



Balanced Combustion System™

Oil-Fired and Gas-Fired Water Heaters
Residential/Light Commercial: Single-Flue



The Balanced Combustion System is perfect for installations in which it is not possible to connect to a chimney, today's "tightly" constructed homes or confined areas with limited airflow, such as businesses that have negative airflow caused by using large exhaust fans (i.e.- restaurants).

The BCS vent is a chamber within a chamber. Heated flue gas is exhausted through an inner chamber, while cool outside air is pulled in through a surrounding outer chamber. This allows outside air to be preheated prior to combustion, while providing a cool outer surface for mounting through combustible materials. Available for oil or gas configurations.

Whatever your hot water needs, there's a Bock just right for you:

Bock water heaters are perfect for all residential applications, particularly those with high-volume hot water demands. Today's homes not only require a dependable and economic hot water source, but also one that offers fast recoveries to meet high demand.

In commercial and industrial applications; from light demand to continuous-use requirements, our outstanding recovery capabilities make Bock water heaters ideal for food service, hospitality, health care, office buildings and many more.

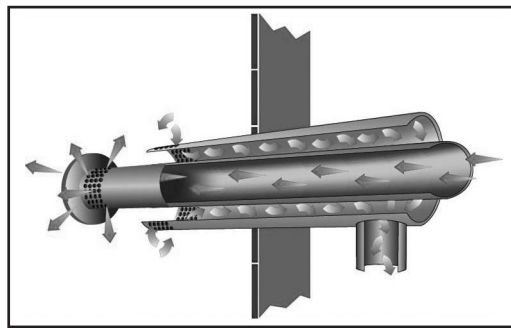
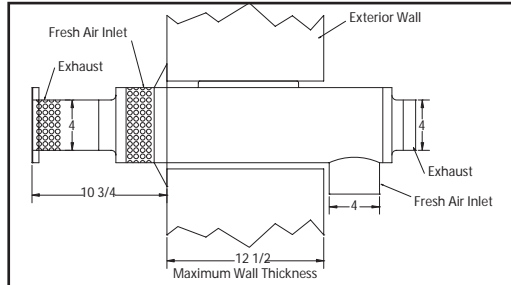
- ◆ **Standard length BCS vent** - (30½") for wall thickness up to 12".
- ◆ **BCS vent** - all stainless steel construction.
- ◆ **Circumferential combustion clearance** - ½" minimum
- ◆ **Direct side wall venting** - eliminates noxious fumes and odors.
- ◆ **BCS unit allows outside air to be preheated before entering chamber** - provides more efficient combustion.
- ◆ **Carlin EZ-BCS burner** - complete with air-boot. Available for oil or gas configurations.
- ◆ **Turboflue®** - Bock's patented design is the industry's most advanced and efficient heat exchanger. Simply put, it heats water faster and uses less fuel, which reduces energy costs.
- ◆ **C-glass®** - Durable and exclusive porcelain enamel glass is used to line all tanks and Turboflues. Highly resistant to aggressive water. Fresh silica mixed daily to provide the highest quality.
- ◆ **Built to last** - Hand-crafted from heavy gauge steel. Longer life equals a higher "Return on Investment".
- ◆ **Dual magnesium anode rods** - Inhibit corrosion and maximize tank life. Electrolysis attacks the anode rods, not the welded seams of the tank.
- ◆ **Double pressure tested** - Only Bock pressure tests its tanks twice.
- ◆ **Fully welded tank skirt** - prevents noxious flue gases from escaping between the tank and jacket.
- ◆ **Center flue design** - reduces tank flex for longer life.
- ◆ **Fiberglass insulation** - decreases standby heat loss.
- ◆ **Accurate temperature control** - Only Bock offers dual aquastats or operating and high limits, as standard.
- ◆ **Spring loaded inspection door** - Easy access for inspection and maintenance, also functions as a pressure relief valve.
- ◆ **Brass drain valve** - accessible.
- ◆ **Factory installed T&P valve** - CSA listed.
- ◆ **Hand-cast refractory lined combustion chamber** - Only one in the industry - better heat retention, warmer starts, better combustion, reduces noxious emissions.
- ◆ **UL listed.**
- ◆ **5 year limited warranty** - on steel tank (single family residential installations).
- ◆ **3 year limited warranty** - on steel tank (commercial installations).

Quality Crafted Hot Water Solutions!

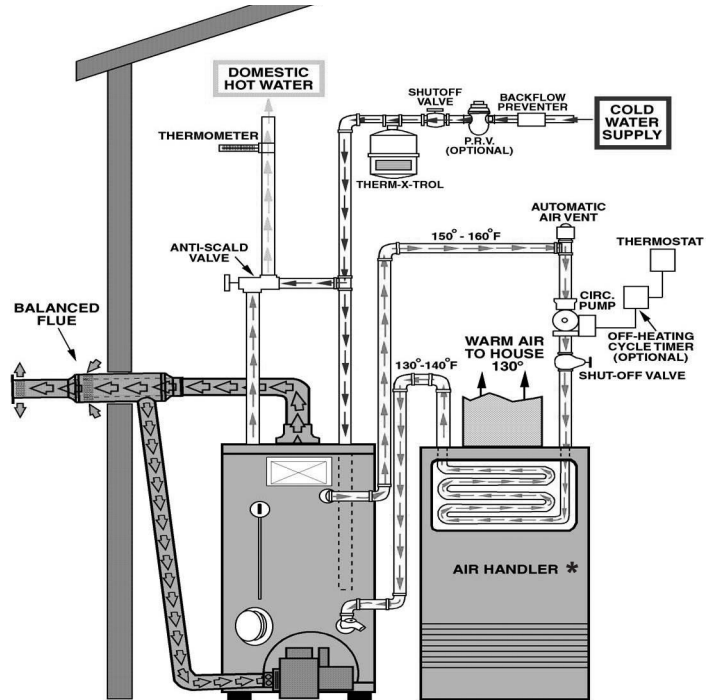


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BCS Vent



* The diagram illustrates a combined appliance installation (water and space heating), featuring a Bock BCS water heater and an air handler (for information regarding compatible air handlers, please consult your local HVAC dealer).

	Model	Storage (gal)	Rated Input (BTU/HR)	Recovery @ Δ 90°F (GPH)	Max. Temp. Setting (°F)	Inlet Pipe Dia.	Outlet Pipe Dia.	Return Pipe Dia.	Shipping Weight (lbs)***
OIL	32E-BCS	32	104,000	114	160	3/4"	3/4"	3/4"	312
	40E-BCS	40	126,000	136	160	3/4"	3/4"	1"	344
	51E-BCS	50	152,000	161	160 [#]	1"	1"	3/4"	370
	120E-BCS	113	155,000	163	180	1"	2" **	2"	751
	190E-BCS	113	190,000	199	180	1"	2" **	2"	751
GAS	32PG-BCS	32	104,000	110	160	3/4"	3/4"	3/4"	312
	40PG-BCS	40	126,000	134	160	3/4"	3/4"	1"	341
	51PG-BCS	50	152,000	159	160 [#]	1"	1"	3/4"	370
	120PG-BCS	113	155,000	160	180	1"	2" **	2"	749
	190PG-BCS	113	190,000	191	180	1"	2" **	2"	749

** Nipple not included

*** Weight includes burner and controls

Optional settings, contact factory

WARNING: Do not install on combustible flooring. Installation should be in accordance with all national and/or local codes. In the absence of local codes, refer to NFPA 54 or ANSI Z.21.10.1.

CAUTION: The recommended maximum hot water temperature setting for normal residential use is 120°F. Bock recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding.

Pressures (all): Test pressure, 300 psi; working pressure, 150 psi

Standard Voltage (all): 120V, 60 Hz, 1P

T&P valve installed

All Bock products meet or exceed current ASHRAE standards.

For additional information and sample specifications, please visit our website - www.bockwaterheaters.com



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