

# *Slant/Fin* **BOBCAT**

High performance condensing gas boiler

**The next generation.  
Reliable, Better Performance!  
93% Efficiency!**

**Free 5 year parts & labor  
warranty included when  
registered upon installation!**



Since 1949  
***Slant/Fin***  
BOILERS & BASEBOARD  
The Only Name You Want Heating Your Home.

**2 models, 4:1 modulation—  
B-120A: 30,000 to 120,000 Btuh and  
B-200A: 50,000 to 200,000 Btuh**

Born and bred in the USA  
U.S. Patent No. US 7,013,843 B1

# A major achievement in sealed combustion, condensing-boiler evolution!

*Beautifully designed for better performance, smoother installation and the ultimate in application versatility.*

- The world-class, low maintenance, condensing boiler made in the USA
- High efficiency—**93% AFUE**
- Advanced design long life aluminum heat exchanger. Large diameter waterways stay clean
- 2 models, 4:1 modulation provides input range of 30,000 to 120,000 Btuh and 50,000 to 200,000 Btuh
- Quiet operation

## Reliable technology. Low mass design.

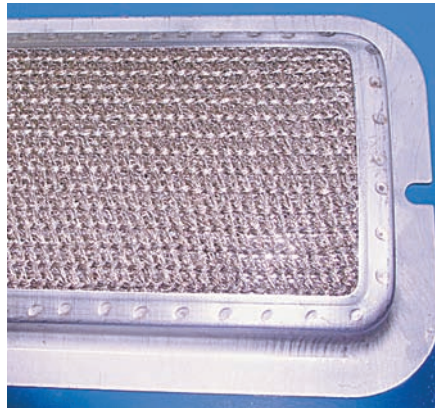
The Bobcat boiler utilizes an advanced low mass heat exchanger design that makes it highly reliable and robust. Bobcat's patented 14-pass continuous flow design, with 1-inch water passages, helps maintain better velocity, prevent plugging and virtually eliminates risk of flashing into steam.



*Serpentine water passages are 1" diameter to help ensure trouble-free performance.*

## Knitted metal fiber burner.

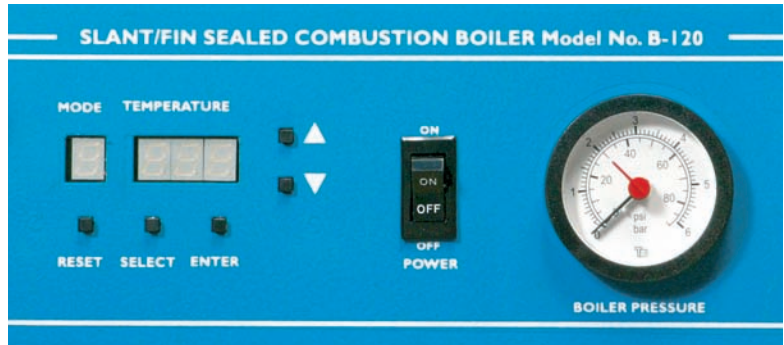
Designed specifically for high efficiency condensing boiler applications, ensures extremely low emissions and full modulation. The burner's metallic composition enhances the flame detection signal for reliable performance. The boiler utilizes a reliable spark ignition system.



*Knitted metal fiber burner is proven state-of-the-art design. Supports modulated flame.*

## Modulation reduces wasteful cycling, maximizes fuel savings.

Just as stop and go driving wastes fuel, so does on and off cycling of your boiler. On very cold days your boiler may operate continuously to heat your home. However, on warmer days, an ordinary boiler with unchanging output will repeatedly turn its burner on and off. This puts out lots of BTUs for short periods of time, wasting fuel with every new ignition.



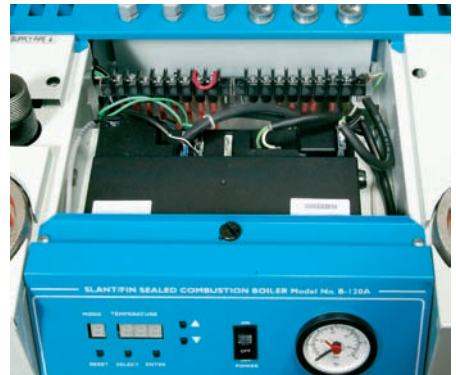
*Control panel on front makes set-up and diagnostics simple. Provides important status information.*

- 12 year limited warranty with **5 year parts and labor warranty**
- Floor standing or wall hung
- Natural or L.P. gas
- Schedule 40 PVC or CPVC or stainless steel for vent pipe—100 ft. for B-120A and 50 ft. for B-200A
- All connections on top
- Low NOx -- friendly to the environment
- Ideal for radiant, baseboard, DHW or mixed applications

On warmer days, the Bobcat automatically reduces its BTU input using a proper lower level of fuel consumption. This reduces cycling dramatically. In addition this causes the heat exchanger to enter the condensing mode. Here, the Bobcat maximizes heat extraction from the combustion gasses and significantly reduces your fuel bills.

## Microprocessor manages boiler performance.

With information it receives from an outdoor sensor, room thermostat, flame sensor and other devices on the boiler, the microprocessor monitors boiler performance and controls temperatures and the sequence of operation. It also controls the domestic hot water temperature, boiler output and fuel saving modes. LED readout on the control panel displays current conditions, set-up details and diagnostic information.



*Electronic boiler control optimizes efficient operation. Easy-access terminal strip speeds wiring.*





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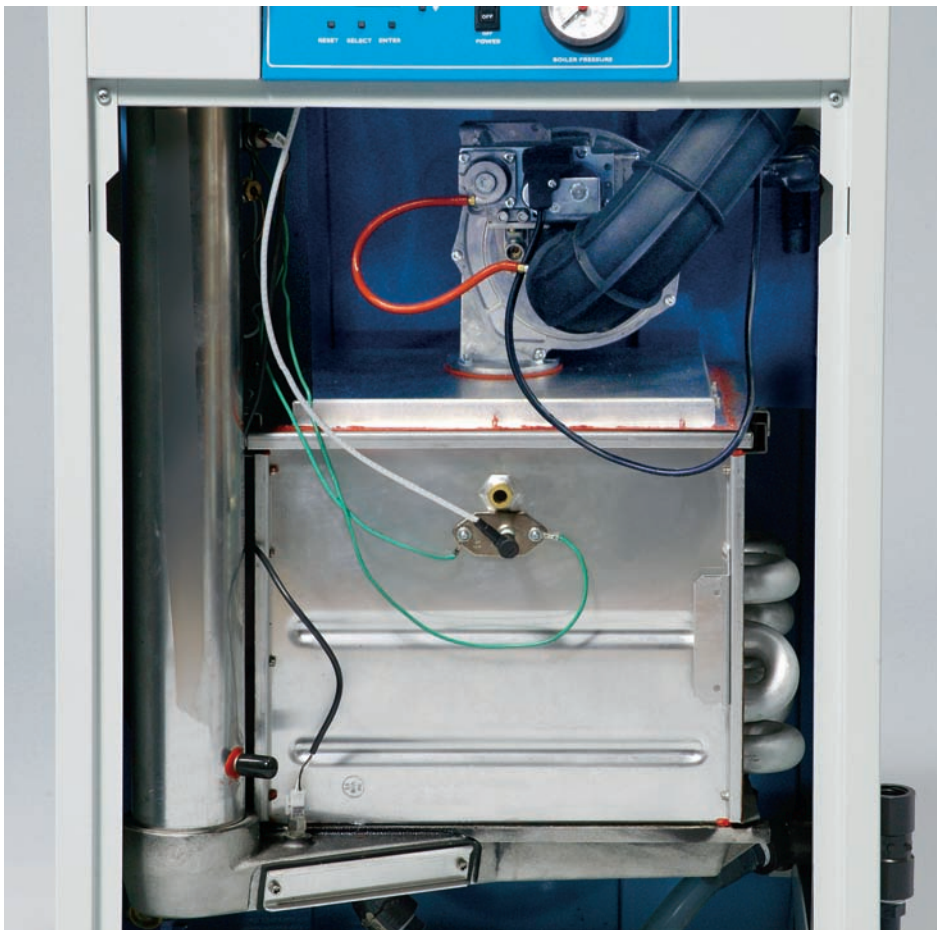
**Compact, sleek and powerful, Bobcat provides 93% Annual Fuel Utilization Efficiency (AFUE) resulting in significant fuel savings. Aluminum heat transfer plates and tubular waterways are corrosion-resistant and heat up quickly. Bobcat is easy to handle and can be installed floor standing or wall mounted.**

**Sealed combustion offers added economies and safety.**

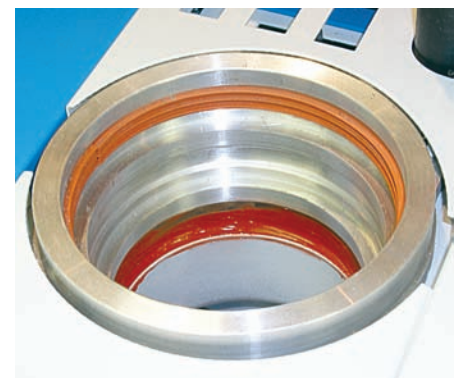
The Bobcat boiler operates in total isolation from household air. The combustion process is “sealed” inside the boiler, with intake air and exhaust pipes connected directly to the outdoors. However, when the alternative non-direct venting method is chosen, inside air is used for combustion.

**Easy, smooth installation—almost anywhere in house.**

The lightweight Bobcat boiler is designed for easy handling and speedy installation. The shipping crate lifts right off and built-in lifting ports on the boiler assist in moving it from skid to floor or wall mount location. Other Bobcat boiler features include top connections for water, gas, vent and electric. Schedule 40 PVC or CPVC or stainless steel pipe can be used for intake and exhaust. 100 ft. of equivalent length pipe for the B-120A and 50 ft. for the B-200A can be used, allows you to install the boiler almost anywhere. Quick seal vent pipe connections ensure easy positive seal.



Air intake, gas valve and blower on top downfires into heat exchanger for high efficiency



Self-sealing connectors speed installation of vent and air intake pipe.

# Slant/Fin<sup>®</sup> BOBCAT

High performance condensing gas boiler

## Standard Equipment

Pre-assembled aluminum exchanger  
Pre-assembled jacket  
Woven metal fiber pre-mix burner  
Blower, gas valve and venturi  
Integrated boiler control with built-in diagnostics and display  
Outdoor reset control  
Direct spark ignition system

Pressure gauge  
Pressure relief valve (ASME)  
High head circulator for primary loop  
Drain cock  
Built-in condensate drain and trap  
Vent and air intake terminal  
*For propane, specify when ordering.*

Dimension	B-120A	B-200A
A	22	30
B	23 7/8	31 7/8
C	33	38
D	35	40
E	7	10

All dimensions shown in inches.

U.S. Patent Number:  
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SPECIFICATIONS:	B-120A Boiler	B-200A Boiler
Fuel Rate Input:	120,000 BTUH max 30,000 BTUH min	200,000 BTUH max 50,000 BTUH min
D.O.E. Capacity	109 MBH	182 MBH
Net I=B=R	95 MBH	158 MBH
Boiler Water Volume:	1.0 gallon (8.3 lbs)	1.4 gallon (11.7 lbs)
Water Piping Connections:	1" NPT (male)	
Weight of Boiler (uncrated):	145 lbs.	200 lbs.
Gas orifice size:	Natural Gas - No orifice used*	
	Propane - .2025" inside diameter	Propane - .260" inside diameter
Gas Piping Connection:	1/2" NPT (female)	
Vent Connection:	3" nominal I.D. pipe (Schedule 40 PVC, CPVC or stainless steel)	
Air Intake Connection:	3" nominal I.D. pipe (PVC, Schedule 40 CPVC or stainless steel)	



USGBC focuses on practices that increase a building's efficiency to harvest and use water, energy and materials.



\*Note: No orifice changes are required for high altitude installations.



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