

Hoval

Hoval CombiVal WPE/WPER/WPEF (300)

Calorifier/heat pump

Ecological | Efficient | Flexible



Hoval | Responsibility for energy and environment

HoVal CombiVal WPE/WPER/WPEF (300)

Heat pump technology for cost-effective water heating.
Rapid payback as a result of low power consumption.

The calorifier/heat pump CombiVal WPE/WPER/WPEF extracts a large part of the energy for water heating from the ambient indoor air that is available for free – for example, from the room in which it is situated. With the aid of the integrated heat pump, energy is drawn from the ambient air, thus heating the water. This saves up to two thirds of the energy costs associated with water heating. A benefit of this is that small rooms like cellars or pantries can be cooled and dehumidified using the extracted air.

Added value for you:

- Low operating costs
- Low-emission operation
- Easy, low-cost maintenance



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CombiVal WPE/WPER/WPEF (300)

Cost-effective water heating using energy from the ambient air.





Low operating costs

- **Rapid payback** due to significantly reduced power costs
- **Ideal for use in combination with a photovoltaic solar plant (smart grid)** to keep domestic hot water costs to a minimum
- **Reduced operating costs** due to holiday program provided as standard

Low-emission operation

- **Approx. 66 % less power consumption*** due to the use of state-of-the-art heat pump technology (*as compared with electric calorifiers)
- **Increased energy efficiency in the entire heating system**, as the boiler is not required to heat water during the summer months

Easy, low-cost maintenance

- **Simple installation** due to equipment supplied ready for operation
- **User-friendly** due to integrated control
- **Safe hot water hygiene** due to automatic Legionella program
- **Increased protection against corrosion** due to automatic maintenance display for magnesium protection anode

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Dehumidification and cooling

- **Dehumidification and cooling of extract air**
- **Ventilation function** provided by independent fan operation
- **Also suitable for operation with fresh air** due to integrated defrosting function
- **Low limescale formation** due to aluminium coiled-tubing condensing unit that surrounds the outside of the steel shell

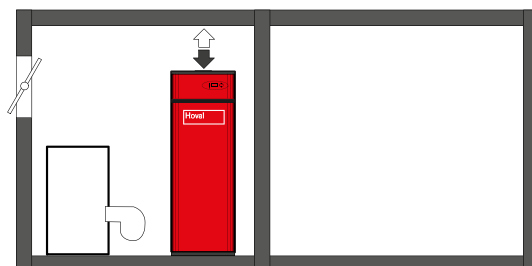


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Installation versions

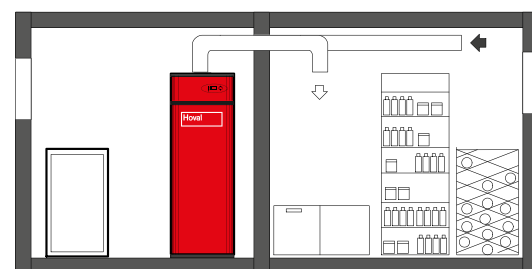
Installation in boiler room

- Air extraction and exhaust take place in the boiler room
- Use of waste heat from heating



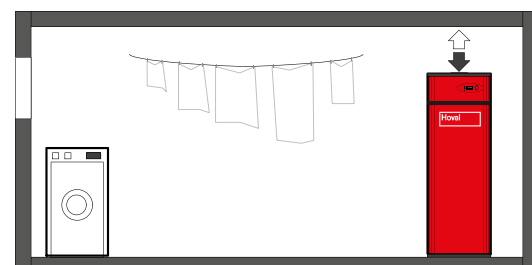
Installation in boiler room with heat pump

- Air extraction and exhaust take place in the adjoining room
- Adjoining room is cooled and dehumidified (wine cellar, pantry; at least 25 m³ room volume)
- Use of waste heat from refrigerators and freezers



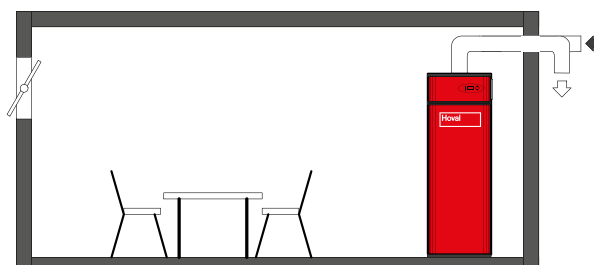
Installation in utility room

- Air extraction and exhaust take place in the room
- The utility room is dehumidified
- Use of waste heat from washing machine and tumble dryer (laundry room; at least 20 m³ room volume)



Installation in recreation room

- Air extraction and exhaust take place in the room or outdoors
- If the air guide shown in the drawing is used, the window can remain closed



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Technology and systems

CombiVal WPE/WPER (300)		WPE	WPER	WPEF
Energy efficiency class		A	A	A
Volume	Litres	270	270	270
Maximum operating temperature:	Heat pump operation	°C	62	62
	Boiler operation	°C	65	65
	Electric operation	°C	65	65
Recommended economy temperature	Heat pump operation	°C	48	48
Heating surface of heating coil		m ²	-	1.0
Heat pump	Working medium		R 134a	R 134a
	Average heat output ¹	kW	1,78	1,78
	Average electrical power consumption ¹	kW	0,49	0,49
	Coefficient of performance (COP) ¹		3.61	3.61
	Maximum supply air temperature	°C	35	35
	Minimum supply air temperature	°C	-10	-10
Electric immersion heater heat output 230 V		kW	2,0	2,0
Electrical connection (unit)		V/Hz	230/50	230/50
Hot water output/day ²		Persons	4	4
Weight		kg	114	137
Dimensions (diameter/height/depth)		mm	710/1780/720	710/1780/720
Air inlet/outlet diameter		mm	160	160

1) According to the following standards: EN 16147:2011, EHPA Testing Regulation V1.6

2) Number of persons who can be supplied with domestic hot water in the case of systems without hot water circulation (standard values without recharging).

Effective in a system

Hoval supplies all components for an efficient heating and room air system. The Hoval TopTronic® E system controller combines all components into an efficient overall system. This solution ensures you are provided with standardised operation and matching components.



Hoval heat generators



Hoval solar plant



Hoval storage tanks



Hoval comfort ventilation

We are there for you

And we have been for generations.



Consulting and design

Whether you're looking for a heating, cooling or ventilation solution, for a new building or a renovation project, Hoval is here to give you expert advice. Do you design, install or operate systems? Or are you an investor? Then we speak your language. Experienced Hoval consultants gain an in-depth understanding of your requirements and suggest appropriate solutions on that basis.

Service expertise

Do you need to have a system commissioned or serviced? Then contact your Hoval customer service representative or local qualified Hoval partner. Regular maintenance will extend your system's service life. Your investment will retain its value over many years and operation will remain as economical as possible.



Hoval quality.
You can count on us.

As a specialist in heating and climate technology, Hoval is your experienced partner for system solutions. For example, you can heat water with the sun's energy and your rooms with oil, gas, wood or a heat pump. Hoval ties together the various technologies and also integrates room ventilation into the system. So you can save energy while looking after the environment and your costs – and still enjoy the same level of comfort.

Hoval is one of the leading international companies for indoor climate solutions. More than 75 years of experience continuously motivate us to design innovative system solutions. We manufacture complete systems for heating, cooling and ventilation to more than 50 countries.

We take our responsibility for the environment seriously. Energy efficiency is at the heart of the heating and ventilation systems we design and develop.

Responsibility for energy and environment

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Your Hoval partner