

Taking Comfort and Efficiency to the Next Level

An Investment You'll Feel Right at Home with

Heating your home or business is one of the biggest investments you'll ever make...and you deserve a heating system that delivers unmatched comfort, dependability and energy savings, year after year. That's why Efficiency+ from Lochinvar is the smart choice for heating.

Efficiency+, with inputs ranging from 150,000 to 300,000 Btu/hr, more than lives up to its name, with an outstanding 84% AFUE. It has two-stage firing that saves fuel by closely matching heat output to system demand, maximizing operating efficiency.

Two-Stage Firing

During the majority of the heating season less than full boiler input is required to satisfy a heat load. For this reason Lochinvar has developed a two-stage firing system. Two-stage firing — standard equipment on all Efficiency+ boilers —provides dramatic fuel savings by reducing heat output 50%. That means when outdoor temperatures become warmer, the boiler will use less fuel to maintain comfortable indoor temperatures.



With standard two-stage firing, Efficiency+ reduces gas consumption.

On colder days the boiler fires at full input.

In warmer conditions Efficiency+ reduces heat output to save energy and reduce cycling.

Trouble-Free Operation

There's nothing more irritating than a boiler that sputters out when you need it most. That's why Efficiency+ has an integrated boiler control that ensures safe burner operation and prevents nuisance flame-failures.

Efficiency High Efficiency, Gas Fired Heating Boiler



Efficiency+ is also designed to operate on low gas pressure — a key consideration in regions where natural gas supply pressure is in the 4 - 5 inch range.

Space-Saving Design

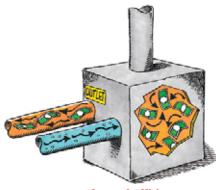
With Efficiency+, you get high efficiency heating in a surprisingly compact unit. It fits easily where other boilers won't.

The Efficiency+ is remarkably light because of its copper tube heat exchanger and other design breakthroughs. For example, Efficiency+ uses Loch-HeatTM tile to reduce unit weight by 25% as compared to conventional cast refractory

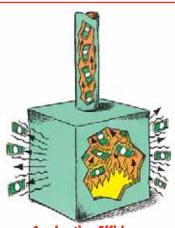


materials. Loch-Heat tile also increases efficiency by reflecting heat back into the combustion chamber rather than absorbing it.

Thermal Efficiency—Your Reliable Yardstick For Savings



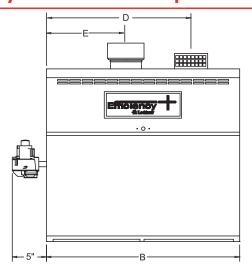
Thermal Efficiency

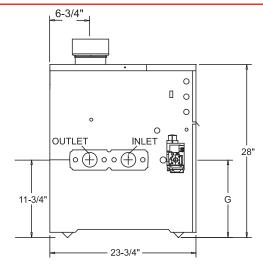


Combustion Efficiency

Efficiency+ has an 84% thermal efficiency rating, which means 84 cents out of every fuel dollar are used to create heat. Other efficiency ratings can be misleading and result in artificially high ratings.

Efficiency+® Boiler Dimensions & Specifications





(3)	Efficiency+ Boiler				Dimensions & Specifications						
Model Number	Input Max MBH	AFUE %	Heating Capacity MBH	Net I=B=R MBH	В	D	E	G	Gas Conn.	Vent Size	Shipping Weight
EBN150	150	83.2	129	112	19-3/4"	16"	7-1/4"	11-3/4"	3/4"	5″	245
EBN200	200	83.1	170	148	23-3/4"	20"	9-1/4"	11-3/4"	3/4"	5″	265
EBN250	250	83.2	218	190	27-1/2"	23-3/4"	11"	11-3/4"	3/4"	6"	290
EBN300	300	84.0	252	219	31-1/4"	27-1/2"	13″	11-3/4"	3/4"	6"	310

Notes: Change 'N' to 'L' to denote L.P. gas models Net ratings based on piping and pick-up allowance of 1.15 Electrical Requirements: 120 VAC / 2 AMP Water connections are 1-1/2" NPT Performance data based on manufacturer test results.

Standard Features

- 84% AFUE
- Two Stage Firing
- Sealed Combustion Chamber
- Stainless Steel Burners
- Low NOx Operation Exceeds the most Stringent Air Quality Requirements
- ASME Copper Finned Tube Heat Exchanger
- 160 PSI Working Pressure
- Gasketless Heat Exchanger Design
- Automatic Reset High Limit
- Loch-Heat Ceramic Tile Combustion Chamber
- Hot Surface Ignition
- ASME Pressure Relief Valve
- 24 Volt Control System
- Pump Relay

• 10 Year Limited Warranty on Heat Exchanger (See warranty for details)

Optional Equipment

- Adjustable High Limit w/ Manual Reset
- Alarm Bell
- · Cupro-Nickel Heat Exchanger
- Flow Switch
- Indoor/Outdoor Reset
- · Manual Reset Low Water Cut-Off w/test
- MP² Sequencer
- Stack Frame
- Pump Delay w/ Freeze Protection

Available Firing Systems

M9 Hot Surface Ignition with **Electronic Supervision** (Standard)

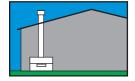
M7 California Code

For Ease In Ordering By Model Number



This is a 150,000 Btu/hr natural gas Efficiency+ boiler. Registered Under U.S. Patent #5,989,020

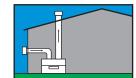
Venting Options



Conventional Vents into conventional flue or vent breaching using Type B double wall vent.



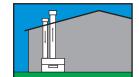
** Outdoor Vent Kit Use when indoor space is a problem or if outdoor location gives better access.



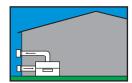
** E+ DirectAire Vent with

Sidewall Inlet

Draws fresh combustion air from an outside wall horizontally, and vents combustion by-products through a vertical flue.



Direct Vent Vertical Draws fresh combustion air from outside, and vents combustion by-products through a vertical flue.



** Direct Vent Horizontal Draws fresh combustion air from outside, then vents by-products through a side wall.

** Requires factory supplied vent kit.













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