Advanced Heating and Hot Water Systems

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RESURGAM CITY OF PORTLAND, MAINE

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 11/14/13

Mod Con Commercial Condensing Heating Boiler Submittal (1,000,000 / 1,700

JOB NAME: 443 CONGRESS STREET

LOCATION:

ARCH./ENGR.:

WHOLESALER: F W WEBB COMPANY

MECH. CONTRACTOR: GRANITE CORP.

MODEL NUMBER: MOD CON 1700

TYPE OF GAS: NATURAL

BTU/HR INPUT LOW - HIGH FIRE:

NOTES:

Heat Exchanger

- **All Stainless Steel 160 PSI ASME stamped construction. National Board listed.**
- **Gasketless heat exchanger design**
- **ASME 75 PSI relief valve**
- **Front service access to combustion chamber and burner**
- **Inlet and outlet temperature sensor**

Combustion System

- **Two Modulating burner systems 10 to 1 turndown – Offers built-in redundancy**
- **92% thermal efficiency (All Models)**
- **High-Grade Inconel burner design**
- **Spark ignition**
- **Models available for Natural or LP Gas**
- **Dual flame monitoring (Spark and Flame probe)**
- **Gas Valve pressure range 3 ½" minimum to 14" maximum Water Column**

Integrated Control System

- **926 Digital operating control with LED display**
- **LED indicators for System Pump – Boiler Pump – DHW Pump – System Fault – System Operation – Freeze Protection – Flame On – Fault Indication**
- **On/Off Switch**
- **Password protected**
- **Outdoor reset with indirect priority**
- **Multiple 120 volt pump outputs – boiler pump – system pump - DHW pump**
- **24 volt monitoring**
- **0-10 VDC input from a building management system**
- **Boiler output regulation (adjustment of boiler output down to 50% of rated capacity)**
- **Cascade up to 8 boilers**
- **Field wiring connection board / Cascade wiring CAT 3 or 5**

Additional Features

- **Superior condensate collection system with float switch (patent pending)**
- **A/C convenience receptacle for condensate pump**
- **10 year limited warranty**
- **Vents in stainless steel – PVC/CPVC (with optional adapter) – up to 150 equivalent feet (combined intake and exhaust)**
- **Built-in low water cut-off**
- **Adjustable leveling legs**
- **Flue / Water High temperature limit with Manual reset**
- **Dry contact for alarm output**
- **Blocked vent pressure switch**
- **Pressure and temperature gauge**

Optional Equipment

- ☐ **Indirect Sensor (Part # 7250P-325)**
- ■ **System Sensor (Part # 7250P-324)**
- ■ **6" Stainless Steel Outside Termination Vent Kit (Part # V3000)**
- ☐ **High and Low Gas Pressure Switch Kit with Manual Reset (Part # 7350P-600)**
- ■ **Flow Switch Kit (Part # 7350P-605)**
- ■ **U.L. 353 Compliant Low Water Cut-Off Interface Kit w/ Manual Reset (Part # 7450P-225)**
- ☐ **Alarm System to monitor any failure (Part # 7350P-602)**
- ☐ **Condensate Neutralizer (Part # 7350P-611)**
- ☐ **Boiler Caster Kit (Part # 7350P-604)**
- ☐ **PC Connection Cable w / Software (Part # 7350P-320)**
- ☐ **Modbus (Part # 7350P-629)**
- ☐ **Stainless to PVC Vent Adapter (6" - Part # 7350P-275, 8" Part # 7350P-375)**

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MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
MODCON1000	72-1/2"	20-1/2"	36"	13-3/4"	8-3/8"	46"	6"	13-5/8"	14-1/2"	33-1/4"	43-3/4"	66-3/4"	63-1/4"	43-3/8"	72"	10-5/8"
MODCON1700	72-1/2"	20-1/2"	36"	13-3/4"	8-3/8"	64-1/2"	8-1/4"	20"	18-3/4"	43-1/2"	62-3/8"	88-1/2"	63-1/4"	59"	73-1/2"	10-5/8"

NOTE: ALL DIMENSIONS ARE APPROXIMATE AND HEIGHTS DO NOT INCLUDE ADJUSTABLE LEGS.

MODEL	BTU/HR INPUT LOW FIRE	GROSS OUTPUT BTU/HR	NET I=B=R BTU/HR	THERMAL EFFICIENCY	BOILER WATER (GAL.)	SUPPLY/RETURN CONNECTION	GAS CONNECTION	VENT DIA.	SHIPPING WEIGHT
MODCON1000	100,000	1,000,000	818,000	92	8.4	3"	2"	6"	1010
MODCON1700	170,000	1,700,005	1,390,000	92	11.6	3"	2-1/2"	8"	1160

LP-428-C
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