

## Why Vaillant?

Because hot water is our business  
for more than 140 years



■ Heating ■ Cooling ■ Renewables

We make history with the future.





**Established since 1874**

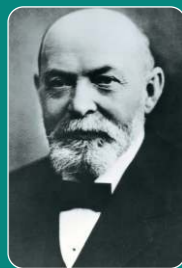
The beginning of a remarkable journey

Pioneer in systems technology

The brand is given a face

A fitting technology

The central heating boiler conquers the world



1874

1894

1899

1905

1924

**We applied for a patent for the first gas boiler in the 19<sup>th</sup> century**

One million units sold

The gas-fired circulation water heater arrives

Vaillant marries heating and hot water

Vaillant continues to grow

The ElectronicVED, instant tankless water heater launched

Innovation and expansion continues across the globe



1955

1961

1967

1970

1979

1991

**For the technology of tomorrow**

The wall-hung condensing boiler is launched

Quality management takes success to the next level

Further advances through solar thermal systems

125 years of innovation and achievements

The start of a new era in condensing boilers



1995

1996

1997

1999

2001

**Perfection in the details**

A brand evolves into a Group

Heat pumps factory started in Gelsenkirchen, Germany

Vaillant establishes factory & operations in China

Solar Collectors manufactured in Gelsenkirchen, Germany

The household power plant



2001

2006

2007

2008

2009

We hold the rights for our 2,000 patents

Market launch of zeolite

Market launch of ecoPOWER 1.0

Market launch of calorMATIC

Market launch new icoVIT

Market launch new ecoTEC



2010

2011

2012

We have reinvented the future of heating and air ventilation

Market launch hybrid heat pump system

Market launch ecoTEC plus

Market launch allISTOR exclusive/plus

Market launch aroTHERM



2012

2013

The good feeling of doing the right thing

Market launch recoVAIR

Market launch ecoCOMPACT & auroCOMPACT

New range of single phase VED's launched

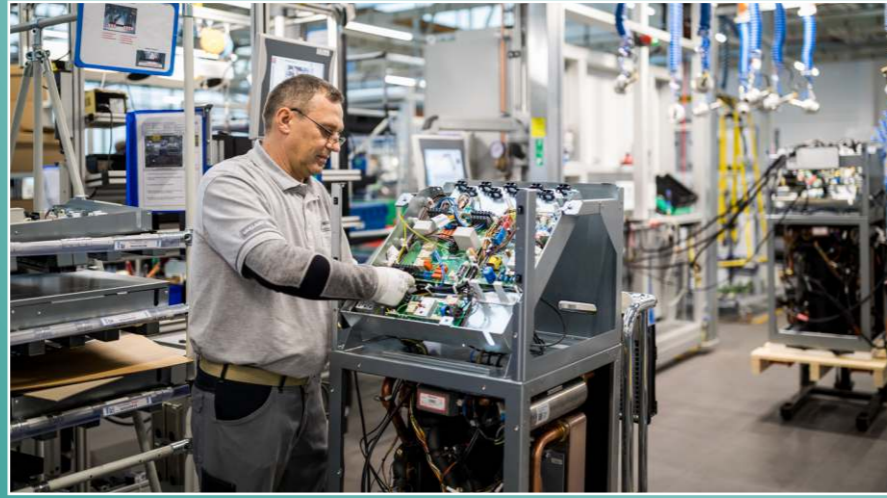


2014

2017

## Germany is still the first choice

With the start of heat pump production in 2006 at the Gelsenkirchen plant, Vaillant continued to show its unfailing confidence in Germany as a manufacturing and business location.



## Sophisticated design on every level

Design level 1



Design level 2



Design level 3



Attractive and uniform design of all appliances



User-friendly, well organised and easy-to-read control panels

Inner components clearly arranged

## The Vaillant Group Vision

We want to be the leader in simple, eco-friendly and energy-saving solutions for heating, cooling and hot water to support the sustainable and profitable growth of our family owned company.

## VAILLANT GROUP

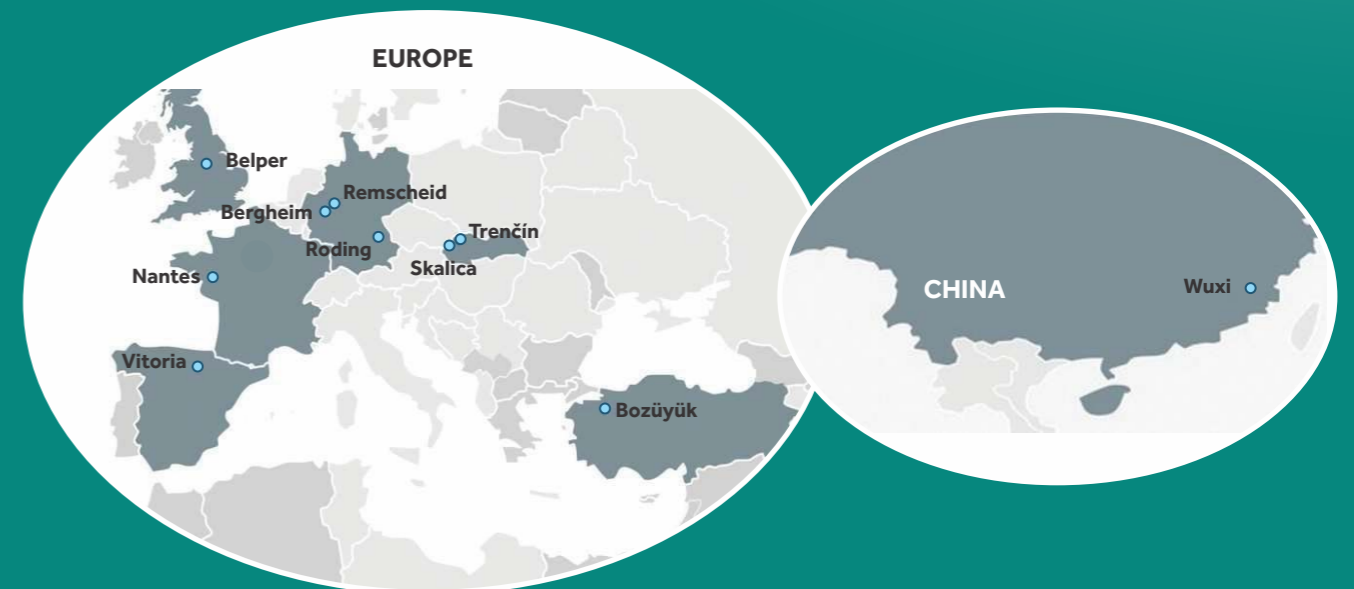


## Vaillant Group Facts

- International, family-owned company with a heritage spanning over 140 years
- Core business: heating technology, represented by eight brands with annual sales of €2.43 billion (2017) and some 13,000 employees worldwide
- Europe's second largest provider on the heating market
- Development focused on products and system that use renewable energies
- Highest standards for environmental friendliness and sustainability

## International Presence:

## the Vaillant Group Production Network



## A family business with global reach



■ Countries with Vaillant presence

- |                    |             |                |
|--------------------|-------------|----------------|
| Albania            | Hong Kong   | Poland         |
| Algeria            | Hungary     | Portugal       |
| Australia          | India       | Romania        |
| Austria            | Iran        | Russia         |
| Belarus            | Iraq        | Serbia         |
| Belgium            | Israel      | Slovakia       |
| Bosnia-Herzegovina | Italy       | Slovenia       |
| Bulgaria           | Latvia      | South Korea    |
| China              | Lebanon     | Spain          |
| Croatia            | Lithuania   | Sweden         |
| Czech Republic     | Malta       | Switzerland    |
| Denmark            | Morocco     | Turkey         |
| Egypt              | Moldova     | UAE            |
| Estonia            | Netherlands | Ukraine        |
| Finland            | New Zealand | United Kingdom |
| France             | Nigeria     | USA            |
| Germany            | Norway      |                |
| Greece             | Oman        |                |

## The system behind our success



## Product Portfolio

### Electric instant tankless water heaters

#### Electronic VED Exclusive



ElectronicVED exclusive

The new generation of fully electronic Vaillant electric instant tankless water heater has a flat, elegant design and is made for luxury and performance showering for every bathroom. The VED exclusive shows energy and water consumption data on its MONITOR and its settings can be controlled via a remote control. It is the world's first tankless water heater with integrated consumption data indication. The VED exclusive also has a trend indicator which enables you to estimate your yearly consumption. The VED exclusive works really well with renewable energy solutions such as a solar or heat pump for pre heated water. The VED exclusive is truly one of the world's most advanced tankless water heaters.

Product features electronic VED exclusive at one sight:

- Output models 18, 21, 24 and 27 kW
- Energy MONITOR with consumption indication
- Exact adjustment of desired water temperature
- Exact adjustment of scalding protection
- Big illuminated graphical display with plain text menu
- Electronic power adjustment
- Exact temperature adjustment from 20 °C up to 60 °C
- Flat design: 481 x 240 x 99 mm (height / width / depth)
- Easy to service thanks to System Pro I
- Adaptable to solarsystem (except VED E 27/7 E) for pre-heated water up to 60 °C

#### Electronic VED



ElectronicVED

The new generation of electric tankless water heaters is again a striking proof of Vaillant's leadership in innovation. The VED electronic is extremely comfortable and efficient and tailored to individual demands and provides a superior experience for performance showering. It is an easy-to-operate, easy-to-install and easy-to-service appliance. The VED is electronically guided and the outlet temperature can be regulated in a step-less manner and stays constantly up to performance limit. Any functions in the water pressure are electronically balanced and the desired water temperature is adjusted at the temperature selector.

Product features electronic VED at one sight:

- ElectronicVED with electrical performance adjustment, stepless temperature regulation and output temperature stability up to the performance limit
- Flat design: 481 x 240 x 99 mm (height x width x depth)
- Installation system Pro I for maximum service and installation ease

#### ElectronicVED pro



ElectronicVED Pro

The new generation of single phase electric instant tank less water heaters is again striking proof Vaillant's leadership in innovation and design. The electronicVED pro is electronically guided and the outlet temperature can be set with a digital display and stays constantly up to the performance limit. A flow rate controller provides the ability to regulate flow for increased comfort and energy efficiency.

Product features electronic VED Pro at one sight:

- Output model 6 - 9 kW (Single phase 220 V, 50 Hz)
- LED digital display
- Outlet temperature can be set with digital display
- Temperature selection range: 30 - 60 °C
- Controlled/adjustable flow rate using water flow sensor and flow adjustment knob hence increased comfort and energy efficiency
- Protection level: IP 24
- Water resistance provided with water resistance detector
- Lightweight hence easy for installation and maintenance

#### Electronic mini VED



VED Mini Pro

The mini VED plus is the new generation of single phase electric instant tankless water heaters. It is perfect for the use for small showers or washing hands in the bathroom or use in the kitchen.

The digital display allows temperature setting for maximum energy efficiency. The mini VED is also available in the pro version without a digital display.

Product features electronic mini VED pro/plus at one sight:

- Output model 4-6 kW (Single phase 220 V, 50 Hz)
- Perfect for small shower bathroom and washing hand in kitchen
- LED digital display (plus version only)
- Outlet temperature can set with digital display (plus version only)
- Temperature selection range: 30 - 48 °C (plus version only)
- Water flow sensor (Non adjustable)



VED Mini Plus

## Solar technology

Here comes the sun.

Vaillant auroTHERM solar system: Using the sun as a limitless natural energy source is good for the environment and cuts heating and hot water costs.

- Simple, versatile installation: in-roof, on-roof or free-standing
- Impressively powerful systems with up to 2,000 litres storage capacity
- Exceptional solar energy yield



## Shining performance



auroTHERM plus VFK 150  
auroSTOR VIH S 400  
auroMATIC 570

Solar water heating is the easiest way to use solar energy and slashes hot water costs by up to 60%.

- High-output flat plate collectors for ample solar energy yield and environmentally friendly water heating
- Anti-reflective glass and 2.51 m<sup>2</sup> surface area (VFK 150)
- Bivalent solar cylinder with minimum standby heat loss

## Combined solar power



icoVIT  
auroTHERM VTK 1140  
aIISTOR exclusive 500  
auroMATIC 620

Get the most out of solar power for heating and hot water. The great advantage: watch energy costs fall.

- Features matching 300 to 2,000 litre buffer storage tank (up to 6,000 litres if cascaded) with innovative storage technology in order to optimally use renewable energies
- Control of the entire system including the top-up heater via the auroMATIC 620 system control panel

## Gas condensing technology

Efficiency in all sizes.

Whether on a wall, on the ground or as a compact appliance, with a spectrum ranging from 3.2 to 840 kW, we have the right system for every customer. Always with the aim of:

- Boosting energy efficiency and eco-friendliness
- Optimising convenience and compactness
- Simplifying the operation, installation and maintenance of systems



## Efficiency in grand style

ecoTEC plus and auroTHERM plus.

- New premium design
- The already efficient appliance has been fine-tuned to become even better
- Thoroughly tested across all power classes (12-37 kW)



ecoTEC plus  
auroTHERM plus VFK 155 V

## Heat pumps



AroTHERM 5, 8, 11 and 15 kW

Energy from the garden.

Up to 75% of the energy for our pumps comes from the environment (geothermal heat, the atmosphere or water). Electric heat pump systems have the lowest running costs and are guaranteed to pay for themselves. But heat pump technology also works well on gas as with our gas-fired zeolite heat pump, a world first that drastically cuts gas consumption.

## Two units, one-of-a-kind efficiency

Innovative air-based heat pumps with an unbeatable COP of 4.0. Particularly well suited to bringing appliances up to date with flow temperatures of up to 62 °C.

- Ultra silent when interior and exterior units are in operation
- Can be positioned flexibly (up to 30 metres away from the building).
- No heat loss thanks to split technology with brine solution
- Integrated weather-sensitive energy control unit with environmental energy display
- Space-saving thanks to integrated hot water storage unit



geoTHERM with external unit

## aroSTOR floor-standing units (200 L, 270 L)



- Floor-standing domestic hot water heat pump ranges are aroSTOR 200 L and 270 L
- Offers perfect domestic hot water comfort and extracts energy from the ambient air
- Provides a high level of efficiency thanks to the use of R290 as refrigerant
- Uses the environmentally friendly refrigerant R290 (150 gr)
- High efficiency
- Extremely quiet operation (volume of 48dB, sound pressure level (1m):36 dB)
- Low maintenance costs (stainless steel cylinder)
- EHPA label
- Domestic hot water comfort for up to six people
- Comfortable operation (1.5 kW back-up heater)
- High product quality (5year guarantee for the cylinder; 2 year guarantee for all other components)
- Comprehensive range of accessories for the airflow network
- Suitable for indoor and outdoor installation

## Control systems



Always so well-adjusted.

The heart of a heating system is a weather-compensated controller. Vaillant supplies multifunctional modules and system controllers such as auroMATIC 620 alongside room thermostats for heating units serving a single storey.

The vrnetDIALOG communication unit also makes it possible to monitor and adjust a heating system remotely.

## Control is a stroll

calorMATIC 630 system control unit

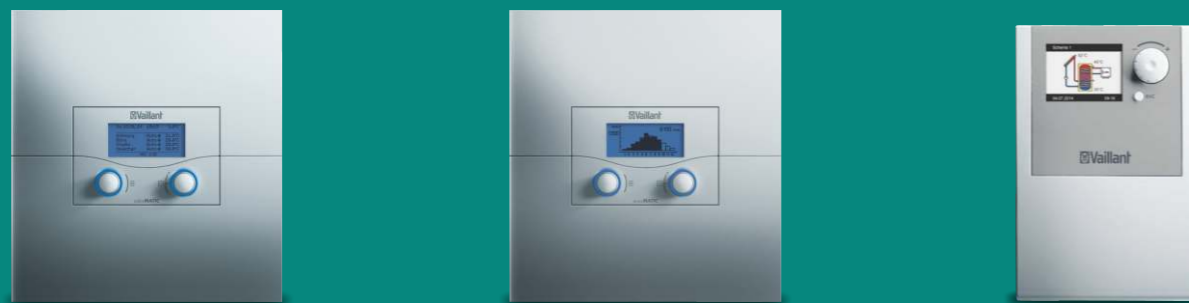
- Regulation of three weather-sensitive heating circuits
- System can be expanded at any time using a mixing unit
- Standard cascade control of several heat generators

auroMATIC 620 solar control unit

- Regulation for solar heating appliances

New solar control: auroMATIC 570

- Complements any existing heating system with an autonomous control of the solar-assisted water heating, backup heating and heating swimming pools.



## Service for end customers and installers

The Vaillant Group is an established technology and service leader focused on:

- Providing reliable solutions that keep on improving service quality and boosting customer satisfaction
- Comprehensive, tailored service packages for sales and maintenance
- Efficient support thanks to remote parameter setting, diagnosis and alarm signalling via the Internet, plus hotlines
- Intensive training programmes for service partners



International



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