



SHIELD™
WATER HEATER
Submittal Sheet
SWH-Sub-03a

SHIELD COMMERCIAL GAS WATER HEATER

JOB NAME Webster University Science Building
LOCATION _____
ENGR. _____
WHOLESALE Atlas Supply Company
MECH. CONTRACTOR Deluca Plumbing Company
MODEL NO. SNA401-125
TYPE GAS Natural Gas
Btu/hr INPUT 399,999
RECOVERY RATE IN GPH 465 @ 100 °F RISE
NOTES

Standard Features

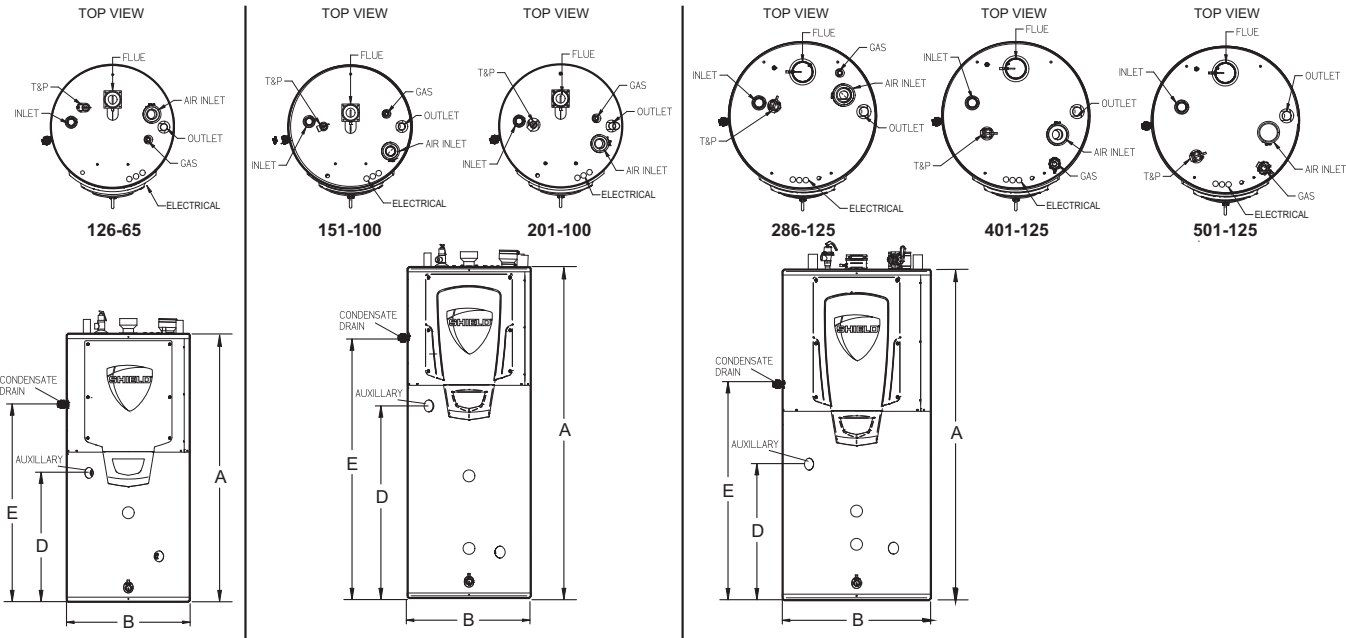
- 96% Thermal Efficiency
- Modulating Burner with 5:1 Turndown
- Operates at Temperatures up to 180°F for Sanitizing Applications
- Stainless Steel Heat Exchanger
- Glass-Lined Steel Tank
- Magnesium Anode Rods
- 150 PSI Working Pressure
- ASME Construction (SNA151-501)
- ASME Temperature and Pressure Relief Valve
- Zero Clearances to Combustible Material
- PVC, CPVC, Polypropylene and Stainless Steel Venting up to 100 Equivalent Feet
- Direct-Vent Sealed Combustion
- Rooftop and Sidewall Venting
- Sidewall Vent Termination
- Advanced SMART Control, with:
 - LCD Display
 - Time Clock
 - Night Setback
 - Alarm Contacts
 - Runtime Contacts
 - Manual Reset High Limit
 - 3 Water Temperature Sensors
 - Flue Temperature Sensor
 - Contacts for Louvers
 - Adjustable Pump Delay
 - Security Protection
- Low-NOx Operation
- Low Gas Pressure Operation
- Direct-Spark Ignition
- Certified for Installation on Combustible Floors
- Full Port Brass Drain Valve
- 8-Foot Power Cord
- 3-Year Limited Warranty
- 1-Year Parts Warranty

Optional Equipment

Place an X in the box by all options that apply

- ☐ Alarm Bell
- ☒ Concentric Vent Kit
- ☐ Condensate Neutralization Kit
- ☐ Low Water Cutoff
- ☐ Tank Side Tappings for Alternate Heat Source

SHIELD Commercial Gas Water Heater Dimensions & Specifications



Model Number	Btu/hr Input	Capacity (Gal)	GPH @ 100° Rise	First Hour	A	B	D	E	Gas Conn.	Water Conn.	Air Inlet	Vent Size	Shipping Wt. (lbs.)
SNR126-065	125,000	65	145	197	60-1/4"	28"	29-1/2"	45-1/4"	1/2"	1-1/2"	3"	3"	508
SNR151-100	150,000	90	175	247	75-1/2"	28"	44"	59-1/2"	1/2"	1-1/2"	3"	3"	588
SNR201-100	199,999	90	233	305	75-1/2"	28"	44"	59-1/2"	1/2"	1-1/2"	3"	3"	601
SNA151-100*	150,000	90	175	247	75-1/2"	28"	44"	59-1/2"	1/2"	1-1/2"	3"	3"	645
SNA201-100*	199,999	90	233	305	75-1/2"	28"	44"	59-1/2"	1/2"	1-1/2"	3"	3"	657
SNA286-125*	285,000	120	332	428	75-1/2"	34"	31"	49"	3/4"	2"	4"	4"	831
SNA401-125*	399,999	120	465	561	75-1/2"	34"	31"	49"	1"	2"	4"	4"	889
SNA501-125*	500,000	120	582	678	75-1/2"	34"	31"	49"	1"	2"	4"	4"	909

Change N to L for LP gas. Field convertible to LP Gas Electrical Requirements: 120 VAC/60Hz/Phase *A = ASME Construction All Information is subject to change.

TABLE OF CONTENTS

VENDOR	VENDOR PART	DESCRIPTION
GWH		
LOCHINVAR CORPORATION	SNA401125	SNA401125 WATER HEATER
WATTS REGULATOR COMPANY	LF3012	LF3012 2" FXC DIELECTRIC UNION
WATTS REGULATOR COMPANY	PLT35	PLT35 EXPANSION TANK
LOCHINVAR CORPORATION	KIT3087	KIT3087 CONDENSATE NEUTRALIZATION

Manufacturer cut sheet not included in this submittal.

Verify correct size

Manufacturer cut sheet not included in this submittal.

SECTION NAME:
GWH

Manufacturer cut sheet
not included in this

ITEMS CONTAINED IN SECTION:

- SNA401125 WATER HEATER
- LF3012 2" FXC DIELECTRIC UNION
- PLT35 EXPANSION TANK
- KIT3087 CONDENSATE NEUTRALIZATION

Verify correct size

Manufacturer cut sheet not
included in this submittal.



Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: November 15, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)

Project No. WT 14127.01
WES 607

☐

UPS

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Courier

☒

Email

Copies	No.	Description
1 PDF	223400P01B	(Submittal No.'s:)
		(Cannon #22 3400-010-REV002) - (Paric #15051-0317) – (WES #607)
		➤ Water Heater Product Data Resubmission
		(Fuel Fire Domestic Water Heater)

***Remarks: See Submittal Review from Webb Engineering.**

c: Kelvin Patel
Kpatel@cannondesign.com

☒

***Reviewed**

☒

***No Exceptions Taken**

☐☒

***Make Corrections As Noted,
No Resubmittal Required**

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. 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.



1400 S. 3rd Street, Suite 201
St. Louis, Missouri 63104
Phone: (314) 588-0600
Fax: (314) 588-0604

Letter of Transmittal

To: **wtashop@wmtao.com**

From: **Mike Whitworth**

Date: **November 13, 2016**

Re: **Webster University ISB**

WES No: **607**

☐ For your Files

☐ For Review

☐ Please Comment

☐ Please Reply

Item No.	Description	No. of Copies	Date
1	Shop Drawing Review – REV 002 223400 Fuel Fire Domestic Water Heater	1	11-13-2016

•Signature: Mike Whitworth

**WEBB
ENGINEERING
SERVICES INC.**www.webb-engineering.com

The review of this submittal is limited to the general conformance with the designated design concept and intent of this project and with the general compliance of the information provided in the contract documents. All comments, remarks and notations made on the submittal(s) as a result of this review do not relieve the contractor from full compliance with requirements of the contract documents. Approval for a specific item shall not include approval of an assembly of which the item is not a component. The contractor is solely responsible for rough-in and installation confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of this work with that of other trades on this project; and in a safe and satisfactory manner. All work shall be installed in full compliance with the manufacturer's recommendation, Federal, State and Local rules and regulation and the Authority Having Jurisdiction (AHJ) and applicable adopted codes and standards.

PROJECT NAME: Webster University ISBLOCATION: St. Louis MissouriCLIENT PROJ. No.: N/AWES PROJ. No.: 607

223400
Fuel Fire Domestic
SPEC SECTION: Water Heater

SUBMITTAL ITEM:: See Below -CONTRACTOR: Deluca Plumbing, LLC.CTR. SUBMITTAL # 22 3400-010 REV002SUBMITTAL DATE: November 09, 2016DATE RECEIVED: November 10, 2016RECEIVED VIA: E-MailRECEIVED FROM: WTADATE RETURNED: NOVEMBER 13, 2016RETURNED VIA: E-MAILRETRURNED TO: WTASHOP@WMTAO.COM

STATUS KEY:

NEC	MCN	AAR	REJ	REV	NO EXCEPTION TAKEN	
					MAKE CORRECTIONS NOTED, NO RESUBMITTAL:	
					AMEND AND RESUBMIT	
					REJECTED, SEE REMARKS:	
					REVIEWED ONLY	
					ITEM	REMARKS
X					Domestic Water Heater Lochinvar Model - SNA401125	
X					Dielectric Union Watts Model - LF3012	1. Manufacturer cut sheet not included in this submittal.
	X				Expansion Tank Watts Model - PLT35	1. Verify correct size.
X					DWH Neutralization Kit Lochinvar Model - KIT 3087	1. Manufacturer cut sheet not included in this submittal.

REVIEWED BY: Michael R. WhitworthDATE: November 13, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0317

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 11/09/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Water Heater Product Data ReSubmission

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		223400-010	2		11/09/2016	Water Heater Product Data ReSubmission	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

Shop Drawing Submittal

Project Name: WEBSTER ISB

Specification # **223400-02**

Specification Description: Domestic Water Heater

Date: 11-9-16

General Contractor / Construction Manager: PARIC

ARCHITECT: KWA

ENGINEER: William Tao / Webb

Contractor: DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis, MO 63114

Supplier: Atlas

Manufacturer: Lochinvar

Reviewed & Approved by: DeLuca Plumbing 11-09-16

Action: Forward to GC/CM for Review & Approval

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