



Quintessence Corporation

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FCX Oil-Fired Condensing Boilers



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Geminox



Condensing Boiler Technical Seminar

Presented by Lucky Distributing and Quintessence Corporation

Wednesday - April 25, 2018 - 9:00 to 5:00

**Oil Fired Condensing Boilers
Technology, Design, Installation, & Maintenance**

At Cold Climate Housing Research Center (CCHRC)



**COLD CLIMATE HOUSING RESEARCH CENTER
CCHRC**

1000 Fairbanks Street

No Cost - Coffee, Snacks, and Lunch Provided

Reservations needed for Limited Seating and Food

R.S.V.P. By email or Phone

jim.rom.ak@gmail.com - 907-388-2094

Oil Fired Condensing Boilers Technology, Design, Installation, & Maintenance

**Quintessence Corporation at CCHRC
Wednesday - April 25, 2018 - 9:00 to 5:00**

Course Description

Technology and Application

This portion covers Condensing Technology, principles involved, heat recovery, how it works, and why it is the most efficient choice in mainstream heating systems. The FCX will be introduced and discussions on heat transfer theory and technology, hydronics unique to condensing boilers, handling the condensate, and comparisons with conventional boilers will be made. Examples will be shown on these systems, including uses in new construction and retrofits with baseboard.

Design and Installation

This part covers design, installation for low temperature hydronic systems and the FCX. Heat emitters of various types, best practices, controls, pumping, venting and specifics on condensate handling will be discussed with wiring and plumbing diagrams. Mixing and set point temperature control will also be covered. This is all about how we achieve and optimize the principles discussed in the previous

Startup, Trouble Shooting, & Maintenance And What Could Possibly Go Wrong?

Boiler commissioning and setup consist of some things to do and some things to check that may save you a trip later. Control settings and burner adjustments for fuel pressure and air settings will be covered in depth.

Disassemblies for servicing, cleaning the primary and condenser, nozzle replacement, soot levels, trap maintenance and general inspections are discussed. Trouble shooting burner faults, safeties, and other problems, are covered. Special requirements for retrofitting of older boilers with the Riello discussed. And a factory tutorial on assembly and disassembly of the RDB burner will be shown.

Eight (8) Continuing Education Credits are expected for contractors.

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