



# CITY OF NORTH SALT LAKE

## CITY COUNCIL MEETING NOTICE & AGENDA DECEMBER 14, 2022

Posted December 13, 2022

Notice is given that the City Council of the City of North Salt Lake will hold a special meeting on **Wednesday, December 14, 2022** at 4:00 pm electronically with the Anchor Location at City Hall in Council Chambers located at 10 East Center Street, North Salt Lake, Utah. Some members may participate electronically via Zoom. The public may attend in person or via Zoom; however, the electronic meeting option does not allow for participation. Please see instructions below to attend and view the meeting via Zoom.

The following items of business will be discussed; the order of business may be changed as time permits.

### CITY COUNCIL SPECIAL SESSION – 4:00 p.m.

1. Introduction by Mayor Horrocks
2. Consideration of a Request to Authorize the City Manager to Purchase a New Boiler for the City Offices in the Amount of \$49,450
3. Adjourn

*This meeting has an option to attend electronically via Zoom, with joining information below:  
Topic: December 14, 2022 City Council Meeting  
Time: December 14, 2022, 04:00 PM Mountain Time (US and Canada)*

*Join Zoom Meeting  
<https://us02web.zoom.us/j/87585825277>*

*Webinar ID: 875 8582 5277*

**The public is invited to attend all City Council meetings. If you need special accommodations to participate in the City Council meeting, please call the City office at 801-335-8709. Please provide at least 24 hours notice for adequate arrangements to be made.**

**Notice of Posting:**

I, the duly appointed City Recorder for the City of North Salt Lake, hereby certify that the foregoing agenda was posted on the Utah Public Notice website, at city hall, and sent to the required newspapers this 13<sup>th</sup> day of December, 2022.

Dated this 8<sup>th</sup> day of December, 2022.

  
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# CITY OF NORTH SALT LAKE

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10 East Center Street  
North Salt Lake, Utah 84054  
(801) 335-8700  
(801) 335-8719 Fax

Brian J. Horrocks  
Mayor

Ken Leetham  
City Manager

## MEMORANDUM

**TO:** Honorable Mayor and City Council

**FROM:** Ken Leetham, City Manager

**DATE:** December 14, 2022

**SUBJECT:** Consideration of request to authorize the City Manager to purchase a new boiler for the City Offices in the amount of \$49,450.

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### **RECOMMENDATION**

I recommend that the City Council authorize the City Manager to purchase a new boiler for the City Offices as shown in the attached estimate of \$49,450, including any other minor incidental costs related to the purchase.

### **BACKGROUND**

As I informed the City Council when requesting a special meeting for this item, we have reached a point in the proper operation and maintenance of the City Hall building where we must act on the purchase and installation of a new boiler for heating the building. You may recall that we have two boilers that are oversized at 1 million BTUs each for the building. That oversizing has contributed to the faulty operation of the boilers over the years. More specifically, because they are oversized, they operate out of normal heating curves causing them to work harder, startup more frequently, flame out more often (hence a frequent loss of heat in the building) and basically run in inefficient ways. This has created constant wear on parts and components and now led to one of the boilers needing so much repair as to render it completely useless. That boiler is not in use because in addition to several parts that must be replaced, it leaks natural gas and our technicians have not been able to completely identify that problem. Repairs in addition to the natural gas leak are estimated at \$10-12,000. Staff has little confidence that those repairs would last another year or that we can resolve the natural gas leak. The remaining boiler is experiencing fewer failures and we expect to keep it for an additional 4-5 years, if possible.

We are heating the building today with that remaining boiler and though subject to some faults and shut-offs, it has always operated more consistently than the boiler we are replacing. Once we install a replacement unit that is properly sized at 500,000 BTUs, we will then use the remaining existing boiler as a backup. This seems to be the most failsafe plan to make the repair and keep the building heated. The estimated cost for the correct sized boiler is \$49,450 as shown in the attached quote for the RBI

product. Labor is included in the estimate, but this price does not include the exclusions noted in the bid or small incidental charges that may be required.

You will notice on the quote that the RBI product is approximately \$3,500 more than the Lochinvar boiler. After discussion with FSM, it was determined that the RBI boiler technology will work better with the existing Fulton boiler that is to remain for additional years. For this small cost difference, staff believes that we should purchase the product that has the highest chance for success operating with the rest of the system.

In 2019, the City spent a significant amount of money on the City Hall HVAC system to upgrade pumps, valves, programming and control equipment. That work helped a great deal to regulate temperatures, measure efficiencies, introduce more automation and assist City personnel in effectively operating the HVAC systems. At that time, it was determined that the existing oversized boilers would also benefit from those system improvements and I believe that has been our experience. However, as stated previously, the boilers have always been a problematic part of the system and we have known for some time that we would need to replace one or both of the units. We have tried to operate the boilers since that time in a way that keeps the building stable. However, this summer and fall, we have had more frequent flame out events and system alarms with the damaged boiler which have caused either the AC or heat to cease to function properly. We have used our consultant FSM to make emergency call-outs and repairs, but it makes no sense to continue to pay a few thousand dollars every time the building is open on a Monday after a weekend when the HVAC system has failed. In those cases, in addition to the service costs, it takes most of the day and sometimes two days to heat the building properly and stabilize temperatures.

The City will also pursue any rebates or other programs that we may benefit from by upgrading our boiler system.

### **PROPOSED MOTION**

I move that the City Council authorize the City Manager to purchase a boiler for the City Offices as shown in the attached bid for an RBI boiler estimated at \$49,450 including any additional costs for exclusions or small charges required by the project.



3640 South 500 West  
 Salt Lake City, UT 84115  
 O: 801 968-4220  
 F: 801 904-3986

www.fsmhvac.com

**Bid Summary Agreement Dated: 11 | 30/ 2022**

Client:	North Salt Lake City	Site Location	North Salt Lake City
Address:	10 East Center Street	Address	10 East Center Street
City, State, Zip	North Salt Lake, Utah 84054	City, State, Zip	North Salt Lake, Utah 84054
Contact	Cameron Wright	Site Contact	Cameron Wright
Phone	801-335-8724	Phone	801-335-8125
Email	cameronwright@nslcity.org	Email	cameronwright@nslcity.org

First Service Mechanical, Inc. [FSM] appreciates the opportunity to provide you with a proposal for boiler replacement of the 100,000 BTU boiler which is oversized as per the print. We have been asked to get a proposal to replace the left boiler. As we know the boilers were oversized by 500,000 BTUs on each boiler. We are giving you 3 different proposals for 3 different Boiler each we fill would be a good fit

- #1 FTXL Fire Tube Condensing boiler \$ 45945.84 (500,000 BTU) LOCHINVAR
- #2 Infinite Energy 2 series Condensing boiler \$ 49,449.96 ( 500,000BTU) RBI

All boilers will be the same on install

We will Remove the old boiler and replace with the new. Includes re piping of supply and return to the boiler. A new flu section in stainless will be tied into the current stack, as per speck. It also includes new piping insulation on ne section of pipe that has been replaced.

The current controls will also be tied into the boilers with the led lag may need to be adjusted as the new boiler will be smaller and we may want the smaller boiler to be the primary boiler.

All electrical will be installed, and new glycol will be added to the system that was removed during shut down. This is based on that the current valves will hold if not we will meet to discuss our options.

**Exclusions:**

- Does not include sheet rock repair, concrete cutting or permits or fees.

**Clarifications & Other:**

- Our insurance limits, payment terms can be viewed at the link below. This proposal includes these conditions unless noted otherwise. [Insurance and Terms](#)

First Service Mechanical Inc. offers this proposal to you in good faith for a period of Thirty [30] days. Your confidentiality regarding this proposal is expected and appreciated.



3640 South 500 West  
Salt Lake City, UT 84115  
O: 801 968-4220  
F: 801 904-3986

www.fsmhvac.com

First Service Mechanical Inc. Contractors Licenses number 6280333-5501  
Authorization and Signature Page

The following parties have agreed to the following terms and conditions outline in this entire agreement and acknowledge that the authorized party signing this agreement is valid and holds all the power and authority to enter into this agreement.

FIRST SERVICE MECHANICAL, INC. [FSM]  
3640 South 500 West  
Salt Lake City, UT 84115  
801-968-4220

NORTH SALT LAKE CITY  
10 East Center Street  
North Salt Lake, Utah 84054  
801-335-8700

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Charles Thad Torres / President

\_\_\_\_\_  
Printed Name / Title

\_\_\_\_\_  
Printed Name / Title

\_\_\_\_\_  
11/28 /2022

\_\_\_\_\_  
11/28/ 2022

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
801-968-4220

\_\_\_\_\_  
Contact Phone #

\_\_\_\_\_  
Contact Phone #

\_\_\_\_\_  
[thad@fsmhvac.com](mailto:thad@fsmhvac.com)

\_\_\_\_\_  
Authorized Contact Email

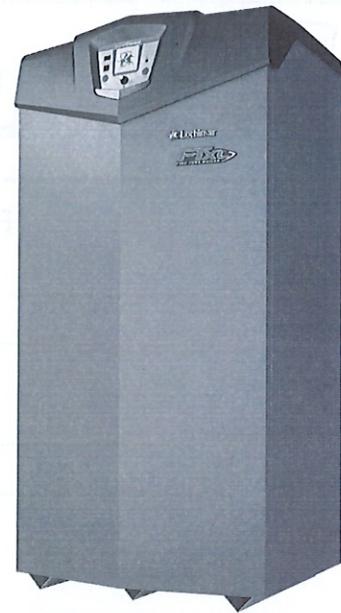
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Contract management email

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Contract management email

# FTXL™

## FIRE TUBE BOILER



CON-X-US® REMOTE CONNECT CAPABLE  
 CASCADING SEQUENCER  
 LOCH-N-LINK™ USB DRIVE SETUP  
 5 INPUTS FROM 399,999 TO 850,000 BTU/HR  
 UP TO 10:1 TURNDOWN RATIO  
 COMMON VENT AND PVC DIRECT-VENTING  
 FLOW RATES FROM 10 TO 150 GPM  
 SMALL 6.2 SQ. FT. FOOTPRINT  
 4 PUMP CONTROL  
 WIRELESS OUTDOOR SENSOR CAPABLE

### Smart System Features

- › **Smart System Digital Operating Control**  
Multi-Color Graphic LCD Display w/Navigation Dial
- › **Loch-N-Link™ USB Thumb Drive Port for Easy Programming**
- › **Cascading Sequencer with Built-in Redundancy**  
Selectable Cascade Type:  
Lead Lag/Efficiency Optimization  
Multiple Size Boilers  
Front-End Loading
- › **3 Reset Temperatures Inputs w/Independent Outdoor Reset Curves for Each Outdoor Sensor**
- › **Four-Pump Control**  
System Pump with Parameter for Continuous Operation  
Boiler Pump with Variable-Speed Control  
Domestic Hot Water Boiler Pump  
Domestic Hot Water Recirculation Pump Control with Sensor
- › **Building Management System Integration**  
0-10 VDC Input to Control Modulation or Setpoint  
0-10 VDC Input from Variable-Speed System Pump  
0-10 VDC Modulation Rate Output Signal  
0-10 VDC Enable/Disable Signal
- › **Programmable System Efficiency Optimizers**  
Space Heating Night Setback  
DHW Night Setback  
Anti-Cycling  
Ramp Delay  
Boost Time and Temperature
- › **High-Voltage Terminal Strip**  
120 VAC/60 Hertz/1 Phase  
Pump Contacts for 3 Pumps
- › **Low-Voltage Terminal Strip**  
Building Recirculation Pump Start/Stop  
Building Recirculation Return Temp Sensor  
Contacts  
Proving Switch Contacts  
Flow Switch Contacts  
Alarm Contacts

- Runtime Contacts
- 3 Space Heat Thermostat Contacts
- Tank Thermostat Contacts
- System Sensor Contacts
- Tank Sensor Contacts
- Cascade Contacts
- 0-10 VDC BMS Contacts
- 0-10 VDC Boiler Rate Output Contacts
- 0-10 VDC Boiler Pump Speed Contacts
- 0-10 VDC System Pump Speed Contacts
- ModBus Contacts
- › **Time Clock**
- › **Data Logging**  
Ignition Attempts  
Last 10 Lockouts  
Space Heat Run Hours  
Domestic Hot Water Run Hours

### Standard Features

- › **97%-98% Thermal Efficiency**
- › **Modulating Burner with up to 10:1 Turndown**  
Direct Spark Ignition  
Low NOx Operation  
Sealed Combustion  
Low Gas Pressure Operation
- › **Stainless Steel Fire-Tube Heat Exchanger**  
ASME-Certified, "H" Stamped  
160 psi Working Pressure  
50 psi Relief Valve  
Combustion Analyzer Test Port  
Fully Welded Design
- › **Vertical and Horizontal Direct Vent**  
Direct Vent up to 100 feet  
PVC, CPVC, Polypropylene or AL29-4C  
Factory Supplied Sidewall Vent Termination
- › **Smart System Control**
- › **Other Features**  
On/Off Switch  
Adjustable High Limit with Manual Reset  
Automatic Reset High Limit

- Manual Reset Low Water Cutoff
- Flue Temperature Sensor
- Low Air Pressure Switch
- Temperature and Pressure Gauge
- Condensate Trap
- Zero Service Clearances
- 10-Year Limited Warranty
- Low Water Cutoff
- Custom Maintenance Reminder with Contact Info
- Password Security
- Customizable Freeze Protection Parameters

### Optional Equipment

- Alarm Bell
- BACnet MSTP Communications Kit
- BMS Gateway to BACnet or LonMark
- Common Vent Kit
- Concentric Vent Kit (FTX400-FTX600)
- Condensate Neutralization Kit
- Constant-Speed Boiler Circulator
- CON-X-US Remote Connectivity
- Flow Switch
- High and Low Gas Pressure Switches w/Manual Reset (FTX500-FTX850)
- ModBus Communication
- Motorized Isolation Valve
- Multi-Temperature Loop Control
- SMART SYSTEM PC Software
- Variable-Speed Boiler Circulator
- Wireless Outdoor Temperature Sensor
- 30 psi ASME Relief Valve
- 75 psi ASME Relief Valve
- 100 psi ASME Relief Valve
- 125 psi ASME Relief Valve
- 150 psi ASME Relief Valve
- › **Firing Controls**
- M9 - Standard Construction
- M13 - CSD-1/FM/GE Gap (FTX500-FTX850)



Lochinvar, LLC  
 300 Maddox Simpson Parkway  
 Lebanon, Tennessee 37090  
 P: 615.889.8900 / F: 615.547.1000  
 f t i n Lochinvar.com





# Lochinvar®

## FTXL FIRE TUBE CONDENSING BOILER

Submittal Sheet

FTX-Sub-03

### FTXL FIRE TUBE COMMERCIAL BOILERS

Job Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Agent/Wholesaler: \_\_\_\_\_  
 Contractor: \_\_\_\_\_

Model No. \_\_\_\_\_  
 Type Gas: \_\_\_\_\_  
 Equipment Tag(s): \_\_\_\_\_

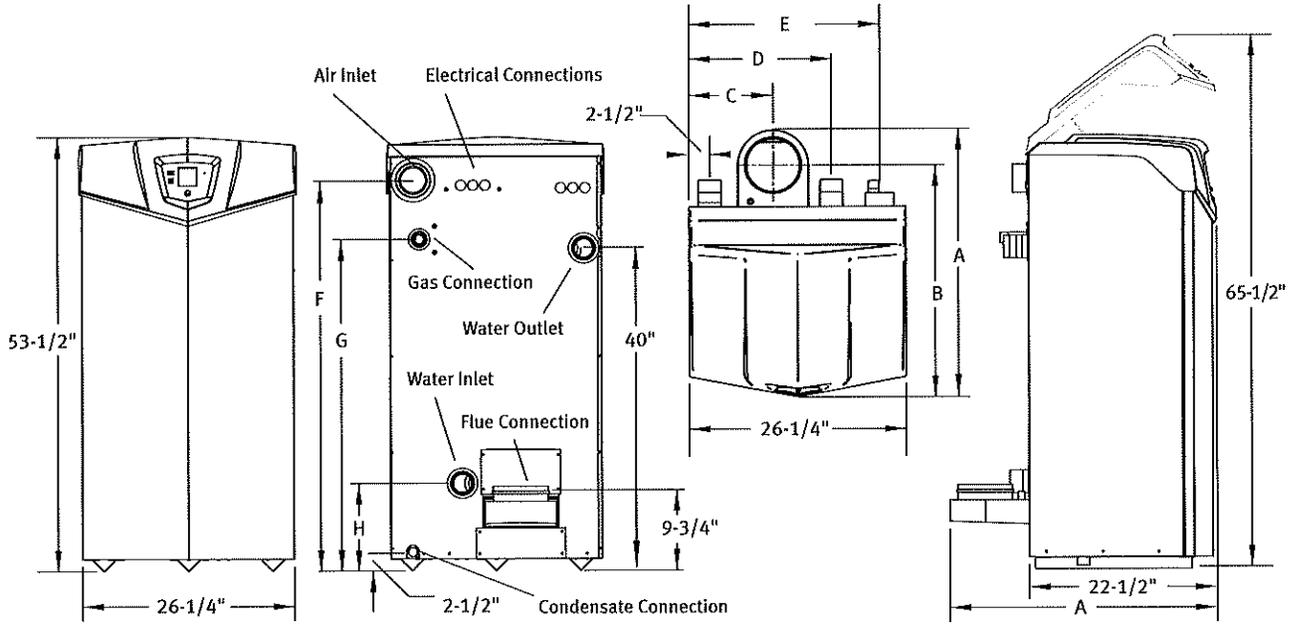
**NOTES:**

FOR EASE IN ORDERING  
BY MODEL NUMBER

FTX	850	N	M13
FTXL Boiler	850,000 Btu/hr Input	Natural Gas	Firing Control

This model is:

- FTXL Fire Tube boiler
- 850,000 Btu/hr
- Natural gas
- M13 Firing Controls



FTXL Boiler							Dimensions and Specifications															
Model No.	Input Min MBH	Input Max MBH	Thermal Eff.	Gross Output MBH	NET AHRI Rating MBH	Turn down	Flow (GPM) Min	Flow (GPM) Max	HEX Water Volume	A	B	C	D	E	F	G	H	Water Conn.	Vent Size	Air Intake	Gas Conn.	Ship Wt. (lbs.)
FTX400(N,L)	40.0	399.9	98.0%	392	341	10:1	10	105	13	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	435
FTX500(N,L)	50.0	500.0	97.7%	489	425	10:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	460
FTX600(N,L)	85.0	600.0	97.5%	585	509	7:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	470
FTX725(H,L)	103.5	725.0	97.2%	705	613	7:1	20	150	17	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	510
FTX850(H,L)	121.5	850.0	97.0%	825	717	7:1	25	150	16	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	535

\*Information subject to change without notice. Dimensions are in inches. Select "N" or "L" for Natural or LP gas. \*The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. \*Lochinvar should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as Intermittent system operation, extensive piping systems, etc. \*The ratings have been determined under the provisions governing forced draft burners.

# Infinite ENERGY<sub>2</sub>

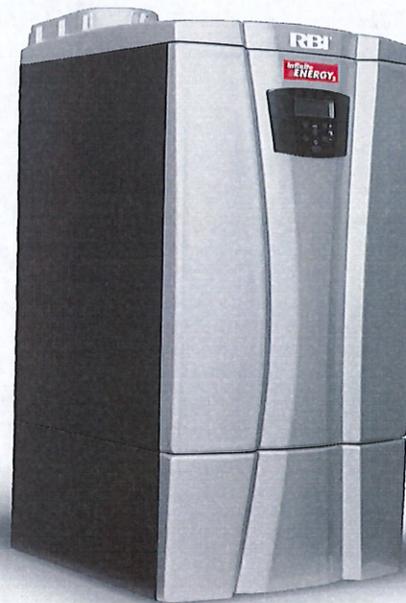
IE<sub>2</sub> high efficiency gas-fired boilers and water heaters utilize state-of-the-art Radial Variable Circulation (RVC) stainless steel heat exchangers for maximum heat transfer and operating efficiencies of up to 98%.

Using all of today's modern technologies including pre-mix burners, modulating firing rates of up to 20:1 and integrated cascade controls IE<sub>2</sub> provides users with superior performance and application flexibility.

Available from 199 to 1000 MBH the IE<sub>2</sub> provides flexible solutions for all of your heating and domestic hot water needs. Units are PVC, polypropylene (PP) and stainless steel vent capable and can be installed in multiple unit configurations using its on-board control which provides flexible modulation for maximum efficiency.

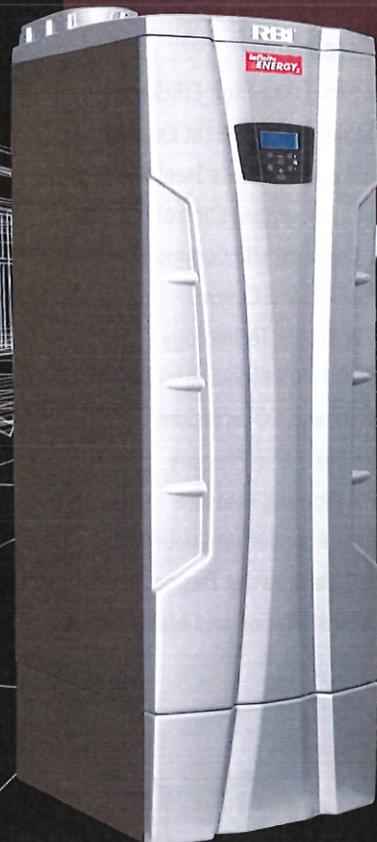
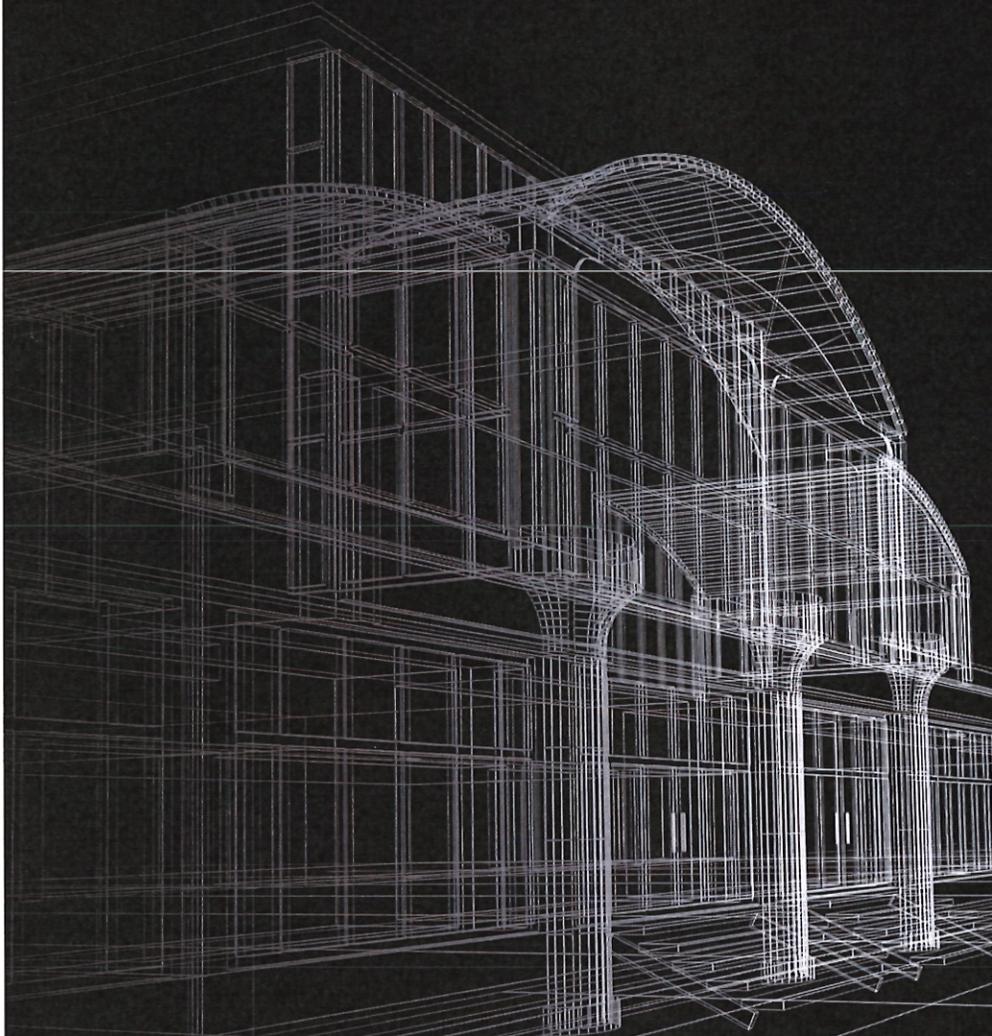
## Features and Benefits

- 199 – 1000 MBH
- Up to 98% Ultra-High Efficiency
- RVC Stainless Steel Heat Exchanger
- PVC, PP and Stainless Steel Venting
- Intuitive Integrated Control Platform
- Multi-Unit Cascade Communication (8 Units)
- MODBUS Based Control
- Pre-Mix Burner Technology
- Up to 20:1 Full Modulation
- Low NOx and CO emissions (<15 ppm)
- 3" Minimum Gas Pressure
- 160 PSI Working Pressure
- Integrated condensate neutralizer system
- Modern Sleek Jacket Design
- Ease of Installation and Maintenance

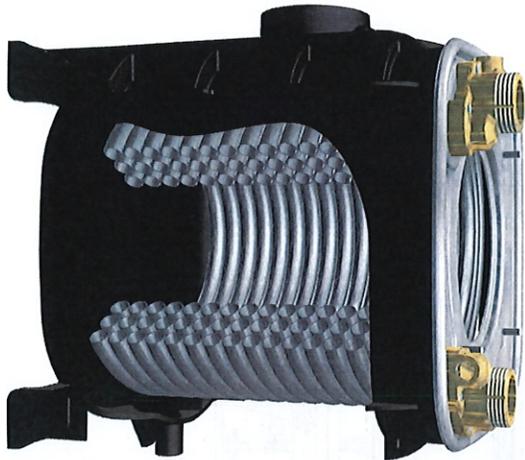


# Infinite ENERGY<sub>2</sub>

CONDENSING  
HIGH EFFICIENCY GAS-FIRED  
BOILERS AND WATER HEATERS



**RBI**®  
RELIABLE. BOLD. INNOVATIVE.



## Innovative Heat Exchanger Design

IE<sub>2</sub> boilers and water heaters utilize a patented Radial Variable Circulation stainless steel heat exchanger. RVC high efficiency heat exchangers are manufactured using a series of 3 stainless steel tubes including a uniquely designed AISI 316 Ti stainless steel. Tubes are hydraulically connected without welding protecting the full integrity of the design while providing maximum durability against corrosion.

All RVC heat exchangers are ASME certified for both water heating and space heating and manufactured to the most stringent tolerances in the industry today.

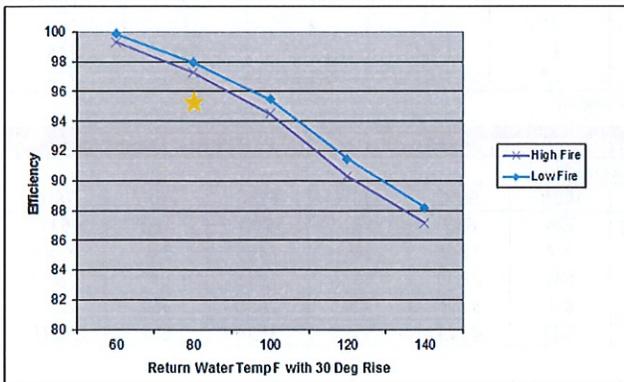
All IE<sub>2</sub> units come with an integrated condensate neutralizer system.



## Integrated Control Board

Like a lot of today's applications, the IE<sub>2</sub> can be configured in a master/member cascade configuration providing up to 8000 MBH with unparalleled modulation for maximum system efficiency.

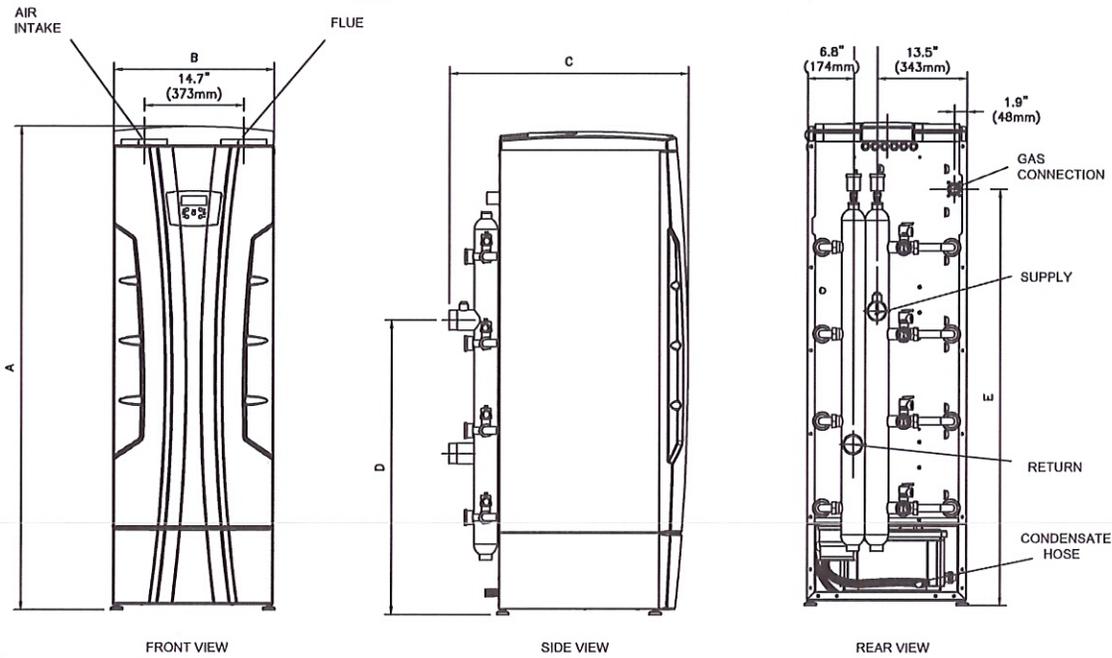
An intuitive control system is the brains behind the IE<sub>2</sub>'s premium performance. The easy set-up control is MODBUS based and provides auto-diagnostics of all major components and functions; including visual notification of system errors and lockouts through continuous monitoring of temperature sensors, fan speed rotation and other application operating sequences. Back-lit visual readouts include water flow sensor, supply temperature, flue temperature and tank temperature for immediate system feedback.



★ 95.2% AHRI Certified Product Performance Thermal Efficiency  
Performance values based on 1000 MBH boiler official AHRI Certified Performance Ratings

- Outdoor Reset
- Auto Diagnostics
- PC Connections for Diagnostics
- Cascade Capabilities (8 Units)
- Freeze Protection
- System Pump Control, Boiler Pump Control and DHW Pump Control
- DHW Priority
- Back-Lit Readable Display with Auto Shut Off
- Low Water Flow Protection
- Water Pressure Sensor
- Low Water Pressure Protection
- Blocked Flue Pressure Switch

# Infinite ENERGY<sub>2</sub>



## Models

IB = Boiler

IW = Water Heater

Infinite Energy 2 Series – Dimensions											
Size	A		B		C		D		E		
	In	mm	In	mm	In	mm	In	mm	In	mm	
199	45.7	1154	23.6	600	34.8	885	25	634	35.7	908	
399	45.7	1154	23.6	600	34.8	885	25	634	35.7	908	
500	45.7	1154	23.6	600	34.8	885	25	634	35.7	908	
750	71.4	1815	23.6	600	35.3	896	43.5	1105	61.5	1563	
1000	71.4	1815	23.6	600	35.3	896	43.5	1105	61.5	1563	

Infinite Energy 2 Series – Dimensions and Ratings*											
Size	Input		Boiler Output		Flue Vent	Air Intake	Connections		Shipping Weight		
	MBH	kW	MBH	kW			Gas	Water	Lbs	Kg	
199	200	59	184	54	3"	3"	1"	2"	258	117	
399	399	117	376	110	4"	4"	1"	2"	356	162	
500	500	147	472	138	4"	4"	1"	2"	371	168	
750	750	220	711	208	6"	6"	1 1/4"	2 1/2"	539	245	
1000	1000	293	952	279	6"	6"	1 1/4"	2 1/2"	612	278	

\* Ratings reflect boiler only. For boiler efficiency information please visit [www.ahridirectory.org](http://www.ahridirectory.org).

Infinite Energy 2 Series Water Heaters – Hourly Recovery Capacity $\Delta T$ (GPH & LPH)**												
Size	Temperature Rise											
	40°F	22°C	60°F	33°C	80°F	44°C	100°F	56°C	120°F	67°C	140°F	78°C
199 <sup>(1)</sup>	566	2140	377	1427	283	1070	226	856	189	713	162	611
399	1154	4364	770	2909	577	2182	462	1745	385	1455	330	1247
500	1460	5519	973	3679	730	2760	584	2208	487	1840	417	1577
750	2127	8040	1418	5360	1064	4020	851	3216	709	2680	608	2297
1000	2806	10607	1871	7071	1403	5304	1122	4243	935	3536	802	3031

\*\* For water heater efficiency information please visit [www.ahridirectory.org](http://www.ahridirectory.org).

(1) Size 199 water heater not available for sale in the US market due to DOE regulations.



260 North Elm Street, Westfield, MA 01085  
Tel. (413) 568-9571

7555 Tranmere Drive, Mississauga, Ontario L5S 1L4  
Tel. (905) 670-588

[www.rbiwaterheaters.com](http://www.rbiwaterheaters.com)



## LIMITED WARRANTY

### IE2 Boilers/Water Heaters Industrial, Commercial and Other Non-Residential Use

The "Manufacturer" warrants to the original owner at the original installation site that the heat exchanger of the Industrial, Commercial, and other Non-Residential Use Boiler (the "Product") will be free from defects from condensate corrosion and in material or workmanship for ten (10) years from the date of installation. Additional twenty one (21) year thermal shock warranty on heat exchanger. If upon examination by the Manufacturer the Product is shown to have a defect in material or workmanship during the warranty period, the Manufacturer will repair or replace, at its option, that part of the Product which is shown to be defective. All other RBI supplied Boiler/Water Heater parts are warranted against defects in material and workmanship for one (1) year from date of installation or 18 months from date of shipment from RBI.

The "Manufacturer" warrants to the original owner at the original installation site that the heat exchanger of the Industrial, Commercial, and other Non-Residential Use Water Heater (the "Product") will be free from defects from condensate corrosion and in material or workmanship for five (5) years from the date of installation. Additional twenty one (21) year thermal warranty on heat exchanger. If upon examination by the Manufacturer the Product is shown to have a defect in material or workmanship during the warranty period, the Manufacturer will repair or replace, at its option, that part of the Product which is shown to be defective. All other RBI supplied Boiler/Water Heater parts are warranted against defects in material and workmanship for one (1) year from date of installation or 18 months from date of shipment from RBI.

This limited warranty does not apply:

- (a) if the Product has been subjected to misuse or neglect, has been accidentally or intentionally damaged, has not been installed, maintained or operated in accordance with the furnished written instructions, or has been altered or modified in any way.

These include but not limited to:

- Excessive water hardness causing a lime build-up in the heat exchanger tubes is not a fault of the equipment and is not covered under the manufacturer's warranty.
- Excessive pitting and erosion on the inside of the heat exchanger tubes caused by high water velocity through the tubes and is not covered by the manufacturer's warranty. (See Installation Instructions for proper pump performance.)
- Chemical corrosion, no corrosive chemical (freon, dry cleaning chemicals, degreasing liquids, chlorine or any chemicals that produce hydrochloric acid) can be present in the boiler room as it rapidly destroys the heating equipment and voids the warranty.

- (b) to any expenses, including labor or material, incurred during removal or reinstallation of the Product or parts thereof.
- (c) to damage as a result of settlement, distortion, collapse, or cracking of any foundation area, beams or pipes surrounding the Product.
- (d) to any workmanship of any installer of the Product; or to Products installed outside the continental United States or Canada.

This limited warranty is conditional upon:

- (a) shipment, to the Manufacturer, of that part of the Product thought to be defective. Goods can only be returned with prior written approval from the Manufacturer. All returns must be freight prepaid.
- (b) determination in the reasonable opinion of the Manufacturer that there exists a defect in material or workmanship.

Repair or replacement of any part under this Limited Warranty shall not extend the duration of the warranty with respect to such repaired or replaced part beyond the stated warranty period.

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, AND ALL SUCH OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS LIMITED WARRANTY. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE IN ANY WAY FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES OF ANY NATURE WHATSOEVER, OR FOR ANY AMOUNTS IN EXCESS OF THE SELLING PRICE OF THE PRODUCT OR ANY PARTS THEREOF FOUND TO BE DEFECTIVE. THIS LIMITED WARRANTY GIVES THE ORIGINAL OWNER OF THE PRODUCT SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY BY EACH JURISDICTION.**



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