

Cuts your fuel bill
up to **40%** or more!

... much more than boilers with
comparable AFUE energy ratings! *

* In a US Department of Energy Brookhaven National
Lab study called "The Performance of Integrated
Hydronic Heating Systems," System 2000, with
Energy Recovery, has the highest annual heat
and hot water efficiency rating among ALL cast
iron and 95% AFUE modulating condensing boilers!

Whisper Quiet /
Chimney Venting!

Multi-Fuel

SYSTEM 2000®

ENERGY KINETICS'

COMBINED HEAT AND HOT WATER

UP TO
88% AFUE



EK1 and EK2 Frontier



EK1 and EK2 Stackable
Approved for venting
below the breach!

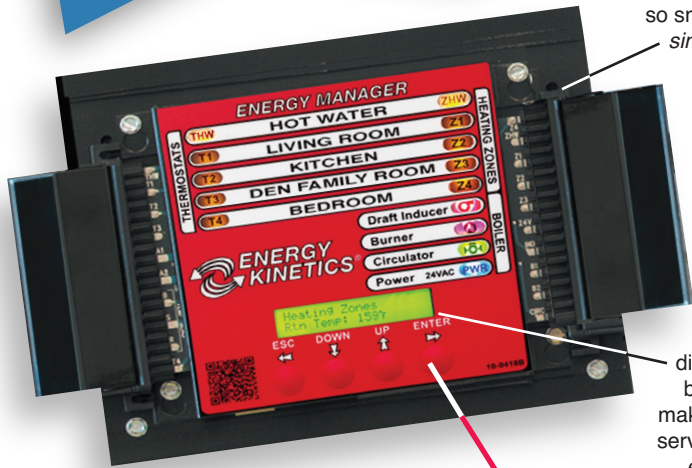
NATURAL GAS, OIL or PROPANE

- Provides nearly endless hot water!
- **Proven** 30 year boiler design
with lifetime limited warranty†
- **Proudly made in the USA!**
- **Whisper quiet operation**
- Serviceable with
stock parts!

† See actual
warranty for details.

4 ways

System 2000 Frontier out



A design that's so smart it's simple!

The unique Brain, controlling the world's smartest boiler!

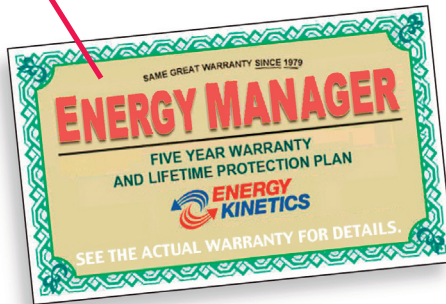
1

Energy Kinetics' boiler technology outperforms and outlasts the competition. **It's the boiler with The Brain, our Energy Manager.**

The Energy Manager's energy recovery maximizes home heating efficiency, cuts fuel bills and is perfectly integrated with our low mass boiler. It heats quickly, gets the job done, then searches for left over energy in the system and **sends the remaining heat into your home or hot water.**

On board diagnostics and "play by play" information make understanding and servicing boiler operation easy for everyone.

The Brain/Energy Manager is covered by a five year warranty and lifetime protection plan!



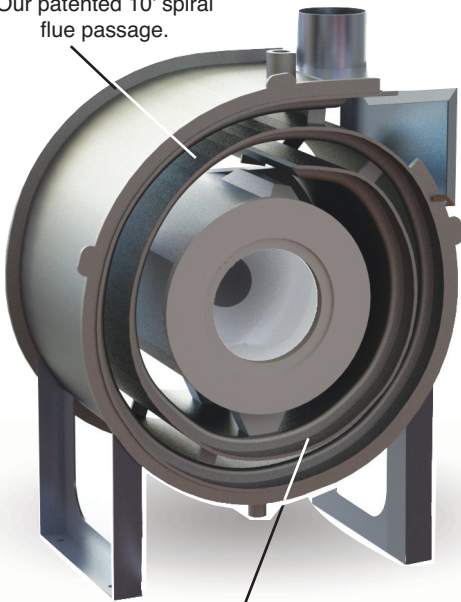
The result: **NO** energy is wasted!

3

The Patented System! Exceptional boilers . . . by Design!

Energy Kinetics' engineers deconstructed every component of all cast iron boilers and developed a proven 30 year spiral design for the highest efficiency. With dozens of improvements over traditional boilers, it is easy to see why it outlasts and outperforms the competition. *Here are some highlights:*

Our patented 10' spiral flue passage.



- Specially formulated steel with **no gaskets, sections or pins to foul, clean or leak.**
- High Performance ceramic chamber for near perfect combustion and **ultra clean operation.**
- Swing down door for easy access.
- **Over 90 pounds of exterior jacketing plus 2" of thick insulation for quiet, efficient operation.**
- **Built-in superior air elimination.**

The heart of System 2000 is our proven 30-year low mass spiral **steel** energy converter that **no cast iron or combi boiler can match.**

Scan this code to access additional System 2000 data online.



SYSTEM 2000[®]

WITH ENERGY RECOVERY

lasts and **outperforms** other boilers!

2

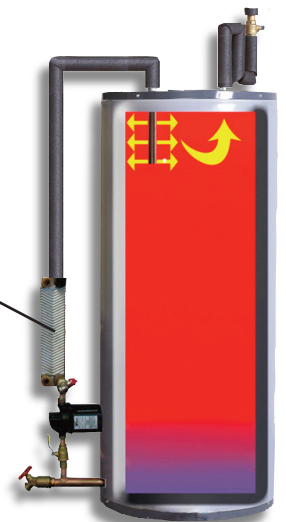
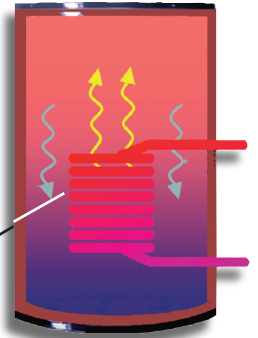
Our thermos-like tank!

Advanced plate heat exchanger !

NEW! Our unique SEALIX® coated plate heat exchanger *vastly outperforms* old fashioned coil-in-tank systems. Plus it's shielded from mineral build up and corrosion!

Old fashioned tank with coil
This design is inefficient because the tank heats slowly *all over*, even when you need only a small amount of heat or hot water. In addition, the temperature of the system's boiler is allowed to rise *above* the tank's temperature, meaning there is an automatic loss of heat energy every time the boiler heat has nowhere to go. That wastes tons of energy.

Our superior System 2000 Plate Heat Exchanger.
By comparison, our plate heat exchanger draws cold water from the *bottom* of the tank and feeds hot water from the *top* down. This delivers efficiency through the entire hot water cycle so *our tanks finish hot and fully charged! The boiler finishes cool. No wasted heat!*



UP TO **88%** AFUE

Swing down door or easy servicing.

Silent burner cover for whisper quiet operation plus 2" of thick insulation for even more efficiency.

Built-in stand keeps System 2000 off the cold floor.

The Quiet Sound! System 2000 is virtually silent!

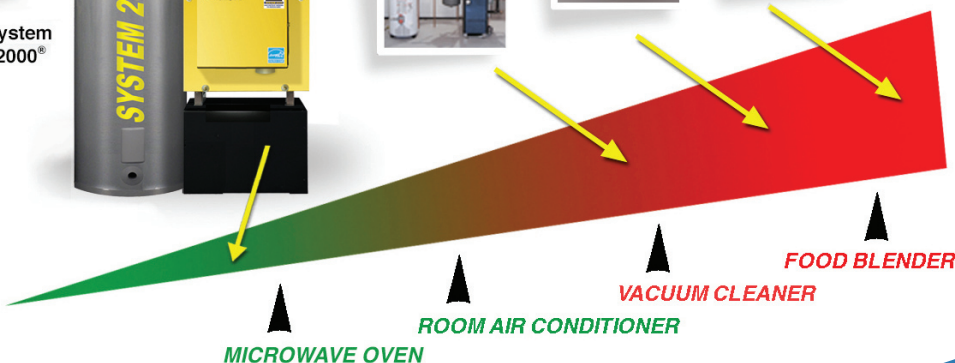
A boiler that's just one decibel higher is *30 percent louder!*

At 62 decibels, other boilers make it hard to hear a TV in the next room. **At just 47 decibels – the sound of a private conversation – System 2000 is virtually silent!** To understand how significant this decibel difference is, realize that a boiler that is just one decibel higher *is 30 percent louder!*

NOISE LEVELS OF OTHER BOILERS:



System 2000®



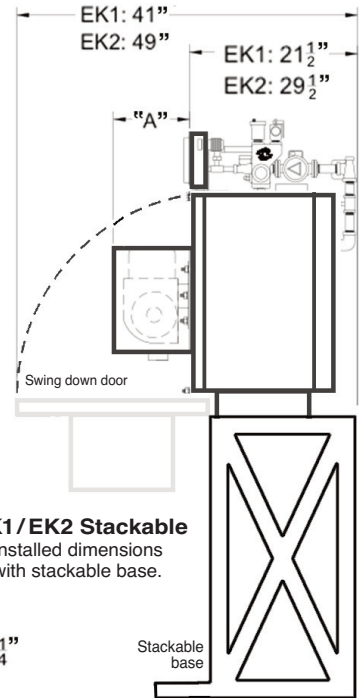
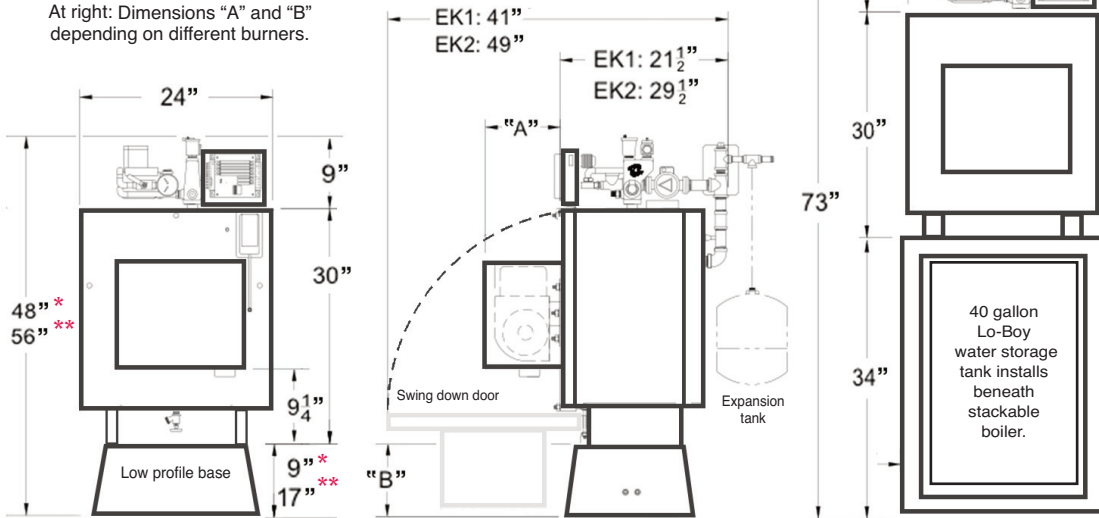
EK1 and EK2 System 2000 Frontier and Stackable Installation Dimensions

EK1/EK2 Frontier

Installed dimensions with a **low profile boiler base**** or a **standard boiler base.****
Shown without the required water storage tank.

At right: Dimensions "A" and "B" depending on different burners.

Dim "A"	W/O box	With box	"B"
Beckett AFG	8"	9 1/2"	9"
Carlin EZ-1	9"	9 1/2"	9"
Riello 40F5	13"	N/A	15"



EK1F OIL FRONTIER & STACKABLE SPECIFICATIONS:

Oilheat home heating system

Input	Gross output BTU/hr	Up to AFUE	Domestic Hot Water*
.68 GPH	83,000	87.9%	169 Gal./Hr.
.74 GPH	90,000	87.7%	180 Gal./Hr.
.85 GPH	104,000	87.5%	202 Gal./Hr.
1.00 GPH	121,000	86.2%	228 Gal./Hr.

*Domestic hot water rating based on first hour draw with 77°F rise and 40 gallon tank. Energy Converter weight 270 lbs.

EK2F OIL FRONTIER & STACKABLE SPECIFICATIONS:

Oilheat home heating system

Input	Gross output BTU/hr	Up to AFUE	Domestic Hot Water*
1.20 GPH	147,000	87.6%	269 Gal./Hr.
1.40 GPH	175,000	87.0%	313 Gal./Hr.
1.60 GPH	190,000	85.5%	336 Gal./Hr.
1.75 GPH	206,000	84.0%	360 Gal./Hr.

*Domestic hot water rating based on first hour draw with 77°F rise and 40 gallon tank. Energy Converter weight 350 lbs.

EK1F GAS FRONTIER & STACKABLE SPECIFICATIONS:

Natural Gas and Propane home heating system

Input BTU/hr	Gross output BTU/hr	Up to AFUE	Domestic Hot Water*
80,000	70,000	88%	149 Gal./Hr.
100,000	88,000	88%	177 Gal./Hr.
120,000	105,000	87%	203 Gal./Hr.
150,000	129,000	86%	241 Gal./Hr.

*Domestic hot water rating based on first hour draw with 77°F rise and 40 gallon tank. Energy Converter weight 270 lbs.

EK2F GAS FRONTIER & STACKABLE SPECIFICATIONS:

Natural Gas and Propane home heating system

Input BTU/hr	Gross output BTU/hr	Up to AFUE	Domestic Hot Water*
175,000	153,000	87%	278 Gal./Hr.
200,000	172,000	87%	308 Gal./Hr.
225,000	192,000	85%	339 Gal./Hr.
250,000	209,000	84%	365 Gal./Hr.

*Domestic hot water rating based on first hour draw with 77°F rise and 40 gallon tank. Energy Converter weight 350 lbs.

Service clearances: 20" from front door face, 0" left side and right side. Clearance to combustibles: 4" from the rear cover; 16" above top cover; 4" from flue pipe.

Included (factory piped and assembled): Boiler base, blocked vent switch, dynamic air elimination manifold, ON/OFF switch, surge protection and junction box, 3/4" drain valve, plate heat exchanger on hot water models, circulator and door safety switch.

Draft regulator not required or recommended due to advanced combustion chamber.

Frontier	EK1F	EK2F
Weight	270 lbs	350 lbs
Water Content	2 1/2 gallons	4 gallons
Air Inlet Pipe	2"	3"
Boiler Flue Outlet	4"	6"
Minimum Flexible Chimney Liner	5" Dia.	6" Dia.
Hydronic Supply	1"	1 1/4"
Hydronic Return	1"	1 1/4"
Hydronic Circulator	Taco 007e	Taco 0010



Lifetime limited warranty on the Digital Energy Manager and on the residential ASME pressure vessels. See the actual warranty for details.



UP TO 91.3% AFUE

Resolute™ RT

No chimney? No power vent?
NO PROBLEM! Look at Resolute RT!

Or scan the code at right to see the complete line of all Energy Kinetics boilers.



visit energykinetics.com



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(908) 735-2066

Fax (800) 735-2068

As an ENERGY STAR® Partner, Energy Kinetics has determined that model EK1 meets the ENERGY STAR® guidelines for energy efficiency for oil heat input from 0.68 to 0.85 gph.

® The color yellow for heating boilers is a registered trademark of Energy Kinetics.