





























































EVE 05.

Unical

The wide range

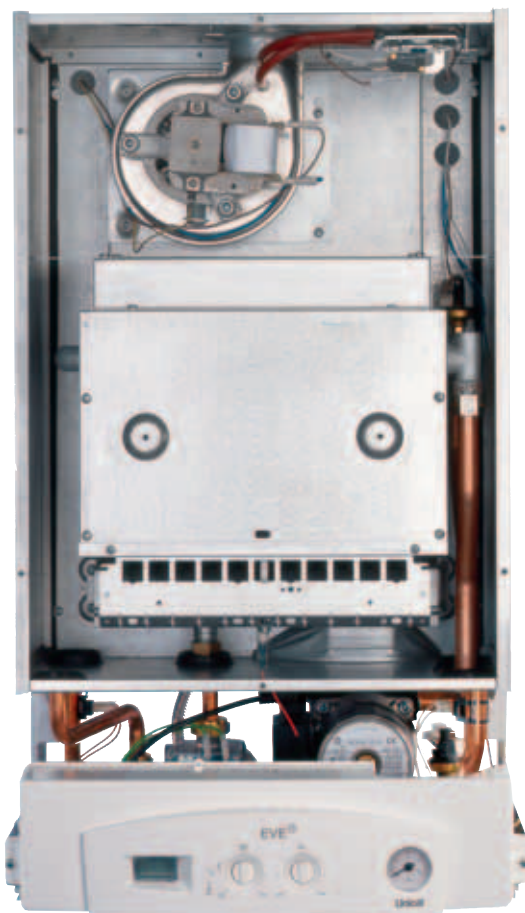
TYPE			natural draught	room sealed fan assisted	bithermal heat exchanger	mono thermal heat exchanger	electric diverting valve	DHW plates exchanger
EVE 05 RTN 24								
EVE 05 RTFS 24								
EVE 05 CTN 24 F								
EVE 05 CTFS 24 F								
EVE 05 CTN 24								
EVE 05 CTFS 24								
EVE 05 CTFS 28								

The largest range, for any need.

Available in natural draught or sealed room fan assisted versions, with bithermal heat exchanger or monothermal + DHW plates exchanger, 24 or 28 kW. It can work with natural gas or LPG. Electric Insulation Protection IP X4D. Of compact dimensions, 700(H) x 420(W) x 310(D) mm, easy to install, to adjust and for maintenance, thanks to the accurate UNICAL study of the electronics and components at high performances.

EVE 05: the ideal synergy of performances and simplicity.

EVE 05 for its construction and operation simplicity, represents the most evolved expression of our technology in the boilers manufacturing. It expresses the technology concept applied to essentiality and operation ease, with the control panel harmoniously integrated with the rounded casing with epoxy-polyester painting.



The mechatronics of EVE 05



Combustion chamber: heat exchanger (on the top) and stainless steel burner (on the bottom)



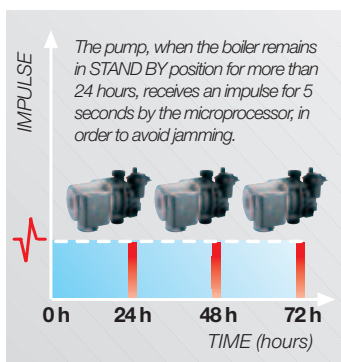
Single electrode for ignition/ionization



Integrated flow switch



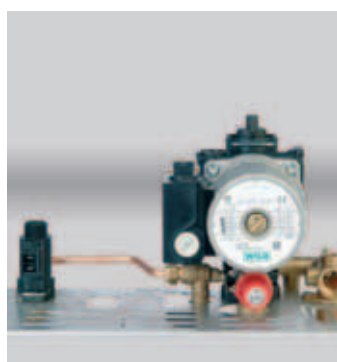
Pump with integrated filter and air relief device



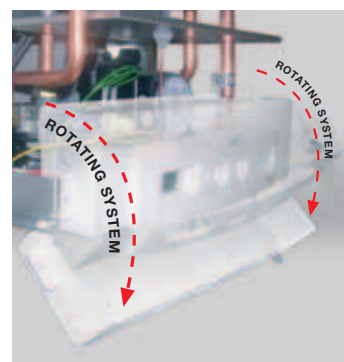
Pump anti-jamming timer



Control panel with luminous display multifunctions



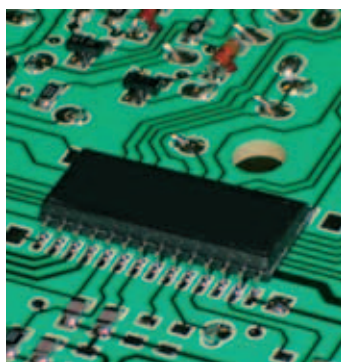
Compact hydraulic group



Rotating control panel for easy service



NTC sensors for heating and sanitary circuits



Electronic PCB with microprocessor

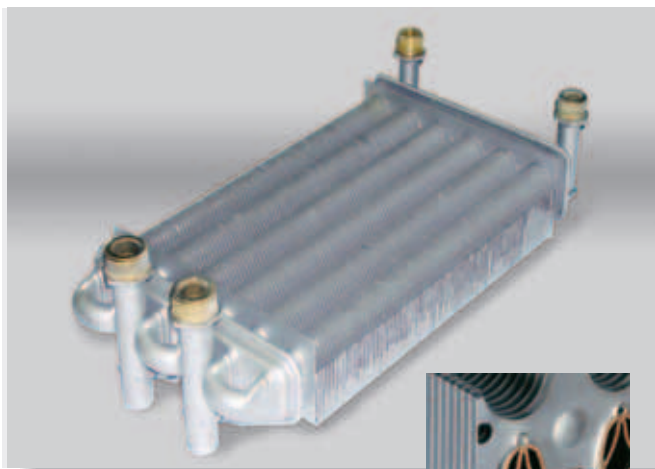


Modulating two stage gas valve



Antifrost protection for high reliability

The hot water of EVE 05



Bithermal heat exchanger



Bithermal heat exchanger - section

The simple and rapid combi

The bithermal heat exchanger:

ultracompact, with a large wings surface of 1,65 m² around six copper pipes of oval section, where inside are inserted the pipes for sanitary water circulation (up to 13,7 l/min from 35 to 60°C), assures the maximum rapid heat exchange, drastically reducing the limestone precipitation.

The results are:

- Immediate hot water production if compared to the traditional instantaneous boilers.
- Quick answer to the temperature variations, thanks to the very low inertia as result of materials and shape.
- Sensible energy saving.

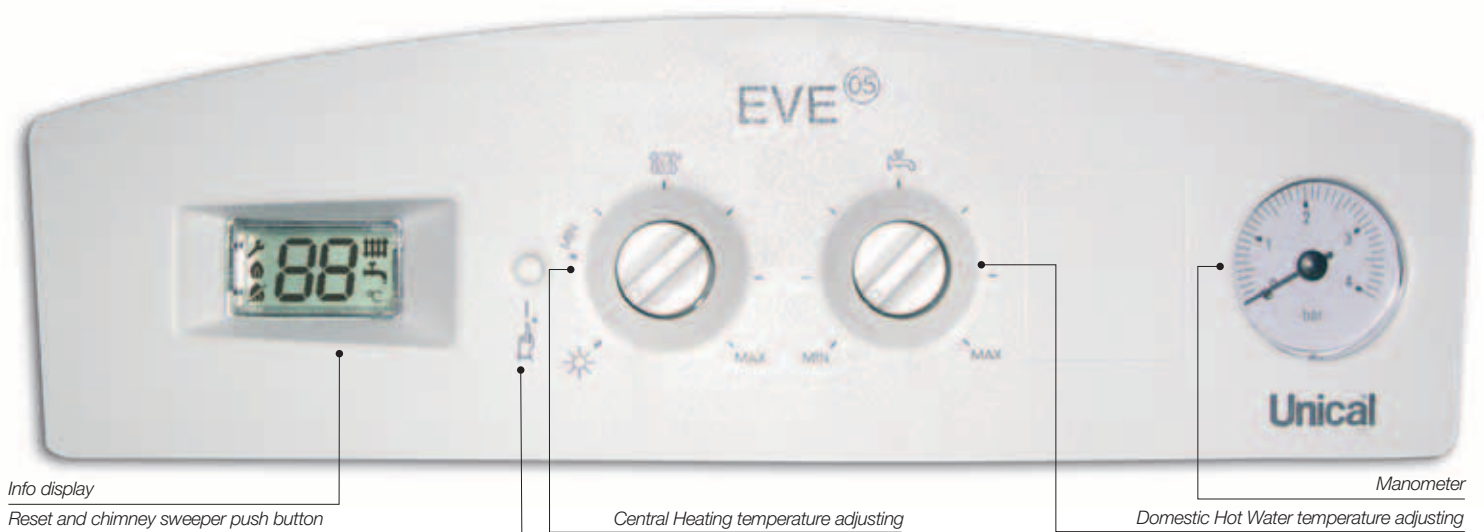
The high comfort combi

- Monothermic primary heat exchanger: it guarantees all the necessary capacity and the ideal efficiency at all the load conditions
- DHW 12 plates inox AISI 316 L heat exchanger. This choice gives an higher exchange surface so, with the same water temperature and needed quantities, it's possible to let the boiler work with lower temperatures obtaining:
 - Constant water temperature during the drawings
 - DHW production of 13,7 l/min with Δt 25°K.
- Motorized diverting valve, of new conception, result of Unical technologic study, it's part of a brass hydraulic group very compact and, thanks to the powerful electric motor, allows quickly and safely to divert the hot water produced by the primary heat exchanger to the sanitary heat exchanger or in loop to the heating circuit, optimizing the operation in temperature modulation.
- The automatic by-pass allows to optimize the water circulation into the boiler, avoiding in this way overheatings.



Monothermic heat exchanger - Plates heat exchanger - Three way valve

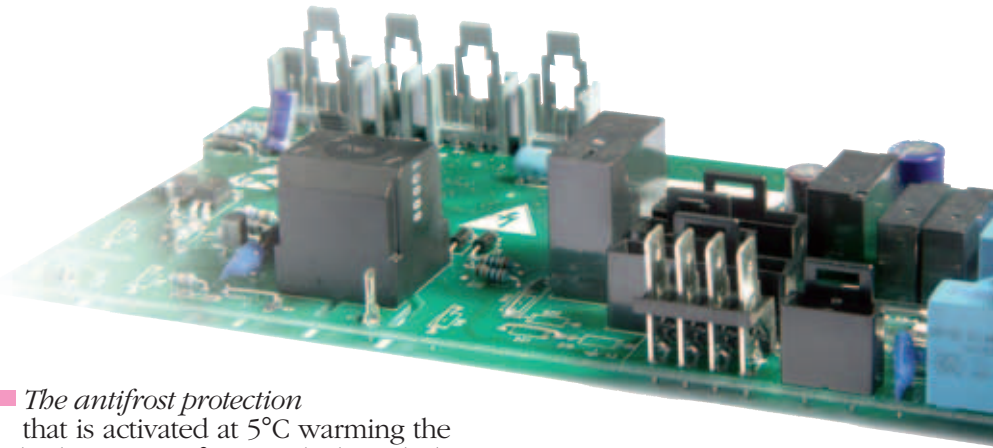
EVE 05: *simply technological*



EVE 05 is designed to guarantee the maximum friendly use. The panel board has been studied according to the latest fundamental ergonomic rules.

The functions completeness includes:

- *The multifunction LCD display* visible also in the dark, and of easy understanding for everyone, allows the visualization of heating and sanitary temperatures, the lock out due to flame absence, the operation mode, the stand-by position and the diagnostics with indication of 11 anomalies.
- *The electronic ignition with triple ignition attempt* exalts the boiler reliability in every weather condition.
- *The continuous gas modulation* controlled by the microprocessor, both in Central Heating and Domestic Hot Water production modes, by two different NTC temperature sensors, establishes with an high precision the temperature setpoints.
- *The anti-overheating overrun* of 15 seconds controls in every condition the thermal balance between flow and return, even also after long domestic hot water demands; the same function allows to exploit, in Central Heating mode, all the remaining heat for 5 minutes.
- *The antifrost protection* that is activated at 5°C warming the boiler up to 15°C, avoids the risk that EVE 05 freezes in case of continuous low temperatures in the boiler installation place.
- *The pump anti-jamming* even also long periods of boiler inactivity, gives an impulse of 5 seconds every 24 hours of inactivity that let the pump works avoiding jamming due to oxidation.
- *The chimney-sweeper function* facilitates the combustion adjusting operations. By pushing for 3 seconds the reset push button it will be possible to let the boiler work at maximum and/or minimum capacity for 15 minutes (service use).



Easy installation and service

The professional installer asks for performances of the products he installs, but also he asks for quick installations, free from obstacles, with the minimum impact for his clients.

EVE 05 simple on its aesthetic, is particularly reduced in depth (only 310 mm); it has been designed taking particular care to the easy use, to the quickness in the installation and to easy access to the components in order to facilitate the ordinary and extraordinary service, thus reducing the service costs.

Thanks to the components disposition, the technician will not have doubts: at first sight with ease and speed, he will be able to perform the operations of installation and/or maintenance, reducing the operation costs.



Boiler casing removal by easy sliding



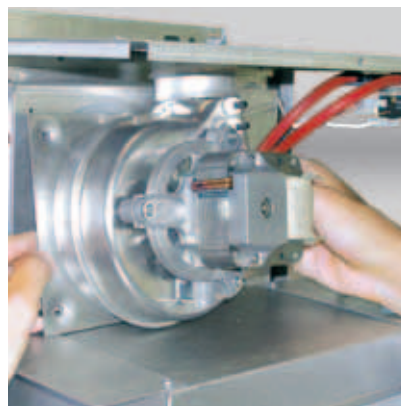
Opening of the sealed room



Burner removal by front sliding without removing the gas train



Heat exchanger removal by front ward sliding



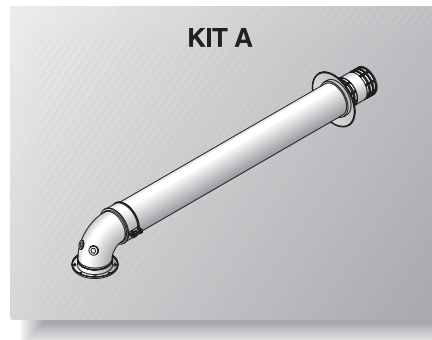
Fan front ward removal



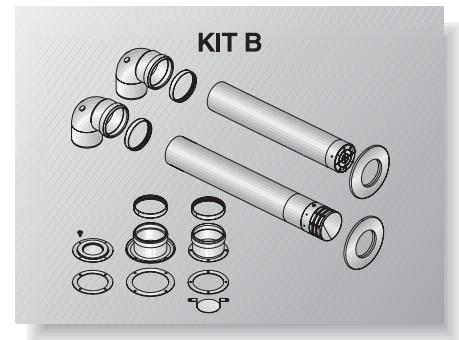
Control panel box rotation for easy maintenance



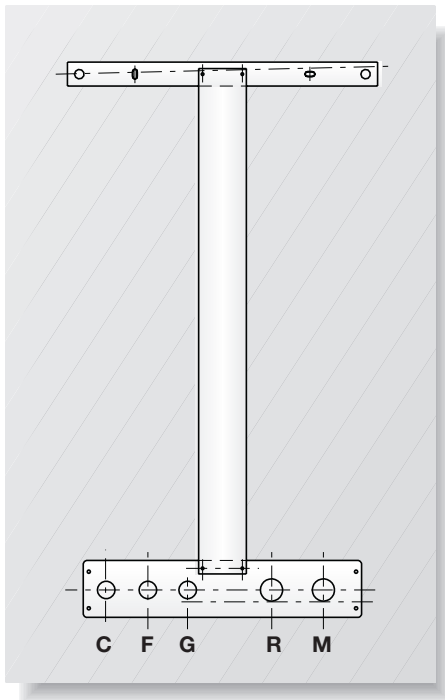
Optional accessories and technical data



KIT A
COAXIAL DUCT Ø 100/60 (KIT A)
Code KIT5500C



KIT B
SEPARATE DUCTS Ø 80 (KIT B)
Code 00360535



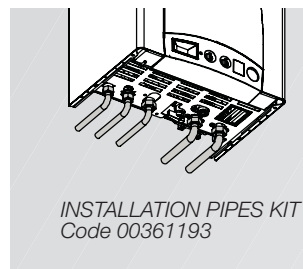
METALLIC MOUNTING JIG
Code 00361244



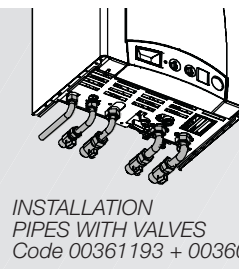
CHRONOTHERMOSTAT SD 700
DIGITAL WEEKLY
Code 00260738



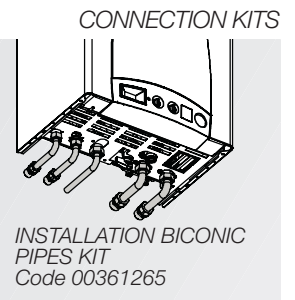
CHRONOTHERMOSTAT GA 240
ANALOGIC ELECTRONIC DAILY
Code 00260737



INSTALLATION PIPES KIT
Code 00361193



INSTALLATION PIPES WITH VALVES
Code 00361193 + 00360682



INSTALLATION BICONIC PIPES KIT
Code 00361265

Model		CTN 24 F	CTFS 24 F	CTN 24	CTFS 24	CTFS 28	RTN 24	RTFS 24
NOMINAL OUTPUT	kW	24	24,2	24	24,2	27,5	24	24,2
MINIMUM INPUT	kW	10,17	9,9	10,17	9,9	9,8	10,17	9,9
EFFICIENCY at full load 100%	%	90,57	91,34	90,57	91,34	90,01	90,57	91,34
EFFICIENCY at parted load 30%	%	92,60	89,93	92,60	89,93	87,43	92,60	89,93
MAX FLUE GASES TEMPERATURE	°C	86,7	116,7	86,7	116,7	87,7	86,7	116,7
APPLIANCE CATEGORY		I12H3P	I12H3P	I12H3P	I12H3P	I12H3P	I12H3P	I12H3P
HEATING CIRCUIT PRESSURE min./max	bar	0,7/3	0,7/3	0,7/3	0,7/3	0,7/3	0,7/3	0,7/3
SANITARY CIRCUIT PRESSURE min./max	bar	0,5/6	0,5/6	0,5/6	0,5/6	0,5/6	-	-
DHW PRODUCTION in continuous with Δt 25K - mixed	l/min	13,7	13,7	13,7	13,7	15,7	-	-
ELECTRIC SUPPLY Voltage / Frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50
MAX ABSORBED POWER	W	96	130	96	130	130	96	130
ELECTRIC INSULATION PROTECTION DEGREE	IP	X4D	X4D	X4D	X4D	X4D	X4D	X4D
NET WEIGHT	kg	37	37	37	37	37	37	37

* in continuous Δt 25 K

Unical



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