

SUBMITTAL REVIEW FORM

PROJECT	72 Bishop Street Apartments
CWS PROJECT #	14.013
CONTRACTOR	Great Falls Construction
SUBMITTAL	48-230000, Boiler Package
DIVISION/PHASE	230000
DATE SUBMITTED	8/18/16
DATE REVIEWED	8/24/16
RESUBMITTED?	No
PREVIOUS DATE REVIEWED	

APPROVALS GENERAL NOTE:

Submittals are not contract documents. Review of the Contractor's Submittals by CWS Architects (CWS) and its consultants is for the limited purpose of checking for general conformance with the intent of the Contract Documents. Review is not conducted for the purpose of determining accuracy and completeness of other details such as dimensions, quantities, etc. Review does not constitute approval of assembly in which the submittal serves or imply approval of the Contractor's means, methods, duties and coordination responsibilities. Approval does not authorize changes to Contract Sum or Contract Time.

The Contractor, in so providing CWS with the attached Submittal and upon accepting its return, represents and certifies that the Submittal conforms to the Contract Documents and acknowledges that CWS relies on said certification in reviewing the Submittal. Submittals that do not conform to the Contract Documents but have been represented by the Contractor to be in conformance shall be considered rejected by CWS regardless of markings below and shall be resubmitted as a Substitution Request or with a conforming Submittal.

<input type="checkbox"/> Approved (No Exceptions Taken)
<input type="checkbox"/> Approved as Noted (Make Corrections)
<input type="checkbox"/> Revise and Resubmit (Identify Changes)
<input type="checkbox"/> Not Approved (Rejected)
<input checked="" type="checkbox"/> Reviewed by Consultant: (see below)

Reviewing Consultant (see review comments): **Bennett Engineering, Inc.**

COMMENTS/NOTES:

1. Reviewed by CWS for information purposes.

Stephen Schuchert
CWS Architects



BENNETT ENGINEERING

MECHANICAL • ELECTRICAL
(207) 865-9475

- NO EXCEPTIONS TAKEN
- MAKE CORRECTIONS NOTED
- AMEND & RE-SUBMIT

- SUBMIT SPECIFIED ITEM
- REJECTED-SEE REMARKS
- SEE COMMENTS BELOW

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH THAT OF OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

Scott M. Rheault
SIGNATURE

8/22/16
REVIEW DATE

Project: Avesta 72 Bishop Street

Submittal: 48-230000-2.6 Boiler Package

Comments: NONE



GREAT FALLS CONSTRUCTION

Contractor's Initial Submittal Review

To: CWS Architects
Cc: file, jobsite (approved only)
Project Name: Avesta Bishop LP
Architect's Project #: 72B Contractor's Project # 16016
Submittal #/Description: 48-230000-2.6 Boiler Package

SHOP DRAWING REVIEW

Great Falls Construction hereby certifies that this submittal has been reviewed, checked and approved for compliance with the contract documents, except as noted below:

No exceptions Taken	X
Make Corrections Noted	
Amend and Resubmit – See Remarks	
Rejected – See Remarks	
Additional Information – See Remarks	

Remarks:

Date Submitted: 08/18/2016

Signed by: Wendi Griswold



33 Dowd Rd Unit #1
Bangor, ME 04401
Ph : 207-992-9250

Submittal

Spec Section No: 230000

Paragraph No: 2.6

Submittal No: 9

Revision No: 0

Sent Date: 8/9/2016

Job: C-16-3451

72 Bishop Street Apartments

72 Bishop Street

Portland, ME

Spec Section Title: HVAC

Submittal Title: Boiler Package

General Contractor:

Great Falls Construction
Karen James

Supplier:

F. W. Webb Company
Tracy, Lenny
69 Target Industrial Circle
Bangor, ME 04401
Ph: (207)947-6905

Architect

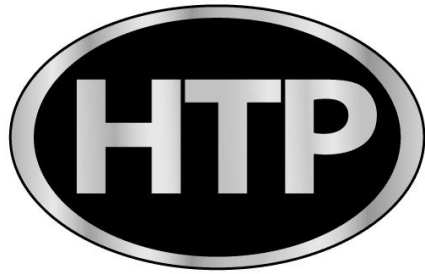
CWS Architects
Walter Benedict
Ph: 774-4441

Architect's Stamp

Engineer

Bennet Engineering
Stephen P. Doel
PO Box 297
Bennett Road
Freeport, ME 04032
Ph: (207)865-9475

Engineer's Stamp



Elite
Heating Boiler



Elite FT Heating Boiler

JOB NAME: Bishop Street Apartments

LOCATION: Portland, ME

ARCH. / ENGR.: Bennett Engineering

WHOLESALER:

MECH. CONTRACTOR:

MODEL NUMBER: EFT285

TYPE OF GAS: Natural

BTU/HR INPUT LOW - HIGH FIRE: 57,000 - 285,000

NOTES: B-1, B-2

Heat Exchanger

- All Stainless Steel ASME “H” Stamped Construction
- National Board listed
- Low pressure drop, gasketless, vertical tube combustion heat exchanger design – provides maintenance-free operation on internal buildup of material inside the combustion chamber
- 30 PSI Relief Valve, EFT-55 – 199
- 80 PSI Relief Valve, EFT-285 and 399 models

Combustion System

- Modulating burner with up to 5 to 1 turndown
- Up to 96.3% AFUE
- High Grade Burner Design
- Spark Ignition
- Models Available for Natural or LP Gas
- Dual Flame monitoring (Spark and Flame probe)

Integrated Control System

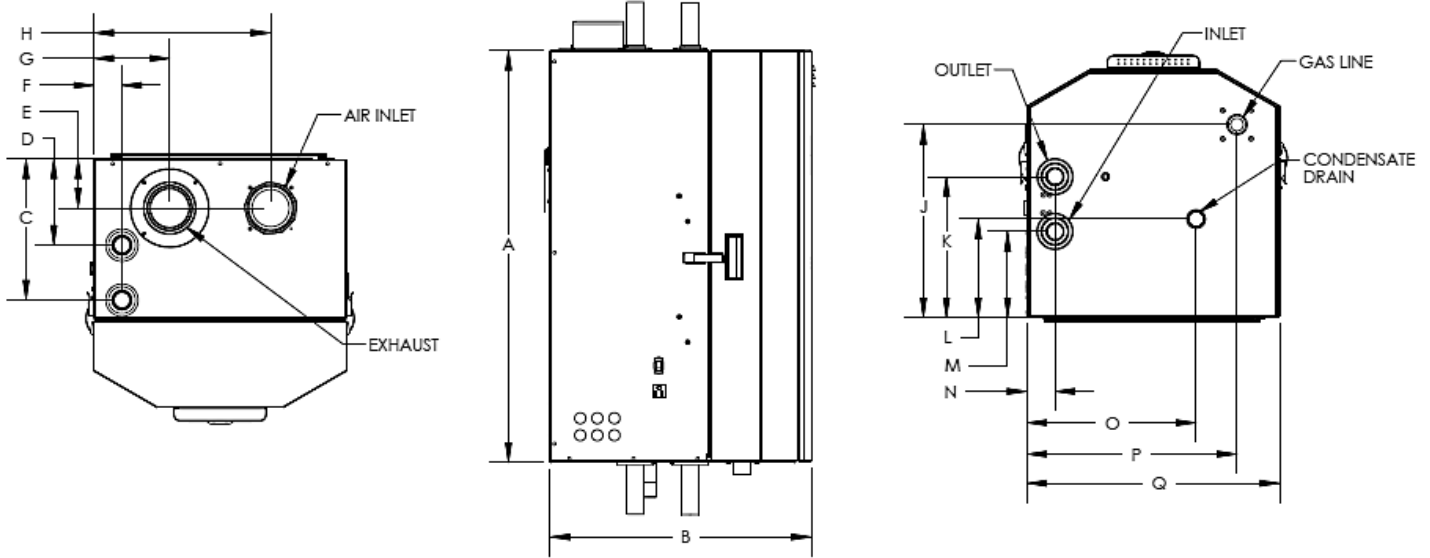
- Digital operating control with 2 line / 20 character LCD text display to program and monitor boiler operation
- Three boiler set point temperature inputs– Boiler Pump – System Pump – DHW Pump / Domestic Hot Water priority with timing
- Programmable settings: Outdoor Reset Curve – DHW Supply Set Point – Step Sequence for delayed response for smart zones – Boost Response - Cascade up to 8 boilers
- Field Connection Board – Line voltage terminal strip with 120 VAC / 60 Hertz power / low voltage terminal strip with multiple contacts - Cascade wiring CAT 5 / CAT 3
- 24 Volt monitoring
- 0-10 VDC input for Building Management System
- Boiler output regulation (Adjustment of boiler output down to 50 percent of rated capacity)
- Low water protection device
- Password Security - Flashing maintenance indicator with optional programmed installer contact information
- Time Clock / Data logging – Last 10 fault codes with date and time
- Customized freeze protection parameters
- Modbus enable through external adapter to monitor or control boiler through BMS system

Additional Features

- Superior condensate collection system with overflow protection switch
- Vents in Plastic PVC - CPVC - Stainless Steel – ULC S636 flexible polypropylene vent liner (chimney lining only)
- Vents up to 200 combined equivalent feet
- 12 Year Limited Warranty
- Manual reset high temperature limit
- Dry contact for alarm output
- Included wall mount bracket

Optional

- System / Pipe Sensor (Part # 7250P-324)
- Flow Switch (7450P-213)
- Condensate Neutralizer (CN4-600)
- U.L. 353 Compliant Low Water Cut-Off Interface Kit w/ Manual Reset (



MODEL	MAX MBH	MIN MBH	AFUE	HEATING CAP. MBH	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
EFT-285	285	57	95.0	262	32-5/8"	20-5/8"	11-1/8"	6-7/8"	3-7/8"	2-1/4"	6"	14"	15-1/4"	11-1/8"	7-3/4"	6-7/8"	2-1/4"	13-3/8"	16-5/8"	20"

MODEL	GAS CONNECTION	WATER CONNECTION	AIR INLET	VENT SIZE	PSI RATING	SHIPPING WT. (LBS)
EFT-285	1"	1-1/4"	3"	3"	80 PSI	203

ALL DIMENSIONS ARE APPROXIMATE
* THERMAL EFFICIENCY (NOT AFUE)

LP-387-K2
07/12/13

NOTE: HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.



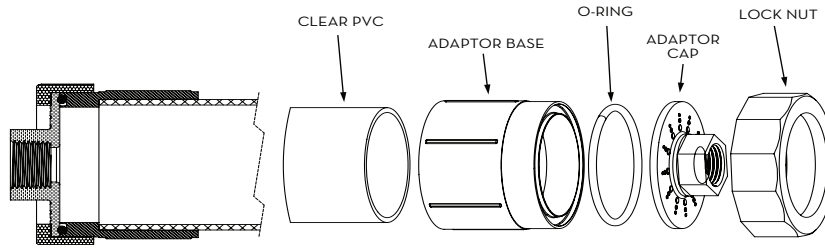
Submittal Data Information

Model CN4-600

Effective: August 1, 2015

Job: Bishop Street Apts. Engineer: Bennett Eng. Contractor: _____ Rep: Emerson Swan

Description	Part #	Included
600 MBH Tube Model	CN4-600	(2) 1/2" MNPT x 3/4" PVC Adaptors
600 MBH Recharge Kit	60RCK	(2) Replacement O-rings



THE CARTRIDGE

An effective condensate neutralizer starts with the cartridge—it should be easy to install and allow easy access not just for replacing the media but for periodic visual inspection. Neutra-Safe® condensate neutralizers also incorporate the exclusive, patent pending integrated unions with O-rings. On either end of the cartridge, these lock rings are designed to allow the service technician to easily replace the media without disturbing the drain piping.

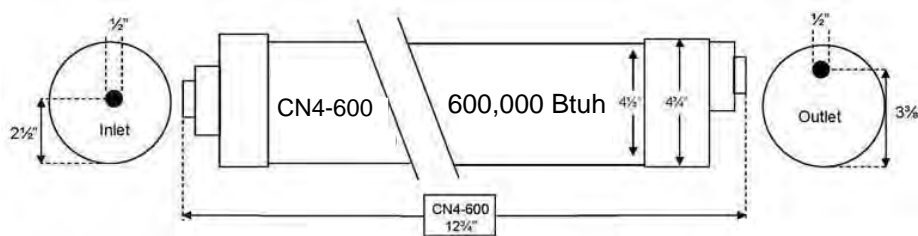


THE MEDIA

Our condensate neutralizers contain clean screened calcite and magnesium oxide. Calcite works by having the acidic aqueous solution come in contact with its surface. It raises the pH by dissolving some of the calcite (calcium carbonate) releasing carbon dioxide and various salts. Some of the salts stay entrained in the aqueous solutions and some may settle to the bottom of the neutralizer. An advantage of calcite is that it is self-limiting and does not over correct causing a high pH condition which is undesirable.



We add granular magnesium oxide (FloMag PWT) to our media for better performance. Calcite and magnesium oxide are used globally in the treatment of potable (drinking) water for raising pH.



All dimensions ± 1/8"

