

# Hoval

## Hoval Thermalia® comfort

The heat pump that delivers convincing performance even in harsh environments!

Practicality | Individuality | Integration



# Hoval Thermalia® comfort

Save money by using energy from the soil and from water.

In the ground, constant temperatures prevail all year round, even at depths of just a few metres. By means of this energy stored in the ground, a heat pump heats highly efficiently and reliably using electrical current. And by making use of green energy or solar power – perhaps even from your own photovoltaic system – you will be able to generate heat particularly sustainably.

### Added value for your benefit:

- Very good value for money
- Straightforward system integration
- Quiet operation
- Compact dimensions
- Quick and easy installation



A brine/water or water/water heat pump for heating and producing domestic hot water. Indoor installation, flow temperature up to 62 °C, H version up to 67 °C.

Range of applications:  
Single-family home, two-family home –  
for new buildings and renovations.



#### Brine/water



#### Water/water



### Cost-effective renovation with the H version

H stands for high temperature. Compared to the Thermalia® comfort, the Thermalia® comfort H version achieves higher flow temperatures of up to 67 °C. This makes it particularly suitable for operation with existing radiators – important for renovating old buildings.



### Practicality and low noise

The Thermalia® comfort has everything you need. Nothing more! Remodelled from the drawing board, today it combines proven, robust technology with an optimum price-performance ratio.

Thanks to the sound-optimised installation on floor mats and the triple-mounting design, the Thermalia® comfort heat pump is particularly quiet in operation. The high-quality outer jacket in a modern design further enhances this effect and thus ensures peaceful sleep. High-quality insulation is concealed behind the slim metal jacket with good-looking design elements. It reduces noise emissions and at the same time avoids heat loss – and thus saves energy costs.

Not only does the Thermalia® comfort look good, it also requires very little space. This makes it best suited for placing in a spare room if there is no space in your boiler room.

### Individuality

The integrated TopTronic® E control of the Thermalia® comfort heat pump allows you to operate your heating via smartphone, PC or touchscreen from the living area. The clever control system uses real-time weather data and adjusts the operation of the heating

accordingly – for more cost savings and a high level of living comfort. You choose your individual method of operating their heating system!

The EnergyManager PV smart also helps you save money. By using this standard, free feature together with the HovalConnect online service, you will use more power generated by your own photovoltaic system and therefore consume less from the public grid.



### Integration

Shower or bathe to your heart's content. With Thermalia® comfort and the TopTronic® E control unit, you can design your system for hot water and cosy warmth, in just the way you want it. Thanks to the control system and the excellent value for money, the combinations are almost unlimited and the Thermalia® comfort represents the ideal "system heat pump". Hoval supplies everything from a single source. Find out more from your heating specialist! The Thermalia® comfort comes prepared for a system that provides domestic hot water, allowing it to be connected more quickly.

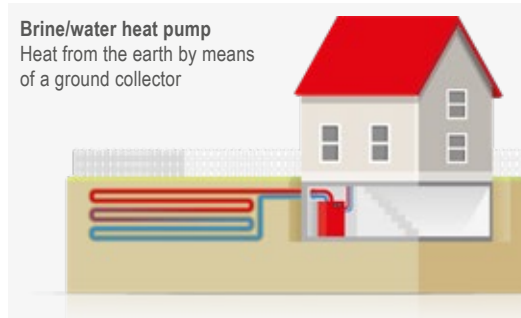
### Heat sources

While the outdoor temperatures sometimes fall far below freezing point in winter, moderate temperatures prevail all year round under the ground starting from just a few metres below the surface. Constant underground ambient temperatures ensure that ground-source and groundwater heat pumps achieve very high efficiency values. There are suitable methods for extracting underground energy depending on the local conditions and the available space.

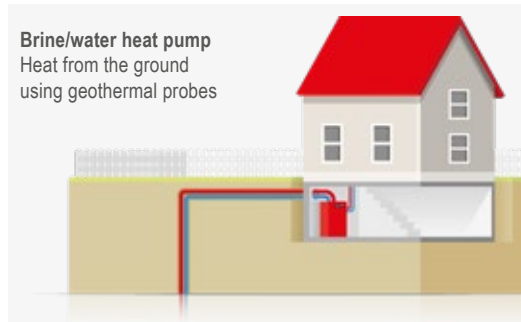
### Making intelligent use of electricity



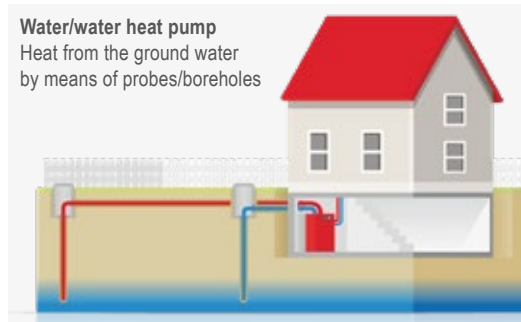
In intelligent electricity systems (SmartGrids), the system, generators, storage tanks and consumers communicate with one another to balance differences between supply and demand. If there is a surplus, electricity becomes cheaper; if demand is high, it becomes more expensive. With the SG ready function, your heat pump knows these tariffs. It carries out energy-intensive processes, such as heating the water in the storage tank, when electricity is cheap. If your own free photovoltaic electricity is available, it is used as far as possible instead of buying electricity.



**Brine/water heat pump**  
Heat from the earth by means of a ground collector



**Brine/water heat pump**  
Heat from the ground using geothermal probes



**Water/water heat pump**  
Heat from the ground water by means of probes/boreholes



### Compact and complete

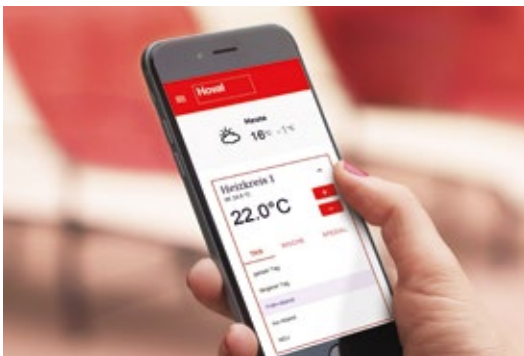
The Thermalia® comfort stands for a long service life. Its high-quality exterior conceals all the technical components for reliable and economical operation. Removable side walls ensure convenient access to all components for maintenance work.

The compact heat pump is easy to transport and install. Since all connections are positioned on the rear, the heat pump can be placed on the left against the wall. It also requires little space for the connections at the rear with the accessories from Hoval.



## Hoval TopTronic® E

As little control as necessary.



### Straightforward

One control system for everything. You do not need to worry about a thing. Once set up, the TopTronic® E system controller automatically provides the right temperature in your rooms, hot water and even a pleasant supply of fresh air.

### Convenient

Operate your Hoval system from anywhere with the HovalConnect online service. The app lets you adjust temperatures, select the programmes you want or switch your system from holiday mode. HovalConnect even takes into account the weather forecast, preventing rooms from overheating and saving on expensive heating energy.



### Informative

The room control module's large display enables you to view information ranging from the most important system data down to the weather forecast. The HovalConnect dashboard also lets you check your system's output and consumption data. And no matter which unit you're using, the heating system automatically reports when service is required or faults occur.

#### **Hoval TopTronic® E**

is the uniform system controller for Hoval heat generators and comfort ventilation as well as other components such as solar plants or calorifiers. It connects the individual components and ensures that they interact in the most energy-efficient manner. All the connected components can be adjusted using the same control module. The HovalConnect online service enables the Hoval TopTronic® E control system to be accessed via a browser or a smartphone app.

# Hoval Thermalia® comfort

## Technology and system

Hoval Thermalia® comfort		(8)	(10)	(13)	(17)	H (7)	H (10)
<b>Brine/water B0W35</b>							
Energy efficiency class for heating at 35 °C (A+++→ D)		A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class for heating at 55 °C (A+++→ D)		A++	A++	A++	A++	A++	A++
Room heating energy efficiency for "average climate" of 35 °C	ηS	183	197	197	193	186	192
Room heating energy efficiency for "average climate" of 55 °C	ηS	135	136	141	142	139	144
Seasonal coefficient of performance for "average climate" at 35 °C/55 °C (EN 14825)	SCOP	4.6 / 3.3	5.0 / 3.5	5.0 / 3.7	5.0 / 3.7	4.7 / 3.5	4.9 / 3.7
Heat output max. (EN 14511)	kW	7.6	10.6	13.4	17.2	6.5	9.1
<b>Water/water W10W35</b>							
Energy efficiency class for heating at 35 °C (A+++→ D)		A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class for heating at 55 °C (A+++→ D)		A+++	A+++	A+++	A+++	A+++	A+++
Room heating energy efficiency for "average climate" of 35 °C	ηS	240	253	261	244	249	254
Room heating energy efficiency for "average climate" of 55 °C	ηS	166	174	184	175	184	189
Seasonal coefficient of performance for "average climate" at 35 °C/55 °C (EN 14825)	SCOP	6.0 / 4.2	6.3 / 4.4	6.6 / 4.7	6.2 / 4.5	6.2 / 4.6	6.4 / 4.8
Heat output max. (EN 14511)	kW	9.6	12.7	17.5	22.3	9.1	12.8
Flow temperature max.	°C	62	62	62	62	67	67
Refrigerant		R410A	R410A	R410A	R410A	R134A	R134A
Dimensions (height x width x depth)	mm	1220 x 600 x 716					
Sound power level (nominal)	dB(A)	44	45	45	46	45	46

### 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? Hoval customer service technicians are here to help. Regular maintenance will give your system a longer service life. Your investment will maintain its value over many years and operation will remain as economical as possible.



**Hoval quality.**  
You can count on us.

# Hoval

Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 75 years of experience and benefiting from a close-knit team culture, the Hoval Group delivers exciting solutions and develops technically superior products. This leadership role requires a sense of responsibility for energy and the environment, which is expressed in an intelligent combination of different heating technologies and customised indoor climate solutions.

Hoval also provides personal consultations and comprehensive customer service. With around 2500 employees in 15 companies around the world, Hoval sees itself not as a conglomerate, but as a large family that thinks and acts globally.

Hoval heating and indoor climate solutions are currently exported to more than 50 countries.

## Responsibility for energy and environment

### Germany

Hoval GmbH  
85609 Aschheim-Dornach  
hoval.de

### Austria

Hoval Gesellschaft m.b.H.  
4614 Marchtrenk  
hoval.at

### Switzerland

Hoval AG  
8706 Feldmeilen  
hoval.ch

Your Hoval partner