

PARTS & SERVICE DEPARTMENT

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TO: Manufacturers' Representatives, District Sales Managers, Regional Managers, Technical & Customer Service Personnel, Service Agents, Sales & Marketing Personnel

SUBJECT: Intelli-Fin Maintenance

Since the inception of the Intelli-Fin 5 Years ago, we have had several inquiries regarding operational problems that could have been averted by doing preventive maintenance. Preventive maintenance is very important when operating high efficiency equipment. The following is a list of maintenance and service recommendations for an Intelli-Fin unit.

These are recommendations only; however, lack of maintenance could result in a non-warrantable failure.

Burner Maintenance: The burner should be removed for inspection and cleaning on an annual basis. An appliance installed in a dust or dirt contaminated atmosphere will require inspection and cleaning on a more frequent schedule. An appliance installed in a contaminated environment may require cleaning of the burner on a 3 to 6 month schedule or more often, based on severity of the contamination. With sustained operation, non-combustible contaminants may reduce burner port area, reduce burner input or cause non-warrantable damage to the burner. Information on how to clean and remove the burner is on page 59 in the I/O manual.

Heat Exchanger Inspection: This unit is equipped with a primary and a secondary heat exchanger. Both heat exchangers should be inspected on an annual basis. Check both heat exchanger surfaces for soot. If soot is present, the heat exchanger should be removed from the unit and cleaned. Removal and cleaning process for each heat exchangers start on page 61 in the I/O manual.

Cleaning of condensate drains: All condensate drains should be cleaned and clear of all debris on a monthly basis. Failure to do this will cause pressure to build up in the secondary heat exchanger box and damage gaskets. If gaskets get damaged, the inner combustion chamber will start leaking. When your combustion chamber starts to leak, it will cause hot flue gas to rise to the upper part of the unit and cause everything to sweat. Your system may be equipped with a neutralization box, the box should be cleaned and the calcium carbonate rocks should be replaced every 3 months to insure that the pH is correct. This will also insure no blockage. More information on this process is on pg.55 of the I/O manual.

Air and Gas Measurements: Inlet gas pressure, manifold differential gas pressure, and air differential pressure should be measured on an annual basis. Manifold differential gas pressure and air differential pressure are not adjustable in the field. If the air differential pressure is not 3.5" W.C. at 100% firing rate, something is affecting the incoming air to the unit or the screen on the fan is obstructed. If the manifold gas differential pressure is not 3.5" W.C. at 100% firing rate, something has affected the incoming gas pressure to the unit. PG.25, 26 & 62 in the I/O manual will show you how to measure these pressures.

Delta T Measurement: Always insure that the unit has a correct delta T on a 6 month basis. The command display will show you your delta T. Always check delta T when the by-pass valve is in the fully closed position. Delta T insures proper flow rate through the heat exchangers. An improper flow rate can damage the heat exchanger and is also a non-warrantable failure.

As you can see, maintenance is very important. Failure to do these maintenance procedures can damage the unit severely.