

Service Instructions

for use by heating contractor

VIESSMANN®

Vitorond 200

VD2A Series

Oil-/Gas-fired boiler

Heating input: 490 to 1096 MBH
144 to 321 kW



VITOROND 200



Product may not be exactly as shown

IMPORTANT

Read and save these instructions for future reference.

Safety, Installation and Warranty Requirements

Please ensure that these instructions are read and understood before commencing installation. Failure to comply with the instructions listed below and details printed in this manual can cause product/property damage, severe personal injury, and/or loss of life. Ensure all requirements below are understood and fulfilled (including detailed information found in manual subsections).

■ **Product documentation**

Read all applicable documentation before commencing installation. Store documentation near boiler in a readily accessible location for reference in the future by service personnel.

► *For a listing of applicable literature, please see section entitled "Important Regulatory and Safety Requirements".*



■ **Licensed professional heating contractor**

The installation, adjustment, service and maintenance of this equipment must be performed by a licensed professional heating contractor.

► *Please see section entitled "Important Regulatory and Installation Requirements".*



■ **Contaminated air**

Air contaminated by chemicals can cause by-products in the combustion process, which are poisonous to inhabitants and destructive to Viessmann equipment.

► *For a listing of chemicals which cannot be stored in or near the boiler room, please see section entitled "Mechanical Room" in this manual.*



■ **Advice to owner**

Once the installation work is complete, the heating contractor must familiarize the system operator/ultimate owner with all equipment, as well as safety precautions/requirements, shutdown procedure, and the need for professional service annually before the heating season begins.

■ **Warranty**

Information contained in this and related product documentation must be read and followed. Failure to do so renders the warranty null and void.



■ **Carbon monoxide**

Improper installation, adjustment, service and/or maintenance can cause flue products to flow into living space. Flue products contain poisonous carbon monoxide gas.

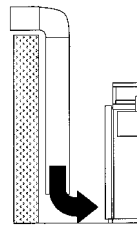
► *For information pertaining to the proper installation, adjustment, service and maintenance of this equipment to avoid formation of carbon monoxide, please see section entitled "Combustion air supply" and "Venting information" in this manual.*



■ **Fresh air**

This equipment requires fresh air for safe operation and must be installed ensuring provisions for adequate combustion and ventilation air exist.

► *For information pertaining to the fresh air requirements of this product, please see subsection entitled "Mechanical Room" in this manual.*



■ **Equipment venting**

Never operate boiler without an installed venting system. An improper venting system can cause carbon monoxide poisoning.

► *For information pertaining to venting and chimney requirements, please see section entitled "Venting Information" in this manual. All products of combustion must be safely vented to the outdoors.*



! WARNING

Installers must follow local regulations with respect to installation of carbon monoxide detectors. Follow the Viessmann maintenance schedule of the boiler in the "Service Instructions" manual.

Safety, Installation and Warranty Requirements *(continued)*

■ Fiberglass wool and ceramic fiber materials



WARNING

Inhaling of fiberglass wool and/or ceramic fiber materials is a possible cancer hazard. These materials can also cause respiratory, skin and eye irritation.

The state of California has listed the airborne fibers of these materials as a possible cancer hazard through inhalation. When handling these materials, special care must be applied.

Suppliers of ceramic fiber products recommend the following first aid measures:

- *Respiratory tract (nose and throat) irritation:*
If respiratory tract irritation develops, move the person to a dust free location.
- *Eye irritation:* If eyes become irritated, flush immediately with large amounts of lukewarm water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not rub eyes.
- *Skin irritation:* If skin becomes irritated, remove soiled clothing. Do not rub or scratch exposed skin. Wash area of contact thoroughly with soap and water. Using a skin cream or lotion after washing may be helpful.
- *Gastrointestinal irritation:* If gastrointestinal tract irritation develops, move the person to a dust free environment.

Suppliers of fiberglass wool products recommend the following precautions be taken when handling these materials:

Precautionary measures

- Avoid breathing fiberglass dust and contact with skin and eyes.
- Use NIOSH approved dust/mist respirator.
- Wear long-sleeved, loose fitting clothing, gloves and eye protection.
- Wash work clothes separately from other clothing. Rinse washer thoroughly.
- Operations such as sawing, blowing, tear-out and spraying may generate airborne fiber concentration requiring additional protection.

First aid measures

- If eye contact occurs, flush eyes with water to remove dust. If symptoms persist, seek medical attention.
- If skin contact occurs, wash affected areas gently with soap and warm water after handling.

■ Hazardous materials



WARNING

Appliance materials of construction, products of combustion and the fuel contain alumina, silica, heavy metals, carbon monoxide, nitrogen oxides, aldehydes and/or other toxic or harmful substances which can cause serious injury or loss of life and which are known to the State of California to cause cancer, birth defects and other reproductive harm. Always use proper safety clothing, respirators and equipment when servicing or working nearby the appliance.

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Important Regulatory and Safety Requirements

Instructing the system user

The installer of the system is responsible to ensure the system operator/ultimate owner is made familiar with the functioning of the system, its activation, and its shut-down.

Note: The following topics must be covered:

- Proper system operation sequence.
- Explain the equipment as well as the need for combustion air.
- Demonstrate an emergency shut-down, what to do and what not.
- Explain that there is no substitute for proper maintenance to help ensure safe operation.

Initial start-up

Initial start-up must be performed by a qualified heating contractor. Completion of the Maintenance Record by the heating contractor is also required.

Note: The Maintenance Record is located on page 20 of this manual.

Working on the equipment

The installation, adjustment, service, and maintenance of this boiler must be performed by a licensed professional heating contractor who is qualified and experienced in the installation, service, and maintenance of hot water boilers. There are no user serviceable parts on the boiler, burners, or control.

Note: Please carefully read this manual prior to attempting installation. Any warranty is null and void if these instructions are not followed.

For information regarding other Viessmann System Technology componentry, please reference documentation of the respective product.

Viessmann offers frequent installation and service seminars to familiarize our partners with our products. Please inquire.

Ensure main power supply to equipment, the heating system, and all external controls has been deactivated. Close main gas supply valve. Take precautions in all instances to avoid accidental activation of power during service work.

Note: The completeness and functionality of field supplied electrical controls and components must be verified by the heating contractor. This includes low water cut-offs, flow switches (if used), staging controls, pumps, motorized valves, air vents, thermostats, etc.

Technical literature

Literature for the Vitorond 200 VD2A* boiler:

- Technical Data Manual
- Installation Instructions
- Service Instructions
- Operating Instructions and User's Information Manual
- Instructions of other Viessmann products utilized with this installation
- Installation codes mentioned in this manual

Additional applicable literature:

- Viessmann boiler controls manuals

Note: Leave all literature at the installation site and advise the system operator/ultimate owner where the literature can be found. Contact Viessmann for additional copies.

About these Installation Instructions



Take note of all symbols and notations intended to draw attention to potential hazards or important product information. These include “WARNING”, “CAUTION”, and “IMPORTANT”. See below.



WARNING

Indicates an imminently hazardous situation which, if not avoided, could result in loss of life, serious injury or substantial product/property damage.

► Warnings draw your attention to the presence of potential hazards or important product information.



CAUTION

Indicates an imminently hazardous situation which, if not avoided, may result in minor injury or product/property damage.

► Cautions draw your attention to the presence of potential hazards or important product information.

IMPORTANT

► Helpful hints for installation, operation or maintenance which pertain to the product.



► This symbol indicates that additional, pertinent information is to be found.



► This symbol indicates that other instructions must be referenced.

Necessary Tools

Tools

- Assortment of flathead and Phillips screwdrivers
- Pipe wrenches
- Open-ended wrenches
- Pipe sealant
- Assortment of Allen keys
- Flashlight
- Approved leak detection fluid for natural gas and propane gas

Cleaning supplies

- Hand brush
- Cleaning/service brush (supplied)
- Vacuum cleaner
- Rags

Testing/Analysis equipment

(use only calibrated equipment)

- Flue gas analyzer to measure % CO₂ or O₂ (i.e. Bacharach fluid samplers or a suitable electronic analyzer)
- Multimeter to measure 0 - 120 VAC, 0 - 12 AAC, and 0 - 20 microamps DC
- Smoke test gun (Bacharach)
- Oil pump pressure gage
- Oil pump vacuum gage
- Pressure gage to measure gas pressure 0 - 28 "w.c. (a non-electric Magnehelic® pressure gage may also be used)
- Carbon monoxide measuring equipment (0 - 400 ppm)
- Bacharach calculator or suitable tables to calculate efficiency
- Stack thermometer 0 to 500° F (0 to 260° C)
- 1/8 in. NPT male to 1/4 in. barb adaptor fitting, as well as tubing for pressure measurement

Technical information

The following is a list of literature applicable to the Vitorond 200, VD2A boiler:

- Installation Instructions
- Service Instructions
- Operating Instructions and User's Information Manual

For installation of the heating system, please refer also to the technical literature of other System Technology devices:

- Installation Instructions for Viessmann boiler control
- Installation Instructions for Viessmann indirect-fired hot water storage tank(s)
- Installation Instructions for burner and accessories

Replacement parts

For a complete listing of replacement components, please see Parts List starting on page 17 of these instructions.

Order replacement components from your Viessmann distributor.

CAUTION

Use only original Viessmann components when replacing defective parts. Installation of incorrect replacement parts can cause hazardous operation and will void warranty.

Customer Site Information

Please complete the information below.

Site	
Name:	
Street:	
City:	
Tel.:	

Boiler	
Mfr.:	Viessmann
Series:	
Heating Input:	MBH
Serial No.:	

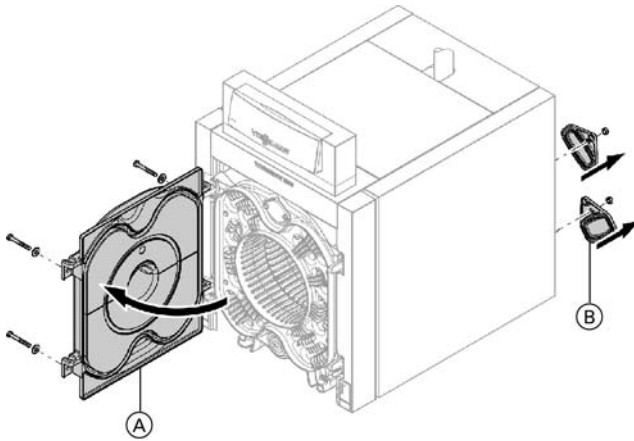
Burner	
Mfr.:	
Series:	
Heating Input:	MBH
Serial No.:	

Installing Contractor	
Firm:	
Technician:	
Address:	
Tel.:	
Installed on:	

Shut Down Heating System

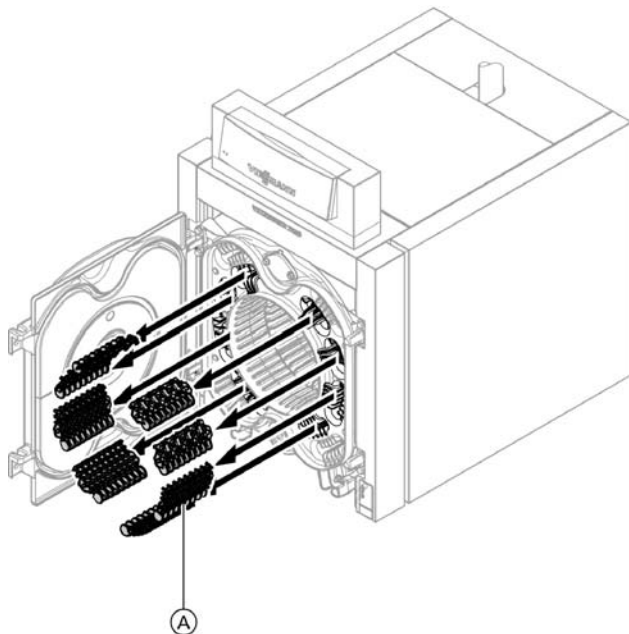
1. Deactivate main power supply to heating system and secure against accidental reactivation.
2. Disconnect plug **41** and **90** from burner.
3. Close main oil or gas supply valve.

Open Combustion Chamber Door and Remove Clean-out Opening Covers



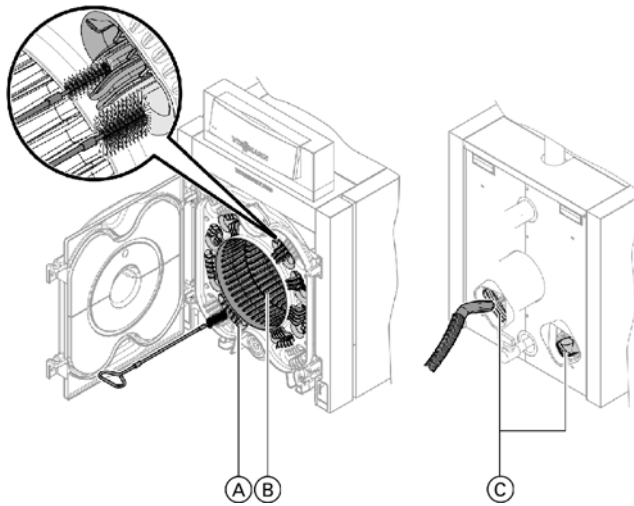
1. When using a gas power burner: Disconnect gas train.
2. Loosen four M12 bolts on combustion chamber door **(A)** and open.
3. Remove clean-out opening covers **(B)**.

Remove and Clean Turbulators



1. On models VD2A-125 to VD2A-195 only: Remove turbulators **(A)** and clean.

Clean Heat Exchanger, Flue Gas Collar and Chimney



1. Clean flue gas passageways (A) and combustion chamber (B) with the supplied cleaning brush. Clean tight areas between ribs with the smaller cleaning brush. Remove combustion residues with a vacuum cleaner.
2. Remove combustion residues of chimney connection and flue gas collar via the clean-out openings (C) at rear of boiler (for example, using a vacuum cleaner).

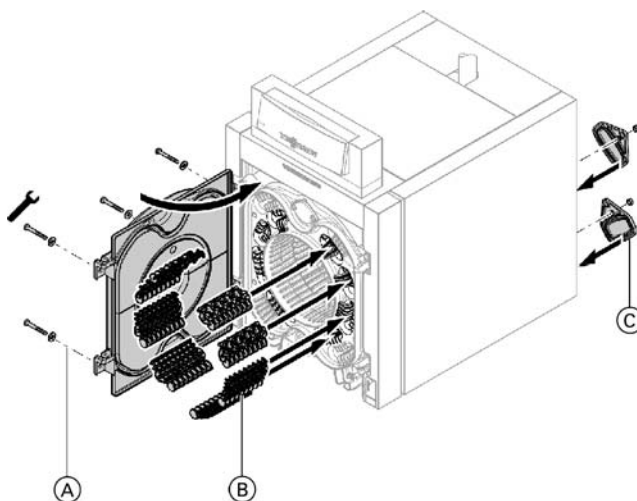
Check All Gaskets and Sealant Ropes

Replace worn items.

Check Insulation of Combustion Chamber Door

Replace worn items.

Reinstall Turbulators, Clean-out Covers and Close Combustion Chamber Door



1. On models VD2A-125 to VD2A-195 only: Completely insert turbulators (B) into the second flue gas passageways.
2. Tighten bolts (A) of combustion chamber door in a cross-wise fashion.
When using a gas power burner: Connect gas train and perform necessary leak detection tests.
3. Install clean-out opening covers (C).

Check Proper Operation of Safety Header

Check pressure gage, air vent and pressure relief valve. Ensure pressure relief valve does not leak. Also ensure pressure relief valve operates in accordance with information provided by the manufacturer.

Check Proper Operation of Expansion Tank, Low Water Cut-offs and Pumps

Ensure proper system water pressure in diaphragm expansion tanks, low water cut-offs, pumps, and pressure relief valve.

Note: Observe the instructions by the expansion tank manufacturer. Perform all tests on a cold system.

Flush float water type low water cut-offs (if used).

The usual water fill pressure is between 12 and 15 psig with the system cold. A lower pressure gage reading usually indicates loss of water due to leakage. All leaks must be corrected.

Note: Refer to instructions packaged with automatic fill valve. Follow local regulations with respect to backflow preventers.

If oil-lubricated pumps are used, ensure proper lubrication.

If motorized zone valves are used, refer to maintenance instructions provided with zone valves.

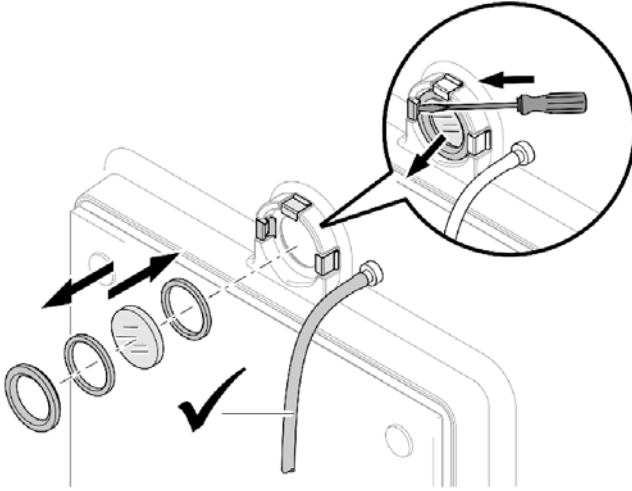
If an older non-diaphragm expansion tank is used, ensure the correct water level is present (approx. $\frac{2}{3}$ full).

Check Proper Expansion Tank and System Pressures

1. Drain system or close cap valve on the diaphragm expansion tank and reduce the pressure until the pressure gage indicates "0".
2. If the inlet pressure of the diaphragm expansion tank is lower than the static system pressure, top up with enough nitrogen to raise the inlet pressure higher than the static system pressure 0.1 to 0.2 bar (1.5 to 3 psig). The static pressure corresponds to the static height.
3. Top up with water until the filling pressure of a cool system is higher than the inlet pressure of the diaphragm expansion tank 0.1 to 0.2 bar (1.5 to 3 psig). Max. operating pressure is 5 bar (75 psig).

Clean Sight Glass of Combustion Chamber Door

Check the gaskets and hose connection for leaks.



Check Water Hardness

Water treatment should be considered in areas where it is known that boiler feed water contains a high mineral content and hardness. Test and establish proper chemical make-up of system water.

Note: Contact a local water treatment company for advice.

Ensure Proper Fit of Insulation Blanket

Ensure proper fit of insulation blanket.

Ensure Proper Operation of Heating System Control

Remove motorized arm from mixing valve and check the motor for ease of movement. If mixing valve is not water-tight, replace O-ring seals and snap the motorized arm back into place

Ensure Proper Operation of Low Temperature Protection Package

Ensure proper operation of low temperature protection package.

Check Combustion Air Supply

Ensure an adequate supply of combustion and ventilation air is available. If an outside air duct is required, ensure it is installed.

Note: See subsection entitled “Combustion air supply” in the Installation Instructions.

Ensure that nothing is obstructing the flow of combustion and ventilation air and no chemicals, garbage, gasoline, combustible materials, flammable vapors and liquids are stored (not even temporarily) in the vicinity of the boiler.

Check Vent System

Ensure proper operation of the barometric draft regulator (barometric damper).

Note: See Installation Instruction Supplement for Barometric Draft Regulator.

Calibrate Burner

See separate instructions supplied with the burner. The maximum input published for each boiler size must not be exceeded.

Two-stage burner

With a two-stage burner, when the boiler water temperature falls below the minimum 140° F (60° C), the burner automatically switches to the second stage (full input) to protect the boiler from the effects of dew-point condensation, i.e. condensation/corrosion.

In order to provide this protection, the burner must not be limited to first stage operation during the summer months.

Model	Flue gas resistance	
	mbar	“w.c.
VD2A-125	0.65	0.26
VD2A-160	0.95	0.38
VD2A-195	1.0	0.40
VD2A-230	1.2	0.48
VD2A-270	1.6	0.64

Calibrate Burner *(continued)*

Weishaupt / Riello burners

A Vitorond 200, VD2A boiler with a high-performance gas burner can achieve a combustion efficiency of up to 85.2%, and up to 87.9% if equipped with a #2 oil burner.

Gas-fired

10% volume CO₂, 280° F (138° C) net stack temperature, CO in ppm < 50

Oil-fired

13% volume CO₂, 300° F (149° C) net stack temperature, smoke spot 0 - 1 (on the Bacharach Scale)



Refer to the Installation Instructions for Oil Door Safety Switch

The maximum input published for each boiler size cannot be exceeded.

Vitorond 200 with Viessmann boiler controls

To further protect the Vitorond 200, VD2A from dew-point corrosion, the following minimum inputs on a 2-stage burner must be adjusted for the first stage when the boiler is used in conjunction with a Viessmann Vitotronic boiler control and when operating with modulating boiler water temperatures.

Model	Input	Input	Min. 1-stage input	Min. 1-stage input
	Oil MBH	Gas MBH	Oil MBH	Gas MBH
VD2A-125	490	508	294	305
VD2A-160	628	650	377	390
VD2A-195	765	792	459	475
VD2A-230	902	934	541	560
VD2A-270	1059	1096	635	658

Under partial load conditions, a minimum flue gas temperature must be met. How high that minimum flue gas temperature must be depends largely on the configuration of the chimney insulation, venting material and venting category (I or III), and height of the chimney.

Check Proper Operation of Door Safety Switch (oil burners only)



Refer to the Installation Instructions for Oil Door Safety Switch

Maintenance Schedule

Maintenance

The boiler must be cleaned at least once a year by a qualified heating contractor or service agency.

The following is an overview of scheduled service steps.

Regular service work ensures reliable, energy-efficient, and environmentally friendly operation.

IMPORTANT

Keep boiler and boiler room clear and free from combustible materials, gasoline and other flammable vapors and liquids. Do not obstruct the flow of combustion and ventilation air. All inspection, maintenance, and service must be performed by a qualified heating contractor.

Frequency	Performed by	✓	Service
Monthly	Owner / Operator		Check the system pressure frequently (min. 20 psig).
			Ensure proper operation of the boiler control.
			Inspect all seals; retighten or replace as necessary.
			Ensure an adequate supply of combustion air and ventilation air into and out of the mechanical room is being maintained.
Annually	Owner / Operator		Ensure service work/test is conducted at least annually by qualified personnel, and that any deficiencies are corrected immediately.
	Heating Contractor		Test functionality of safety high limits.
			Test burner with burner accessories according to their corresponding maintenance checklist.
			Test and establish proper chemical makeup of system water.
			Check flue pipe condition, chimney connection and chimney itself.
			Check pressure relief valve and system pressure, and verify proper operation of automatic feed if installed.
			Check heating pipe joints, valves, air vents, etc. System leaks must be corrected immediately to avoid further defects. The cause of defect must also be determined in order to avoid further problems.
			Check for proper combustion air supply and ventilation to boiler / mechanical room.
			Check for combustible materials or chemicals stored too close to the boiler.
			Test high limits by dialing lower settings, switching burner on/off to verify functioning of same. Test low water cut-off, check and verify proper function according to manufacturer's instructions.
			When circulating pump is field-installed or existing, check requirements for maintenance or lubrication according to manufacturer's specifications.
			Check for oil-tight fuel lines; clean or exchange fuel oil filters annually. Check and inspect oil tank.
			Check for gas-tight connection of gas piping, unions, gas valve and manifold.
			Check proper ignition on oil or gas burner operation.
			Combustion test must be performed by a qualified service technician.
			Ensure proper operation of door safety switch.
			Ensure functionality of low water cut-offs, including flushing of float types (if used) during operation, based on supplier's instructions.
			Inspect low- and/or high pressure gas switch (if used).
			Inspect main burner flame and follow burner manufacturer's instruction manual for detailed service and maintenance guidelines. Manual shipped with burner.
			All boilers and the boiler room must be kept free of high dust levels, high humidity, aggressive vapors and/or chemicals containing chlorine.
	Ensure proper boiler room ventilation and combustion air is maintained.		
	Valves, fittings and pipes not pressure tight must be repaired.		
	Combustion chamber door, clean-out opening covers, glass fiber rope seals and flanges may need to be retightened and resealed.		

Parts List

VD2A Series

Model No. Serial No. *1

VD2A-125	7160530	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VD2A-160	7160531	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VD2A-195	7160532	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VD2A-230	7160533	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VD2A-270	7160534	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ordering Replacement Parts:

Please provide boiler Model and Serial Number from rating plate when ordering replacement parts.
Order replacement parts from your Viessmann distributor.

Parts

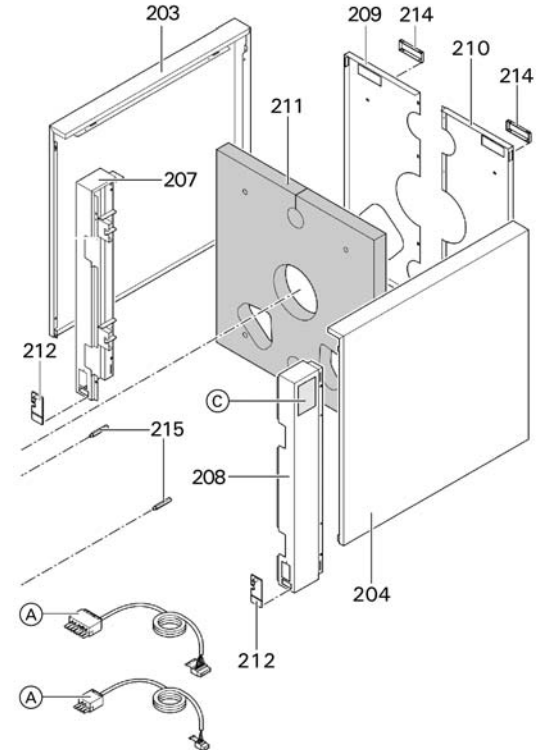
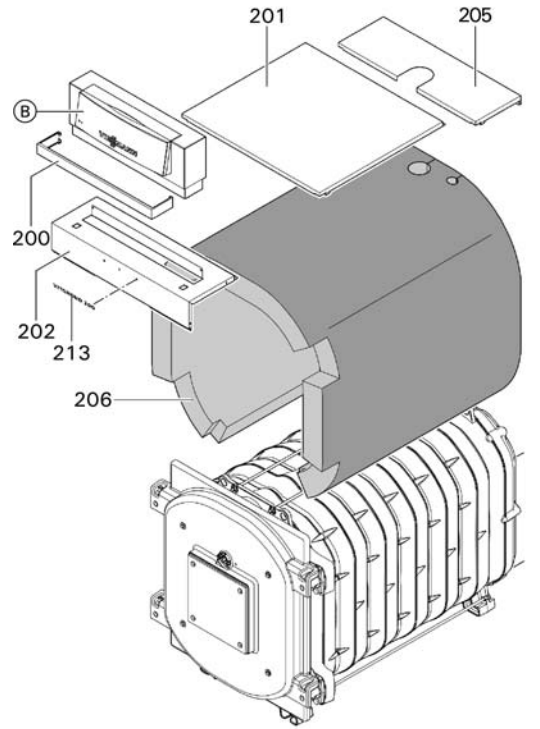
- 201 Top panel, front
- 202 Front panel
- 203 Side panel (left)
- 204 Side panel (right)
- 205 Top panel, back
- 206 Insulation blanket
- 207 Front left cover
- 208 Front right cover
- 209 Back panel, left
- 210 Back panel, right
- 211 Insulation blanket, rear
- 212 Strain relief (2-channel)
- 213 Nameplate "Vitorond 200"
- 214 Cover, edge molding
- 215 Extension bolt, rear

Other Parts (not illustrated)

- 306 Decorative stripe
- 307 Touch-up spray paint Vitotec, silver
- 308 Touch-up paint stk Vitotec silver
- 420 Technical literature set
- 421 Installation Instructions
- 422 Start-Up/Service Instructions
- 423 Operating Instructions and User's Information Manual
- 424 Parts List
- 425 Warranty Sheet Cast-Iron
- 426 Installation Instructions, Venting System
- 427 Installation Supplement Barometric Draft Regulator
- 428 Technical Data Sheet, Loctite 55

- (A) Burner/control cable (see Parts List of control unit)
- (B) Boiler control (see Parts List of control unit)
- (C) Rating plate

*1 A 16-digit bar-coded serial no. is printed on the Viessmann rating plate (C).



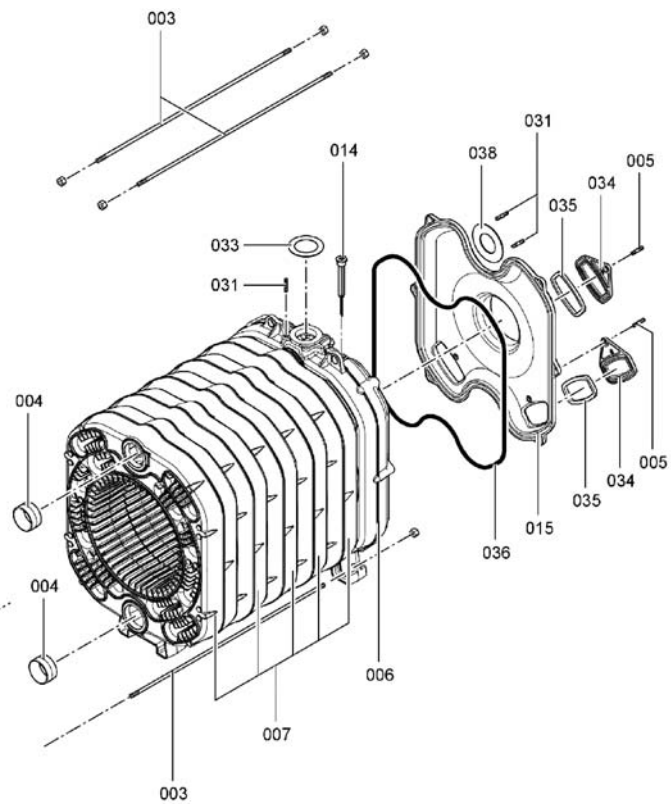
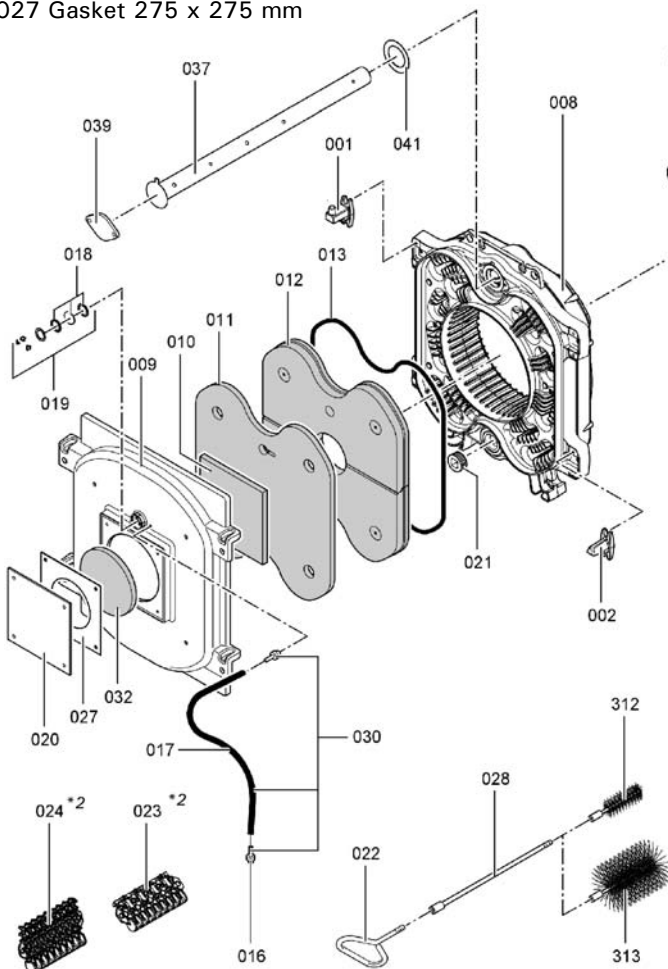
Boiler control may not be exactly as illustrated.

Parts List *(continued)*

Parts

- 001 Door hinge
- 002 Door hinge stop
- 003 Tie rod, M12
- 004 Nipple, d = 87 mm
- 005 Mounting bolt (package of 1)
- 006 Rear section (ASME) *1
- 007 Center section (ASME) *1
- 008 Front section (ASME) *1
- 009 Boiler door
- 010 Insulation mat
- 011 Insulation mat
- 013 Glass-fiber gasket rope,
20 x 15 l = 3000 mm
- 014 4-Point sensor well
- 015 Flue gas collector
- 016 Barbed hose nipple ¼ in.
- 017 Plastic hose, 800 mm
- 018 Sight glass c/w gaskets
- 019 Sight glass assembly
- 020 Burner plate
- 021 Plug, 2 in.
- 022 Cleaning brush handle
- 023 Turbulator insert, W2Z a top *2
- 024 Turbulator insert, W2Z b bottom *2
- 027 Gasket 275 x 275 mm

- 028 Extension rod M10 355 mm
- 030 Plastic hose assembly
- 031 Bolt
- 032 Insulation blanket, d = 240 mm
- 033 Gasket DN65 PN6
- 034 Cleanout cover
- 035 Glass-fiber gasket, 10 x 10 x 1000 mm
- 036 Fiber rope seal 12 x 12 x 3000 mm
- 037 Accessory pack for return distribution tube
- 038 Gasket 60 x 116 x 3 mm
- 039 Flange
- 041 Gasket for return distribution 62 x 95 x 3 mm



Wear Parts

- 012 Combustion chamber door refractory
- 312 Cleaning brush head 25 x 40 x 100 mm
- 313 Cleaning brush head 50 x 100 x 100 mm

Other Parts (not illustrated)

- 301 Split kit (all sections)
- 302 Split kit (1 section)
(for Pos. 006, 007, 008)
- 303 Soudal gasket seal, tube 310 ml
- 305 Accessory pack for insulation

*1 For each section being replaced, order 1 x item 302.
*2 Applies up to size VD2-195.

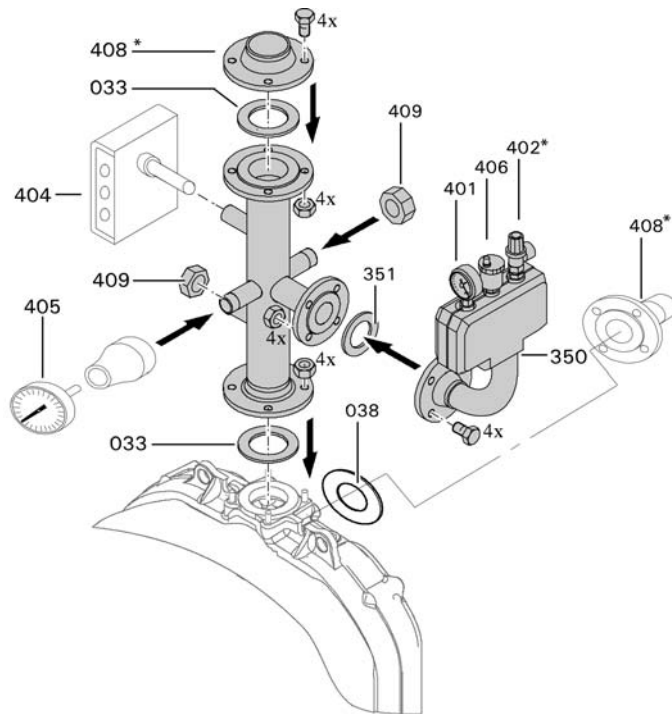
Parts List *(continued)*

Parts

- 033 Gasket, DN5 PN6
- 038 Gasket, 60 x 116 x 3 mm
- 351 Gasket, DN40 PN6
- 400 Installation fittings assembly
- 401 Pressure gage, 0-160 psi 2.5
- 402 Pressure relief valve
- 404 Low water cutoff
- 405 Thermometer
- 406 Air vent, 3/8 in.
- 408 Flange DN2631 PN6 > 2 1/2 in. NPT
- 409 Plug, 3/4 in. BSPT BMI

Other Parts (not illustrated)

- 350 Gasket, 41 x 56 x 2 mm
- 403 Loctite 55 pipe sealing cord, 39 ft. (12 m)



Some components may not be exactly as illustrated.

Maintenance Record

	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					
	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					
	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					
	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					
	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					
	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service	Maintenance/ Service
on:					
by:					

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