



Your Simplest, Smartest Choice in Commercial Water Heating

Everyday your customers count on you for dependability and efficiency...and that's what you should expect from your water heater, too.

Efficiency+ from Lochinvar delivers unsurpassed performance, reliability, and energy savings, year after year. If you're too busy running a business to worry about hot water, this is the perfect unit for you!

- **Thermal Efficiency**—your most reliable yardstick. Efficiency+ delivers a remarkable thermal efficiency of 85%. Most competitive models peak at 80%.
- **Scale-Free Operation**—Severe lime/scale accumulation can destroy your water heater and increase your operating costs! Efficiency+ fights the effects of lime/scale with its scrubbing action water flow through a solid copper heat exchanger, providing longevity and saving you money.
- **The Reliability Leader**—The internal diagnostic panel provides instant status of heater operation. It continuously monitors flame performance and can even restart the ignition sequence *automatically*.
- **Loch-Heat™ Ceramic Tile**—increases efficiency by reflecting heat back into the combustion chamber.
- **Direct Venting Convenience**—draws combustion air directly from outdoors, preventing contamination from airborne dirt particles and chemicals, while isolating the heater from negative air pressures often found in restaurants and other mechanical spaces.

Efficiency+

High Efficiency, Commercial Gas Water Heaters

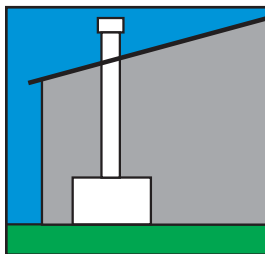


Fuel Savings Chart*

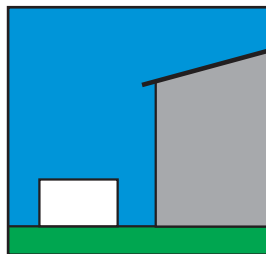
Gallons per Day Water Usage	Btu required @75% Thermal Efficiency	Btu required @85% Thermal Efficiency	Btu Savings Per Day	Yearly Fuel Savings	Fuel Savings Over 5 Years
500	550,000	485,294	64,706	\$267	\$1,334
750	825,000	727,941	97,059	\$400	\$2,002
1,500	1,650,000	1,455,882	194,118	\$801	\$4,003
3,000	3,300,000	2,911,765	388,235	\$1,601	\$8,006
5,000	5,500,000	4,852,941	647,059	\$2,669	\$13,344

*Calculated at \$0.85 per therm with a 100°F temperature rise.

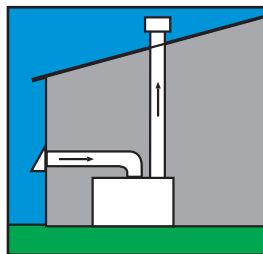
Venting Options



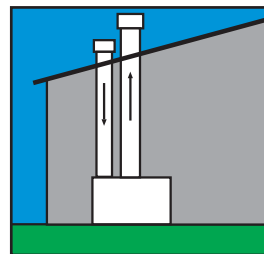
Conventional
Vents into conventional flue or vent breaching using Type B double wall vent.



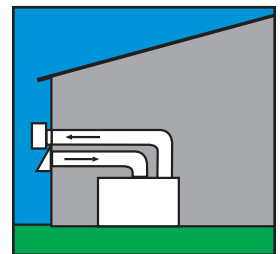
* **Outdoor Vent Kit**
Use when indoor space is a problem or if outdoor location gives better access.



* **E+ DirectAire Vent with Sidewall Inlet**
Draws fresh combustion air from an outside wall horizontally, and vents combustion by-products through a vertical flue.



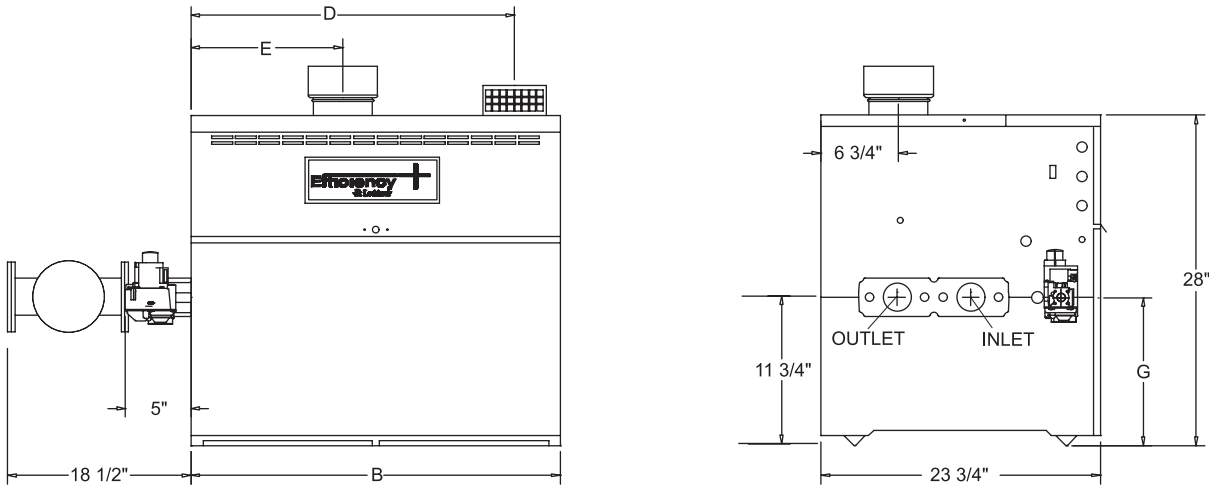
Direct Vent Vertical
Draws fresh combustion air from outside, and vents combustion by-products through a vertical flue.



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

* Requires factory supplied vent kit.

Efficiency+® Water Heater Dimensions & Specifications



Model Number	Btu/hr Input	GPH @ 100°F Rise	B	D	E	G	Vent Size*	Gas Conn.	Shipping Weight
EWN150PM	150,000	155	19-3/4"	16"	7-1/4"	11-3/4"	5"	3/4"	300
EWN200PM	199,999	206	23-3/4"	20"	9-1/4"	11-3/4"	5"	3/4"	315
EWN250PM	250,000	258	27-1/2"	23-3/4"	11"	11-3/4"	6"	3/4"	355
EWN300PM	300,000	309	31-1/4"	27-1/2"	13"	11-3/4"	6"	3/4"	360

Note: Change 'N' to 'L' for LP gas models.
Air inlet equals vent diameter.

Water connections for models (EW 150-300) are 2" NPT on 6-1/4" centers.
Performance data based on manufacturer test results.

* Vent size is for conventional venting, venting options require 1" smaller vent diameter.

Standard Features

- 85% Thermal Efficiency
- 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
- All Bronze Circulating Pump
- Pump Delay w/ Freeze Protection
- Manual Reset High Limit
- Automatic Reset High Limit
- Remote Tank Thermostat
- Glass-Lined Water Surfaces
- Loch-Heat Ceramic Tile Combustion Chamber
- Hot Surface Ignition
- ASME Temperature & Pressure Relief Valve
- 24 Volt Control System
- 3 Year Limited Warranty on Heat Exchanger (See warranty for details)

Optional Equipment

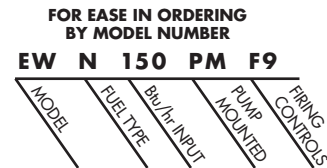
- Adjustable High Limit w/ Manual Reset
- Alarm Bell
- Contacts on any Failure
- Cupro-Nickel Heat Exchanger
- Flow Switch
- Low Water Cut-Off
- Multi-Stack Frame

Venting Options

- E+ DirectAire
- Direct Vent Vertical
- Direct Vent Horizontal
- Outdoor

Available Firing Systems

- F9 Hot Surface Ignition with Electronic Supervision
- F7 California Code



This heater is a 150,000 Btu/hr natural gas Efficiency+ water heater. It is pump mounted and has F9 firing controls.

Registered under U.S. Patent No. 5,989,020



Lochinvar®
High Efficiency Water Heaters, Boilers and Pool Heaters



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