



GAS CONDENSING TECHNOLOGY

Fuel cell heating device

VITOVALOR PT2



Fuel cell heating device Fuel cell heating device with peak load boiler and DHW cylinder 0.75 kW_{el}, 0.9 to 30.8 kW_{th}

Innovative technology for electricity and heat generation



10 Year Warranty on all stainless steel heat exchangers for gas condensing boilers up to 150 kW

With the expansion of its thermal output up to 30.8 kW, the new generation of the Vitovalor PT2 fuel cell heating device offers greater flexibility and more applications, and with its compact design it requires a floor space of just 0.72 square meters. The front mounted controls along with pre-installed components for the energy manager complete this unit. The new 7-inch colour touchscreen display considerably simplifies operation. The unit also features an integrated 220 litre stainless steel

Ideal for detached and semi-detached homes

DHW cylinder.

Up to a heat demand of 35,000 kWh per year and an annual electricity demand of 6200 kWh, the Vitovalor PT2 offers enough power for detached and semi-detached homes. The 18 kWh maximum electrical energy generated during the course of the day is sufficient to cover a household's basic demand. The Vitovalor PT2 generates electricity for up to 45.5 hours without interruption. Following this, the fuel cell renews itself for 2.5 hours and is then again available for electricity generation.

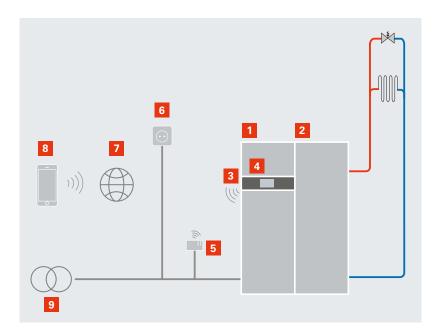
The integrated gas condensing boiler automatically switches on if the heat from the fuel cell module is insufficient, for example during peak times or if there is a high demand for DHW within a short period.

Self-learning energy manager

The energy manager can react to your household's personal needs. The fuel cell heater is temperature controlled and optimized for power. This means the fuel cell is only activated when sufficiently long run times are expected, so that electricity generation corresponds to the anticipated use of self generated electricity.

Reliable and durable

As with all innovations from Viessmann, reliability and durability are the highest priority for the new Vitovalor PT2. Maintenance of the fuel cell is only required every five years, whilst the stack is designed for a lifespan of twelve years.



- Base unit with fuel cell module and gas condensing boiler
- Storage tower
- Communications interface
- Integrated net electricity meter
- 5 Router
- Domestic power grid
- Internet
- ViCare app
- Public power grid



Vitovalor PT2

- Gas condensing boiler to cover peak loads
- Energy management control with large colour touchscreen display
- 3 Fuel cell module
- Stainless steel DHW cylinder with 220 litre capacity

Vitovalor PT2 fuel cell heating device



Large colour touchscreen display for a central source of Information

Benefit from these advantages

- Fuel cell: 0.75 kW_{el}, 1.1 kW_{th}
- Peak load boiler: 11.4/19.0/24.5/30.8 kW_{th}
- Innovative future-proof technology
- Environmentally friendly up to 30% CO₂ savings compared to separate electricity and heat generation
- Ideally suited for use in new buildings and existing detached and semi-detached homes
- Parallel generation of electricity and heat to minimize electricity costs
- Simple installation and short assembly times through completely integrated hydraulics (similar to gas condensing boilers), only an exhaust system is required
- Integrated system separation with plate-type heat exchanger and coiled tube ensures safe and robust operation
- Integrated electricity, gas and heat quantity determination (for settling government electricity subsidies and the energy tax refund)







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Specifications Vitovalor PT2



Туре		E11T	E19T	E25T	E32T	
Rated heat output (60/40 °C)	kW,	0.9 – 11.4	0.9 – 19.0	0.9 – 24.5	0.9 – 30.8	
Electrical output of fuel cell	W _{el} *	750	750	750	750	
Thermal output of fuel cell	kW _{th}	1.1	1.1	1.1	1.1	
Frequency	Hz				50	
Sound emission	dB(A)	48	49	50	51	
Electrical degree of efficiency of fuel cell	%				37	
Overall efficiency of fuel cell	%				up to 92 (H _i)	
Thermal degree of efficiency of peak load boiler	%				up to 98 (H _s)	
Stainless steel DHW cylinder	1				220	
Fuel				Natural gas E(H)/LL(L)		
Dimensions						
Length (depth) x width x height						
- Complete unit	mm		595	1200	1800	
- Basic device	mm		595	600	1800	
- Storage tower	mm		595	600	1800	
Minimum room height required						
(with exhaust system package)	mm				1800	
Weight						
- Complete unit	kg				326	
- Basic device	kg				197	
- Storage tower	kg				129	
Space required	m ²				0.72	
Energy efficiency category						
- Heating					A++	
– DHW generation, tap profile XL	*				A+	

 $^{^{\}star}\,$ Output information: Rated values according to DIN EN 50465

Your trade partner:

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