

HEATING TECHNICAL EVALUATION FORM

BLOWER AMP DRAW Low Fire _____ amps High Fire _____ amps Low Cool _____ amps High Cool _____ amps

INDUCER AMP DRAW Low Fire _____ amps High Fire _____ amps

PRESSURE SWITCH Makes @ _____ " w.c. Low Fire Breaks @ _____ " w.c. Low Fire
 Makes @ _____ " w.c. High Fire Breaks @ _____ " w.c. High Fire

DUCT SYSTEM STATIC PRESSURE (ESP)

Low Fire _____ " w.c. High Fire _____ " w.c. Low Cool _____ " w.c. High Cool _____ " w.c.

Firing Rate

Firing rate = heat content (btu/cu. ft.) X 3600(sec/hr)/ seconds for 1 revolution(assume 1 cu. ft. dial)

Example - (950 btu/cu. ft.) X (3600 sec/hr.) / 48 sec. = 71,250 btu/hr.

Local Gas Heat Content _____ btu/hr. High Fire _____ btu/hr. Low Fire _____ btu/hr.

Supply Pressure* _____ "w.c. Orifice # _____ Altitude _____ ft.

Manifold Pressure: High Fire _____ "w.c. Low Fire _____ "w.c.

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

Temperature Rise

Supply Air Temperature _____ (°F) High Fire _____ (°F) Low Fire

Return Air Temperature _____ (°F) High Fire _____ (°F) Low Fire

Temperature Rise** _____ (°F) High Fire _____ (°F) Low Fire

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

The supply temperature should be measured away from the line of sight of the heat exchanger.

VENT SYSTEM

PVC:

Total Length _____ ft. Pipe Diameter _____ in. # of Elbows _____ Long Radius Elbows? ___Y___ N

Termination Location _____ Termination Type ___ SIDEWALL ___ CONCENTRIC ___ 1 PIPE ___ 2 PIPE

METAL:

Vent Height _____ ft. Vent Vent Diameter _____ in. Vent Type ___ CHIMNEY LINER ___ DOUBLE WALL

Cap Above Peak ___ Y ___ N If No, Distance From Peak _____ ft.

Connector Length _____ ft. Connector Diameter _____ in. Connector Height Above Furnace _____ ft.

Connector Type ___ SINGLE WALL ___ DOUBLE WALL Water Heater Input _____ btu/hr

COMBUSTION ANALYSIS

O2 _____ % CO2 _____ % CO _____ PPM Stack Temp. _____ (°F) Ambient Temp. _____ (°F)

Excess Air _____ %

Air Stream Measurements

Supply Air Stream CO _____ % Return Air Stream CO _____ %