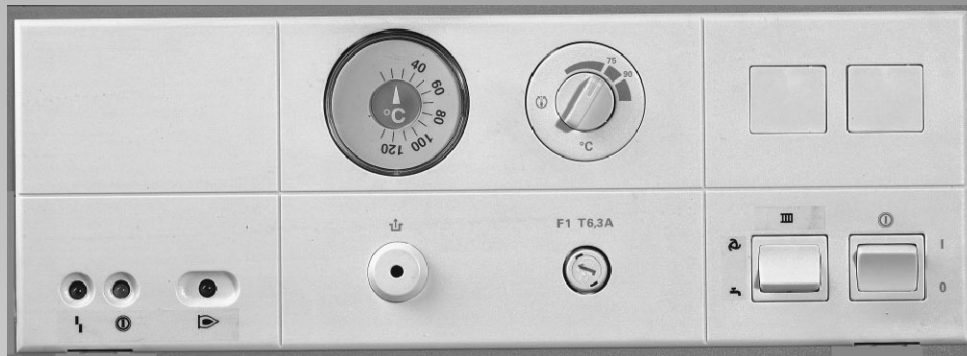


Technical Data Manual



Vitotronic 100

Model **KK10**, Part No. 7133 374

Electronic boiler control

With elevated boiler water temperature protection

For heating systems with one high temperature heating circuit (without mixing valve)

With analog boiler water temperature display

Connections for Viessmann DHW pump module

Viessmann quick-connect plug-in system



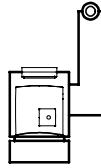
Product Information/Structure and Operation/ Standard Equipment/Application

Product Information

The benefits at a glance:

- Electronic boiler control.
- Space heating circuit controlled by room thermostat.
- Single- or two-stage boiler control (depending on burner).
- Fault display.
- Built-in boiler low temperature protection.
- Short assembly time and start-up due to diagnostic and Rast-5 plug-in systems.

Vitotronic 100, Model KK10



- Electronic boiler control:
 - for single-boiler systems
 - for heating circuits without mixing valve
 - for single- or 2-stage burner
 - with analog temperature display
 - compatible with Viessmann DHW control (optional)
 - with integrated diagnostic system

Structure and Operation

Modular structure

- The control unit consists of:
- system ON/OFF switch, temperature display, pump aquastat for boiler protection,
 - adjustable high limit (type RAK 51.1/3382, Mfg. Etheco or type TR 97.55180.251, Mfg. EGO)
 - fixed high limit (type RAK 75.4/3412, Mfg. Etheco or type STW 56.10525.400, Mfg. EGO)
 - electronic circuit board with power supply
 - quick-connect Rast-5 plug-in system
 - fixed high limit test terminals
 - integrated diagnostic system

Boiler-specific functions

The Vitotronic 100 control unit controls the boiler temperature according to heat demand input (room thermostat connections).
Boiler water temperature is limited through the adjustable aquastat. Minimum boiler water temperature protection is achieved with the built-in pump aquastat.

Standard Equipment

- Vitotronic 100, Model KK10 (Part No. 7133 374) with
- adjustable fixed high limit
 - built-in pump aquastat
 - power supply cord

Technical data

Operating Voltage: 120 VAC
 Operating Frequency: 60 Hz
 Nominal Current: 6A
 Power Consumption: 10 W
 Certification: CSA certified (in conjunction with all Viessmann boilers)

Max. ambient temperature:

- at operation: 32 to 104 °F/
0 to 40 °C
(in rooms and installation sites with normal ambient conditions)
- when storing or transporting: -4 to +149 °F/
-20 to +65 °C

Output rating:

- Heating circuit pump: 3 FLA, 120 V
- Burner: 2 FLA, 120 V

Minimum boiler temperature protection

The factory default setting for minimum boiler water temperature is for a boiler with low limit. For boilers without low limit, the minimum boiler water temperature function can be turned off by changing the dip switch setting.

Application

In conjunction with the following Viessmann boilers

Boiler Model and Series	Fuel	Minimum boiler water temperature	
		without low limit	with low limit (average temp.)
Oil-fired hot water heating boiler with power burner Vitorond 200	Oil		104°F/40°C
Oil-/gas-fired hot water heating boiler with power burner Vitola 200	Oil/Gas	x	
Atmospheric gas-/propane-fired hot water heating boiler Vitogas 050, RS Series (single-/2-stage)	Gas		120°F/49°C
Atmospheric gas-fired hot water heating boiler Vitogas 100, GS1 up to 240 MBH / 70 kW Vitogas 100, GS10 up to 380 MBH / 111 kW	Gas Gas		104°F/40°C 120°F/49°C

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