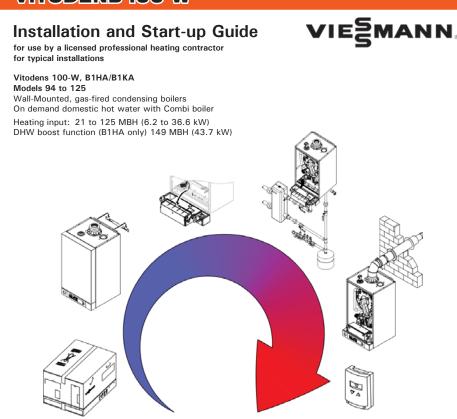
VITODENS 100-W



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 Vitodens 100-W B1HA/B1KA boiler. It is NOT a substitute for the technical support literature supplied with the boiler and

The 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











The installation of this unit shall be in accordance with local codes or, in the absence

use latest editions of codes.

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

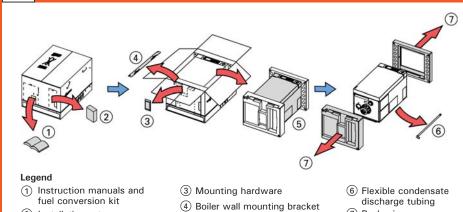
for Hydronic Heating Systems, CSA B214-

01, where required by the authority having



1 Unpacking and Included with Boiler

2 Installation set

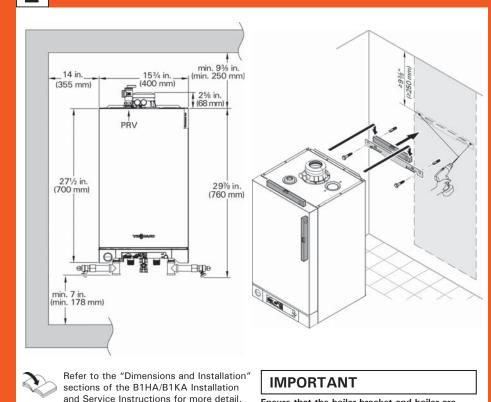


7 Packaging

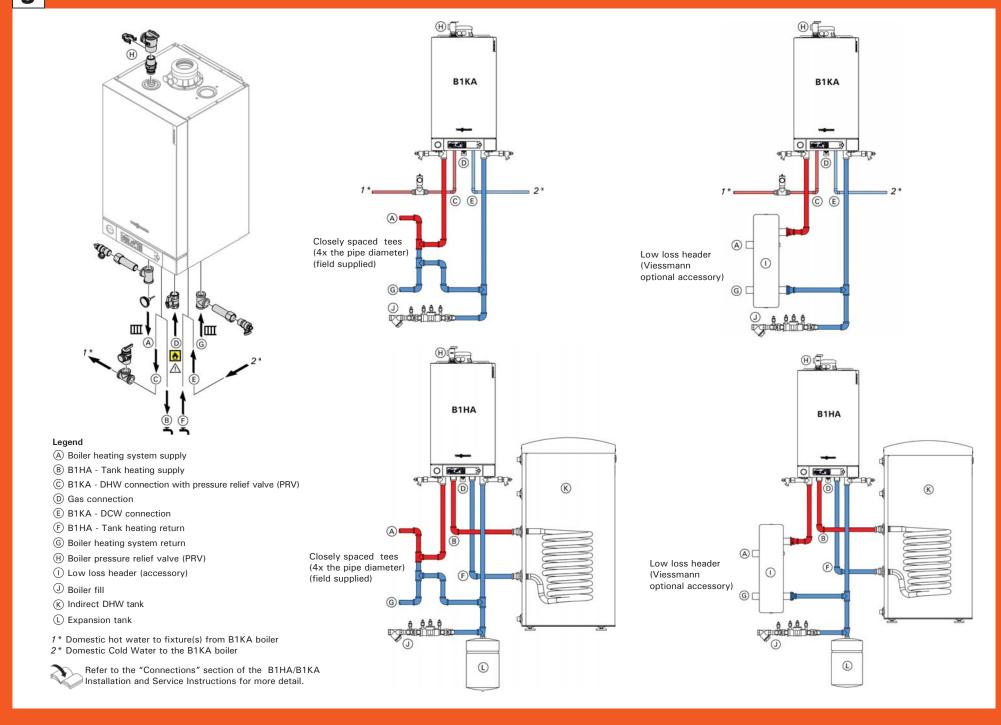
Ensure that the boiler bracket and boiler are

2 Boiler Installation Dimensions and Mounting Details

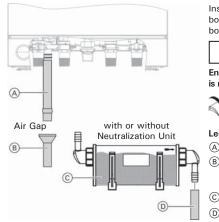
(5) Boiler



3 Installation Fittings and Typical Piping Connections



4 Boiler Condensate Connection



Install the flexible condensate discharge tube (A) onto the boiler syphon discharge located at the bottom rear of the

IMPORTANT

Ensure that the condensate line is clear from any blockage and is not exposed to freezing temperatures at any point in time.

Refer to the "Neutralization Unit" Instructions supplied with the neutralization unit.

A Flexible condensate discharge tubing (from boiler). B Condensate discharge tubing with clamps (field supplied) if required. For connection to neutralization

unit and / or suitable sewage drain. © Neutralizer unit (optional) Note: Consult local codes.

D Condensate discharge tubing with clamps (field supplied).

5 Filling the Siphon with Water

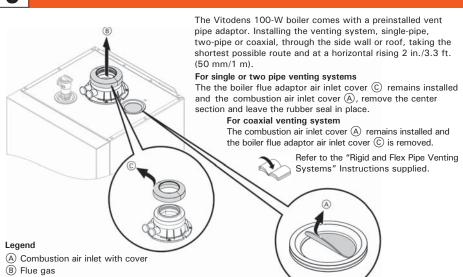


© Boiler flue adaptor air inlet cover

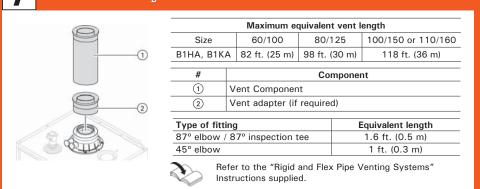
Fill the siphon with 10 fl. oz. (0.3 liters) of water into the boiler adaptor before start-up.

Refer to the "Connections" section of the B1HA/ B1KA Installation and Service Instructions for more detail.

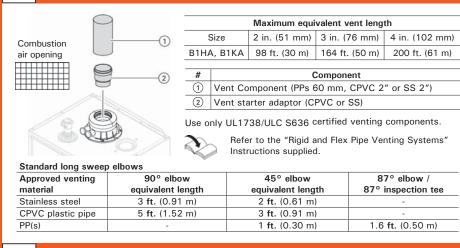
6 Preparing for Vent Connection



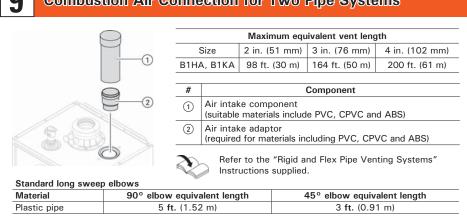
7 Coaxial Vent System Boiler Connections



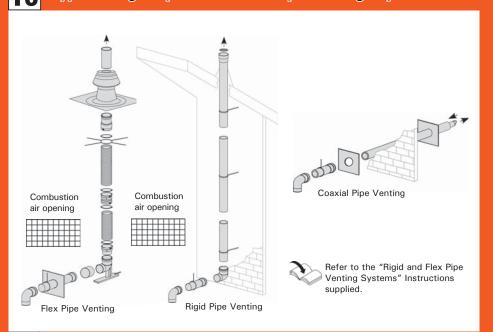
Flue Connection for Single or Two Pipe Systems



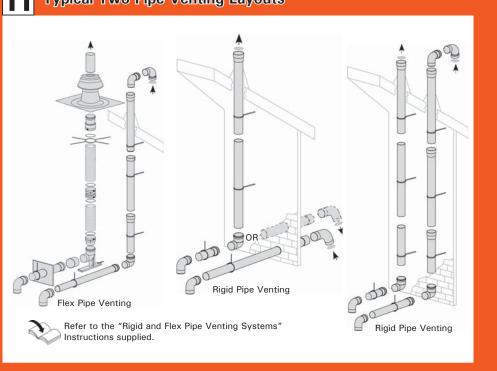
Combustion Air Connection for Two Pipe Systems



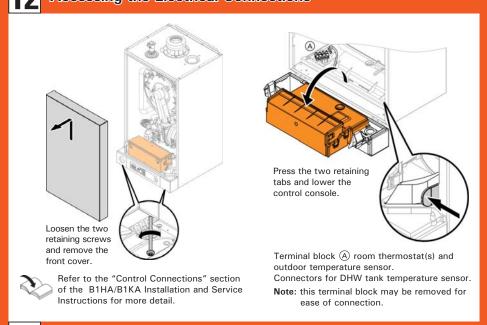
10 Typical Single Pipe and Coaxial Pipe Venting Layouts



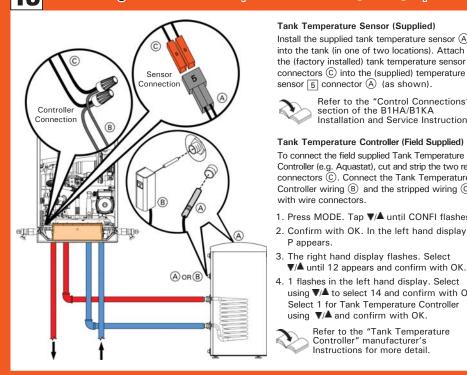
11 Typical Two Pipe Venting Layouts



12 Accessing the Electrical Connections



13 Connecting DHW Tank Temperature Sensor (B1HA) Optional

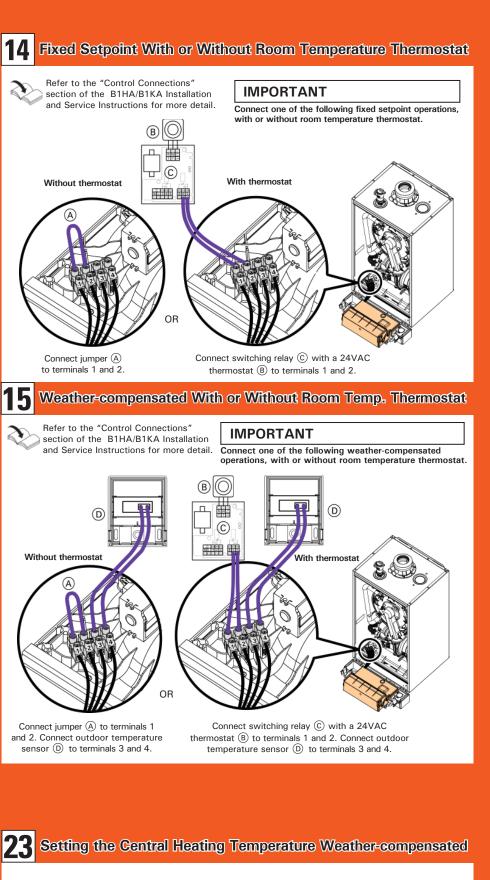


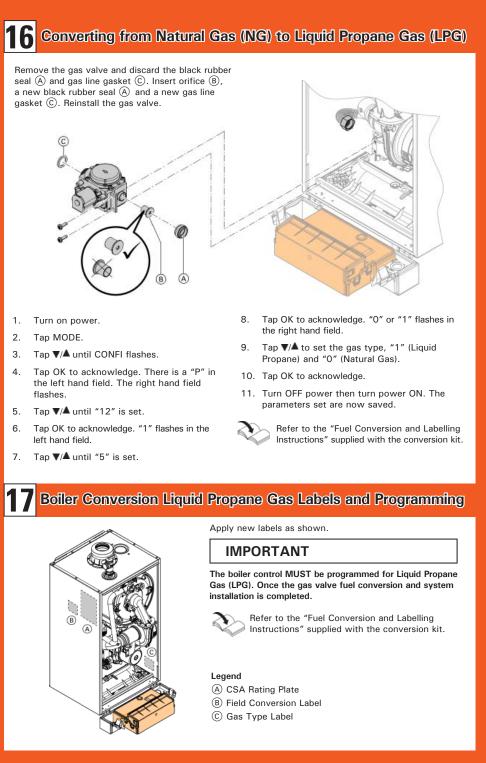
Tank Temperature Sensor (Supplied) Install the supplied tank temperature sensor (A) into the tank (in one of two locations). Attach the (factory installed) tank temperature sensor connectors © into the (supplied) temperature sensor 5 connector (A) (as shown).

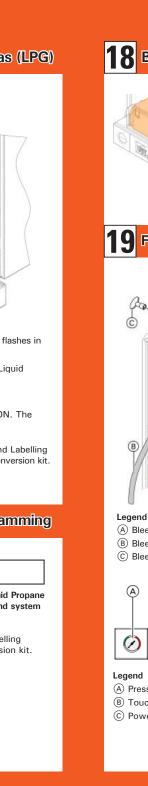
Refer to the "Control Connections" section of the B1HA/B1KA Installation and Service Instructions.

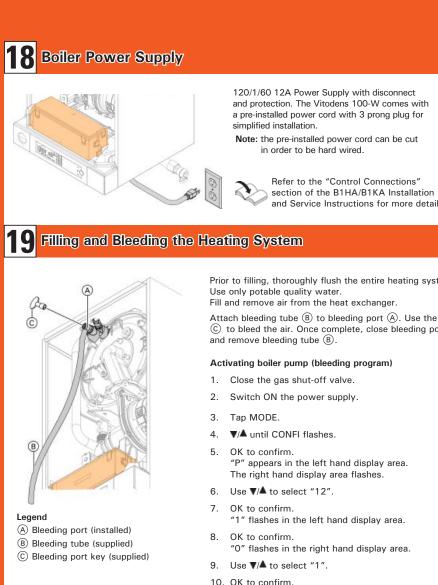
To connect the field supplied Tank Temperature Controller (e.g. Aquastat), cut and strip the two red connectors ©. Connect the Tank Temperature Controller wiring (B) and the stripped wiring (C) with wire connectors.

- 1. Press MODE. Tap ▼/▲ until CONFI flashes. 2. Confirm with OK. In the left hand display P appears.
- 3. The right hand display flashes. Select ▼/▲ until 12 appears and confirm with OK.
- 4. 1 flashes in the left hand display. Select using V/▲ to select 14 and confirm with OK. Select 1 for Tank Temperature Controller using **▼**/**≜** and confirm with OK.
- Refer to the "Tank Temperature Controller" manufacturer's Instructions for more detail.









25 Adjusting the Heating Curve Set Point

Temperature parameter default setting is 20 (or 50 if the display is converted to °F).

MODE

▲ || **5**

Setting the set point

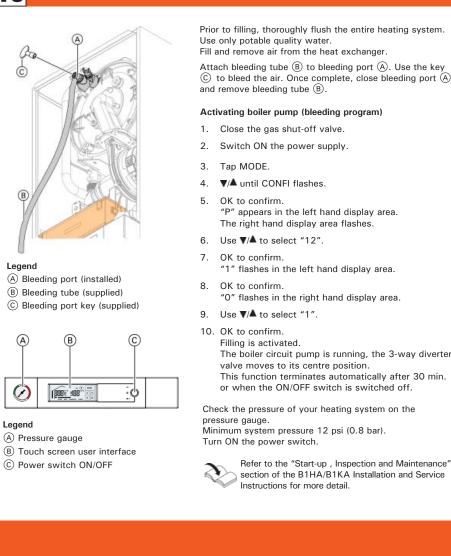
The set parameter flashes and III will be

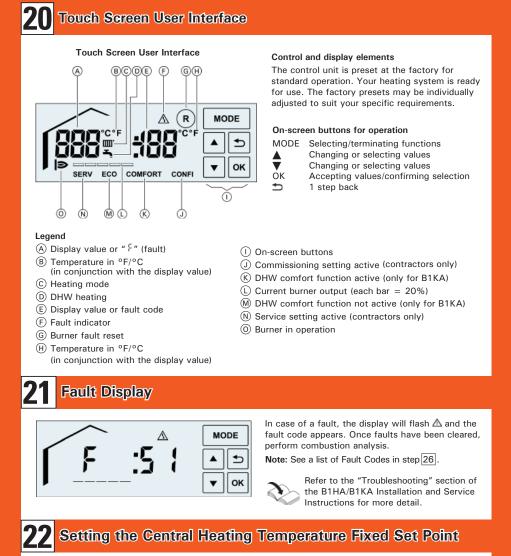
Use V/▲ to select the parameter

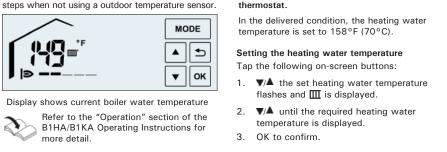
Tap ▼/▲.

displayed

Heating curve set point

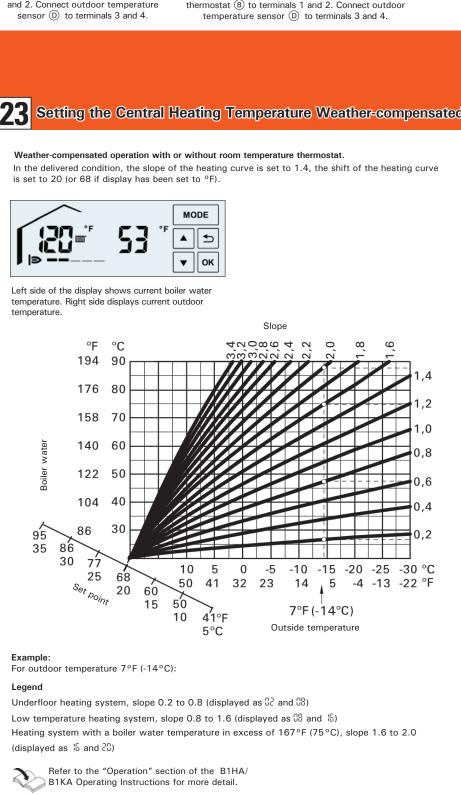


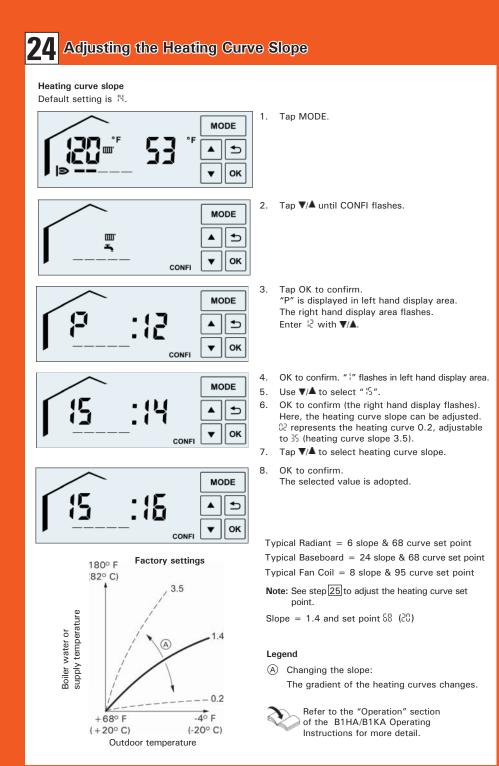




Operation with or without room temperature

Note: Set the central heating temperature using these











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Viessmann Manufacturing Company (U.S.) Inc. 45 Access Road Warwick, Rhode Island • 02886 • USA TechInfo Line 1-844-649-5886 -800-387-7373 • Fax (519) 885-0887 1-800-288-0667 • Fax (401) 732-0590 www.viessmann.ca • info@viessmann.ca www.viessmann-us.com • info@viessmann-us.cor