

# Bosch Greenstar

## High-Efficiency, Gas Condensing Boilers



2011 New Product Introduction



**BOSCH**  
Invented for life



### **Space heating only and Combi models for space heating and domestic hot water**

- ▶ High efficiency up to 96.1% AFUE
- ▶ Up to 98.7% low temperature application efficiency
- ▶ 57.2 to 151.6 MBH inputs
- ▶ 5-Year parts & labor warranty
- ▶ Limited lifetime heat exchanger warranty



**LOWNOx**  
EMISSIONS

# New for 2011! Bosch Greenstar

## High-Efficiency, Gas Condensing Boilers



### The Bosch Greenstar series delivers energy efficient space and water heating comfort solutions for residential applications.

These low-operating cost units are available in 6 compact, wall-mounted models from 57.2 to 151.6 MBH. The Bosch Greenstar series is Energy Star® rated and uses ultra-efficient condensing technology to deliver reliable performance with low emissions.

These units are built with a removable front panel, direct access to the heat cell and plug-in diagnostics module for ease of serviceability. Special insulation ensures ultra quiet operation, while a passcode protected temperature control panel offers peace-of-mind, especially important for homes with children or elderly family members.

The new Bosch Greenstar series can also be integrated with other Bosch energy efficient products for a complete and environmentally friendly modern home.

### Efficiency with unsurpassed performance and control

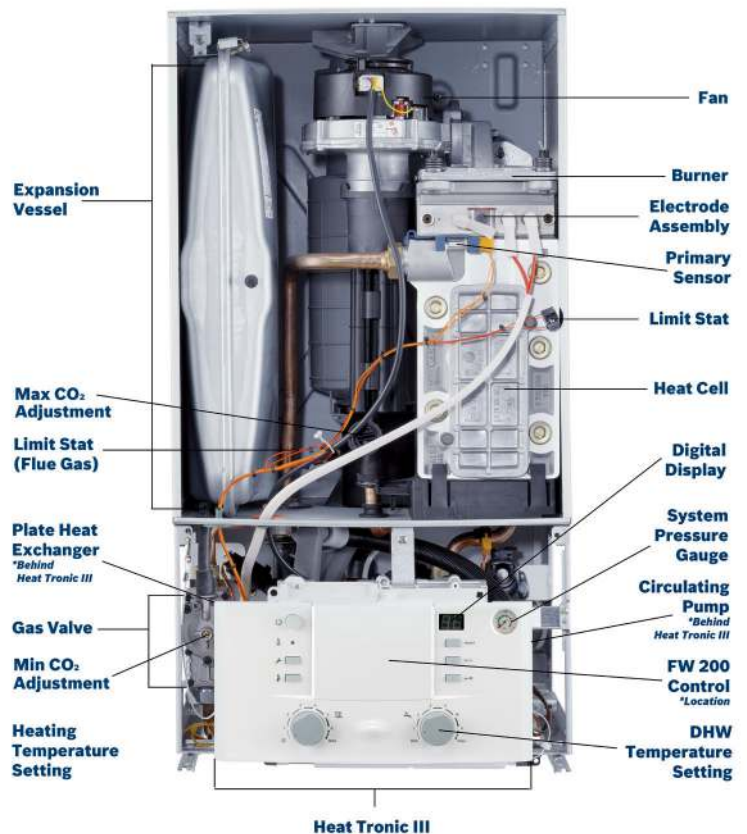
- ▶ Ideal for detached & terraced houses, also suitable for apartments
- ▶ Available as a space heating boiler for connection to a hot water tank
- ▶ Available as a combi unit with integrated water heating
- ▶ Solar compatible with new control options

### Competitive selling features:






- ▶ High efficiency up to 96.1% AFUE
- ▶ Low NOx - less than 40 mg / kWh (ppm), meeting 2012 SCAQMD standards
- ▶ 5-year limited parts and labor warranty
- ▶ Al-Si heat exchanger with coating on flue side for increased corrosion resistance
- ▶ Robust water side PH operating levels of 4.0 – 8.5
- ▶ Hydronic manifold allows for complete boiler piping to simplify installation
- ▶ High altitude flexibility - 7,000 no de-rate
- ▶ Keypad lock for child protection

### Additional product advantages:

- ▶ Stainless steel plate heat exchanger inside Greenstar Combi models for continuous DHW delivery
- ▶ Stainless steel premix burner for low emission combustion
- ▶ Integrated Grundfos 3-speed UPS 15-58 heating system circulator (120 only)
- ▶ Electronic speed control of modulating fan
- ▶ Sophisticated outdoor reset control
- ▶ Automatic air vent
- ▶ 30 psi pressure relief valve
- ▶ Condensate drain assembly
- ▶ Negative temperature coefficient sensors to maintain high efficiency
- ▶ 120V power switch



Application	Space Heating + DHW		Space Heating Only			
Models	Greenstar Combi 151	Greenstar Combi 100	Greenstar 151	Greenstar 131	Greenstar 100	Greenstar 57
Description	ZWB42-3	ZWB28-3	ZBR42-3	ZBR35-3	ZBR28-3	ZBR16-3
Part #	7-713-331-041	7-738-100-002	7-712-231-413	7-712-231-414	7-712-231-415	7-712-231-416
<b>Performance Specifications</b>						
Fuel	NG / LP	NG / LP	NG / LP	NG / LP	NG / LP	NG / LP
Input Maximum (MBH)	151.6	100.8	151.6	131.9	100.8	57.2
Input Minimum (MBH)	36	34.6	36	36	24.6	12.9
DOE Heating Capacity (MBH)	134.4	89.4	134.4	116.7	89.4	50.8
Net I=B=R (MBH)	117	79	117	103	79	45
AFUE	94.3%	95.9%	94.3%	95.0%	95.9%	96.1%
Low Temp Application Efficiencies	96.8%	98.5%	96.8%	97.5%	98.5%	98.7%
DHW Flow Max ( $\Delta T$ at 72F)	4.0 GPM	2.65 GPM	-	-	-	-
Water Volume	0.952 Gal. (3.5)	0.952 Gal. (3.5)	0.952 Gal. (3.5)	0.952 Gal. (3.5)	0.952 Gal. (3.5)	0.952 Gal. (3.5)
<b>Technical Data</b>						
Weight (Without Packaging)	110.2 Lbs. (50)	110.2 Lbs. (50)	103.6 Lbs. (47)	103.6 Lbs. (47)	103.6 Lbs. (47)	103.6 Lbs. (47)
Dimensions W x H x D	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"
Minimum Recommended Pipe Size	1"	1"	1"	1"	1"	1"
Supply Tappings	1"	1"	1"	1"	1"	1"
Return Tappings	1"	1"	1"	1"	1"	1"
Domestic Cold Water Supply	3/4"	3/4"	-	-	-	-
Domestic Hot Water Supply	3/4"	3/4"	-	-	-	-
Gas Connection Size	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Vent Size	3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	3"
Vent Material	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC
Combustion Air Size	3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	3"
Expansion Vessel Integrated	3.17 Gal. (12)	3.17 Gal. (12)	-	-	-	-
<b>Included Package Contents</b>						
FW 200 Control	√	√	√	√	√	√
Heat Tronic III - Control PCB	√	√	√	√	√	√
Hydronics Bracket	√	√	√	√	√	√
Twin Pipe Flue Adapter	√	√	√	√	√	√
Tank Sensor	-	-	√	√	√	√
System Supply Sensor	√	√	√	√	√	√
NG / LP Conversion Kit	√	√	√	√	√	√
Condensate Trap Drain Hose	√	√	√	√	√	√

Optional Accessories Not Included	FB 100 Control	ISM2 Control	IPM2 Control	Cleaning Tool 1060	Cleaning Tool 1061
Description	Room Sensor	Solar Control Module	Pump Control Module	Cleaning Tool Kit	Cleaning Tool
Part #	7-719-003-525	7-719-003-527	7-719-003-526	7-719-002-502	7-719-002-503
Product Image					

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**[www.bosch-climate.us](http://www.bosch-climate.us)**

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