

SUBMITTAL REVIEW COMMENTS

Contract: CRO-557H

Contractor: Stresscon Construction Inc.

Shop Drawing
Submittal No. **15513-001** Review Cycle: **000**

e-Builder
Package No. #-15513-001-000

Title/Description: Boiler – Direct Vent

Manufacturer/
Supplier: Evergreen Pro

Drawing No(s): NA

Reviewer: R. Chin

Date: 01/26/2024

WM-30 WATERSHED IMPROVEMENTS	
DESIGN AND DESIGN SERVICES DURING CONSTRUCTION FOR CAPITAL PROJECT WM-30	
CONTRACT:	CRO-557H Waterfowl Management Program Building and Paving Valve
SHOP DRAWING NO.: 15513-001-000	
Revise and Resubmit	
Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the contract documents. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.	
DATE:	1/26/2024
BY:	Christakis Roumbas

Comments:

Comment numbering is preserved between review cycles.

Hot Water Boiler should be submitted under Specification Section 15513- Hot water Boilers. The Engineer of Record is providing review comments under the correct Specification Section. Please use the correct Specification section for the revised submittal

1. Confirm boiler is listed in accordance with ANSI Z21.13 or UL-795, ASME CSD-1, ASME Boiler and Pressure Vessel Code Section IV and Section VIII.
2. Specify on submittal which optional equipment is included and cross out irrelevant information.
3. BTU/HR output should be 330000, not 39900.
4. Per spec 15513 section 1.07 please indicate what the manufacturer's recommended spare parts are and include with submittal.
5. Submit under separate cover O&M Manual, reports of certified test shops, seismic and wind load calculations, and control system wiring diagram.

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EVERGREEN® Pro

SUBMITTAL SHEET

JOB NAME _____

LOCATION _____

ARCH. / ENGR. _____

WHOLESALER _____

MECH. CONTRACTOR _____

MODEL NO. _____ GAS TYPE _____

BTU/HR INPUT _____ BTU/HR OUTPUT _____

NOTES _____

STANDARD FEATURES

Boiler

- Stainless steel fire-tube heat exchanger
- Non-metallic heat exchanger base
- Floor standing or wall-mount option with kit (220-399)
- Natural or LP gas
- Negative regulated combustion
- 5 to 1 turndown ratio (110-155)
- 10 to 1 turndown ratio (220-399)
- Boiler circulator/low water cut-off

Control Features

- Easy installation with Setup Wizard
- Zone and/or priority based control
- Three thermostat inputs
- Outdoor reset for each priority
- Rate adjustable per priority
- 0-10V input (modulation or setpoint)
- Four total outputs
 - 1 dedicated boiler circulator output
 - 3 additional outputs can be used with circulators, dampers or system aux
- Aux inputs - flow switch or end switch

- Aux outputs - system pump or damper
- Modbus connectivity
- Additional heat demand contact

Multiple Boiler Features

- Up to 8 boilers, multiple system
- Series, Parallel or SmartSequencing®
- Lead boiler rotation
- 2 network priorities for the system
- 2 local priorities per boiler
- 24 zone inputs and outputs with 8 total cascaded boilers
- Aux inputs - flow switch or end switch
- System aux outputs - system pump or damper

Venting*

- Direct vent 100 ft. for intake and 100 ft. for vent
- Dual pressure zones (sidewall air intake, roof vent)
- Common combustion air
 - *Please call your Weil-McLain® technical representative for additional venting options.*
- Direct exhaust

Jacket Assembly

- Fully removable jacket front door
- Adjustable boiler legs

- Mounting bracket ready for wall-mount kit (ships standard 70-155; optional kit 220-399)
- Condensate trap

Boiler Circulators

- Taco ECM 007e (10)
- Taco ECM 0015e (155)
- Taco 0014 (220/299)
- Taco 0013 (399)

Optional Equipment

- Wall-mount kit (220-399)
- Concentric vent kit
- Condensate neutralizer kit
- Sidewall vent/air termination kit
- Maintenance kits
- Water treatment- inhibitor & test kit
- Propane conversion kit
- Prefab manifold kits
- Modbus converter to BacNet or Lonworks
- Parts kit

EVERGREEN® Pro

DIMENSIONS

MODEL 110-155



MODEL 220-399



EVERGREEN® Pro

SPECIFICATIONS

MODEL	EVG 110	EVG 155	EVG 220	EVG 299	EVG 399
CSA INPUT (MBH)	110	155	220	299	399
DOE HEATING CAPACITY (MBH)	101	143	206	280	383*
NET AHRI (MBH)	88	124	179	243	333
DOE AFUE	95.0%	95.1%	95.0%	95.0%	96.5%*
VENT MATERIAL	PVC, CPVC, PP, SS (AL29-4C)				
VENT/COMBUSTION AIR CONNECTION DIAMETER	3"	3"	4"	4"	4"
VENT/COMBUSTION AIR PIPE SIZE	3"	3"	3" or 4"	4"	4"
VENTING LENGTH	100'	100'	100'	100'	100'
MIN. RECOMMENDED PIPE SIZE	1"	1¼"	1¼"	1½"	1½"
SUPPLY/RETURN TAPPING	1"	1¼"	1½"	1½"	1½"
GAS CONNECTION SIZE	½"	½"	¾"	¾"	¾"
APPROX. SHIPPING WEIGHT (Lbs.)	125	145	215	260	260
WATER VOLUME (Gal.)	2.5	3.2	4.6	7.0	6.7

**Evergreen Pro 399 ratings are gross output and combustion efficiency*

