

Why Vaillant?

Because saving energy can be so easy.



■ ecoTEC pro

■ ecoTEC plus

Because  **Vaillant** thinks ahead.



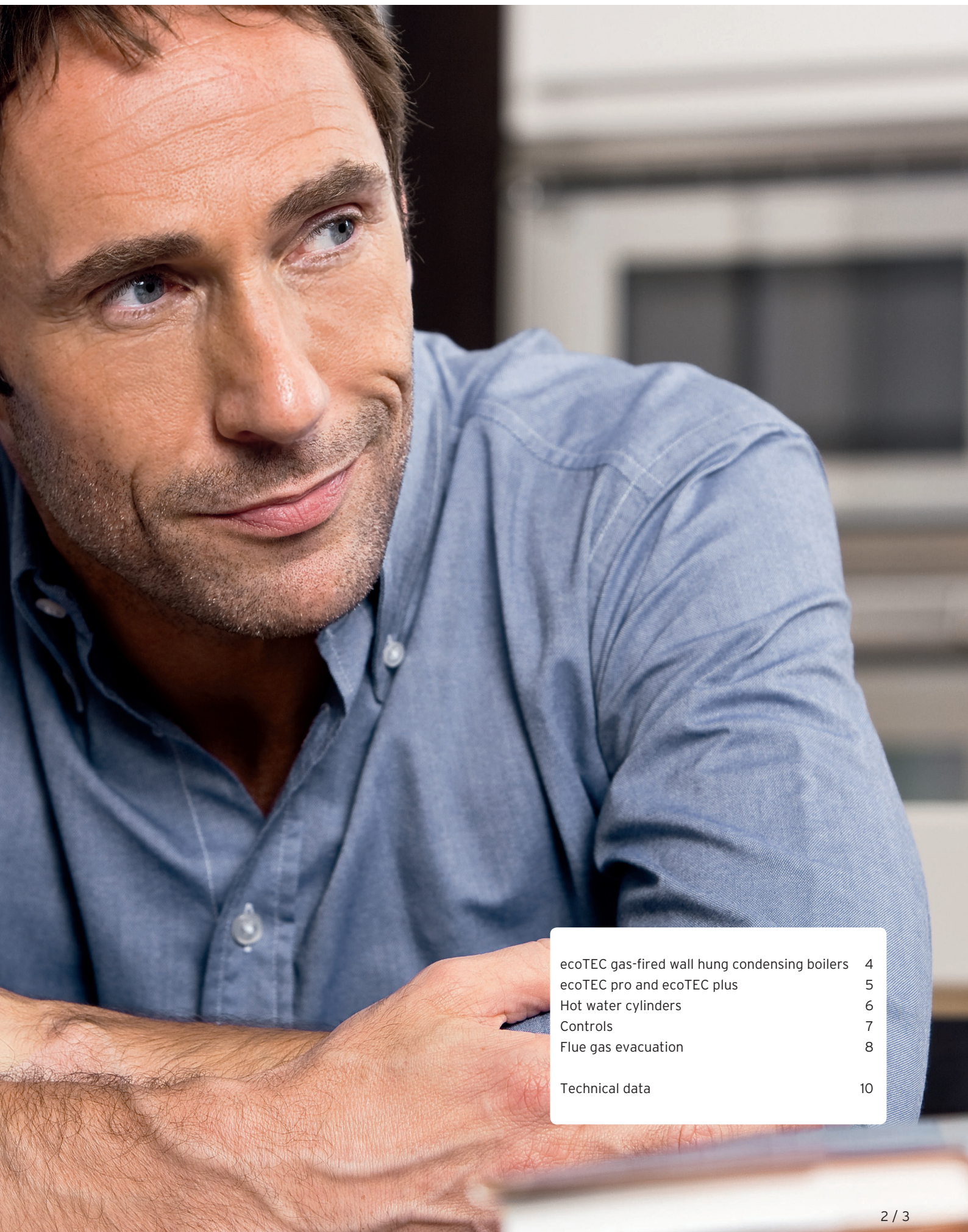
Why ecoTEC?

because it is just fitting to your needs

Vaillant will soon have gained 140 years of experience in gas heating technology. We were pioneers in condensing boiler technology in Europe, have achieved significant progress and are constantly proving our competence, for example today with ecoTEC gas-fired wall-hung boilers. Worldwide more than 1.5 million ecoTEC appliances have been installed already.

The new generation of ecoTEC appliances, which we present here, are more efficient, more durable and easier to use than ever before. They are so compact that they fit in the smallest niche, and yet are so effective that they provide single and multi-family houses at any time reliably with central heating and hot water.

The ecoTEC is a prime example of efficiency. That means it consumes little and provides a great deal. If you combine it with a solar system or heat pump, or employ it in a combined heat and power system, it saves even more energy and resources. And this is precisely what Vaillant is aiming for. Because Vaillant thinks ahead.



ecoTEC gas-fired wall hung condensing boilers	4
ecoTEC pro and ecoTEC plus	5
Hot water cylinders	6
Controls	7
Flue gas evacuation	8
Technical data	10



The greener way to heat with gas:

the new generation ecoTEC

The ecoTEC gas-fired wall hung condensing boilers are the first choice among wall-hung boilers: They spare both the household budget and the environment by saving on everything – except on comfort. For modernisation, as in new buildings, an ecoTEC plus or an ecoTEC pro is a future-proof solution.

The latest generation of the ecoTEC works even more efficiently than before, and is therefore even more energy-saving and environmentally friendly. In addition, it is even easier to handle and operate. So you can relax and enjoy the wonderful feeling of safe heat any time.

Visible from the outside: Vaillant quality

With its new design, the compact ecoTEC boiler is simply chic. The high-quality housing in a fresh, timeless white meets the highest standards and cuts a good figure anywhere in the house. And the platinum-coloured brand plate identifies the ecoTEC as a member of the Vaillant family.

Visible on the account: the economy

Thanks to modern condensing technology, which also utilises the heat contained in the flue gas water vapour, the ecoTEC has achieved a standard efficiency (LHV) of 109 %, and in hot water operation an exceptionally high 104 %. So it sustainably saves up to 30 % on energy costs compared to a conventional heating system.

Thanks to modulating the burner by continuous automatic combustion control, the ecoTEC matches its output to the heating needs. This ensures the large modulation range from about 15 % to 100 % of maximum output for maximum efficiency: The ecoTEC never consumes more energy than it needs to, even at low loads. In addition, its combustion is always optimal; it requires less new starts and will operate stress-free for its entire lifespan. The ecoTEC is wonderfully durable.

Tests have shown that the onset of modulation at 15 % of rated output is the optimum for the lowest possible gas and electricity consumption. In the ecoTEC plus the optimal modulation is also supported by the new electronic gas-air mix system. Expect to pay significantly lower bills.

Felt throughout the house: comfort

ecoTEC gas-fired condensing boilers are easier to use than many telephones. Heating needs are fulfilled by simply pressing a button or simply turning a knob, and warm water flows whenever you need it. The new control concept was developed in cooperation with Vaillant customers so that the ecoTEC is intuitive in the new application interface as well as with a new Vaillant system control: Operating structure and displays are identical. The control system is modular and expandable thanks to eBUS electronics.



Tangible long-term: the environmental protection

Gas heating is greener with the new ecoTEC. It unburdens the environment due to the efficient condensing technology and the optimised modulation. In order to heat up in an even more environmentally friendly way, you can easily use it with bio-natural gas, the gas mixture obtained from biomass in natural gas quality. For even greater efficiency, the ecoTEC can be used as the peak load heating appliance in a modern combined heat and power system, or operated in combination with a heat pump. And the easiest way to greater conservation of resources is to link it up with a solar system.



Minimum space, maximum performance:

ecoTEC does it all.

The right solution for every household

The ecoTEC is the gas-fired wall hung condensing boiler for all requirements and applications. Its compact design fits into almost any corner, and with its huge performance capacity it offers reliable heat and hot water comfort overall. An ecoTEC can be installed anywhere: in the attic, in the hall or basement, in single or multi-family homes and in commercial operations. The ecoTEC range has been developed by German engineers, so that Vaillant customers around the globe can heat easily, efficiently and hassle-free.

ecoTEC pro - simply complete

The proven ecoTEC pro is the ideal solution for smaller heating needs. It is especially lightweight and compact, and yet offers a surprisingly high hot water output. The ecoTEC pro's high quality is now demonstrated by the new design and new technology. Its automatic combustion control, a new pneumatic gas-air mix system and an automatic 2-stage energy saving pump ensure high energy efficiency. The new appliance concept and the new easy to read interface with backlit display make the installation, maintenance and operation easier than ever.

ecoTEC plus - simply efficient

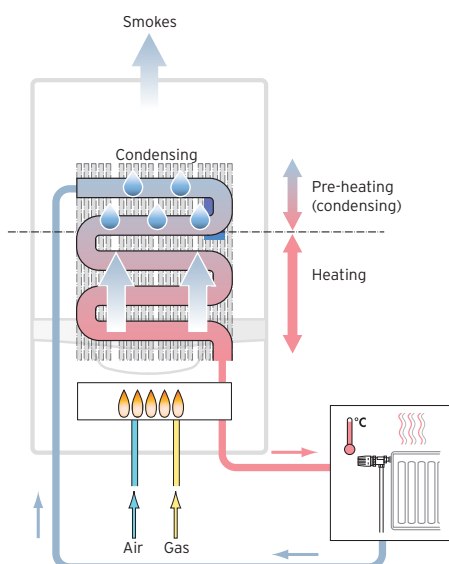
The multi-talented ecoTEC plus is concentrated heating power on only 0.32 m² of wall area. With up to 35 kW of power, it supplies even larger houses more efficiently and reliably than ever before. The new model uses an electronic gas-air mix system and operates with optimum modulation. This reduces energy consumption and emissions, and also increases the efficiency of water heating. The integral condensation heat exchanger and the new high efficiency pumps provide additional energy savings. And the ingenious connection system allows the quick and perfect installation in any location.



ecoTEC pro



ecoTEC plus



Function principle ecoTEC



Impeccable performance:

all the hot water you want



ecoTEC plus with uniSTOR VIH R cylinder



auroSTOR VIH S solar cylinder



allSTOR VPS/2 multi-function cylinder

Simply quick hot water comfort

The uniSTOR VIH R with 120 to 500 litres is perfect for single family or multiple family houses. The wall spacing and height can be adjusted flexibly thanks to adaptable pipe accessories; even the circulation pump is integrated into the casing. The cylinder can be easily installed and is very durable. Thanks to a short heat-up time and permanent hot water performance, it works quickly and sustainably.

For solar water heating

The auroSTOR VIH S solar cylinder with 300 to 500 litre capacity brings maximum bathing and showering comfort into one- and two-occupancy houses. If and when the solar energy is not sufficient, it is reheated via its second heat exchanger through the ecoTEC, so you always have plenty of warm water. Thanks to the high-quality hot water-side enamelling, it does its work well for a very long time.

For maximum flexibility

You can use the allSTOR VPS /2 multi-function cylinder with all heat sources: solar systems, heat pumps, gas, oil, pellet boilers and co-generation units. Six different sizes provide for tailor-made solar water heating and space heating. The allSTOR system consists of the allSTOR VPS/2 and each a solar loading unit and domestic hot water unit, which can be easily mounted on the cylinder as complete ready-to-plug-in modules.



Comfort right at your fingertips:

What could be simpler?

To take your heating system more comfortably under control, Vaillant offers you the appropriate control for every application. It fulfils all desires for comfort with the press of a button or by a simple rotation and even helps to save energy automatically. The latest generation of Vaillant controls are intuitive to use: Two selection keys with an additional rotary knob make all the settings simple, and the readouts in the blue backlit display are easy to understand.

For simple heating systems: a programmable room control

A room temperature control regulates your heating depending on the room temperature and the time. It is suitable for flats and for single family houses with a simple heating system.

The calorMATIC 370f and 370 room temperature control achieve a high-value accent in the room. They offer individual daily and weekly programs that automatically switch between day and night operation, and numerous convenience features, such as the Quick Settings „A day away from home“ and „A day at home“ as well as hot water programmes intelligently coupled to the heating mode, including the one-off charge of a hot water cylinder outside of the programmed time.

With the calorMATIC 370f, contact is achieved with wireless data transfer. It doesn't get easier or simpler!

For complete flexibility: a weather-compensator

A weather-compensator registers when it is colder or warmer outside on its external sensor and adjusts the heat output automatically. It is suitable for buildings of any size and can be mounted in the boiler or in the living room.

The weather-compensating calorMATIC 470/470f automatically controls the heating according to the outside temperature. Operating mode and room temperature can be easily adjusted on the basic display. In addition, the control offers extensive comfort features: an energy saving program, the shortcuts, „A day away from home“ and „A day at home“ as well as hot water programmes intelligently coupled to the heating mode - including one-off loading of the cylinder and combination with the actoSTOR hot water cylinder.

With the appropriate expansion module, the calorMATIC 470 can also be used as a twin circuit control and a solar control. Also a remote control unit is available as an accessory. And the most convenient solution is the calorMATIC 470f with a DCF long wave radio clock receiver for wireless radio contact with the outside sensor.



calorMATIC 370 / calorMATIC 470

For the use of solar energy: a solar control

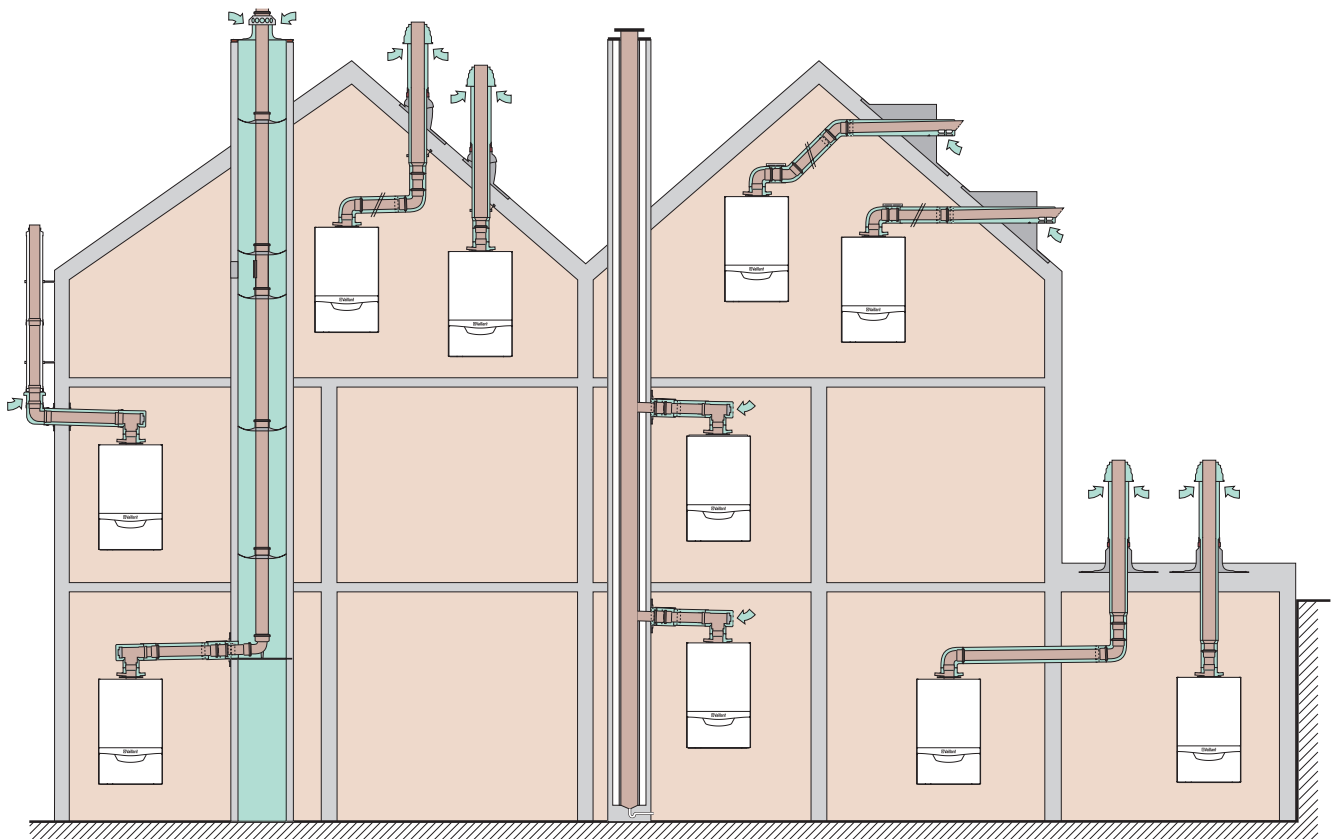
For the control of solar systems and system combinations with solar panels, you need a special solar control. Vaillant has exactly the right one for you.

For complex heating systems: a multi-circuit control

If you operate a larger facility with multiple heaters, your control must offer more options. Here it is: The calorMATIC 630/3 system control is suitable for all one- and two-stage and modulating hot water heating systems in single-, two-, and multi-family houses. It has a central user interface, with which it can control up to eight heaters in a cascade and up to 15 heating circuits, which can be configured individually. In addition, it is automatically programmed for summer and winter, and offers holiday, party and other special functions. Its plain text display always shows the current operating mode.

The perfect flue:

just right for your needs



Examples for installation options flue gas systems

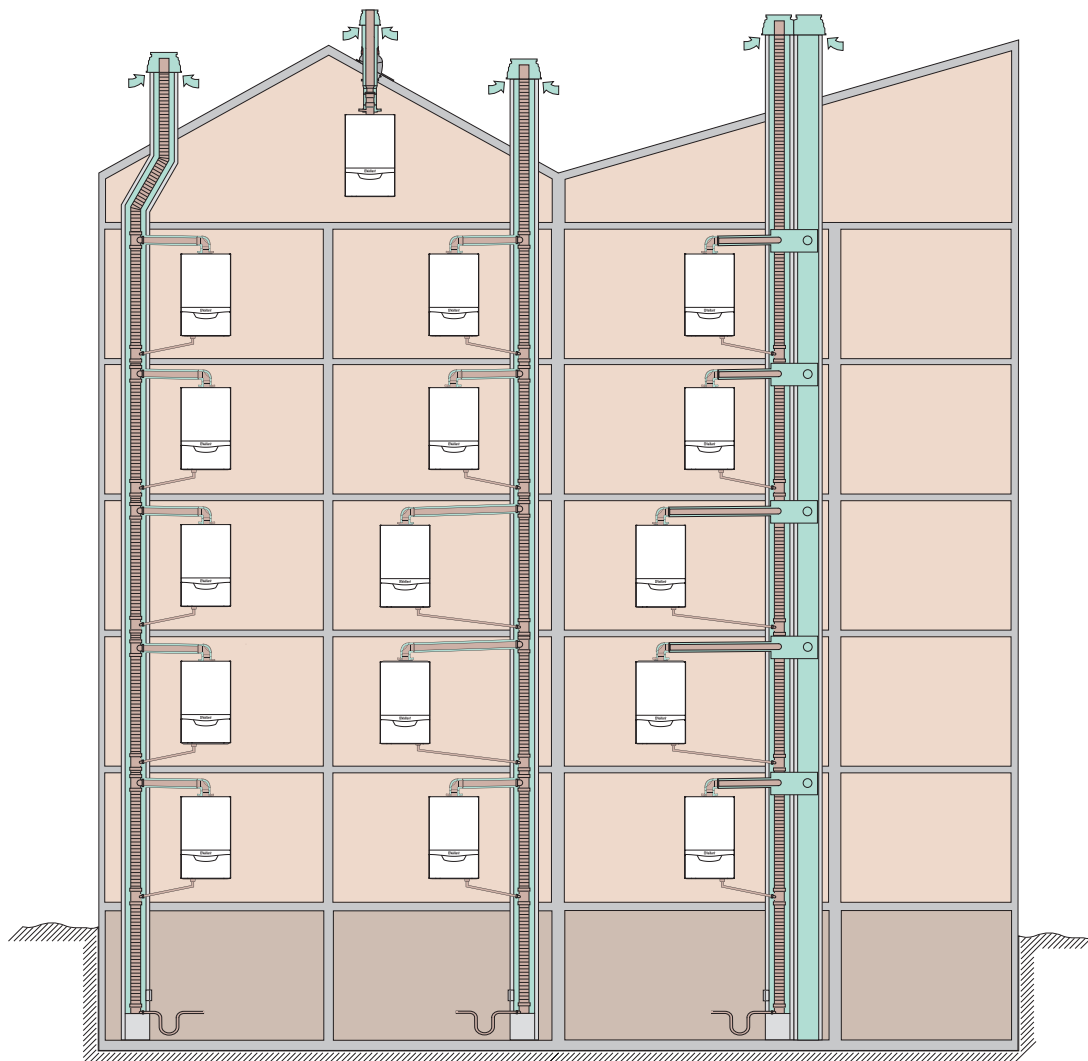
The possibilities of balanced air/flue gas ducting for condensing boilers are nowhere as great as with Vaillant. The certified and approved system accessories allow virtually any pipe run, even over long lengths.

Installation with or without a chimney

The ecoTEC can be installed in the cellar, as a roof-based heating system, or in the living area. For open flued operation a plastic gas pipe is installed in an existing chimney. For balanced flue operation, air and flue gas is conducted through a concentric pipe system to the chimney. It continues further through the duct in a concentric pipe, or it is only fed by one flue gas pipe - and the combustion air is drawn through a separate pipe. But it also works without chimney: with the concentric balanced flue - made of plastic or, for facade mounting, of stainless steel.

The air/flue gas duct at a glance:

- Certified and approved flue gas system components for any installation
- Sturdy plastic pipes, rigid and flexible, in 60, 80, 100 and 130 mm
- Easy length adjustment, quick installation
- Concentric balanced flue of diameters 60/100 mm and 80/125 mm (up to 33 m length)



Examples for multiple coated over-pressure flue gas system installation

Modernisation with the perfect system

The multiple coated over-pressure flue gas system for the ecoTEC plus is the solution for economical, decentralised heat supply.

The gas-fired condensing boilers can be connected to the flue gas system over up to five floors or gradually retrofitted at low cost. The flexible flue gas system is easily drawn through offset chimneys or completely drawn in from the roof. If there is no on-site drain, the condensate can be discharged via the flue gas system. The condensate and unbreakable double-walled tube made of special plastic complete with a seal is simply pushed into the T-piece and clicked in: Clamps on the pipe are unnecessary. Length extensions are compensated by the pipe flexibility.

Multi-coated over-pressure flue gas systems for the ecoTEC plus:

- Flexible DN 100 flue gas pipe, double-walled
- Fast assembly without clamps
- Maintenance-free membrane backflow protection on the supply side for protection against flue gas escape
- Flue gas discharge system on request
- Modernisation of individual residential units without working in non-affected flats:
 - simple length adjustment, easy placement via the stairway or complete via the roof
- Subsequent connection of other heat sources possible

Technical data ecoTEC pro and plus

	conditions	unit	VUW INT IV 236/5-3	VUW INT IV 286/5-3	VUW INT IV 246/5-5	VUW INT IV 306/5-5	VUW INT IV 346/5-5	
Output range heating	80 / 60 60 / 40 50 / 30 40 / 30	kW kW kW kW	5,2 (5,0) - 18,5 5,6 (7,8) - 19,1 5,7 (8,0) - 19,7 3,8 (5,0) - 20,0	6,2 (6,0) - 24,0 5,6 (8,8) - 24,7 6,9 (9,0) - 25,5 7,0 (9,2) - 26,0	3,8 (5,0) - 20,0 4,0 (5,4) - 20,6 4,2 (5,5) - 21,2 4,2 (5,6) - 21,6	5,2 (6,0) - 25,0 5,6 (6,5) - 25,8 5,7 (6,7) - 26,5 5,8 (6,8) - 27,0	5,8 (6,5) - 30,0 6,3 (9,1) - 30,9 6,4 (9,4) - 31,8 6,6 (9,5) - 32,4	
Nominal heat input CH mode			18,9	24,5	20,4	25,5	30,6	
Nominal heat input at tank loading mode		kW	23,5	28,6	24,5	30,6	34,7	
Supply pressure	G20 G31	mbar mbar	13,0 / 20,0 30,0					
Nominal gas consumption	G20 G31	m²/h kg/h	2,5 1,8	3,0 2,2	2,6 1,9	3,2 2,4	3,7 2,7	
Flue gas mass flow	min. WB max. WB	g/s g/s	2,5 10,6	3,0 13,0	1,8 11,1	2,5 13,9	2,8 15,7	
Flue gas temperature	min. WB max. WB	°C °C	40 7074707479					
Protection degree			IP X4D					
CE number (PIN)			CE-0085CM0321					
CH mode								
Nominal efficiency Qmin / Qmax	80 / 60	%	94,0 / 98,0					
30% part load efficiency	EN 483	%	108					
Efficiency stars rating ED			****					
Amount of condensate at CH mode	50 / 30	l/h	1,9	2,5	2,0	2,6	3,1	
Flow temperature		°C	30- 80					
Max. pressure		bar	3,0					
Nominal CH flow rate		l/h	796	1032	860	1075	1290	
Pump overhead at nominal CH flow rate		mbar	250					
Max. electr. power consumption at CH mode		W	70	80	70	80	80	
DHW mode								
Specific flow rate D	Δt = 30K	l/min	11,0	13,4	11,5	14,3	16,2	
Max. hot water temperature		°C	65					
Classification according to the quantity of available domestic hot water	prEN 13203		II	II	II	II	II	
Electr. fittings								
Voltage / frequency		V/Hz	230 / 50					
Max. electr. power consumption		W	70	80	70	80	80	
Dimensions and weight								
Height / width / depth		mm	720 /440 / 338					720 /440 / 372
Mounting weight		kg	33	35	35	36	39	
Volume expansion vessel		l	8	8	10	10	10	
Flue connection (coaxial)		mm	60 / 100 (optional 80 / 125)					
Others								
National labels and test marks of conformity			EAC, Tecko, SNEC					

Technical data ecoTEC plus

	conditions	unit	VU INT IV 166/5-5	VU INT IV 246/5-5	VU INT IV 386/5-5
Output range heating	80 / 60 60 / 40 50 / 30 40 / 30	kW kW kW kW	3,0 (5,0) - 14,0 3,2 (5,4) - 14,4 3,3 (5,5) - 14,9 3,4 (5,6) - 15,2	3,8 (5,0) - 20,0 4,0 (5,4) - 20,6 4,2 (5,5) - 21,2 4,2 (5,6) - 21,6	6,4 (8,5) - 35,0 6,9 (9,1) - 36,1 6,4 (9,4) - 37,1 7,2 (9,5) - 37,8
Nominal heat input CH mode			14,3	20,4	35,7
Nominal heat input at tank loading mode		kW	16,3	24,5	38,8
Supply pressure	G20	mbar	13,0 / 20,0		
	G31	mbar	30,0		
Nominal gas consumption	G20	m²/h	1,7	2,6	4,1
	G31	kg/h	1,3	1,9	3,0
Flue gas mass flow	min. WB	g/s	1,4	1,8	3,1
	max. WB	g/s	7,4	11,1	17,7
Flue gas temperature	min. WB	°C	40		
	max. WB	°C	70	70	80
Protection degree			IP X4D		
CE number (PIN)			CE-0085CM0321		
CH mode					
Nominal efficiency Qmin / Qmax	80 / 60	%	94,0 / 98,0		
30% part load efficiency	EN 483	%	108		
Efficiency stars rating ED			****		
Amount of condensate at CH mode	50 / 30	l/h	1,4	2,0	3,6
Flow temperature		°C	30- 80		
Max. pressure		bar	3,0		
Nominal CH flow rate		l/h	602	860	1505
Pump overhead at nominal CH flow rate		mbar	250		
Max. electr. power consumption at CH mode		W	70	70	115
Electr. fittings					
Voltage / frequency		V/Hz	230 / 50		
Max. electr. power consumption		W	70	70	115
Dimensions and weight					
Height / width / depth		mm	720 /440 / 338		720 /440 / 406
Mounting weight		kg	33	33	39
Volume expansion vessel		l	10		
Flue connection (coaxial)		mm	60 / 100 (optional 80 / 125)		
Others					
National labels and test marks of conformity			EAC, Tecko, SNEC		

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