

# Slant/Fin





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# VSL-160

The Stainless Steel - Modulating  
Condensing Gas Boiler with optional  
Domestic Hot Water Generator

## VSL-160 Boiler Features

- 91.5% AFUE Efficiency 
- Stainless Steel Heat Exchanger
- Modulation ratio 1:5.3
- Unparalleled resistance to corrosion
- Microprocessor control with safety function and autodiagnosics
- Outdoor Reset
- Direct Vent / Sealed Combustion
- ASME approved SS heat exchanger
- Low pressure drop through heat exchanger
- Low lead CSA approval to meet Vermont and California legislation 
- Quiet operation

### Combi Unit Includes

- Circulator
- Equipped with 2.6 gallon expansion tank and boiler loop circulator
- Domestic hot water heat exchanger
- Abundant domestic hot water with standard diverter valve included



Model No. VSL-160



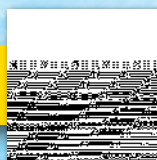
The stainless steel primary exchanger with shared radial circulation, the VSL160 air/gas modulation system, the Acquajet DHW exchanger and the Hydroplus electronic control are all European design and tested. The Slant/Fin VSL-160 condensing gas boiler stands at the top in performance, safety and environmental ratings. The boiler is equipped



with a stainless steel ferralloy fiber mesh burner and is available for natural gas or propane. Condensate washes combustion residue away when streaming down the tubes resulting in constant efficiency and reduced maintenance. The ASME Stainless Steel Heat Exchanger has unparalleled resistance to corrosion.

\*See Registration Card for details.

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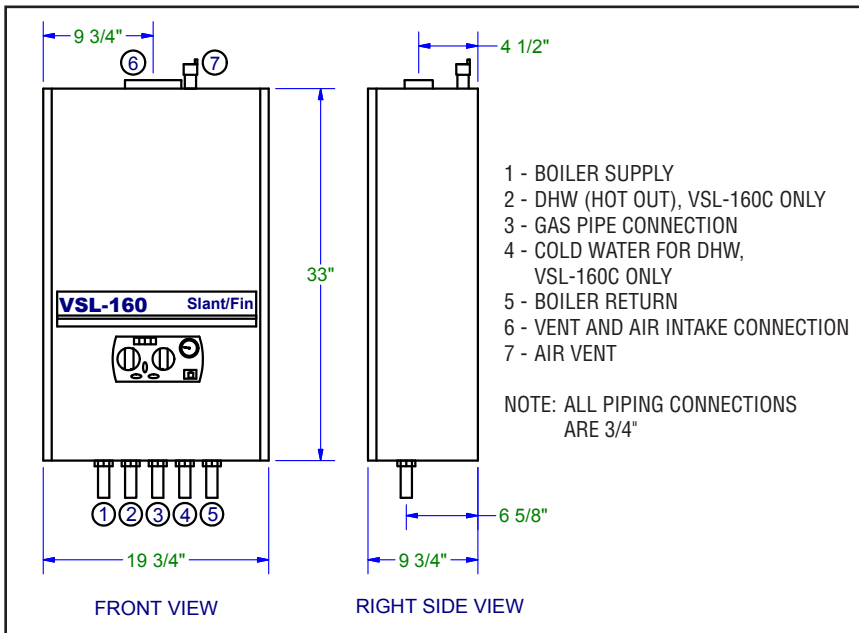
## Standard Equipment

- |   |   |
|---|---|
| Stainless steel heat exchanger                      | Pressure gauge                              |
| Pre-assembled jacket                                | Tank sensor for indirect heater (160B only) |
| Fecralloy fiber mesh premix burner                  | Pressure relief valve (ASME) - 30 psi       |
| Patented premix Cosmomix System                     | Outdoor reset sensor                        |
| Integrated boiler control with built-in diagnostics | Built-in condensate drain and trap          |
| Direct spark ignition system                        | Wall hanging bracket                        |
| Air vent  |   |

Natural gas - field convertible to LP

### Combi Unit Includes - (VSL-160C)

- Expansion tank
- Circulator (Grundfos)
- Domestic hot water heat exchanger
- Diverter valve



The VSL Condensing Wall Mounted Boiler features a uniquely designed stainless steel heat exchanger and offers 91.5% AFUE. The boiler can reach an efficiency up to 98% if the outdoor reset is connected and activated. The VSL has the capability to modulate the firing rate to less than 20% of its rated input. This modulation means fewer cycles resulting in lower operating costs. An easy to use control, displays system status and fully adjustable parameter values plus diagnostic codes for easy troubleshooting and optimum system performance. The combi-boiler provides cost-effective, reliable heat and an abundant supply of domestic hot water. The VSL-160 can be vented through separate or concentric piping systems. This boiler is ready to wall mount and requires minimal installation space. It operates quietly and features a heavy duty steel jacket.

### VSL VENT/AIR INTAKE OPTIONS

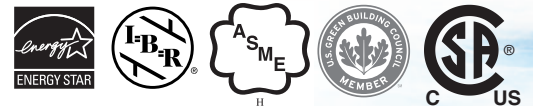
Concentric or separate vent and air piping may be used for venting of the VSL Boilers

**Separate Vent & Air Piping:** Special Adapter is required, available through Slant/Fin

Venting Material: 3" PVC, 3" CPVC, 3" nominal Polypropylene or SS  
 Air Intake Material: 3" PVC sch. 40, 3" nominal Polypropylene or SS  
 Max allowed equivalent length 300 ft. (total of the flue plus air intake pipes)

**Concentric (Coaxial) Piping System:** Components available through Slant/Fin

Vent/Air Intake Material: 3.94"x 2.36" Polypropylene  
 Max allowed equivalent length 70 ft.



Model	AFUE	Input Max Btuh	Input Min Btuh	D.O.E. Heating Capacity	Net I=B=R Output	Water Volume	Dry Boiler Weight
VSL-160	91.5%	160,000	30,000	142,000	123	1.2 Gal	125 lbs. (160C) 93 lbs. (160B)

### DHW Temp. Rise vs. Water Flow (VSL-160C)

Temp. Rise $\Delta t$ -°F	DHW Flow Rate - GPM
60	5.0
75	4.0



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