



Vitocontrol-S WB2B

Cascade Control



Prefabricated multiple-boiler distribution manifold for Vitodens 200 WB2B boilers. Product may not look exactly as shown.

Get the best performance from your multiple-boiler installations with the Vitocontrol-S Cascade Control! This advanced digital boiler and system control with outdoor reset function ensures reliable and efficient performance of the entire heating system.

- For use with up to four Vitodens 200, WB2B wall-mounted condensing boilers
- Designed for heating system with one heating circuit without mixing valve and two heating circuits with mixing valve and domestic hot water production
- The use of a low-loss header, with or without a distribution manifold, acts as a hydraulic break - decoupling the boiler and the system circuits from each other
- The temperature sensor connection for the low-loss header ensures low return temperatures at all times, increasing operational efficiency
- The low-loss header helps eliminate air and debris from the heating system

Features and Benefits:



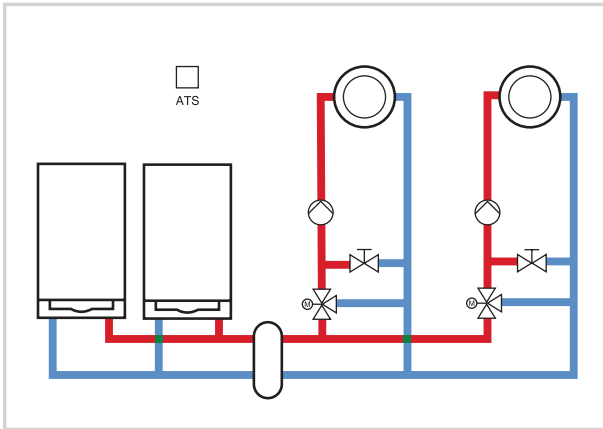
Vitocontrol-S WB2B Cascade Control



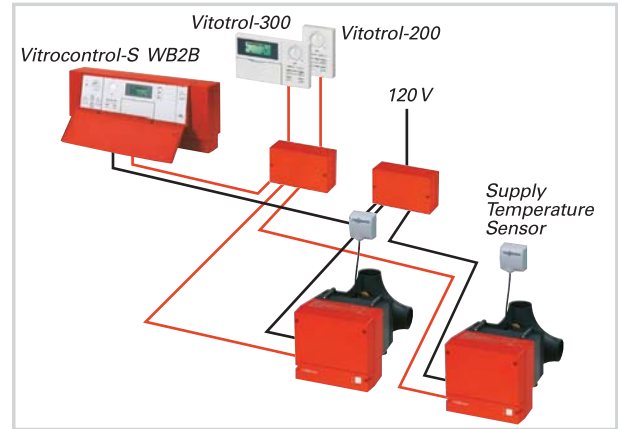
Vitotronic 100 Control

- Saves valuable time during installation
- Different control levels for system users and heating contractors
- Energy saving functions
- Plug & Work function for automatic recognition and adaptation of sensors and system accessories
- Service interval display for demand-dependent maintenance
- Quick installation, commissioning and maintenance with integrated diagnostic system
- Digital time switch for selecting daily and/or weekly programs
- Automatic summer/winter changeover
- Illuminated operating program switches
- Party key, economy key and holiday program
- Easy legibility with large, plain text displays
- Enables simple integration into building management systems without additional gateway (limited access)
- Integral control unit for two mixer circuits
- Direct connection of up to 32 mixing valves with the Vitotronic 200-H control, each with up to three heating circuits (LON)
- Provides all known control strategies for multi-boiler systems (Shutdown Criterion, Starting Criterion, Condensing Strategy)
- Enables the centralized operation of the entire system
- Optional use of commercially available LON equipment for further inputs and outputs - coupling via standard LON tools
- Communication within the control system via LON management systems (limited access)
- Automatic component connection and configuration between Viessmann LON devices of control units
- Program selection for regulated screed drying
- Frost protection

General System Layout

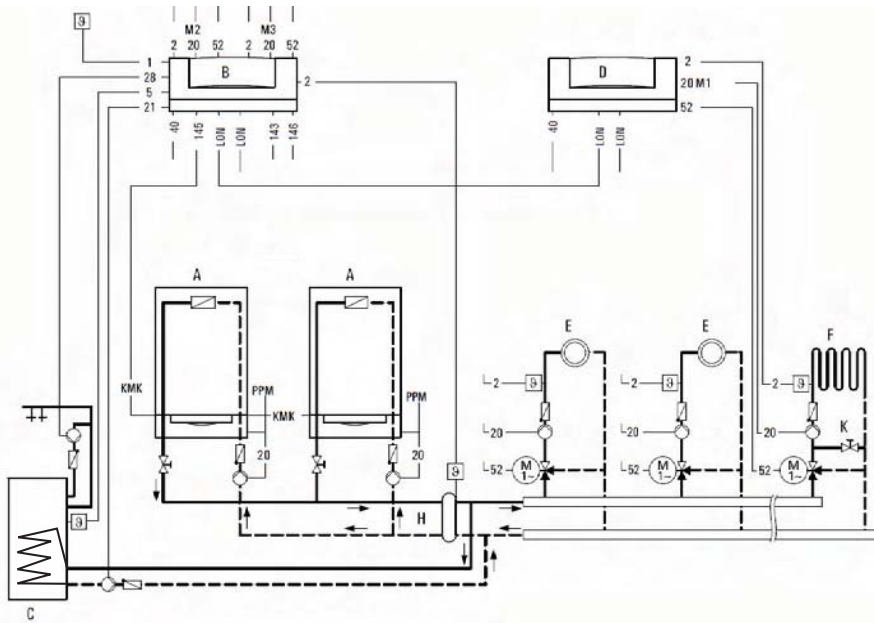


Controlling two heating circuits with mixing valve



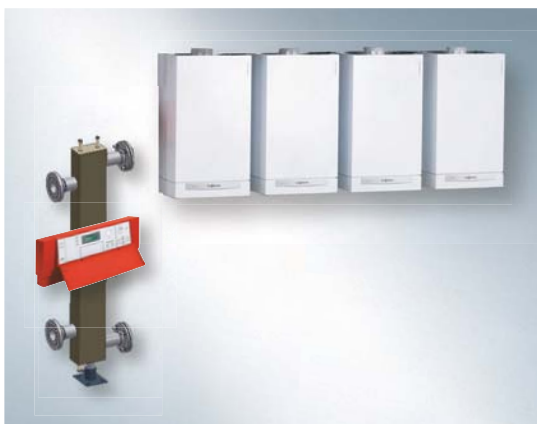
Vitotronic-S WB2B general system control layout shown with optional accessories

Control Functions (Typical System Layout)



- (A) Vitodens 200-W with Vitotronic 100
- (B) Vitrocontrol-S, WB2B
- (C) DHW tank
- (D) Vitotronic 200
- (E) Mixing valve on Vitrocontrol-S, WB2B
- (F) Mixing valve on Vitotronic 200
- (H) Low loss header
- 1 Outdoor temperature sensor
- 2 Supply temperature sensor (low loss header)
- 2M1 Supply temperature sensor (Vitotronic 200)
- 2M2/M3 Supply temperature sensor (Vitotronic-S)
- 5 DHW temperature sensor
- 20 Boiler pump (Vitotronic 100, HC1)
- 20M1 Mixing valve circuit (Vitotronic 200)
- 20M2/M3 Mixing valve circuit (Vitotronic-S)
- 21 DHW pump
- 28 DHW recirculation pump
- 40 Power supply, 120 V/60 Hz
- 52M1 Motor mixing valve (Vitotronic 200)
- 52M2/M3 Motor mixing valve (Vitotronic-S)
- 143/146 External connections (Vitotronic-S)
- 145/KMK Connection to Vitotronic 100, HC1 to Vitotronic-S
- KMK Interconnection between boiler controls and Vitotronic 100, HC1
- PPM Power Pump Module

Input Specifications



VITODENS 200-W		WB2B	45	60	80	105
Rated Input Range (single boiler)		MBH	60-160	60-212	104-285	104-370
Rated Input Range (multiple of 4)		MBH	60-640	60-848	104-992	104-1480
Total Dimensions	Width	Inches	19	19	19	19
	Height	Inches	33 ½	33 ½	33 ½	33 ½
	Depth	Inches	15	15	21	21
Weight *		Lbs.	155	155	225	225

*Weight does not include installation fittings.