

Hot water on demand

with incorporated energy saving function



■ Electric instantaneous water heaters

The good feeling of doing the right thing.

Because  Vaillant thinks ahead.

Electric warm water production by Vaillant:

enjoy and economise



As supplier of complete intelligent system solutions, Vaillant meets the demands and wishes of people who think ahead. People who wish to combine extremely economical and efficient use of resources with excellent quality of life.

Ever since 1874, Vaillant has pioneered with path-breaking innovations in the development of efficient technologies in the field of individual comfort. Vaillant's modern electric water heaters meet the requirements of today and tomorrow. They offer easy and comfortable operation, supply hot water at all times and are extremely economical and energy-saving.

This concept perfectly matches the eco-design directive in force since September 2015. This directive defines new minimum efficiency requirements for energy-related products. Actually, the use of electric water heaters helps to prevent warm water pipe and circulation losses. Because Vaillant thinks ahead.





System electric hot water  
Technical data

4  
11





Quick, clean, economic:

decentralised domestic hot water production

Vaillant does not only offer innovative heating systems but as well all kind of d.h.w. services from one source. This includes efficient appliances for decentralised domestic hot water supply. Vaillant electric instantaneous water heaters meet the most exact demands in flats as well as one- and multi-family dwellings. In particular, they ensure high comfort at low cost in case of remote tap points.

#### Ideal for energy savings

Decentralised production of domestic hot water is often the optimum solution because water is heated tailored to demand: Exactly at the right place, at the right time and in the right quantity. Instantaneous water heaters only consume electric energy when you tap hot water. The short supply lines ensure that the heat losses are reduced to a minimum. This does not only save expensive energy but also prevents the unwanted consumption of precious drinking water. A benefit not only for the environment but also for your wallet.

#### At the desired temperature

The electronic instantaneous water heaters made by Vaillant do even more: compared to hydraulic instantaneous water heaters, an electronicVED exclusiv allows e.g. saving up to 30% of water and energy. Once you have adjusted the desired temperature, you just need to open the hot water tap. You do not need to add cold water - thus you do not waste any energy by first heating the water and then cooling it down again. Therefore, payback of only three years in case you install a fully electronic instantaneous water heater instead of a hydraulically controlled appliance can be expected.

By the way, it is quite easy to monitor your electric power and water consumption: Thanks to the easy-to-read consumption data indication in the electronicVED exclusiv and electronicVED plus. The Vaillant energieMonitor always provides a perfect overview, and supports energy savings.

#### Perfectly matching every demand

You can use appliances for decentralised hot water production at your discretion, either as a sole hot water supply unit in your home or just at some tap points that are not used frequently, e.g. in the guest bathroom. In addition, they are ideal as a complement to systems, especially during the summer months when room heating is not required and you do not want to switch on the heating boiler just for the production of domestic hot water.

#### Convenient combinations

The use of electric domestic hot water appliances is extremely efficient in systems using renewable energies: In combination with solar systems or heat pumps, they help to significantly cut energy costs because pre-heated water can be heated to the desired temperature at a minimum energy expenditure. This way, you do not waste any energy at all for getting hot water at the desired temperature.



Always in sight: the major settings

Hot water perfectly matching demand:

electronicVED exclusiv



Modern and flat design



Fits into every location

With its flat and elegant design, the electronic Vaillant instantaneous water heater electronicVED exclusiv fits into every kitchen and bathroom. In addition, its innovative technology provides energy and water cost savings of up to 30% while supplying water exactly at the desired temperature. Thus, convenience and efficiency band together.

#### EnergyMONITOR: displays its performance

Today, everyone wants to know how much power and water the appliances consume. With the electronicVED exclusiv, one glance to the display will do: the first instantaneous water heater with integrated consumption data indication displays the power and water consumption in kW and m<sup>3</sup> for the last 30 or 360 days. The energyMONITOR is no calibrated measuring instrument.

Therefore, especially in case of frequent short tappings, there are metrological tolerances with all displayed consumption values. However, it is a good trend indicator, ideal for tracking consumption: already at the first tapping, the display indicates the current output and flow rate. Thus, you directly know the changing power input when you open the warm water tap - and you learn how to save energy.



### Loves teamwork: with ambient heat

The electronicVED exclusiv available with an output of 18, 21 and 24 kW is ideal for reheating hot water exactly to the desired temperature degree in solar and heat pump systems. In case the solar yield is insufficient, there is no need for a boiler to completely heat up the solar cylinder: the electronicVED will take over as back-up heater. What is more, the electronicVED will just consume exactly the amount of energy required to reach the desired temperature. By the way, up to water inlet temperatures of 60°C.

### Plain language: for ease of operation

The large illuminated graphical display with plain-text menu ensures ease of operation. For cost-optimised production of hot water, with incorporated energy saving key. Temperature and basic setting of the water heater, scalding protection and child-proof lock can always be read and adjusted easily. Therefore, the electronicVED exclusiv has been awarded with the quality label "Komfort und Qualität" by the German Gesellschaft für Gerontotechnik (German Association for Gerontology). The electronicVED exclusiv is equipped with a bi-directional waterproof radio control. With this remote control, you can adjust the temperature and change the menu settings even under the shower or in the bathtub.

### Always the desired temperature to the exact degree

With the electronicVED exclusiv, you won't get changing water temperatures in the shower and kneipping unless you really want this. If not, you will get the water at the desired temperature - to the exact degree. The fully electrical output and water quantity control Temptronic adjusts the warm water outlet temperature (adjustable between 20 and 60°C) to the exact degree - even in case of low inlet temperatures and in extremely cold winters.

### Energy efficiency class of the product

electronicVED exclusiv

warm water: A

### What is important for you as an expert:

- Maximum warm water output of 10 to 16 l/min.
- Always warm water at the exact degree thanks to the output and water quantity control Temptronic
- Broad output range for flexible use
- Automatic limiting of the water quantity via motor valve
- Adaptable to solar systems (except VED E 27/7 E): for pre-heated water up to 60°C as back-up heating for solar and heat pump systems
- Ease of installation and servicing thanks to installation system Pro I

### What is interesting for your customers:

- Maximum ease of operation thanks to graphical display and plain-text menu
- Up to 30% energy and water cost savings while supplying the desired temperature - to the exact degree
- Thanks to the energyMONITOR you directly see your power and water consumption
- Extremely family-friendly offering scalding protection and child-proof lock
- High convenience: the electronicVED exclusiv is equipped with a waterproof radio control
- Protection against discoloration thanks to UV-resistant appliance cover

### Technical information:

- Outputs 18, 21, 24 and 27 kW
- EnergyMONITOR with consumption data indication
- Warm water output 10 to 16 litres/minute, depending on the rated output
- Big illuminated display with plain-text menu
- Bi-directional waterproof radio control
- Flat appliance design (H x W x D): 481 x 240 x 99 mm

## Having an eye on energy consumption:

### electronicVED plus

Innovative technology with temperature setting to the exact degree, ease of handling via a large illuminated graphical display and the unique energyMONITOR for consumption tracking - all features packed in an appealing design. That is how the electronicVED plus brings broad warm water comfort to your home.

#### Easily adjusted: with the plain-text menu

Via the large illuminated graphical display with user-friendly menu navigation, you can easily adjust the electronicVED plus. Whether basic setting of the water heater, temperature adjustment, child-proof lock, scalding protection or energy saving function: the plain-text menu makes it easy.

#### Always know how much you consume: per energyMONITOR

The electronicVED plus, too, is equipped with the innovative energyMONITOR. It displays the current appliance output and the flow rate already when warm water is tapped. The consumption data indication is in particular interesting for tenants and landlords: with the energyMONITOR, they can read out the power and water consumption in kW and m<sup>3</sup> for the past 30 or 360 days. However, as the energyMONITOR is not a calibrated measuring device, you will have to consider slight tolerances. Nevertheless, it is a perfect trend indicator to monitor your consumption. Thus, you can estimate as well the pro-rata annual energy consumption - normally this is not easy with the large number of electrical devices in the household.



Classy design for beautiful bathrooms



Illuminated graphical display

**No waiting time: warm water on demand**

The electronicVED plus delivers warm water at the desired temperature: quickly and reliably. The set water temperature is constant up to the output limit. And, if the output limit is exceeded, you can raise the outlet temperature manually by adjusting the water quantity. The incorporated microprocessor detects and controls the required heating output of the water heater based on the water inlet temperature and the water quantity detected by the impeller flow sensor. Thus, the water heater never consumes more energy than required. This applies as well to the re-heating of the warm water supplied by solar systems and heat pumps. This back-up by the 18, 21 and 24 kW heaters is what we call efficient!

**Technical information:**

- Outputs of 18, 21, 24 and 27 kW
- Electronic output control
- Flat appliance design (H x W x D): 481 x 240 x 99 mm

**Energy efficiency class of the product**

electronicVED plus	warm water: A
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**What is important for you as an expert:**

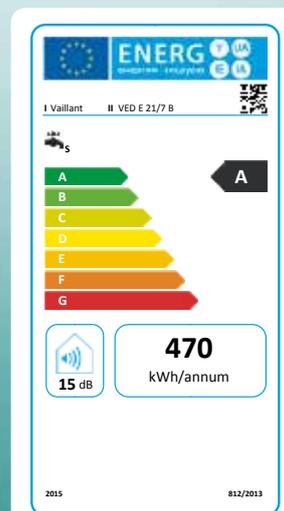
- Broad output range for all demands
- Adaptable to solar systems (except VED E 27/7 P): for pre-heated water up to 60°C as back-up heating for solar and heat pump systems - exactly to the set degree
- Ease of installation and servicing thanks to installation system Pro I

**What is interesting for your customers:**

- Flat and elegant design for every bathroom and kitchen
- Thanks to the energyMONITOR you directly see your power and water consumption!
- Temperature adjustment to the exact degree from 20 up to 60°C
- Energy savings at any time thanks to the energy saving button for cost-optimised hot water production
- Extremely family-friendly offering scalding protection and child-proof lock
- Protection against discoloration thanks to UV-resistant appliance cover

Proper performance for everyone:

electronicVED



Warm water comfort on demand at any time: the water quantity limiter can be adjusted from the outside

The Vaillant instantaneous water heaters electronicVED provide hot water convenience, everywhere as they offer versatile use. Thanks to their space-saving flat design with a depth of only 10 cm, they fit into every flat and every building.

#### Simply convenient: electronicVED

The progressively adjustable outlet temperature of the electronically controlled electronicVED is constant up to the performance limit. It electronically compensates water pressure variations and avoids involuntary kneipping. The electronicVED offers a progressively adjustable temperature range from 30 up to 60°C that always delivers water at the desired temperature - for dishwashing, washing and the bathtub.

#### Technical information:

- Electronic control
- Outlet temperature constant up to the performance limit
- Flat appliance design (H x W x D): 481 x 240 x 99 mm

#### Energy efficiency class of the products

electronicVED

warm water: A

#### What is important for you as an expert:

- Quick mounting thanks to the universal mounting bracket
- Installation system Pro I for ease of installation
- Integrated folding frame: easy access to the water and cable connections
- Easy maintenance of the plugged main components

#### What is interesting for your customers:

- Compact and flat: space-saving in every home
- Extremely comfortable electronicVED thanks to a progressively adjustable temperature range from 30 to 60°C

electronicVED exclusiv	Unit	VED E 18/7-E	VED E 21/7-E	VED E 24/7-E	VED E 27/7-E
Nominal capacity	kW	18,0	21,0	24,0	27,0
Output control		Electronically controlled			
Max. tapping quantity	l/min	10	12	14	16
Nominal voltage		400 V / 50Hz			
Electrical connection		cable			
System of protection		IP25			
Max. inlet temperature	°C	60	60	60	25
Temperature adjustment range	°C	20/60			
Dimensions unpacked (height / width / depth)	mm	481/240/99			
Weight unpacked	kg	4,4			
Connection cold water, warm water		R1/2			
Class of DHW energy efficiency					

electronicVED plus	Unit	VED E 18/7-P	VED E 21/7-P	VED E 24/7-P	VED E 27/7-P
Nominal capacity	kW	18,0	21,0	24,0	27,0
Output control		Electronically controlled			
Max. tapping quantity	l/min	6	7	8	9
Nominal voltage		400 V / 50Hz			
Electrical connection		cable			
System of protection		IP25			
Max. inlet temperature	°C	60	60	60	25
Temperature adjustment range	°C	20/60			
Dimensions unpacked (height / width / depth)	mm	481/240/99			
Weight unpacked	kg	4,4			
Connection cold water, warm water		R1/2			
Class of DHW energy efficiency					

electronicVED	Unit	VED E 18/7	VED E 21/7	VED E 24/7	VED E 27/7
Nominal capacity	kW	18,00	21,0	24,0	27,0
Output control		Electronically controlled			
Max. tapping quantity	l/min	7	7	7	9
Nominal voltage		400 V / 50Hz			
Electrical connection		cable			
System of protection		IP25			
Temperature adjustment range	°C	30/60			
Dimensions unpacked (height / width / depth)	mm	481/240/99			
Weight unpacked	kg	4,4			
Connection cold water, warm water		R1/2			
Class of DHW energy efficiency					

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