



FLOOR STANDING GAS CONDENSING BOILER

Exceptional Performance and Flexibility

VITOCROSSAL 300, CU3A



A simple solution

The perfect choice for residential and light commercial applications.

19 - 199 MBH (single)
1592 MBH (cascade)

Powerfully simple

The Vitocrossal 300, CU3A gas-condensing, floor standing boiler is a testament to the power of a simple solution. With best-in-class Viessmann-made components and no primary/secondary piping or low-loss headers required, the CU3A is the perfect choice for residential and light commercial applications – including high temperature heating, cast-iron boiler replacements and multi-zone systems.

Well suited for new construction and retrofits

With its compact design, the Vitocrossal 300 CU3A provides a fast and simple installation. To replace an old cast-iron sectional boiler, the CU3A is the ideal “drop-in” replacement with simple connection. All the existing system piping can remain intact. The CU3A alleviates the need for costly piping arrangements in new installations. At only 11.5” off the ground, flue venting is simplified with the exhaust and intake air connections located at the bottom of the boiler, allowing easy connection to existing chimneys.

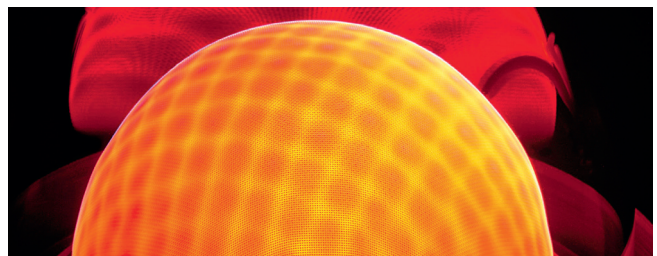
Advanced condensing technology

Constructed with titanium-stabilized stainless steel, the Inox-Crossal heat exchanger provides the ideal conditions for the

utilization of the condensate in the hidden heat of the flue gas. The smooth combustion chamber surface and the vertically arranged heat exchanger drain accumulating condensate and create a permanent self-cleaning effect, which maintains efficiencies up to 95% AFUE, ensures prolonged service life and reduces maintenance.

Intelligent combustion control

The proven Matrix dome burner with Lambda Pro combustion control automatically adjusts to fluctuating gas qualities and ensures a consistently high combustion efficiency for both natural gas and propane.



Viessmann-made Matrix dome burner ensures high efficiency and clean combustion.

The power of a simple solution. Best in class value with the most standard features.

Limited Lifetime Warranty

Limited lifetime warranty available on Viessmann heat exchangers.

Details available at:
viessmann-us.com/warranty

Simple and powerful Vitotronic control

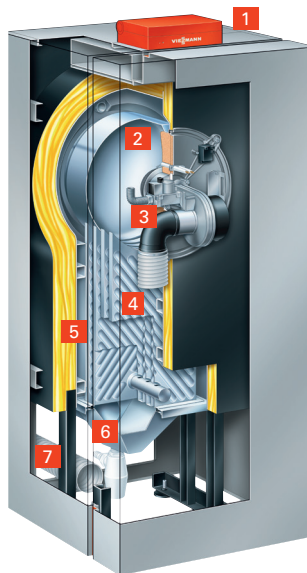
System owners and heating contractors alike benefit from the easy-to-use, flexible Vitotronic controls that manage the entire heating system with maximum comfort, precise temperature settings and cost-effective fuel savings. The control menu is logical, intuitive and easy to set up. Features include intelligent DHW control, a variable speed pump output (0-10 V), multiple setback timers, and the ability to control up to 3 heating circuits.

Vitoconnect and ViCare

When you connect your boiler to WiFi using the Vitoconnect module, you can easily monitor and operate your Viessmann boiler anytime, anywhere with the ViCare app. Easy and intuitive, ViCare lets you quickly set your heating schedule to adapt the boiler operation to your lifestyle while increasing efficiency and potential energy savings. The app will also alert you to changes in your heating status, so you can re-program the boiler or contact your heating contractor as soon as a change occurs.

VITOCROSSAL 300, CU3A

19-199 MBH

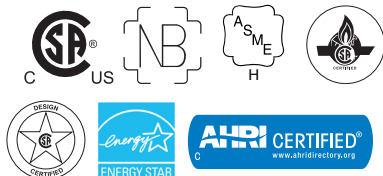


- 1 Vitotronic 200 HO1B boiler and system control
- 2 Water-cooled combustion chamber
- 3 Modulating MatriX gas burner with Lambda Pro combustion control
- 4 Inox-Crossal heat exchanger
- 5 Highly effective thermal insulation
- 6 Flue gas collector with condensate drain pipe
- 7 Combustion air inlet connection

Actual product may vary from illustrated image at left

Warranty information is available at viessmann-us.com/warranty

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Technical information subject to change without notice. 06/2023 Printed in USA

BENEFITS AT A GLANCE

- + Multi-boiler installation with 8 boilers up to 1592 MBH
- + High efficiency of 95% AFUE on all models
- + No dedicated boiler pump required
- + Eliminates primary/secondary piping
- + MatriX dome burner with 5:1 turndown ratio ensures high efficiency and extremely clean combustion
- + High water volume extends burner run time and reduces cycling
- + Self-calibrating Lambda Pro combustion management system offers simple commissioning with no field adjustments
- + Easy conversion from natural gas to liquid propane with no orifice change
- + Inox-Crossal heat exchanger and high mass design provide durability, reliability, and long service life
- + Multiple venting options and configurations with vent lengths up to 198 ft
- + 5-year limited parts warranty for greater peace of mind
- + Remote monitoring and control through the ViCare app (when you connect to WiFi using the included Vitoconnect)

TECHNICAL INFORMATION

Model (BTUh)	CU3A	94	125	160	199
Overall boiler height (control open)†	Inches	67	67	67	67
Overall boiler height (control closed)†	Inches	61.5	61.5	61.5	61.5
Safety header connection†	Inches	55	55	55	55
Boiler supply†	Inches	49.5	49.5	49.5	49.5
Maximum Input (NG)	MBH	94	125	160	199
Minimum Input (NG)	MBH	19	25	43	43
Net AHRI Rating	MBH	76	101	129	161
AFUE	%	95	95	95	95
Weight	lbs.	269	275	352	352
Boiler Water Content	USG	13.5	13	18.8	18.8
Heat Exchanger Surface	ft. ²	16.7	20.7	34.1	34.1
Maximum Operating Pressure	psig	30	30	30	30
Minimum Gas Supply Pressure					
Natural Gas (NG)	"w.c.	4	4	4	4
Liquid Propane Gas (LPG)	"w.c.	10	10	10	10
Boiler Water Max. Temperature					
Adjustable high limit (AHL) range space heating (steady state)		68°F-194°F	68°F-194°F	68°F-194°F	68°F-194°F
Boiler Connections					
Gas Valve Connection	NPTF	3/4"	3/4"	3/4"	3/4"
Boiler Heating Supply and Return	NPTM	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Boiler Flue Gas Connection	Ø Inches	3*	3*	4**	4**
Combustion Air Supply Connection	Ø Inches	3*	3*	3*	3*

† All height dimensions of the boiler have a tolerance of +0.6in. (+15mm) due to the factory installed adjustable feet.

* Sized for CentroTherm and Duravent. **Sized for Duravent.