

Gas Condensing Technology – Low NOx Version

VITODENS® 200-W, B2HA

VITODENS® 200-W, B2HB

VITODENS® 222-F, B2TB



Heating Systems ◀
Industrial Systems
Refrigeration Systems

Gas Condensing
Technology
Low NOx Version

Vitodens 200-W, B2HA – 71 to 530 MBH
Vitodens 200-W, B2HB – 19 to 199 MBH
Multi-boiler installation – 32 to 4240 MBH (for models 45 to 150)
Vitodens 222-F, B2TB – 19 to 125 MBH

Gas-fired condensing technology for outstanding performance, reliability and comfort



Vitotronic 200 control with graphic user interface

Vitodens 200: Efficient by design

At the core of the new Vitodens 200, B2HA and B2HB are the Viessmann stainless steel Inox-Radial heat exchanger and Matrix cylinder burner. Together, they allow the greatest amount of heat extraction to be achieved with minimal loss.

Vitodens 222: Smart, compact space heating and DHW

The Vitodens 222-F, B2TB gas-fired condensing boiler is an ideal space saving option for new installations and a smart upgrade for outdated boiler and domestic hot water (DHW) storage systems. The floor standing Vitodens 222-F is available in two input sizes, offering compact, economical space heating and DHW solutions for homes with moderate heating loads.

Intelligent combustion system

The Vitodens 200 and 222 models are optimized for maximum performance with the intelligent Lambda Pro combustion management system, which adapts combustion to changing gas qualities and operating conditions automatically. This unique function becomes increasingly important as gas supplies vary in quality and heating value.

Award winning control unit

The intuitive Viessmann made Vitotronic 200, HO1B control manages the entire heating system and maintains economical performance and maximum comfort at all times. The user-friendly, menu-driven control is capable of displaying multi-line text and graphics on a backlit display 70% larger than those of comparable units. The high contrast, monochrome display offers excellent readability, even under poor lighting conditions.

An outdoor reset function automatically adapts the boiler operating temperature to the changing outdoor temperature. This reduces fuel consumption up to 15%, giving you excellent returns year after year on a modest initial investment. Plus, with system control for multiple zone space and DHW heating, the Vitotronic 200, HO1B offers even greater heating flexibility without additional external controls.



- 1** Inox-Radial heat exchanger
- 2** Modulating MatriX cylinder burner
- 3** Vitotronic 200 control with graphic user interface

Vitodens 200-W Specifications

- Viessmann-made SA240 316 Ti stainless steel Inox-Radial heat exchanger constructed to CSA B51 and ASME Section IV
- Viessmann-made stainless steel MatriX cylinder burner
- Efficiency up to 98% at full modulation and 95% AFUE
- 9 models from 19 to 530 MBH (single-boiler installation)
- Exceeds Energy Star® Efficiency Requirements
- Suitable for altitude levels up to 10,000 ft. / 3,000 m
- Best value in its class with new industry-leading technology and standard features
- B2HA-88: smallest commercial boiler available in the Viessmann portfolio
- Low-emission combustion for environmentally-friendly operation
- Intelligent Lambda Pro gas management system automatically adjusts to different gas qualities for optimum efficiency and performance
- Vitotronic 200 control features large display with text and graphics for user-friendly operation
- Extended application range with increased capacity up to 530 MBH (single boiler) / 4240 MBH (cascade of 8 boilers)
- Modulation ratio up to 6.5:1 ensures extremely high efficiency
- Different venting options and greater venting flexibility with vent length up to 180 ft.
- Common venting up to four boilers
- Compliant and certified to meet SCAQMD rules



- 1** Inox-Radial heat exchanger
- 2** Modulating MatriX cylinder burner
- 3** Vitronic 200 control with graphic user interface
- 4** Stainless steel storage tank
- 5** Heating expansion tank

Vitodens 222-F Specifications

- Viessmann-made SA240 316Ti stainless steel Inox-Radial heat exchanger constructed to CSA B51 and ASME Section IV
- Viessmann-made stainless steel MatriX cylinder burner with Lambda Pro combustion management system for continuous efficiency and low emissions
- Efficiency up to 98% at full modulation and 95% AFUE
- Viessmann-made SA240 316Ti stainless steel DHW storage tank (26 USG)
- Innovative DHW Storage Tank Loading System comprised of plate heat exchanger, DHW loading pump and storage tank
- Zero side clearance requirement
- Pre-installed pressure / temperature relief valves
- Fully enclosed heating expansion tank and circulation pump
- Built-in 3-speed DHW / space heating pump with diverter valve
- Suitable for altitude levels up to 10,000 ft. / 3,000 m
- Fast heat-up with Storage Tank Loading System
- 10-minute peak flow of 60 gallons
- Continuous DHW draw of 3.3 GPM based on a temperature rise of 70°F (21°C), 50°F to 120°F (10°C to 49°C)
- Wide modulation ratio up to 6.5:1
- Multiple venting options with vent length up to 180 ft.
- Compliant and certified to meet SCAQMD rules

Vitodens		200-W	200-W	222-F	200-W	200-W	200-W	200-W	200-W	200-W	200-W
Model		26,94	35,125	35,125	45,160	57,199	80, 285	88, 311	100, 352	112, 399	150, 530
Part Number		B2HB689	B2HB690	B2TB123	B2HB691	B2HB692	B2HAN29	B2HAN30	B2HAN31	B2HAN32	B2HAN33
Maximum input (NG)	MBH	94	125	125	160	199	285	311	352	399	530
Minimum input (NG)	MBH	19	19	19	32	32	71	71	71	113	113
Net AHRI Rating	MBH	77	102	99	127	160	226	254	286	323	426
AFUE	%	95	95	95	95	95	92	-	-	-	-
Overall Dimension											
Width		17 3/4"	17 3/4"	25 3/8"	19"	19"	19"	19"	19"	23 5/8"	23 5/8"
Height		41"	41"	64"	43 1/2"	43 1/2"	43 1/2"	43 1/2"	43 1/2"	44 1/2"	44 1/2"
Depth (Length)		15.7"	15.7"	23.5"	21"	21"	21"	21"	21"	27.1"	27.1"
Weight	lbs	110	110	278	210	210	194	194	194	298	298
Boiler Water Content	USG	1.02	1.02	1.02	3.85	3.85	3.4	3.4	3.4	4	4
Heat Exchanger Surface	ft. ²	12.96	12.96	12.96	31.99	31.99	28.88	28.88	28.88	36.78	36.78
Maximum Operating Pressure	psig	45	45	45	60	60	60	60	60	80	80
Minimum Gas Supply Pressure											
Natural Gas	"w.c.	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
Boiler water temperature maximum		165	165	165	165	165	176	176	176	180	180
Adjustable high limit (AHL) range space heating (steady state)		68-165	68-165	68-165	68-165	68-165	68-176	68-176	68-176	68-180	68-180
Boiler connections											
Gas valve connection	NPTM	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1"	1"
Boiler heating supply and return	NPTM	3/4"	3/4"	3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
Boiler flue gas connection	Ø Inches	2 3/8"	2 3/8"	2 3/8"	3 1/4"	3 1/4"	4 3/8"	4 3/8"	4 3/8"	4 3/8"	4 3/8"
Combustion air supply connection (coaxial)	Ø Inches	4"	4"	4"	5"	5"	6"	6"	6"	6"	6"

Standard boiler equipment includes:

- wall-mount boiler and installation fittings c/w 30 psig relief valve
- pressure gauge
- gas shut-off valve
- two fill/drain valves
- all mounting hardware
- supplied analog temp gauge
- LP conversion kit
- double pipe adapter for B2HB 45-57 and B2HA 80-150

