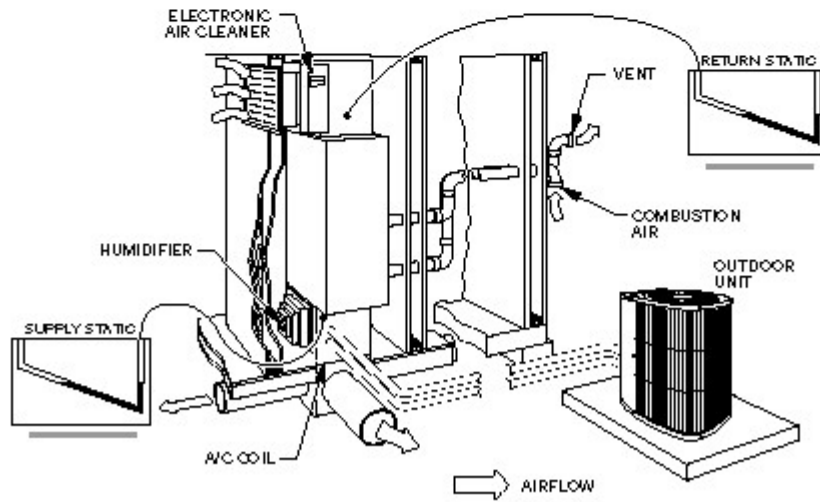
90% Units

Static Pressure Reading Location Diagrams



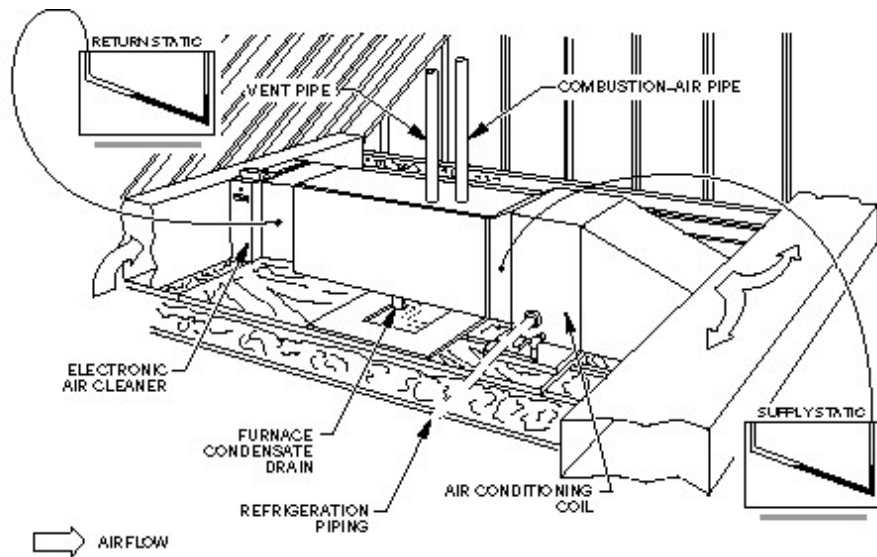
Basement — Upflow Application
Upflow Total Static Pressure Reading Locations

AGS090



Closet — Downflow Application
Downflow Total Static Pressure Reading Locations

AGS091



Attic — Horizontal Application

AGE002

Horizontal Right and Left Airflow Total Static Pressure Reading Locations

Tools Needed:

- 1) Pitot Tube
- 1) Incline Manometer/Magnahelic

Example 1

Return ESP after filter	0.40 in. wc
Supply ESP before coil	0.55 in. wc
Total ESP	0.95 in. wc

Example 2

Return ESP before filter	0.15 in. wc
Filter Static Drop @ 2000 CFM	0.25 in. wc
Supply ESP after coil	0.30 in. wc
Coil Static Drop Wet	0.25 in. wc
Total ESP	0.95 in. wc