WEIL-McLAIN

Thank you for your continued interest and support of Weil-McLain products and services.

To better serve your needs, and increase your confidence level when installing and servicing Weil-McLain equipment, we have created this bi-monthly newsletter with answers to some of the "most frequently asked questions" that come into our Technical Services group.

If you would like to submit a question, please forward it to webmaster@weil-mclain.com. For all current and obsolete product manuals, literature and wiring diagrams, please visit our website at www.weil-mclain.com.

As always, our knowledgeable Technical Services experts are available Monday-Friday 7:00am to 4:30pm cst at (219) 879-6561 for live technical support.

Q: What should I do if the combustion air pressure switch doesn't prove?

A: With fall weather approaching, many fresh air ducts become clogged with leaves and debris. Before changing the switch ensure the draft inducer fan (CGi, CGs, CGt and GV boilers) is clean, the motor turns freely, and there is no blockage in the combustion air duct, the flue passages and the vent stacks. Use a manometer to confirm the action of the switch matches the set point on the label. If the rating does not match, replace the air pressure switch.

Q: What should I do if the flame roll out switch fails?

A: DO NOT bypass the switch. The flame roll out switch is a safety mechanism that only opens if there is a blockage in the boiler flue passages. Check for blocked flue ways (oftentimes birds build nests in chimneys without screens) and clogged burners. Once all airways are clear, replace the flame roll out switch. If you do not have a replacement switch, red tag the boiler until a replacement switch is available.

Q: Why do I get an E04 error code on an Ultra Gas boiler when I turn the power off and on?

A: Turning the power off and back on when an Ultra gas boiler is in a hard lockout (E code) will result in an E04 error code being displayed. Always use the "Reset" button to reset the Ultra gas boiler from a hard lockout. Resetting the boiler will eliminate the E04 error.

Q: What are the most helpful tools used for boiler troubleshooting?

A: A combustion analyzer will allow you to confirm proper combustion, test for excess oxygen and carbon monoxide, and verify the gas valve set point. A milivolt-voltage meter will provide good flame reading and continuity testing capabilities, and a gas pressure gauge can confirm inlet pressure under operation on a gas burner or oil pressure gauge for proper oil pressure operation.

Q: Can I exhaust a direct vent Weil-McLain boiler under a deck?

A: No. Re-circulation of the flue gases into the boiler intake would result in fouled combustion. Flue gas condensate would also ruin the decking material. Weil-McLain venting rules are listed in each boiler's venting information and must be strictly followed. If you have a vent application that goes against a rule, or you have an unusual vent application, please call our Technical Service department BEFORE you do the installation to confirm it can be done safely- your local inspection code would red flag this as a violation. Also, make certain all vents have proper clearances as well as proper distance from the gas utility meter or regulator.

Q: What precautions should I take when replacing a commercial steam boiler?

A: Many older steam gravity return commercial boilers were oversized to accommodate system water capacity. Newer steam commercial boilers are more efficient and contain less water, thus a condensate receiver may be required in place of the old large gravity boiler to accommodate the excess water. Sizing a boiler based on the system radiation would be feasible if no heat problem existed prior to replacement. When sizing condensate, be sure to reference the chart provided in the installation manual.