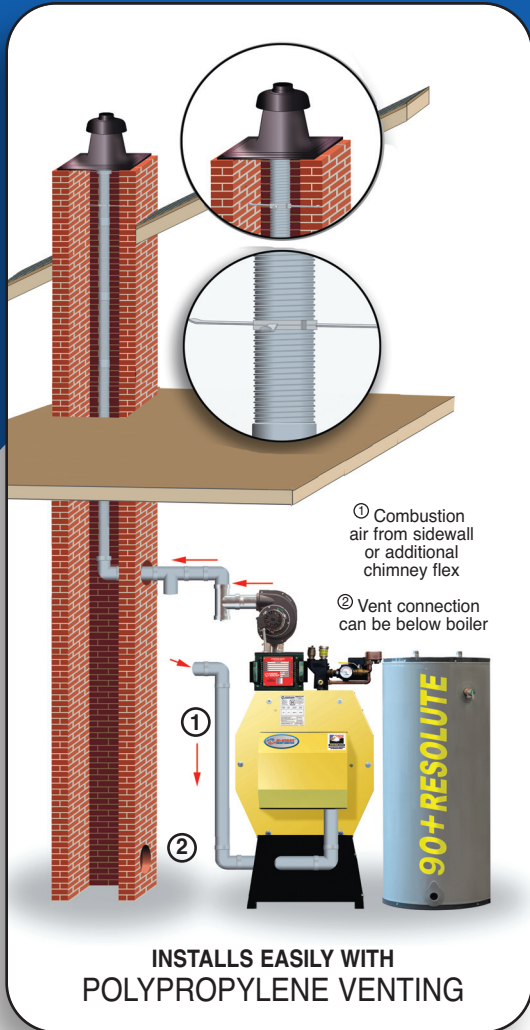


90+ Resolute, the smart, efficient combined heat and hot water non-condensing boiler system!

90+ RESOLUTE™
PRODUCT DATA SHEET
GAS

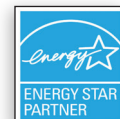


- Cuts home heating bills up to **40%** or more!*
- Provides **nearly endless hot showers!**
- Whisper quiet operation ● **5 zone control**
- **Easily piped to multiple zones**
- Reliable outside combustion air connection
- **Industry leading Lifetime Limited Warranty**
 - Natural gas or propane (easy oil convert)
 - Outstanding state-of-the-art engineering

POLYPROPYLENE VENTING.
No need to install expensive SS liners!

®

* Data and conclusions are drawn from the report "Performance of Integrated Hydronic Heating Systems" (2007), Energy Resources Division, Department of Energy Sciences and Technology, BNL, Under Contract No. DE-AC02-98CH10886 with the United States Department of Energy by Dr. T. Butcher; and "Chimney Related Energy Losses in Residential Oil-Fired Heating Systems" (1990). As an ENERGY STAR® Partner, Energy Kinetics has determined model EK1R meets ENERGY STAR guidelines for energy efficiency for gas heat input 80 MBH. © The color yellow for heating boilers is a registered trademark of Energy Kinetics.



90+ Resolute is an integrated system – makes both heat and hot water!

Homeowners enjoy economical heat, plus virtually endless hot showers with lower energy costs.

90+ RESOLUTE INCORPORATES MULTI-FUEL TECHNOLOGY

Don't get trapped with one fuel! Our multi-fuel system achieves 90+ AFUE for oil *and* gas. Simply install an orifice to change between natural gas and propane systems, or use our burner option to change between gas and liquid fuels like Bioheat and oil.

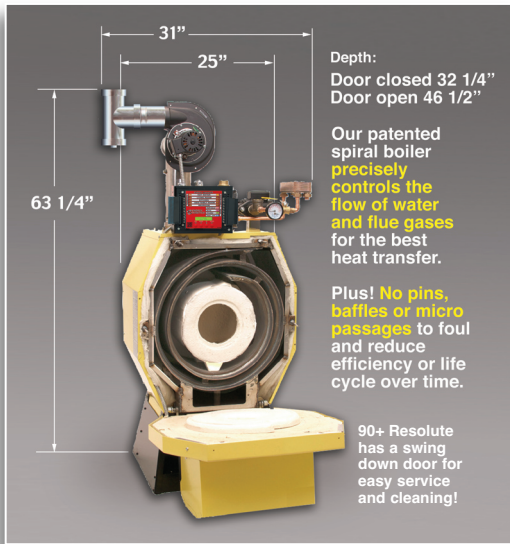
HYBRID ENERGY RECOVERY® (thermal purge) – Other boilers shut off with energy left wasted in the boiler. But 90+ Resolute Hybrid Energy Recovery® automatically sends remaining heat to the top of the hot water storage tank, or directly into your living spaces. This means the boiler finishes colder and no energy is left wasted. The result: More of your energy dollars provide heat during every cycle, delivering the best possible energy savings.



No chimney is needed! Ground level venting stays relatively cool!



Or, our flexible polypropylene chimney vent is an attractive option where ground level venting isn't practical. (SEE REVERSE)



Depth:
Door closed 32 1/4"
Door open 46 1/2"

Our patented spiral boiler precisely controls the flow of water and flue gases for the best heat transfer.

Plus! No pins, baffles or micro passages to foul and reduce efficiency or life cycle over time.

90+ Resolute has a swing down door for easy service and cleaning!

Energy Converter Weight 270 lbs.

Beyond AFUE . . . for the best efficiency!

AFUE does not accurately rate heat and hot water systems and misses *significant* areas of energy loss. This means there are tremendous opportunities to increase efficiency over AFUE estimates alone. The Department of Energy's Brookhaven National Labs study demonstrates our design as the top performing system, saving 38% over other new boilers. And it gets better! In fact, the 90+ Resolute improves on the highest real efficiency of all tested systems!

(See the footnote at bottom of page 1.)

INSTALLATION FLEXIBILITY



MULTIPLE VENTING OPTIONS
Chimney or sidewall direct venting



FEATURES

- Carlin EZ-Gas burner and accessories
- Serviceable with normal stock parts
- Proven pressure vessel durability with over 35 years of longevity
- Venting hood and fan prover with over 15 years of field operation
- No troublesome condensate pump
- Blocked vent, blocked intake and fan prover safety circuits for reliable operation
- Use with standard, low sulfur, ultra low sulfur (USL) heating oil and biofuel (up to B20 blends)



MORE FEATURES

BENEFIT

Next generation sidewall vent	Save thousands on chimney construction
15 feet forced counter flow passages	Maximum heat recovery
Low net stack temperature	Stainless and polypropylene vent
Water content: 2½ gal.	Rapid heat up, cool down
Wet base design	Minimizes heat losses
High temp ceramic combustion chamber	Clean, safe, and durable
Jacket & insulation: 90 lbs.	Minimizes heat losses
Buried combustion	Whisper quiet operation
3/16" pressure vessel steel throughout	50% thicker than boiler tubes
ASME code construction and National Board of Pressure Vessels registered	Carefully inspected, pressure tested, and certified
All welded and threaded connections	No gaskets to leak or service
Built-in dynamic air elimination	Eliminates air from system, no "gurgles"
Front cover removable	Easy service and access to all components
Large open water and flue passages	Easy to clean and inspect
Small size	Compact installations

Thermal purge energy recovery standard on all systems

Sizing: Install 90+ Resolute in homes using up to 1500 gallons of oil per year; up to 2200 gallons of propane per year; or up to 2100 therms of natural gas per year.

Natural gas and propane home heating system

Model	Input Rating (MBH)	Heating Capacity (MBH)	AFUE	Domestic Hot Water*
EK1R	80	73	89.9	135
EK1R-100	100	91	89.4	175
EK1R-150	150	135	88.1	205

*Domestic hot water rating based on first hour draw with 67°F rise and a 3 gpm draw on a 40 gallon tank; first hour draws over 195 gallons are calculated based on continuous draw with 67°F rise at maximum flow rate.



Scan code at left to visit our website.

Lifetime Limited Warranty on Energy Display Manager and on ASME pressure vessels. See actual warranty for details.

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