

Page 1 OF 4

PROPOSAL

330	neida Schools 0 Claude Terry Drive neida, TN 37841	Proposal No: TT0115GW01			
SUBJECT	Replace Hot Water Boiler With Atlas Model A100	DATE: January 21, 2015			

Boiler Supply Company offers to install a replacement for the existing Bryan Hot Water Boiler with an Atlas Model A100 Condensing Boiler by Ajax Boiler Inc. This boiler is both very efficient and environmental friendly. Installation and start-up are also offered.

ITEM 1: ATLAS MODEL A100 HOT WATER BOILER

EQUIPMENT

We offer to supply and install one (1) Atlas Model A100 Hot Water Boiler manufactured by Ace Heating. The boiler is rated for an input of 1,000,000 BTU/hr. The Atlas A100 boiler performs dependably and quietly, offering high efficient for space heating, domestic and process hot water. Modular design, robust controls and low emissions makes this boiler an excellent choice for a hot water boiler. The offered Atlas Model A100 has the following features:

- 1. Boiler design is a cylindrical finned water tube coil.
- 2. Boiler heating surface is copper construction.
- 3. Copper fin tubes with 1.25" ID.
- 4. Unit can be used for domestic water service.
- 5. Fired by natural gas, site pressure required is 5-14" W.C.
- 6. Input is 1,000,000 BTU/hr.
- 7. Burner has variable speed and provides full modulation, 7.5:1 turndown.
- 8. Knit metal fiber burner for high efficiency and low emissions.
- 9. Thermal efficiency is 90% with inlet water temperature of 100 F and 100% firing rate.
- 10. Thermal efficiency is 87% with inlet water temperature of 120 F and 100% firing rate.
- 11. NOx emissions are less than 9 ppm.
- 12. CO emissions are less than 50 ppm.
- 13. Boiler designed and manufactured in accordance with ASME Section IV.
- 14. Maximum allowable working pressure is 160 psi.
- 15. Maximum allowed water temperature is 210 F.
- 16. Sealed combustion chamber for increased efficiency and reduces emissions.
- 17. Venture air inlet provides for fuel and air pre-mixing before the combustion chamber.
- 18. Fuel-air ratio is controlled by a combination of blower speed and gas control valve.



Page 2 OF 4

- 19. Flame safe guard controller with integrated operating, modulating and high limits safety controls.
- 20. Keyboard Display Interface with LCD Panel and 4 button display.
- 21. Display provides boiler status including: sequence, lockouts, alerts, set points, controlled temperature and flame signal.
- 22. Alarm and silencer.
- 23. Dimensions of the boiler cabinet: 29" width; 34" depth; and 54" height.
- 24. Shipping weight of boiler is approximately 1,000 lbs.
- 25. Stainless steel jacket.
- 26. Safety relief valve.
- 27. Electrical voltage requirements: 120 volt/ 1 phase/ 60 Hertz.
- 28. Recommend hot water flow rate is 50 GPM.
- 29. Pressure drop in the HW Boiler for 50 GPM is only 13 feet of head.
- 30. Condensing Kit to store and process condensate.
- 31. Circulation Pump is not provided.
- 32. Exhaust vent size is 8" ID.
- 33. Lead time until delivery is 6 weeks.
- 34. Lead times are subject to change and must be verified at time of order entry.

INSTALLATION

Installation services shall include the following:

- 1. Order the replacement Atlas boiler.
- 2. Receive the Atlas boiler and provide temporary storage.
- 3. Deliver the Atlas boiler to the work site.
- Disconnect electrical power from the existing Bryan boiler.
- 5. Disconnect water piping from Bryan boiler.
- 6. Disconnect the natural gas piping from the Bryan boiler.
- 7. Disconnect the exhaust stack from the Bryan boiler.
- 8. Remove the Bryan boiler and dispose.
- 9. Set the Atlas boiler in place.
- 10. Connect the new boiler to the existing stack.
- 11. Connect electrical power to Atlas boiler.
- 12. Connect water piping to the Atlas boiler.
- 13. Connect natural gas piping to the Atlas boiler.
- 14. Commission the Atlas boiler.
- 15. Train the customer employee on the operation of the Atlas boiler.
- 16. Clean up work site.

PRICE, ITEM 1, EXWORKS FACTORY (Freight Included) \$ 31,421.00



Page 3 OF 4

ITEM 2: STACK FOR CONDENSING BOILER

We offer to supply and install Model CS Boiler Exhaust Stack by Van Packer. This stack is designed for a Condensing Hot Water Boiler. This stack is a double wall design with one inch air gap. Features of the offered Model CS Stack are as follows:

- 1. Double wall design with one inch air gap.
- 2. Inner material is 24-gauge VP1738 stainless steel.
- 3. VP1738 is suited for condensing conditions.
- 4. Outer shell material is 24-gauge Aluminized Steel
- 5. Insulation is 1" air gap
- 6. Stack has 8" ID.
- 7. Stack height is 21 feet.
- 8. Included is 90 Boot Tee, qty. 1
- 9. Included is Rain Cap, qty. 1
- 10. Approximate lead time until delivery is 3 weeks

PRICE, ITEM 2, EXWORKS FACTORY (Freight Included) \$ 4,810.00

If you have any questions, then please contact me. Please see the Boiler Supply Company's Terms and Conditions which are shown below as they are an integral part of this proposal.

Sincerely,

Gene Webb Account Manager Boiler Supply Company (865) 363-3936

ACCEPTED

Company:		
Ву:		
Title:		



Page 4 OF 4

Boiler Supply Company Standard Terms and Conditions

- As an option, if work is done during overtime or weekends, price will be <u>extra</u>. Any additional labor or parts not included in this quote will be charged on a time and material basis.
- Prices quoted herein do not include Federal, State, and Municipal, Sales, Use, Occupational, Privilege or similar taxes based on
 or measured by gross proceeds, sales or material cost. If the cost of the aforementioned taxes is incurred by the seller, it will be
 added to the foregoing prices where applicable.
- Terms of payment are net 30 days for proposals totaling less than \$20,000.00
- Terms of payment for proposals totaling more than \$20,000.00 will require progress payment.

Progress payments are indicated below for equipment only proposals:

20% on Order Placement Due Net 30 days from date of invoice
 30% on release for production Due Net 30 days from date of invoice
 50% upon readiness to ship Due Net 30 days from date of invoice

Progress payments when Installation or Labor is required with the supplied equipment:

40% on Order Placement Due Net 30 days from date of invoice 50% on Completion of installation Due Net 30 days from date of invoice

10% on Commissioning/startup or within 10 Days of completion of installation, Whichever occurs first.
 Due Net 30 days from date of invoice

- Prices quoted herein are firm for a period of 30 days from the date of this proposal. In the event we are honored with your order, please acknowledge acceptance of this quotation and terms by signing one copy and return with your purchase order.
- If more than 30 days are required for completion of this project, partial billing will be submitted each month based on the value of labor, materials and equipment incorporated in the installation and/or materials and equipment delivered to the job site prior to the invoice date
- The installation and operation of the above described device must comply with applicable laws, rules and regulations. The Chief Boiler Inspector in each state is the Jurisdictional Authority for the administration and enforcement of the requirements in his state. If you have any doubts as to compliance, please contact the Chief Boiler Inspector for the state in which the device is to be installed.
- EXWORKS: The purchaser is responsible for the equipment once it has been loaded for delivery at the factory. The purchaser receiving the items listed above is responsible for all Coordination of delivery and unloading.

Boiler Supply Company will provide the purchasers contact information to the freight company and provide the purchaser with the freight carrier information and tracking # if available.

Boiler Supply Company is not responsible for any charge, fees or penalties arising from delays in manufacturing, shipment, delivery or coordination of delivery.



Cookeville Heating & Cooling Services, LLC

347 East Stevens Street • Cookeville, TN 38501-3541 931-528-5514 • 931-526-2408 (Fax)

PROPOSAL

Date: January 9, 2015

PURCHASER:	Oneida School Board	PHONE:	
ADDRESS:	175 Monogard dr	CITY:	Oneida TN
JOB NAME:	Elementary School	PHONE:	
JOB ADDRESS:		CITY:	SAME

David

Boiler replacement

Remove Bryan 900MBH boiler and replace with a Lochivar 800MBH 94% efficient boiler. Reconnect to the existing gas, electrical and water piping. Modify flue and water piping as needed to make all connection. Includes all material, labor, start up and check operation.

Price \$ 27,900.00

Lochinvar KNIGHT KBN801 Heating Boiler natural gas fired with 800 000 Btu/Hr input 752 000 Btu/Hr output. Condensing design with up to 94.0% Thermal Efficiency 5:1 Turndown ASME Stainless Steel Heat Exchanger Direct Spark Ignition ASME pressure relief valve PVC Venting SMART SYSTEM Control Password Security Natural/LP gas Conversion Kit Outdoor Reset Sidewall Vent Terminals 0-10 Vdc input Contacts on any Failure 3 Pump Control Pump Relay w/ Freeze Protection Low NOx operation.

		Upon completion of job				
		TERMS				
		//SIGNED//				
ACCEPTED BY	 DATE	JERRY DRAPER, ACCOUNT MANAGER				

Any additional repairs will be billed on a time and material basis.

This proposal is valid for 10 days

ALL LABOR ON REPAIR WORK WILL BE WARRANTIED FOR A PERIOD OF 90 DAYS UNLESS OTHERWISE STATED. ALL PARTS WILL BE WARRANTIED PER MANUFACTURER'S WARRANTY. IT IS FURTHER UNDERSTOOD THAT IN THE EVENT IT IS NECESSARY FOR THE SELLER TO EMPLOY AN ATTORNEY TO ENFORCE THE SELLER'S RIGHTS IN ANY PARTICULAR IN CONNECTION WITH THE TERMS OF THIS AGREEMENT, THEN IN SUCH EVENT THE PURCHASER WILL BE RE SPONSIBLE FOR ALL EXPENSES INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES NECESSARY TO ENFORCE THIS AGREEMENT.

Sign In Order Status Customer Service



FREE SHIPPING ON ORDERS OVER \$300

Enter Product or SKU #

(0)

Radiant Heat & Heating Supplies Heating Supplies

Boilers High Efficiency Gas Boilers Lochinvar Boilers...



654,000 BTU Output Knight XL High Efficiency **Boiler**

SKU: KBN801

Brand: Lochinvar

- Lochinvar

FREE SHIPPING On This Item

Be the first to Write a Review

QTY

PRICE

\$17,349.95 / each

In Stock! Ships in 24-48 Hours (5 Available) **

Overview

Reviews

Product Q & A

Videos

Resources

BTU Calculator

Brochure

Product Overview

Submittal Sheet

Install Instructions

User Guide

Designer Guide

Wiring Guide

Service Manual

Replacement Parts List

Pump Selection Chart

Warranty Info

Specs

Fuel Type:

Natural Gas

Efficiency:

94%

System Type:

Hydronic (Water)

Features:

Direct Vent

Condensina

El/Spark Ignition

Depth (Inches):

45-1/4"

Vent Size: Water

Connection:

BTU Input:

DOE Rating:

IBR Rating:

752000 654000

800000

Boiler Type:

High Efficiency

Description for Lochinvar KBN801

Lochinvar's Knight XL Boilers Feature:

- · Modulating Burner With 5:1 Turndown
- · ASME Stainless Steel Heat Exchanger
- · Direct-Vent Sealed Combustion
- · 50 psi Relief Valve
- · Adjustable High Limit With Manual Reset
- · Flow Switch
- · Temperature & Pressure Gauge
- · Direct-Spark Ignition
- · Low NOx Operation
- · Low Gas Pressure Operation
- · Zero Clearances to Combustibles
- · Easy Access Terminal Strip
- · Natural to LP Conversion Kit
- · Inlet & Outlet Temperature Sensors
- · Low Water Flow Indication
- · Domestic Hot Water Prioritization
- · Adjustable Leveling Legs
- · Sidewall Vent Terminals
- · On/Off Switch
- · Contact On Any Failure
- SMART SYSTEM Digital Operating Control

SMART SYSTEM Digital Operating Control Features:

- · 2 line, 16 Character LCD Display
- · Password Security
- · Built In Cascading Sequencer
- · Building Management System Control
- · 0-10 VDC Input Control
- Outdoor Reset

Vent Type: Direct Vent
Width (Inches): 15-1/2"
Height (Inches): 42.5
Gas Connection: 1"

- · Night Setback
- · Three Pump Control (System, Boiler & DHW)
- · Pump Relay With Freeze Protection
- · Product Service Indicator
- · Field Connection Versatility
- · Optional PC Or Pocket PC Software

Product Specifications:

- · Floor Standing
- · Gallon Capacity: 5.7
- · Heating Surface (Sq.Ft.): 65.3
- · Water Connections: 2"
- · Drain: 3/4"
- Max Working Pressure: 160 psi
- · Number of Relief Valves: 1
- · Relief Valve Size: 3/4"
- · Relief Valve Pressure Rating: 50 psi
- · Gas Inlet Connection: 1"
- BTU/Hr Input: 800,000
- BTU/Hr Output (High Fire): 752,000
- · BTU/Hr Output (Low Fire): 150,400
- · Voltage/Heater: 120 V
- Voltage/Control: 24 V
- · Total Amps: 2.7 A
- · Number of Electrical Connections: 1
- Dimensions (H x W x D): 42-1/2" x 15-1/2" x 45-1/4"
- · Vent Size: 6"
- · Vent Calegory: IV
- Vent Material: PVC
- Shipping Weight: 440 lb

PLEASE NOTE: The product weighs 405 lbs. and may require the use of a lift gate. If you do require a lift gate at your delivery, you'll have the option to add this FREE of charge when you checkout.

You May Also Need



1 qt. Boiler & Heating System Cleaner

SKU: 35206 Brand: Hercules

\$12.25 / each

\$142.20 / box 12 x \$11.85

In Stock! (34 Available) Ships in 24-48 Hrs



1 lb. Boiler Solder (Powdered Stop Leak)

SKU: 30310 Brand: Hercules

\$12.75 / each

\$148.20 / box 12 x \$12.35

In Stockl (30 Available) Ships in 24-48 Hrs



1 Gal. Heavy Body Furnace Cement

SKU: 35526 Brand: Hercules

\$17.25 / each

\$66,60 / box 4 x \$16.65

In Stock! (38 Available) Ships in 24-48 Hrs Page 1 of 7



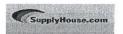
1/2 Gal. Heavy Body Furnace Cement

SKU: 35521 Brand: Hercules

\$9.45 / each

\$54.90 / box 6 x \$9.15

In Stock! (2 Available) Ships in 24-48 Hrs



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Bradford White Water Heaters Copper Fittings

ProPress Fittings **PVC Fittings**

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Takagi Tankless Heaters

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Taco Pumps Triangle Tube Boilers

Weil Mclain Boilers

White Rodgers Thermoslats

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PEX Tubing for Heating

PEX Tubing for Plumbing

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Fantech Ventilation Fans LG Mini-Split Air Conditioners

Line Sets

Panasonic Ventilation Fans

Goodman Air Conditioners

Popular Brands

AO Smith

Bell & Gossett

Bradford White

Fantech

Grundfos

Honeywell

Taco

Triangle Tube Uponor

Viega

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Shopping For a Boiler

3200 HENSON ROAD • P.O. BOX 50	610 • KNOXVILLE, TENNESSEE 37950-0610		TELEPHONE (865) 588-0180 FAX (865) 602-4124
TO: Oneida Special Schools		DATE	1/27/2015
Attn : David Mayes		JOB Hot	Water Boiler Change Out
	LOCA	ATION On	eida, Tennessee
Fax#	ARCH	IITECT	N/A
NOT RESPONSIBLE FOR DELAYS BY REASON OF STRIKES, ACCIDENTS OR CAUSES BEYOND OUR CONTROL.	PRICES SUBJECT TO CHANGE WITHIN 30 DAYS	WITH THE	OR SPECIAL MATERIAL OR EXTRA ACCEPTED DISTINCT UNDERSTANDING THAT THEY UBJECT TO CANCELLATION.
	DESCRIPTION		
Thanks for the opportunity to s the following scope of work.	submit you the following proposal. We p	ourpose to	furnish materials and labor for
the following scope of work.			
Scope of Work			
 Rework existing HWS & Re-insulate piping dama 	rials to replace the existing exhaust stack HWR piping to fit new boiler. aged by install. cal disconnect and reconnects.	Price \$2	
Qualifications			
 Clear access to work area. Based normal work hours M- No painting. No test and balance of system No engineering or stamped do As of 1-23-15 there was two or 	ı.		
TERMS Net 30			
		Varu	truly yours,
Accepted By:		VCIY	unity yours,
		Signe	d:
			Kenneth W. Wade

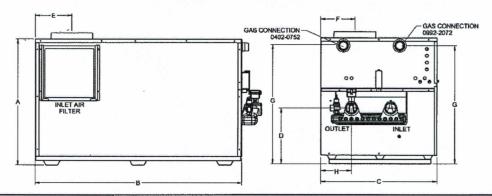


COPPER-FIN II® BOILER Submittal Sheet

CHE-Sub-10a

COPPER-	FIN II® GAS BOILER (MODELS	402-2072)
JOB NAME		
LOCATION		
ENCINEED		
MODEL NO.		
TYPE GAS		
Btu/hr INPUT	Btu/hr OUTPUT	
NOTES		-73-201
STANDARD FEATURES > 85% Thermal Efficiency (AHRI Certified) > Proportional Firing up to 4:1 Turndown > Hot Surface Ignition	SMART SYSTEM FEATURES > SMART SYSTEM Operating Control > 2 Line/16 Character LCD Display > 8uilt in Cascading Sequencer for up to 8 boilers	> Three Pump Control > System Pump > Boiler Pump
> Low NOx Operation > Sealed Combustion > Low Gas Pressure Operation > Vertical & Horizontal Venting > Category I Venting > Double Wall "B" Vent Material > Category IV Venting > AL29-4C Stainless Steel Vent Material	Front End Loading Capability with Crest or Knight Boilers Building Management System Integration with 0-10 VDC Input Outdoor Reset Control with Outdoor Air Sensor Password Security Domestic Hot Water Prioritization Inut	Domestic Hot Water Pump High Voltage Terminal Strip 120 VAC / 60 Hertz / 1 Phase Power Supply Pump Contacts with Pump Relay Low Voltage Terminal Strip 24 VAC Auxiliary Device Relay Output - Louvers Auxiliary Proving Switch Contacts - Louvers 3-way Valve Contacts for Low Temperature Protection
> ASME Copper Finned Tube Heat Exchanger > ASME Certified, "H" Stamped > Gasketless design > 160 psi working pressure > On/Off Switch > Combustible Floor Rated (CH 0992 - 2072)	> Freeze Protection > Service Reminder > Time Clock > 0-10 VDC Rate Output > Condensing Protection > 0-10 VDC System Pump Speed Input	> Alarm on Any Failure Contacts > 0-10 VDC System Pump Speed Contacts > Runtime Contacts > DHW Thermostat Contacts > DHW Tank Sensor Contacts > Unit Enable/Disable Contacts
> Adjustable High Limit w/ Manual Reset > Flow Switch > Low Air Pressure Switch > Inlet & Outlet Temperature Sensors > Easy Access Terminal Strips	Data Logging Hours Running, Space Heating Hours Running, Domestic Hot Water Ignition Attempts Last 10 Lockouts	> System Sensor Contacts - Supply and Return > Outdoor Air Sensor Contacts > Contacts for Air Louvers > Contacts on Any Failure > Cascade Contacts
> Downstream Test Cocks > 50 psi ASME Relief Valve > Temperature & Pressure Gauge > 1 Year Warranty on Parts (See Warranty for Details) > 10 Year Limited Warranty (See Warranty for Details)	> Programmable System Efficiency Optimizers > Night Setback > Anti-Cycling > Outdoor Air Reset Curve > Boost Temperature & Time	> 0-10 VDC BMS External Control Contact > 0-10 VDC Rate Contacts
OPTIONAL EQUIPMENT ————————————————————————————————————	FIRING CODES M7 Firing Code - California Code M9 Firing Code - Hot Surface Ignition	
	with Electronic Supervision M13 Firing Code - CSD1 / Factory Mutual / GE Gap	
BMS Gateway - BACnet or LonWorks Combustible Floor Kit (CH 0402-0752) Stack Frame Low Temperature Protection Valve 30 ps ASME Relief Valve	CERTIFICATIONS ANSI Z21.13/CSA 4.9 certified South Coast Air Quality Management District Texas Commission on Environmental Quality	
→ 75 psi ASME Relief Valve → 100 psi ASME Relief Valve → 125 psi ASME Relief Valve → 150 psi ASME Relief Valve → 150 psi ASME Relief Valve		

Copper-Fin II® Gas Boiler Dimensions & Specifications



	Copper-Fin II Heating Boiler				Dimensions & Specifications												
	Model	Input	Thermal		Net AHRI Ratina									Vent	Air	Gas	Shipping
	Number	THE RESERVE AND ADDRESS.	Efficiency	THE RESERVE OF THE PERSON NAMED IN	мвн	A	В	C	D	E	F	G	Н	Size	Inlet	Conn	Weight
	CHN0402	399	85%	339	295	31-1/2"	37-3/4"	22-1/4"	12-1/2"	7*	7"	29"	6-1/2"	6"	6"	1-1/4"	378
	CHN0502	500	85%	425	370	31-1/2"	45-1/2"	22-1/4"	12-1/2"	7"	7"	29"	6-1/2"	6"	6"	1-1/4"	414
	CHN0652	650	85%	553	481	31-1/2"	56-3/4"	22-1/4"	12-1/2"	8-1/2"	8-1/4"	29"	6-1/2"	8"	8"	1-1/4"	500
7	CHN0752	750	85%	638	555	31-1/2"	64"	22-1/4"	12-1/2"	8-1/2"	8-1/4"	29"	6-1/2"	8"	8"	1-1/4"	543
	CHN0992	990	85%	842	732	36"	48-1/4"	33-1/2"	15-3/4"	8-1/2"	8-1/2"	33-3/4"	8-3/4"	10"	10"	2"	773
	CHN1262	1,260	85%	1,071	931	36"	58-1/2"	33-1/2"	15-3/4"	10-1/2"	9-1/2"	33-3/4"	8-3/4"	12"	12"	2"	863
	CHN1442	1,440	85%	1,224	1,064	36"	68-3/4"	33-1/2"	15-3/4"	10-1/2"	10-1/2"	33-3/4"	8-3/4"	12"	12"	2"	965
	CHN1802	1,800	85%	1,530	1,330	36"	82-1/4"	33-1/2"	15-3/4"	11"	11"	33-3/4"	8-3/4"	14"	12"	2"	1,100
	CHN2072	2,070	85%	1,760	1,530	36"	92-1/2"	33-1/2"	15-3/4"	11"	11"	33-3/4"	8-3/4"	14"	12"	2"	1,219

Notes: Change 'N' to 'L' for LP gas models. No deration on LP models

Header increases "B" dimension 3-1/2" for models CH 0402-0732 and 6-1/4" for models CH 0992-2072

Water connections for models CH 0902-2072 are 2-1/2" NPT on 11-1/4" centers.

Performance data is based on manufacturer test results.

Venting Options

Aire-Lock™	Direct	Vent	Sealed
Combuction			

☐ DirectAire* Vertical

☐ DirectAire* Vertical w/ Sidewall Inlet

Outdoor Installation

☐ Power DirectAire* Horizontal

Powered Side Wall

☐ Sidewall









