

**EK1** 1.0 GPH MAX  
PRODUCT DATA SHEET

**EK2** 1.75 GPH MAX  
PRODUCT DATA SHEET

# System 2000 – Energy Kinetics' hybrid oilheat system for every home!

# OILHEAT!



Part of the System 2000 family  
of products manufactured by



Better heating. Bigger savings.  
**SYSTEM 2000**<sup>®</sup>

Call us today for **800-661-0902**  
more information [www.system2000.com](http://www.system2000.com)

- Light weight
- Highest efficiency
- More quiet than a microwave!
- Exceptionally clean burning
- Multiple zone control

# EK1 EK2 Oilheat

**System 2000 is an integrated heat and hot water system – makes both heat and hot water!**

**Homeowners enjoy economical heat, plus a virtually endless supply of hot water with lower energy costs throughout the year. Plus, System 2000 delivers significant savings over electric or traditional hot water making methods, with whisper quiet operation.**



No chimney needed! Ground level venting stays relatively cool!

### POWER VENTING

Homeowners who plan to save money by converting from expensive electric heat to oilheat often find themselves up against a brick wall: *It's the high cost of chimney construction.* But with System 2000's unique combustion chamber, combined with a 10 foot long flue passage, gases leave System 2000 clean, and relatively cool. So they can be vented *directly through-the-wall.* No chimney needed! An excellent benefit for homeowners with electric heat, heat pumps or for new home construction. Power venting is the safest method of side wall venting and is a low cost alternative to chimney construction.

### SPECIFICATIONS: EK1

Input	Gross output	AFUE	Domestic Hot Water*
.68 GPH	83,000 BTU/HR	87.9%	170 Gal./Hr.
.74 GPH	90,000 BTU/HR	87.7%	180 Gal./Hr.
.85 GPH	104,000 BTU/HR	87.5%	202 Gal./Hr.
1.00 GPH	121,000 BTU/HR	86.2%	228 Gal./Hr.

**EK1 Energy Converter Total Weight: 270 lbs.**  
**EK1 Dimensions: 24.5" x 26.5" x 17.5"**  
**EK1 Total System Weight 450 lbs.**  
**EK1 Storage Tank: Weight 115 lbs. Dimensions: 20" x 50"**  
**EK1 Domestic water GPH: 170 to 228**  
**EK1 Hot Water Cost: \$19 to \$25/month typical**  
 (less than 1/3 the cost of electric hot water)

### SPECIFICATIONS: EK2

Input	Gross output	AFUE	Domestic Hot Water*
1.20 GPH	147,000 BTU/HR	87.6%	293 Gal./Hr.
1.40 GPH	170,500 BTU/HR	87.0%	334 Gal./Hr.
1.60 GPH	190,500 BTU/HR	85.5%	368 Gal./Hr.
1.75 GPH	206,000 BTU/HR	84.0%	395 Gal./Hr.

**EK2 Energy Converter Total Weight: 350 lbs.**  
**EK2 Dimensions: 24.5" x 27.5" x 24.75"**  
**EK2 Total System Weight 550 lbs.**  
**EK2 Storage Tank: Weight 115 lbs. Dimensions: 20" x 50"**  
**EK2 Domestic water GPH: 293 to 395**  
**EK2 Hot Water Cost: \$19 to \$25/month typical**  
 (less than 1/3 the cost of electric hot water)

\* Domestic hot water rating based on first hour draw with 77°F rise and 40 gallon tank. As an ENERGY STAR® Partner, Energy Kinetics has determined that this product meets ENERGY STAR guidelines for energy efficiency.



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visit [www.system2000.com](http://www.system2000.com)

### System 2000 Oilheat performance:

Features	Benefits
<b>Energy Converter</b>	
Chimney venting	Ideal for retrofit installations
Power vent chimneyless option available	Save thousands on chimney construction
10 feet forced counter flow passages	Maximum heat recovery
300° net stack temperature	As high as 87.9% efficiency
Water content: EK1 2.5 gal., EK2 4 gal.	Rapid heat up, cool down
Wet base design	Minimizes heat losses
High temperature ceramic combustion chamber	Incinerates fuel – clean, safe heat
Jacket & Insulation: EK1 90 lbs., EK2 110 lbs.	Minimize heat losses
Buried combustion	Quiet operation
3/16 <sup>TH</sup> pressure vessel steel throughout	50% thicker than boiler tubes
ASME code construction	Carefully inspected, pressure tested
All welded and threaded connections	No gaskets to leak or service
Built in de-aerator	Eliminates air from system. No "gurgles"
Back cover removable	Easy to inspect and clean
Large open passages	Easy to inspect and clean
Standard burner and accessories	Serviceable with normal stock parts
Small size	Compact installations

**Limited lifetime warranty/Option to transfer. Energy recovery standard on all systems.**

### Storage Tank

40 gallon capacity	Plenty of storage for peak demands
80 and 120 gallon tank options	Even more storage for extraordinary needs
Heavily insulated tanks	Very low heat loss
Heat trap on outlet	Stops heat drift
Glass lined with anode rod protection	High corrosion resistance
Bronze circulating pump	Trouble free, long life
Layered heat stratification	Hottest water to outlet, cooler water at bottom for most efficient energy recovery
Adjustable aquastat	For temperature control
Stainless steel tank options	Extended warranties

### Hot Water Exchanger

External unit	Not in boiler, not in tank . . . easy access
Stainless steel construction	Durable, corrosion resistant
Wrinkle flow counterflow heat transfer	High turbulence for rapid heat transfer
170 to 395 GPH	High output
Compact	Low water content
Easily backwashed or chemically cleaned	Maintains capacity even with marginal water conditions
Union connections	Easily serviced

### Zone Controls

Motorized valves	Quiet, proven and reliable
Zone circulators	Optional
Standard or clock thermostats	Uses conventional controls

### Digital Energy Manager with Energy Recovery

Solid state printed circuit with surge protection	Rugged and reliable
LED indicators	For all functions; super service aid
5 zones standard	Four heating zones, one hot water zone
Expand	Up to 15 zones available
A complete Energy Manager	Programmed response to heat and hot water demand
Quick connector terminals	Easy installation or service
Printed circuit service board	An easy way to check out system function
Limited lifetime warranty	Minimal rebuild charge after 5 years

### Options

Outside combustion air	Isolated from home; whisper quiet operation
Pre-packaged units	Installation time reduced
Outside Freedom Model	Location optional
Mineral resistant hot water tanks	Performs in severe water conditions

**YOUR SYSTEM 2000 DEALER:**