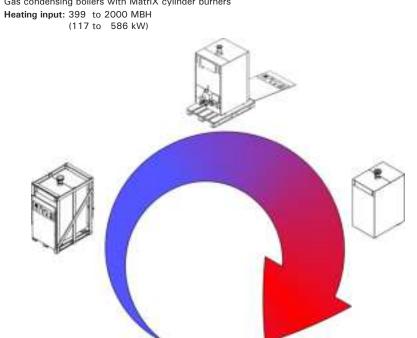
VITOCROSSAL 200 CI2

Installation and Start-up Guide for use by a licensed professional heating contractor for typical single boiler installations

Vitocrossal 200 CI2 series

Gas condensing boilers with MatriX cylinder burners



Before you install the boiler;

This boiler is configured for Natural Gas from the factory. If conversion to Propane Gas is required, the conversion kit supplied with the boiler must

This guide is designed to provide a quick overview to the licensed professional heating contractor for installing the Vitocrossal 200 CI2 boiler. It is NOT a substitute for the technical support literature supplied with the boiler and accessories.

The technical support literature for each product Ine technical support literature for each product contains the necessary safety and national/ local code requirements which, if not followed exactly, may lead to property damages, personal injuries and/or loss of life. Viessmann Manufacturing assumes no responsibility for damage(s) of any kind caused by inappropriate use of this manual and/or failure to read the technical literature provided which may also technical literature provided which may also







The installation of this unit shall be in accordance with local codes or, in the absence of local codes, use CAN/CSA-B149.1 or .2

Installation Codes for Gas Burning Appliances for Canada. For U.S. installations use the National Fuel Gas Code ANSI Z223.1. Always

In Canada all electrical wiring is to be done in accordance with the latest edition of CSA C22.1 Part 1 and/or local codes. In the U.S. use the National Electrical Code ANSI/NFPA 70. The heating contractor must also comply

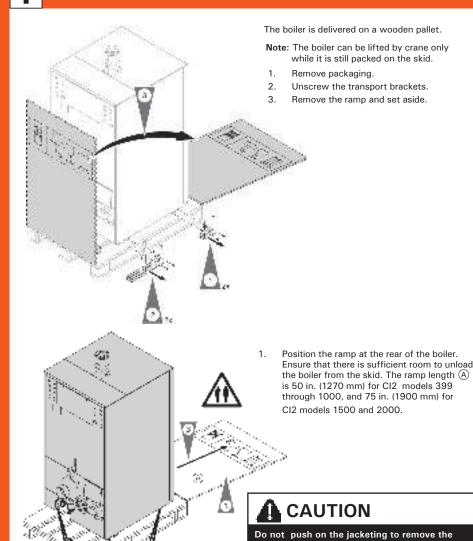
with both the Standard for Controls and Safety Devices for Automatically Fired Boilers, ANSI/ASME CSD-1, and the Installation Code

for Hydronic Heating Systems, CSA B214-01, where required by the authority having



VIESMANN.

1 Unpacking the Boller



boiler from the skid.

3. Roll the boiler off the pallet.

MARNING

Roll the boiler in a straight line.

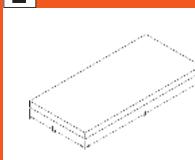
Note: The boiler is equipped with wheels to facilitate

unloading and placement of the boiler.

The boiler can cause serious injury if it overturns At least 2 people are required to move the boile

2. Using an open end wrench wind in the adjustable

2 Positioning the Boiler



Note: The levelling feet must be used once the boiler has been placed in it's final position.

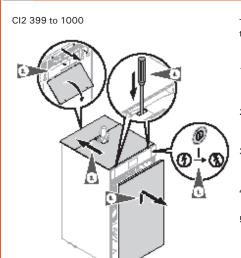
Using an open end wrench adjust the levelling feet in the base frame of the boiler ensuring that the wheels are off the ground.

2. It is recommended to place a flat piece of steel plate under each leveling bolt for better weight distribution and adjustment.

3. Level the boiler, by adjusting the levelling feet.

CI2 Model		399	500	750	1000	1500	2000
а	in. mm	32 (812)		41 (1040)		47a (1200)	
b	in. mm	29b (750)		29b (750)		29b (750)	
Weight incl. water content		1027 lb. 358 kg		1382 lb. 627 kg		2754 lb. 1249 kg	2798 lb. 1269 kg
Wit	h seisn	nic fee	t				
CI2 Model		399	500	750	1000	1500	2000
а	in.	46		54		63	

3 Accessing the Boiler



Removing the front panel

To access the BCU and control unit, panels have to be removed.

(1370)

(1170)

(1600)

(1170)

(1170)

46

(1170)

1. Turn the power switch off and disconnect the power supply to the boiler close gas shutoff

aside, swing the junction box access door to Push back top panels to access the front

Remove junction box retaining screws and set

panel release (top panel removal is not required). Using a screwdriver push down on the front

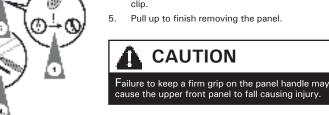
panel releases. Pull forward at the top of the front panel and lift up to remove.

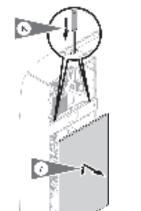
3 Accessing the Boiler (continued)

CI2 1500/2000

Turn the power switch off and disconnect the power supply to the boiler close gas Flip open the panel handle located at the top of the upper front panel. Pull up the upper front panel using the

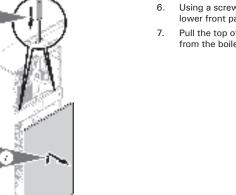
While holding the panel handle, use a screw driver to release the panel retaining



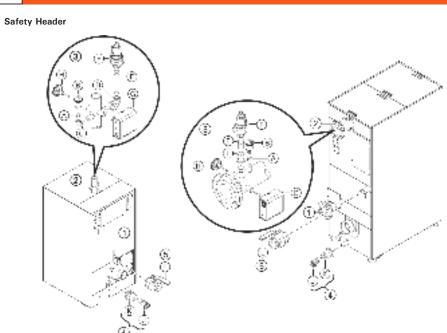


Using a screw driver, press down on the lower front panel release.

7. Pull the top of the lower front panel away from the boiler, lift up to remove.



4 Boiler Connections



Legend

① Boiler return: 2 in. NPT for CI2 399/500

2 ½ in. ANSI flange for CI2 750/1000 *1 4 in. ANSI flange for CI2 1500/2000 *1 ② Boiler supply: 2 in. NPT for CI2 399/500

2 $\frac{1}{2}$ in. ANSI flange for CI2 750/1000 *1 4 in. ANSI flange for CI2 1500/2000 *1

*1 Counter flanges, gaskets and hardware (field supplied) *2 Alternate pressure relief valves are

available depending on operating pressure requirements. Contact your local

Viessmann sales representative for details. 3 Safety header: (Pressure relief valve, low water cutoff, automatic air vent and temperature/pressure gauge)

A Hex bushing ½ in. x ¾ in. B Air vent with shut-off base Street elbow ¾ in. Reducing elbow 11/4 in. to 1 in.

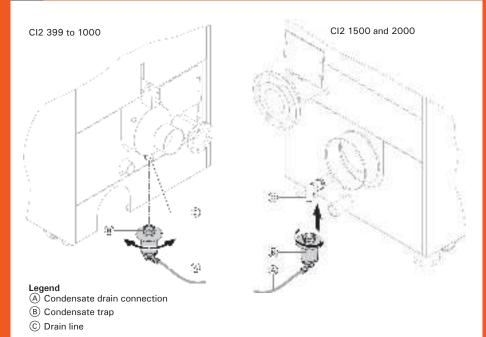
E) Nipple 1 in. Pressure relief valve, 80 psi *2 Low water cutoff Temperature/pressure gauge

Reducer 11/2 in. to 1 in 4 Drains:

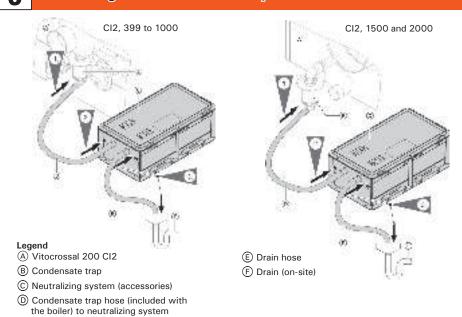
K Reducer 1½ in. x ¾ in. J Sediment faucet ¾ in.

⑤ Gas line fittings: (L) Gas gas shut-off valve, 1½ in. for models 399, 500, 750 and 1000, 2 in. for models 1500 and 2000

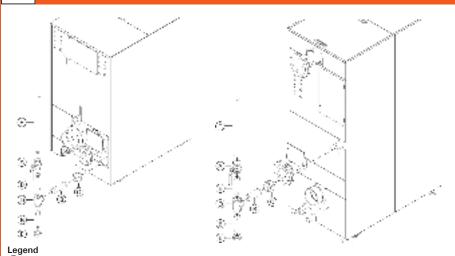
5 Installing the Condensate Trap



Connecting the Neutralization System



Making the Fuel Gas Connections



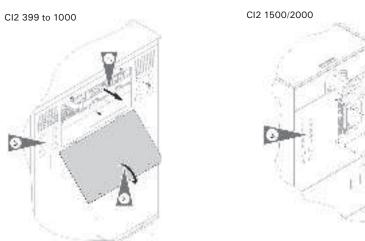
Legend

(A) Manual gas shutoff valve (supplied) Nipple (field supplied)

Ground joint union (recommended) (field supplied) to leave min. 16 in. (400 mm) clearance between Tee (field supplied) Cap (field supplied) F On site gas line

*1 If using ducted combustion air filter kit on the Vitocrossal 200 CI2 1500 and 2000 ensure boiler and drip pocket.

8 Accessing the DIN Rail



Remove two screws for junction box access door

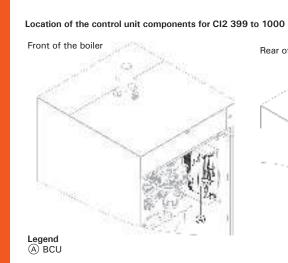
Rotate junction box access door to remove.

Select an available knock-out on the rear jacketing of the boiler. Remove the knock-out and apply a strain relief to the opening.

Route the cable through the strain relief to the DIN rail or Control boards (WP or MZIO), as required.

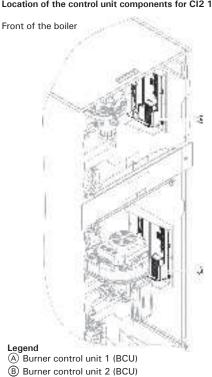
9 Boiler Control Locations

Removing the front panels



B Control unit with WP and MZIO © LAN socket D DIN rail

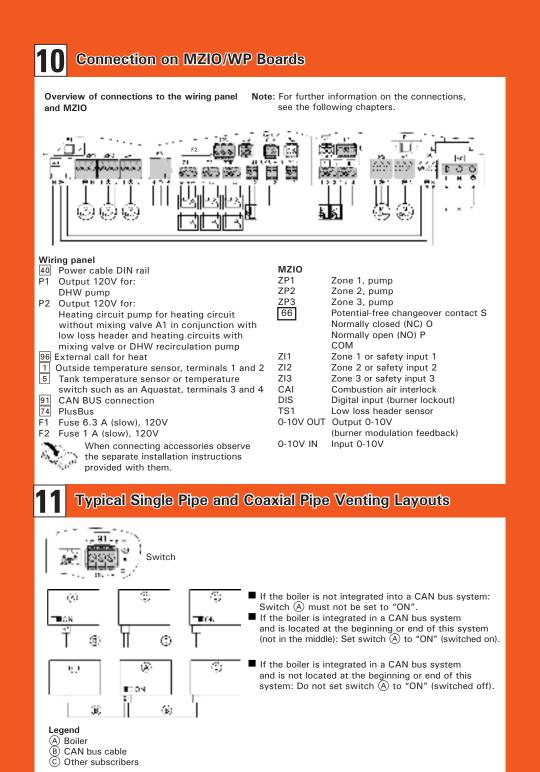
Location of the control unit components for CI2 1500/2000

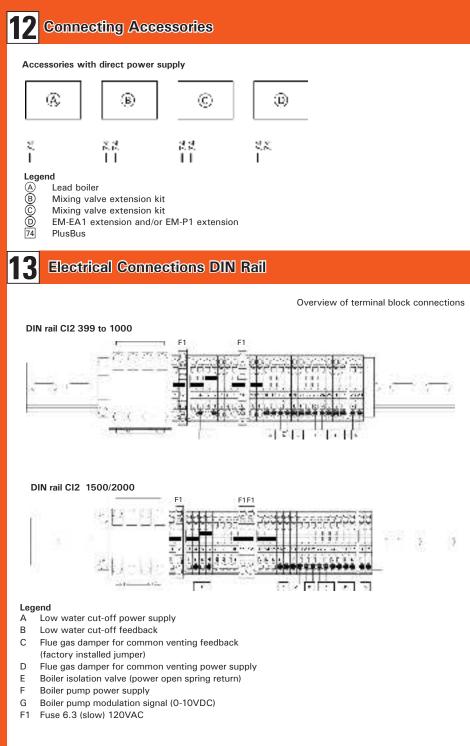


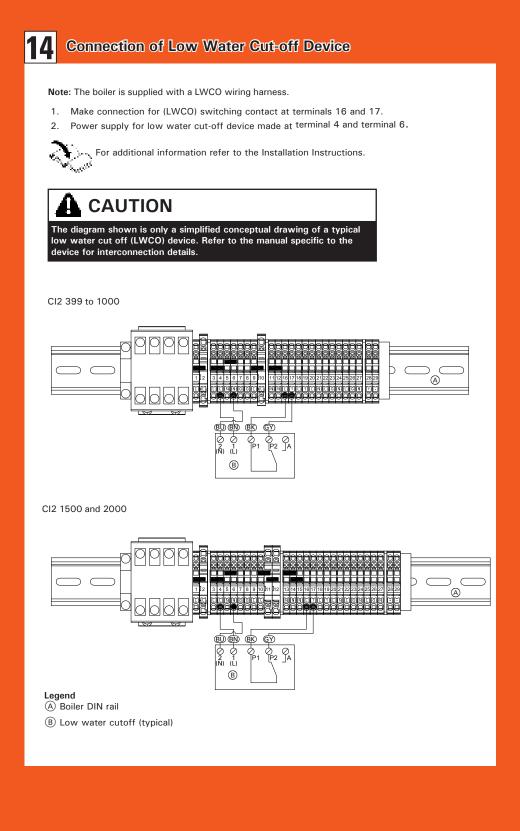
Rear of the boiler Legend

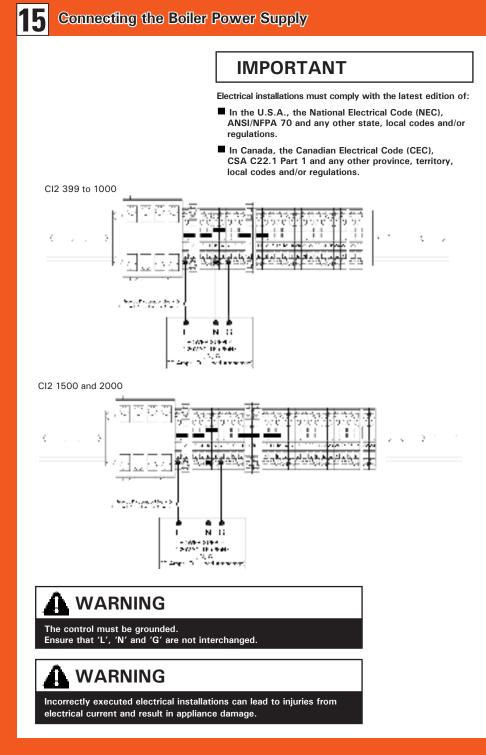
B Control unit with WP and MZIO

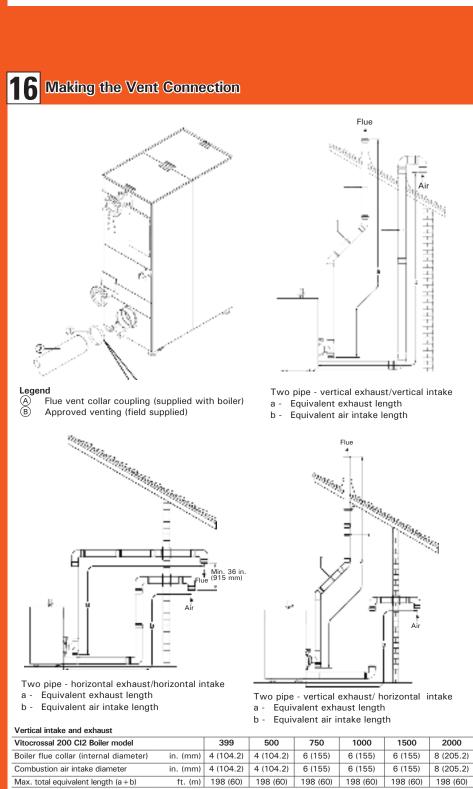
© LAN socket D DIN rail

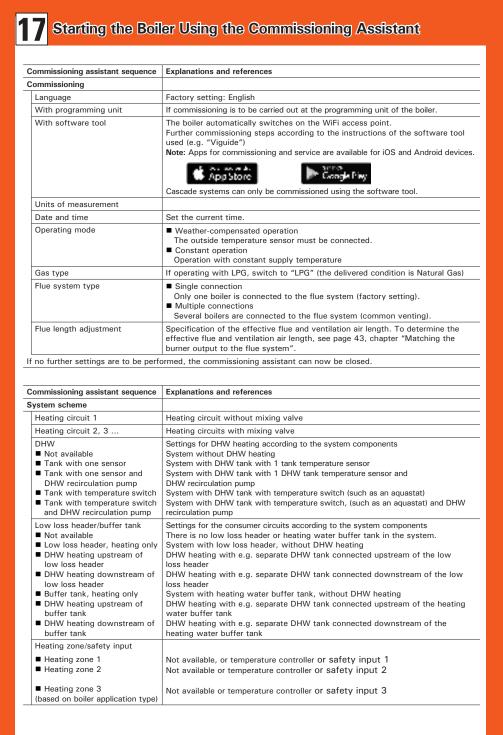


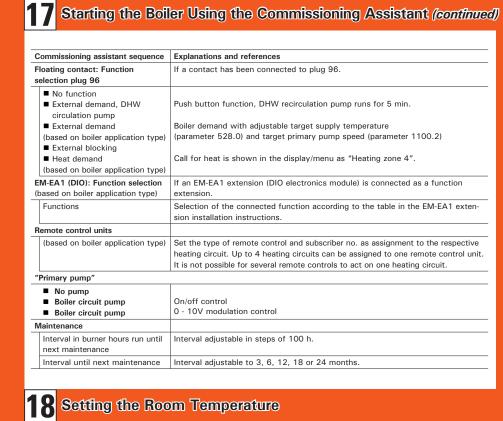
















In the delivered condition, the slope of the heating curve is set to 1.4, the level of the

neating curve is set to 0. 1.4

Typical Radiant = 0.6 slope & 0 curve set point Typical Baseboard = 2.4 slope & 0 curve set point Typical Fan Coil = 0.8 slope & 15 curve set point By setting the "Heating curve", you influence

the supply temperature provided by the boiler. To ensure your rooms are heated optimally at any outside temperature, you can adjust the "Shift" and "Slope" of the "Heating curve".

■ "Slope": 1.4 ■ "Shift": 0

Factory setting

Tap the following buttons:

"Heating" Select "heating zone or heating circuit".

4. Select a heating zone or heating circuit, e.g. (1) "Heating circuit 1" ∠ "Heating curve"

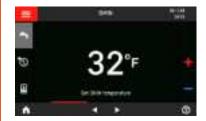
+ for the required value for "Slope" and "Shift" respectively. The graph displayed clearly shows the change in the "Heating curve" as soon as you alter the value for the "Slope" or "Shift". ✓ to confirm

Note: The heating curve can only be adjusted in weather-compensated operation

Refer to the "Operation" section of the

Operating Instructions for more detail.

20 Setting DHW Temperature



Tap the following buttons: If applicable, ◀▶ for the "DHW" default display

2. + for the required value

 ✓ to confirm Note: Not valid for systems with a DHW tank with

temperature switch (e.g. Aquastat). The factory settings 122°F (50°C). Note: For reasons of good hygiene, you should not set the DHW temperature lower than 122°F (50°C).

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