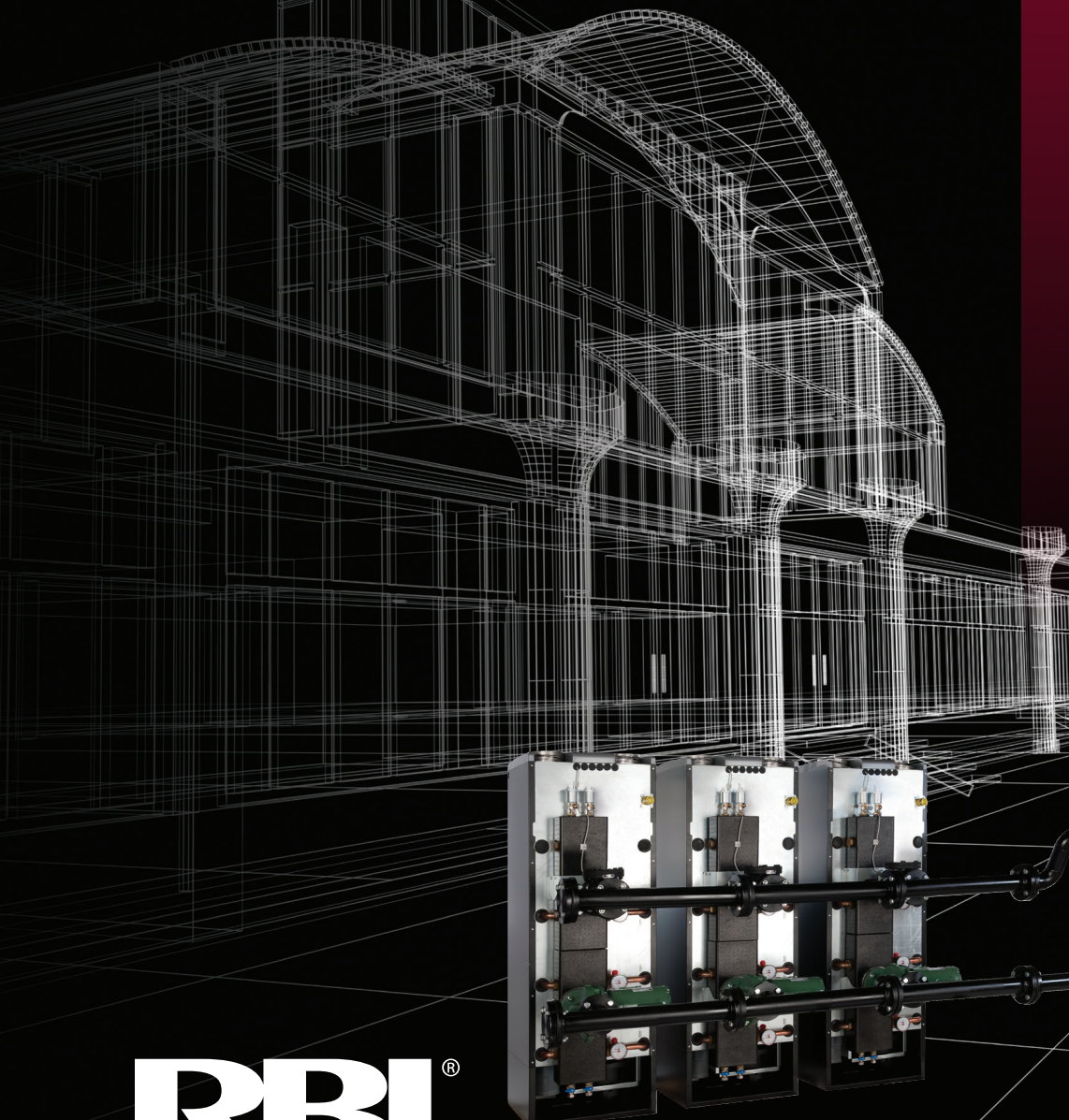


Infinite
ENERGY₂

Condensing High Efficiency Gas-Fired Boilers and Water Heaters



RBI®
RELIABLE. BOLD. INNOVATIVE.

Infinite ENERGY₂

IE₂ 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%.

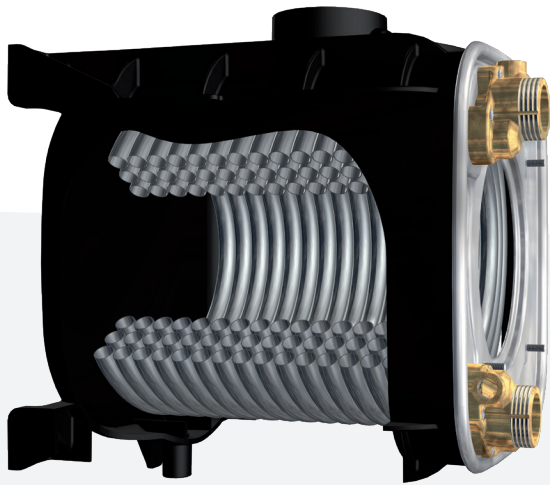
Using all of today's modern technologies including pre-mix burners, modulating firing rates of up to 20:1 and integrated cascade controls IE₂ provides users with superior performance and application flexibility.

Available from 199 to 1000 MBH the IE₂ 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



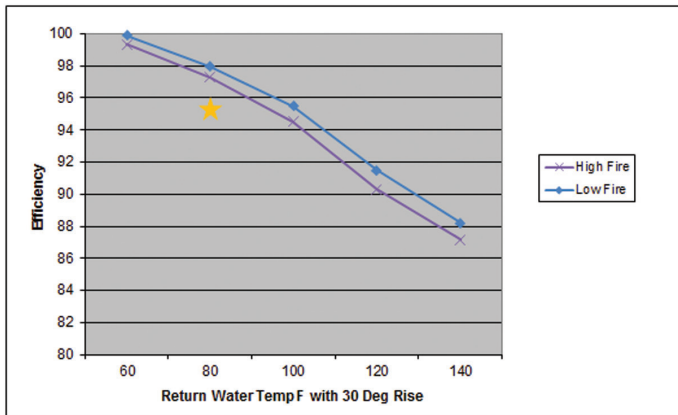


Innovative Heat Exchanger Design

IE₂ 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 IE₂ units come with an integrated condensate neutralizer system.



★ 95.2% AHRI Certified Product Performance Thermal Efficiency

Performance values based on 1000 MBH boiler official AHRI Certified Performance Ratings



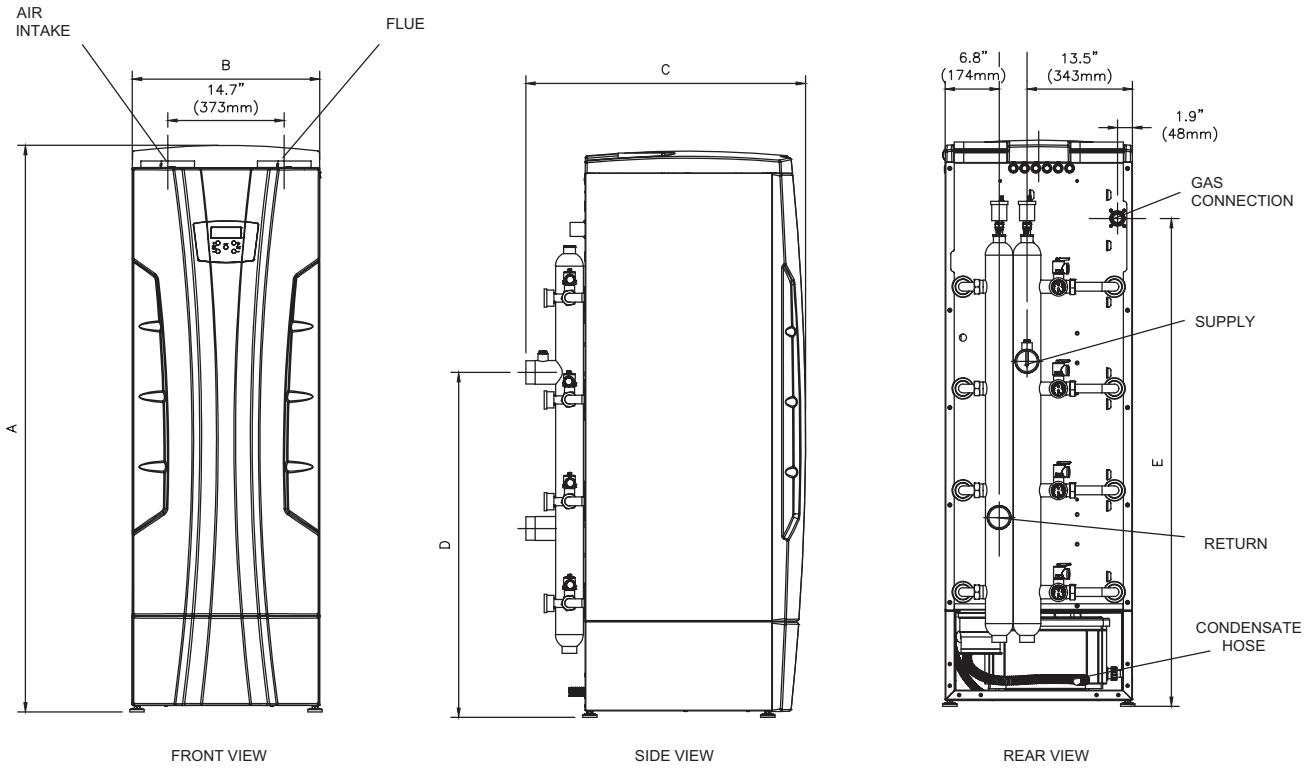
Integrated Control Board

Like a lot of today's applications, the IE₂ 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 IE₂'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.

- 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 ENERGY₂



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.

Infinite Energy 2 Series Water Heaters – Hourly Recovery Capacity ΔT (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	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.



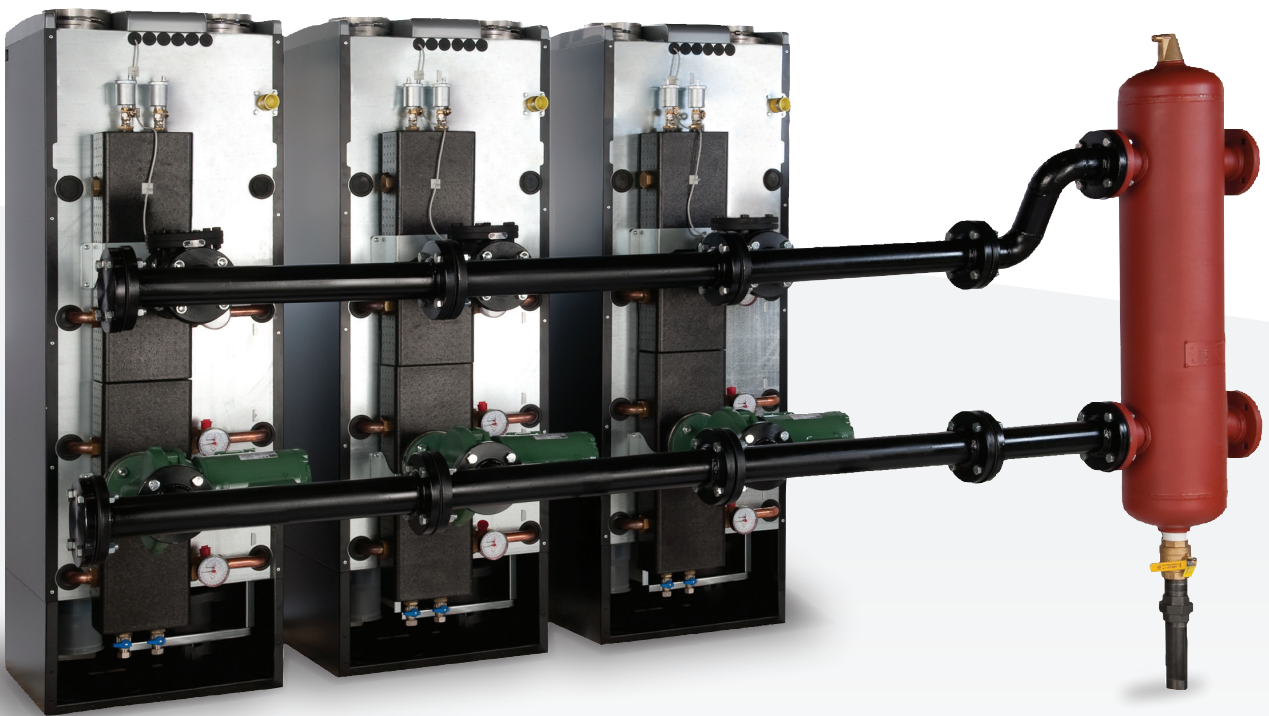
Modular Header System

RBI has engineered a modular header system for use with the high efficiency condensing IE2 boilers providing users with a completely engineered and factory-fabricated system design.

Our header system instantly minimizes head loss and provides air separation while minimizing debris with its built-in drain system*.

Save time and money by eliminating near boiler pipe nipples and fittings. Let the engineers at RBI select the properly sized pump and pipe size for the application insuring proper boiler flow.

Simply assemble and go.



- Pre-Fabricated Supply and Return Headers
- Hydraulic Separator (Low Loss Header) by Taco
- Models 399 – 1000 MBH
- Individual Integrated Condensate Neutralizer Systems
- Field Assembly Required
- Quick-Pipe up to 5 Units
- Minimize Head Loss
- Provide Air Separation
- Minimize Debris*

*Not a dirt separator. Hydraulic Separator (low loss header) has built-in blow down drain for easy maintenance.



260 North Elm Street Westfield, MA 01085
Tel: (413) 564-5515 Fax: (413) 568-9613

7555 Tranmere Dr., Mississauga, Ontario L5S 1L4
Tel: (905) 670-5888 Fax: (905) 670-5782



A MESTEK COMPANY

www.rbiwaterheaters.com