COMMERCIAL GAS CONDENSING BOILERS

Advanced condensing technology for commercial applications

VITOCROSSAL 300 CA3B

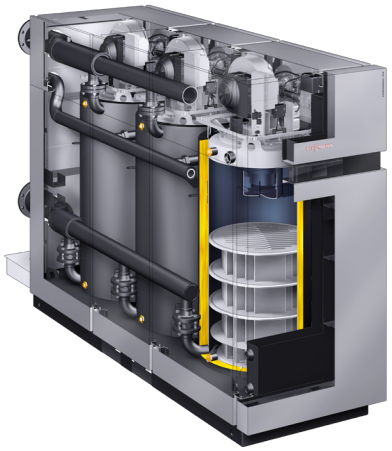
VITOCROSSAL 200 CI2

VITODENS 200-W CASCADE

Long service life and impressive reliability

You can rely on Viessmann for cost effective, energy efficient commercial heating systems.

VITOCROSSAL 300, CA3B



CA3B Series high-efficiency, gas-fired condensing boilers with multiple burner design. The Inox-Lamellar fire-tube style heat exchangers of the CA3B boilers are made of 316Ti grade Stainless Steel. Rated input: 2,500 to 6,000 MBH

BENEFITS AT A GLANCE

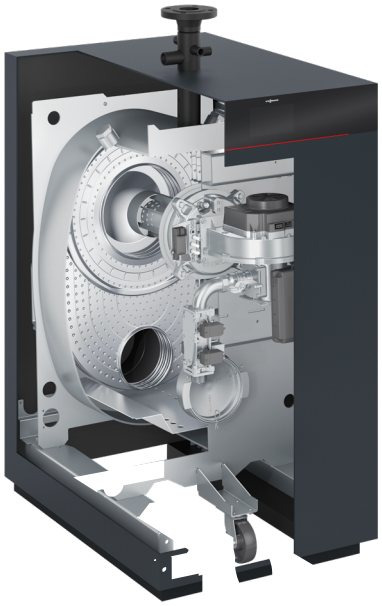
+ Low inlet gas pressure capability as low as 4' w.c. (NG) provides compatability with a range of supply pressures
+ Dual Fuel models offer easy changeover from NG to LP with a simple turn of a key
+ Low emissions and quiet operation from fully-modulating Viessmann premix cylinder burners (up to 3)
+ Can be disassembled and reassembled* (Refer to Viessmann's technical CA3B Disassembly and Reassembly instructions)

System	Size			2.5	3.0	3.5	4.0	5.0	6.0
Operating Range	**Maximum Input**	MBH		2,500	3,000	3,500	4,000	5,000	6,000
	Output (thermal efficiency)	MBH		2402	2883	3363	3844	4805	5766
	Combustion Efficiency *	%		94.1	94.1	94.1	94.1	94.1	94.1
	Thermal Efficiency *	%		96.1	96.1	96.1	96.1	96.1	96.1
	Maximum Operating Pressure	psig		160	160	160	160	160	160
	Power Supply	Voltage		120	120	120	120	208†	208†
		Phase		1	1	1	1	3	3
		Hz		60	60	60	60	60	60
CA3B Single Fuel (SF)									
Operating Range	**Minimum Input (NG)**	MBH		250	300	300	400	300	400
	Minimum Input (LPG)	MBH		495	495	495	660	495	660
System Size	**Width**	in.		34	34	39 ½	39 ½	39 ½	39 ½
	Height	in.		78 ¾	78 ¾	84	84	84	84
	Length	in.		88 ¾	88 ¾	99 ½	99 ½	136	136
	Dry Weight (burner, control, insulation, and jacketing)	lbs		4233	4233	4696	4806	6261	6894
	Boiler Water Content	USG		108	108	151	143	227	218
	Heat Exchanger Surface	ft.^{2}		142.7	142.7	170.2	192.5	244.1	288.8
	Flue Outlet Size	dia		10	10	12	12	16	16
CA3B Dual Fuel (DF)									
Operating Range	**Minimum Input (NG/LPG)**	MBH		495	495	495	660	495	660
System Size	**Width**	in.		39 ½	39 ½	39 ½	39 ½	39 ½	39 ½
	Height	in.		84	84	84	84	84	84
	Length	in.		99 ½	99 ½	99 ½	99 ½	136	136
	Dry Weight (burner, control, insulation, and jacketing)	lbs		4641	4641	4751	4861	6325	6958
	Heat Exchanger Surface ft.^{2}	ft.^{2}		147.9	147.9	170.2	192.5	244.1	288.8
	Flue Outlet Size	dia		12	12	12	12	16	16
	Boiler Water Content	USG		158	158	151	143	227	218

* Tested to ANSI/AHRI standard 1500 Performance Rating of Commercial Space Heating Boilers / DOE Test Procedure 81 FR 89276 /U.S. Standards ANSI Z21.13/CSA 4.9

† Requires 208Y/120VAC- 3 phase- 60 Hz- 4 wire (L1, L2, L3, N, G) power supply

VITOCROSSAL 200, CI2



At only only 27 inches (68 cm) wide without jacket, the Vitocrossal 200, CI2 is well suited for tight commercial spaces. A stainless steel Inox-Crossal heat exchanger re-designed to stand up to the toughest of water conditions, maximizes performance and reliability while reducing overall size by 30%. Lambda Pro$_2$ with Self Calibrating Active 02 Trim automatically adjusts to multiple vent options and lengths, gas type and quality right out of the box; no calibration required. Rated input: 399 MBH - 2,000 MBH (single) / 32,000 MBH (cascade)

BENEFITS AT A GLANCE

+ Integrated Valve Proving System (VPS) for all sizes
+ Up to 98% thermal efficiency, the highest degree of utilization in its class with cleaner combustion and lower costs
+ Highest water volume in class; no primary boiler pump required
+ Up to 30:1 modulating MatriX cylinder burner ensures long, uninterrupted operation; meets Low NOx certification
+ Convenient servicing - all components are accessible from the front and back of unit
+ External wall mounted Gateway or DIN rail mounted Gateway for up to 8 boilers per gateway. Modbus ICP, Modbus RTU, Bacnet IP, and Bacnet MSTP
+ Utilizes CANbus communication between boilers and gateway system without complex wiring

System	Size		399	500	750	1000	1500	2000
Operating Range	**Min. Input (NG)**	MBH	50	50	75	100	50	100
	Max. Input (NG)	MBH	399	500	750	1000	1500	2000
	Output (thermal efficiency)	MBH	391	490	734	977	1460	1940
	Max. Operating Pressure	psig	80	80	80	80	80	80
	Max. Operating Temperature	°F (°C)	210 (99)	210 (99)	210 (99)	210 (99)	210 (99)	210 (99)
Efficiency	**Combustion Efficiency***	%	97	97	96.9	96.8	96.6	96.5
	Thermal Efficiency *	%	98	97.9	97.8	97.7	97.3	97
System Size	**Width**	in. mm	29 ½ 750	29 ½ 750	29 ½ 750	29 ½ 750	29 ½ 750	29 ½ 750
	Height	in. mm	64 ½ 1640	64 ½ 1640	64 ½ 1640	64 ½ 1640	78 ¾ 1998	78 ¾ 1998
	Depth (length)	in. mm	39 992	39 992	47 ¼ 1200	47 ¼ 1200	56 ¼ 1428	56 ¼ 1428
	Weight (burner, control and insulation)	lbs kg.	789 358	789 358	963 437	963 437	1812 822	1969 894
	Heat Exchanger Surface Area	ft² m²	65.2 6.1	65.2 6.1	129.4 12	129.4 12	196.2 18.2	258.8 24
	Flue Outlet Size	Ø in Ø mm	4 104.2	4 104.2	6 155	6 155	6 155	8 205.2
	Boiler Water Content	USG L	29 108	29 108	50 189	50 189	113 426	99 376

*Tested to ANSI/AHRI Standard 1500 Performance Rating of Commercial Space Heating Boilers / DOE Test Procedure 81 FR89276 / U.S. Standards ANSI Z21.13 / CSA 4.9

VITODENS 200-W, CASCADE

Viessmann Manufacturing
Company, Inc.
Warwick, RI, 02886
1-800-288-0667
viessmann-us.com
A Carrier Company

The Vitodens 200-W cascade system is ideal for small or difficult-to-access boiler rooms or facilities with narrow halls and stairwells. These prefabricated cascade systems offer flexible installation with multiple manifold configurations: wall-mounted, floor standing, corner or back-to-back. A right or left-mount low-loss header acts as hydraulic break and helps eliminate air and debris. Rated input: up to 4,240 MBH

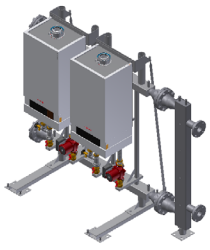
BENEFITS AT A GLANCE

+ Low-emission combustion for environmentally-friendly operation
+ Intelligent Lambda Pro gas management system automatically adjusts to different gas qualities for optimum efficiency and performance
+ Common venting up to four boilers ‡

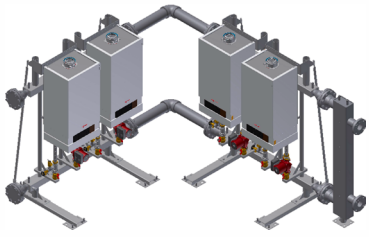
‡ In accordance with local codes and regulations

Model							B2HA		B2HE
System	**Size**		**285**	**311**	**352**	**399**	**530**	**150**	**199**
Operating Range	**Min.- Max. Input** (single boiler)*	MBH	71 - 285	71 - 311	71 - 352	113 - 399	113 - 530	14 - 150	14 - 199
	Min.- Max. Input (multiple of 8)*	MBH	71 - 2,280	71 - 2,488	71 - 2,816	113 - 3,192	113 - 4,240	14 - 1200	14 - 1592
System Size	**Weight** (single boiler)	lbs	194	194	194	298	298	179	179

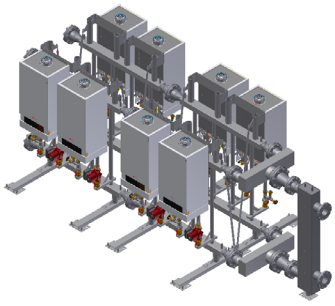
* Input based on natural gas



2-boiler cascade system



4-boiler cascade system in corner configuration



8-boiler cascade system in back-to-back configuration

Technical information subject to change without notice.
05/2026 Printed in USA ©2026 Carrier. All Rights Reserved