

Summit

Hot Water Generator



Increased

Volume, Lower

Operating Cost



More Hot Water, Less Operating Cost!

Reduce your customers' operating costs up to 40% when you replace their conventional water heater with a new Laars Summit. Return on investment is quick and substantial.

The Summit is a low mass, condensing, modulating water heater that utilizes a stainless steel economizer coil to achieve operating efficiencies of up to 96%. The low mass heat exchanger eliminates standby and radiation losses typically suffered by chimney vented, tank type water heaters.

Featuring a direct vented, room sealed, combustion system, the Summit weighs just 275 lbs. (125 kg). It can be installed on combustible floors and requires just 1" (25mm) clearance from combustibles for the jacket and zero clearance for venting! These features ensure that the Summit can be installed just about anywhere.

If you are concerned about the environment, you will be glad to know that the Summit has less than 15ppm of Nitrous Oxide (NOx) in its exhaust.

Summits are constructed to strict quality control standards with every single water heater being test fired at the factory prior to shipment.

If you have a requirement for a high volume of domestic hot water, the Summit is the obvious answer. Not only will it fully satisfy your requirements, it will do so at the minimum cost.

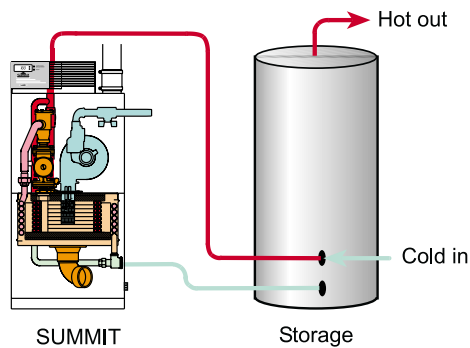


Figure 1
Typical Installation
(Advantages to separate components)

- Tank failure — only tank is replaced
- Tank of preference can be utilized
- Summit can supply an existing tank in retrofit conversion

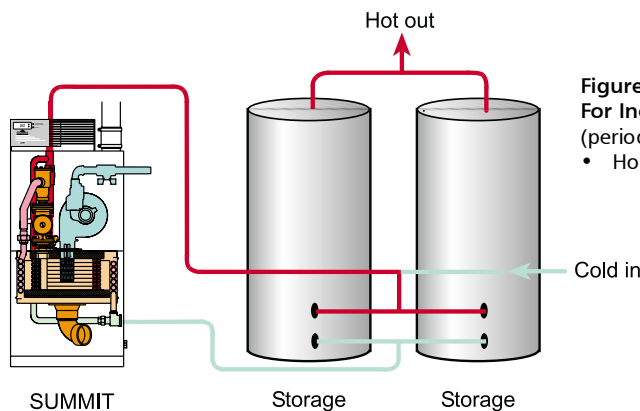


Figure 2
For Increased Storage
(periodic heavy loads)

- Hotels and motels

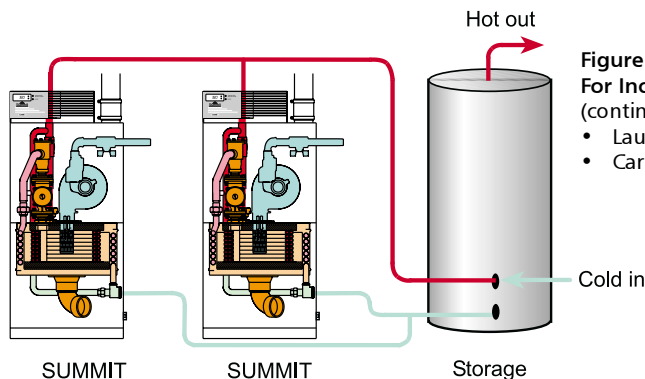


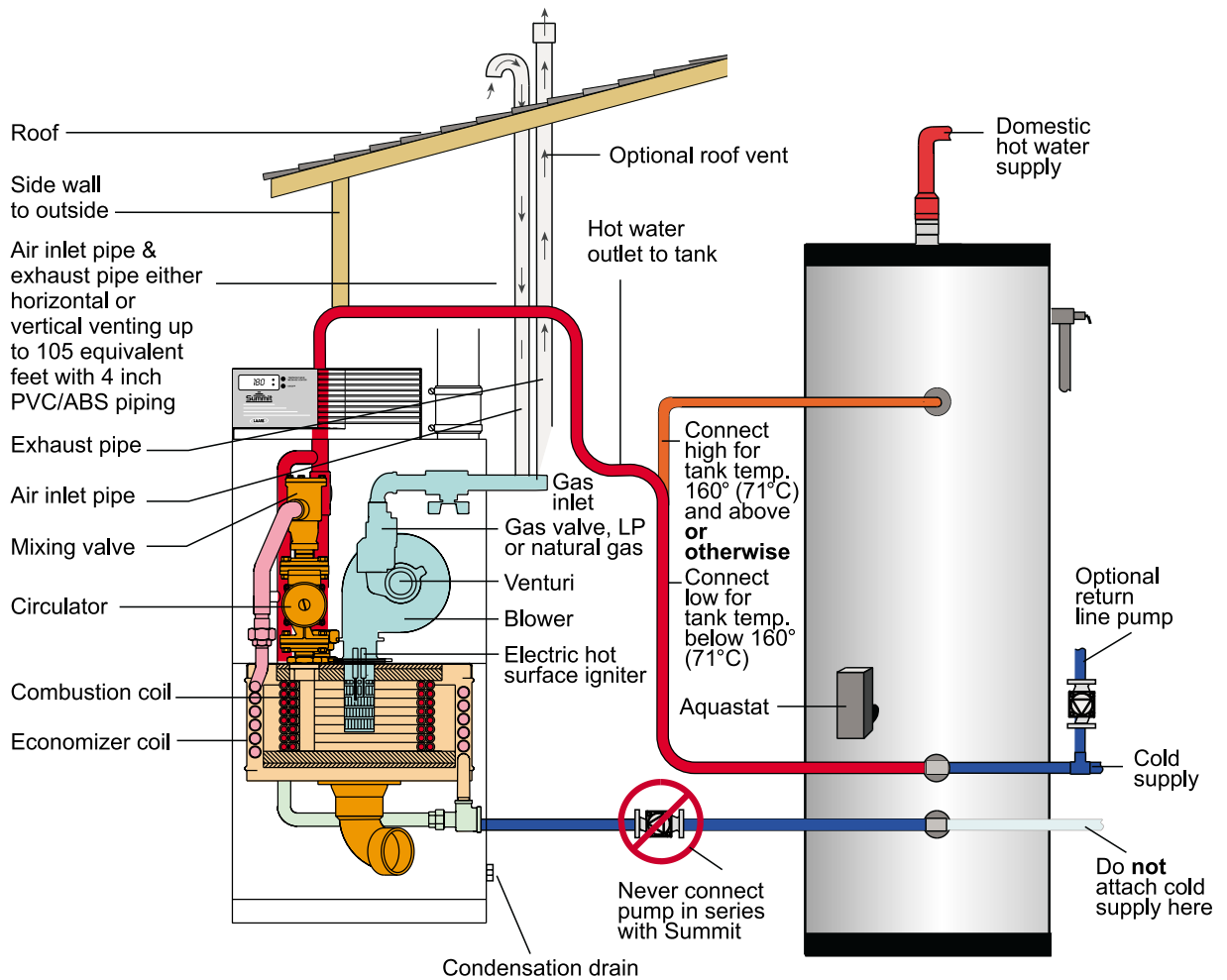
Figure 3
For Increased Recovery
(continuous heavy demand)

- Laundromats
- Car washes

Stainless Steel Economizer Coil - Up to 96% Efficiency



The stainless steel economizer coil that surrounds the finned copper heat exchanger serves two purposes. It squeezes the last drop of energy out of the flue gases as they leave the primary heat exchanger and it provides a safe place for condensation to occur. If condensation were to take place on the primary/copper heat exchanger, it would cause scaling which would require continuous cleaning or replacement of the coil. The Summit's stainless steel economizer coil eliminates this threat while maintaining the high efficiencies only available in condensing water heaters.



Applications

- Apartment Buildings
 - Commercial/Industrial Buildings
 - Hotels
- Schools and Dormitories
 - Hair Salons
 - Health Clubs
 - Laundromats
- Car Washes
 - Restaurants (provides 180°F (82°C) water required for dish washing)

Summit Specifications

Indoor Size	Fuel Type	Input		Output		Water Conn Size	Shipping Weight	
		MBTU/hr	kW	MBTU/hr	kW		lbs.	kg
SMW-200	NG/LP	126-199.9	37-59	120-192	35-56	1¼	275	125
SMW-250	NG/LP	126-257	37-75	120-245	35-72	1¼	275	125

Recovery Table

Design Temperature Rise Across Boiler

Indoor Size	60°F	33°C	80°F	44°C	100°F	56°C
	GPH	mL/s	GPH	mL/s	GPH	mL/s
SMW-200	388	408	289	304	231	243
SMW-250	495	520	371	390	297	312

Summit Specifications

Engineering Specifications for Summit SMW-200/250

Hot water generator is a circulating tank type, high efficiency condensing modulating water heater. SMW-250 is design certified, capable of supplying up to 297 gallons per hour (312mL/s) of hot water at 100°F (56°C) rise and complies with the American National Standard for gas water heaters (ANSI Z21.10.3 — latest edition).

Units have corrosion resistant waterways comprised of a primary SB359 copper finned tube heat exchanger with a stainless steel secondary economizer heat exchanger constructed of type 304 stainless steel.

Units are forced draft, sealed combustion and vented with 3" or 4" CPVC or an AL29-4C stainless steel venting system that conforms to UL Standard 1738 through

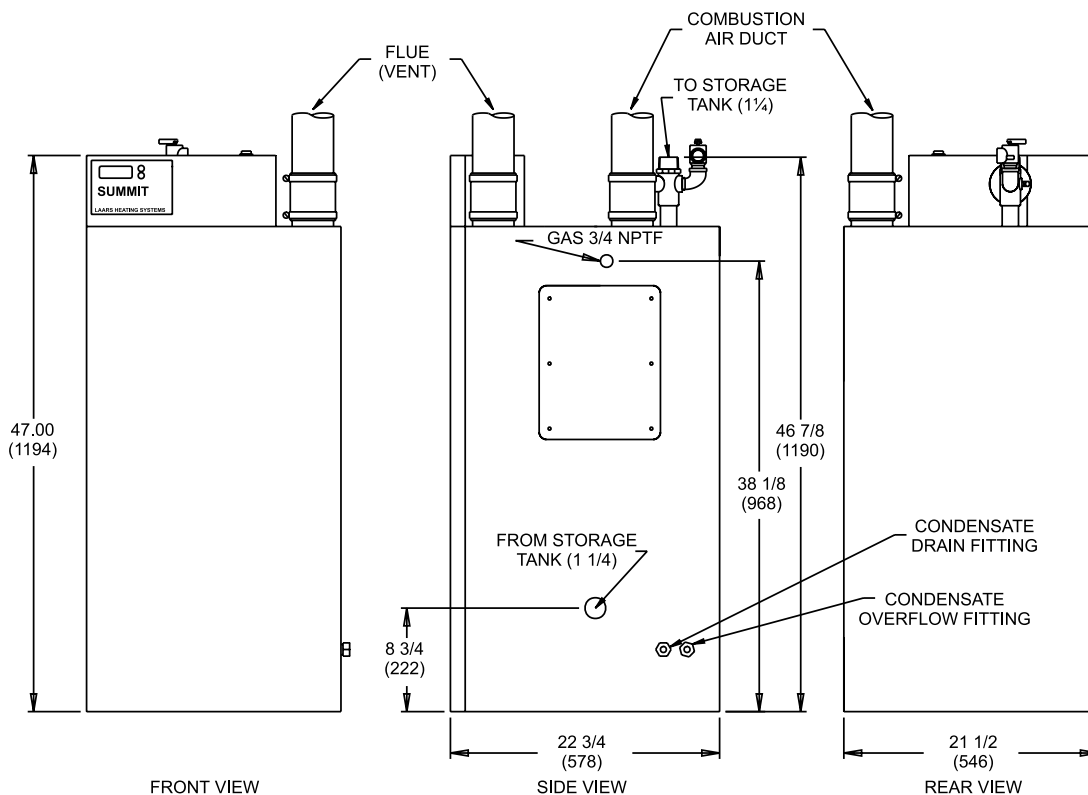
side walls. Either unit is capable of producing 96% thermal efficiency with under 20 ppm NOx emissions.

Units feature a hot surface ignition with integral diagnostic modulating burner control. Unit is equipped with a factory wired and mounted 115v/24v transformer, manual reset high limit, on/off switch, and negative pressure redundant gas valve.

Units feature factory piped internal mixing valve and an internal circulating pump, which has a bronze body with stainless steel impeller, capable of providing flow to an external tank.

Units are suitable for installation on combustible flooring with a minimum clearance of one inch (25mm) on all sides.

Covered by a five (5) year limited manufacturer's warranty.



LAARS
HEATING SYSTEMS

Waterpik Technologies, Inc.
6000 Condor Drive, Moorpark, CA 93021 • 805.529.2000 • FAX 805.529.5934
20 Industrial Way, Rochester, NH 03867 • 603.335.6300 • FAX 603.335.3355
480 S. Service Road West, Oakville, Ontario, Canada L6K 2H4 • 905.844.8233 • FAX 905.844.2635

www.laars.com

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