Electric boilers, 26-750 kW (10 MW)
Electric cartridges, 13-15 kW
Immersion heaters, 1.5-9 kW

www.varmebaronen.com
Facts about Värmebaronen

Värmebaronen began operations in 1975 and is now one of the leading manufacturers of heating systems in Sweden. Our products are known for their high quality and long service life. An extensive product range makes it possible to create carefully considered, reliable heating systems.

Our development department works constantly to adapt our products to market requirements and demand.

Our product range meets the maximum requirements for technical reliability, eco-friendliness and cost efficiency.

Our products provide heating for satisfied customers on our Scandinavian domestic market and in the rest of Europe, Asia and the USA.

Värmebaronen OEM manufactures customised solutions. We share all the knowledge and experience we possess.

Please contact us!

Connect several EP boilers together. This produces an extremely reliable heating package that also produces heat during repair or service.
Värmebaronen has the widest range of electric heating products on the market. Everything from a 1.5 kW immersion heater to the largest electric boiler with an output of 750 kW. Not so long ago, electric heating was often installed as the primary heat source in houses and other properties. It is now often used as additional heating to one or more heat pumps, for example. The cost of installing an electric boiler is low and the job is fast and easy. When it is cold outside and the heat pump does not manage to maintain the heat, the topup heat from the electric boiler is invaluable.

**Wide range**

- **Immersion heaters**
  Economical and reliable. Suitable for most heating systems. Also for customised solutions for industry, for example.
- **Electric cartridges**
  Output 13-15 kW. Easy to connect to the heating system.
- **Electric boilers, EP 26 E & EP 42 E**
  Output 26-42 kW. An outdoor temperature compensator, UTK-E, is available as an accessory.
- **Electric boilers, EP 31-750 kW**
  For a block of flats, business premises or hotel or simply as a supplement/additional heating for a heat pump system.
- **Interconnectable to 10 MW**
  Several EP electric boilers can be connected together to 10 MW.
- **Customised**
  We also build boilers in different materials with different temperatures and voltage options (230-690 V).
- **Anti-freeze**
  All electric boilers works well with anti-freeze liquids.
The world’s largest telescope, VLT, was put into use in Chile in March 1999. The customer chose Värmebaronen’s EP electric boilers for the telescope’s heating requirements.

The heated anti-icing fluid is sprayed on the trains’ bogies and other selected areas to remove ice and prevent ice formation.

The wave pool, Skara Sommarland. The water in the pool is heated with two EP 255 and a heat exchanger of titanium that can cope with the chlorinated water. Photo: Skara Sommarland.

A boiler and heat exchanger are used to heat engine blocks placed on a test bench. They are used to simulate various operating conditions for the engines.
Bäckaskog castle in north-eastern Skåne is perhaps best known as King Karl XV’s summer palace.

The main building is heated by three NIBE Fighter 1320 of 40 kW each. A Värmebaronen EP 52 electric boiler provides top-up heating when it is needed.

Formplast in Broby uses four NIBE Fighter 1330 ground-source heat pumps, along with a Värmebaronen EP 112 electric boiler.

Drying plant. Kristianstadsortens Lagerhusförening uses 6 x EP 750 kW, 690 V to dry grain during the harvesting season.

Block of flats. 12 flats. Heating is provided by three Nibe Fighter 2010 air/water heat pumps and a Värmebaronen EP 42.
Save more than SEK 20,000 by making the right choice

Factory-fitted safety equipment, fully connected internally.
Thanks to factory-fitted safety equipment, VÄRMEBARONEN is able to offer electric boilers approved for installation without a steam-collecting vessel.

All electric boilers tolerate zero flow and can be installed without a steam-collecting vessel, level sensor, twin pumps and flow guard. The boilers can be supplied with factory-fitted safety equipment and meet the requirements in EN 12828, AFS 2002:1, 2016:1 for periodic monitoring of a boiler system, checked by a third party.

The safety equipment, combined with the uniquely simple installation, means that the costs of labour and planning are reduced dramatically.

Where the safety equipment is factory-fitted, it does not require any special inspection either. It meets the requirements when it leaves the factory.

Approved for installation without a steam-collecting vessel

We have unique expertise in waterborne electric heating.
EP series, boilers for waterborne heating systems and industrial processes. Output from 31 to 750 kW. Interconnectable.

The boilers’ output is divided into 7, 15 or 30 steps, which are connected gradually in the event of temperature shortfall.

The flow temperature can be set between 20 and 95°C. The boilers are supplied with thermostats to maintain constant flow temperature. Outdoor temperature compensation for variable flow temperature is available as an accessory.

Smart temperature control adjusts the power supplied to increase the service life of the boiler’s contactors.

For safety reason, the EP series copes with flows down to zero, i.e. the boilers do not need to be fitted with flow guards or twin pumps.

The output of the boilers can be limited down to one power step. A load guard is integrated to protect the main fuse. The boilers have a connection for external blocking and for control via a current/voltage signal and external display of the power connected and temperature.

Alarms are indicated on the front panel. The boilers also have a connection for an external buzzer alarm.

When used with, for example, a plate heat exchanger, the boilers can be controlled directly via the temperature in the secondary circuit.

If more power is required, several boilers can be controlled in series. Series control is an accessory.
The boilers can be supplied with factory-fitted safety equipment for installation without emergency protection, a steam-collecting vessel, level sensor, etc. Accessory.

All pipe connections are threaded or flanged. This results in cheaper valves and fewer pipe welds. The boiler can be disconnected more easily. Wider diameter connections result in smaller circulation pumps.

Simple monitoring of the boiler. You can easily find all the information you need on the boilers’ panels, plus all the adjustment options.

A divisible cable flange, give the ability to open the panel and hatch and the large distance to the power connection help simplify installation.

The all-pole main switch cuts all incoming power if a fault is detected by the boiler’s controller. This is important to maintain high safety.

The built-in float switch immediately produces an alarm if the boiler is not completely full of water. This eliminates the risk of the boiler boiling dry, which can cause damage to the boiler and other consequential faults.

An earth fault meter monitors the immersion heaters so that there is an early indication of any fault. This avoids expensive emergency replacements and any consequential faults.

A controller with many functions, including the option to obtain information from the boiler such as temperature, pressure, alarms, etc.
EP
31-750 kW

ELECTRIC BOILERS
for heating systems and industrial processes. The electric boiler series consists of twenty-four different boilers with output from 31 to 750 kW.

7, 15 or 30 power steps
The boilers’ output is divided into 7, 15 or 30 steps. The temperature control adapts the power supplied to heating requirements. When the boiler is used with a heat pump, it is an advantage to have many steps as the boiler can initially supply low power to act as a support heat source. In a process, it may be more suitable to have fewer steps so that the boiler immediately supplies high power. The boilers’ control range is 20-95 °C and the output of the boilers can be limited down to one power step.

With or without outdoor temperature compensation
The boilers are supplied with controller to maintain a constant boiler temperature. An outdoor temperature compensator is available as an option for variable flow temperature.

Aluminium and copper
To facilitate installation, the boilers are fitted with terminals that make it possible to connect both aluminium and copper cables. No splicing from aluminium is required.

Reliability
The boilers are fitted with a level sensor and earth fault measurement, which provides an early indication of any faults in the immersion heaters so that faults can rapidly be dealt with without unplanned stoppages.
In series or parallel
The boilers can be connected together in serie up to 1,5 MW or in parallel up to 10 MW. A smart series controller is available as an accessory. This ensures that the boilers’ operating time is evenly distributed between all boilers.

Stainless steel immersion heaters
The immersion heaters are made of stainless steel with brass heads as standard. Also available in other materials and qualities.

External control (e.g. heat pump)
Output can be externally blocked or controlled with a voltage or current signal. A 0-10V output signal for power step in operation can also be received. The EP VP controller is available to control the cartridge’s output from a heat pump with binary control of additional heating. (Accessory).

Pump maintenance operation
In pump maintenance operation mode, the heating is switched off, but the circulation pump, single phase, is operated for a few minutes every day.

We heat all types of liquid medium
Compact, high-efficiency electric boilers. The EP E series for radiator heating, additional heating or industrial processes.

The EP E series is available in outputs of 26 and 42 kW. The principal features are the compact design and high reliability. The EP E series is used to heat waterborne systems, as a supplement to heat pumps or in various industrial processes.

The maximum power can be limited:
- EP 26 E to, for example, 22.5 kW, 18.75 kW or 15 kW.
- EP 42 E to, for example, 36 kW, 30 kW or 24 kW.

Stainless steel immersion heaters
The immersion heaters are made of stainless steel with brass heads as standard. The pressure vessel is made of sheet steel and approved for 4 bar operating pressure. The connections for the flow/safety line and return line and drain valve are on the rear of the boiler.

Compact design
The height is only 78 cm, the width 28 cm and the depth 63 cm. Despite this, there is adequate space for electrical connection under the boiler’s cover where the electronics are located.
All electrical connections are easily accessible under the cover, which makes the boiler easy to connect.

Simple monitoring of the boiler. Settings, indications and meters are on the front panel.

Boiler can be placed on the floor or mounted on the wall with brackets. (Accessory).

Adjust the boiler, lay the cables, lift the cover and connect up. It could not be easier.

7 power steps
The boiler’s output is divided into 7 steps which are connected gradually in the event of temperature shortfall. The boiler temperature can be set between 20 and 95°C.

Load guard included
A load guard and current transformers for measurement (35-125 A) are included in the supply.

UTK E
A UTK E outdoor temperature compensator is available as an accessory to control the flow temperature as a function of the outdoor temperature. Provides simpler handling, pump maintenance operation and frost protection.

External control (e.g. heat pump)
Output can be externally blocked or controlled with a voltage or current signal. A 0-10V output signal for power step in operation can also be received. The EP VP controller is available to control the cartridge’s output from a heat pump with binary control of additional heating. (Accessory).

Brackets for wall mounting
Boiler can be placed on the floor or mounted on the wall with brackets. (Accessory).
**EK 13-15 kW**

Electric cartridges are used today mainly as a supplement to heat pumps for additional heating.

**EK 13**
EK 13 has an output of 13 kW, divided into three steps, 6+4+3 kW. A main switch, time delay and fused power outlet for a circulation pump are built in.

**EK 15 E**
EK 15 E has an output of 14.7 kW, divided into seven steps, 7x2.1 kW. A main switch, time delay and load guard are built in. The cartridge has 0-10 V control, which means that it is suitable as backup for a heat pump.

**UTK E**
A UTK E outdoor temperature compensator is available for EK 15 E to control the flow temperature as a function of the outdoor temperature.

**ACCESSORIES**
- EP VP, control the cartridges output from a heat pump with binary control of additional heating (EK 15 E).
- UTK-E, outdoor temperature compensator (EK 15E).
- VBB 12 TX, load guard (EK 13).

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**K-060**

K-060 is an insulated container for immersion heaters. All immersion heaters with R50 connection and maximum insertion length 470 mm can be installed in the container, i.e. from 1.5 kW to 9 kW.

<table>
<thead>
<tr>
<th>Electric cartridge</th>
<th>RSK no.</th>
<th>Power (kW)</th>
<th>Weight (kg)</th>
<th>Volume (l)</th>
<th>Pressure (bar)</th>
<th>Enc. class</th>
<th>Conn. diff.*</th>
<th>Temp. range (°C)</th>
<th>Main switch</th>
<th>Time delay</th>
<th>Load guard</th>
<th>Outdoor temp. compensator</th>
</tr>
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<tbody>
<tr>
<td>K-060</td>
<td>621 09 34</td>
<td>1.5-9***</td>
<td>5.7</td>
<td>2.6</td>
<td>1.5**</td>
<td></td>
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<td>30-85</td>
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<td>Yes</td>
<td>Accessory (VBB12TX)</td>
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<td>K-060 Stainless</td>
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<tr>
<td>EK 13</td>
<td>621 10 08</td>
<td>13 (6+4+3)</td>
<td>12.8</td>
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<td>3</td>
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<td>5°</td>
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<td>Accessory (VBB12TX)</td>
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<td>EK 15 E</td>
<td>621 10 11</td>
<td>14.7 (7x2.1)</td>
<td>12.8</td>
<td>4.5</td>
<td>3</td>
<td>IP X1</td>
<td>1°/step</td>
<td>20-95</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Accessory (UTK E)</td>
</tr>
</tbody>
</table>

**Connection difference = temperature difference in °C between thermostat being switched on and off**

**Other pressure classes as ordered**

**Tank K-060 is supplemented with immersion heater 1.5-9 kW.**

Wall brackets are included with all electric cartridges.
Immersion heaters

**VB 1510 - VB 6010**
These immersion heaters are suitable if you need no more than 6 kW or if you want to supplement an F model immersion heater to achieve more power.

**VB 6002 - VB 9002**
If you have heavily loaded main fuses and do not need more than 6 kW, VB 6002 is a good alternative as it has the power divided. Usually only one power stage is connected.

**VB 6003 F - VB 9003 F**
These F models are fitted with time delay for full or half power. They can also be fitted with a load guard, VBB 12 TX, or outdoor temperature compensator, UTK 2000.

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### Immersion heater

<table>
<thead>
<tr>
<th>Immersion heater</th>
<th>RSK no.</th>
<th>Power (kW)</th>
<th>Length (mm)*</th>
<th>Enc. class</th>
<th>Conn. diff.**</th>
<th>Temp. range (°C)</th>
<th>Main switch</th>
<th>Time delay #</th>
<th>Load guard</th>
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<tr>
<td>VB 1510</td>
<td>621 08 86</td>
<td>1.5</td>
<td>295</td>
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<td>7</td>
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<td>VB 2210</td>
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<td>2.25</td>
<td>295</td>
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<td>30-85</td>
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<td>VB 3010</td>
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<td>7</td>
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<td>410</td>
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<td>410</td>
<td>IP X1</td>
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<td>VB 6010 L##</td>
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<td>6</td>
<td>490</td>
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<td>7</td>
<td>30-85</td>
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<td>6 (3+3)</td>
<td>410</td>
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<td>VB 9002</td>
<td>621 08 56</td>
<td>9 (4.5+4.5)</td>
<td>415</td>
<td>IP X1</td>
<td>5</td>
<td>30-85</td>
<td>Yes</td>
<td>Accessory</td>
<td>Accessory (VBB 222)</td>
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<tr>
<td>VB 6003 F</td>
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<td>410</td>
<td>IP X1</td>
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<td>Accessory (VBB 12 TX)</td>
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<tr>
<td>VB 9003 F</td>
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<td>9 (4.5+4.5)</td>
<td>415</td>
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<td>5</td>
<td>30-85</td>
<td>Yes</td>
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<tr>
<td>VB 9003 FL##</td>
<td>621 07 35</td>
<td>9 (4.5+4.5)</td>
<td>480</td>
<td>IP X1</td>
<td>5</td>
<td>30-85</td>
<td>Yes</td>
<td>Accessory</td>
<td>Accessory (VBB 12 TX)</td>
</tr>
</tbody>
</table>

* The insertion length of the immersion heater
** Connection difference = temperature difference in °C between thermostat being switched on and off.
# Recommendation with total power over 6 kW ## With extended inactive part

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* The manufacturer reserves the right to make design changes without notice.
Subject to printing and proofreading errors
# EP 31-350

## Technical data

### 7-stage electric boilers

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<td>6230061</td>
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<td>6230065</td>
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<td>Max. power (kW)</td>
<td>32</td>
<td>42</td>
<td>53</td>
<td>63</td>
<td>70</td>
<td>84</td>
<td>98</td>
<td>119</td>
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<tr>
<td>Voltage (V)</td>
<td>400 V 3N~/400 V 3~</td>
<td>+ external control 230 V~</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Current at max. power (A)</td>
<td>45</td>
<td>61</td>
<td>76</td>
<td>87</td>
<td>101</td>
<td>121</td>
<td>141</td>
<td>172</td>
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<tr>
<td>Power/stage (kW)</td>
<td>4.5</td>
<td>6</td>
<td>7.5</td>
<td>9</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>17</td>
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<td>Cable flange</td>
<td>Coupling Ø 34 mm</td>
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<td></td>
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<tr>
<td>Cable connection mm²</td>
<td>16-95 Cu/Al</td>
<td>35-95 Cu/Al</td>
<td>70-240 Cu/Al</td>
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<td></td>
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<tr>
<td>Water volume/Operating pressure</td>
<td>31 l / 0.6 MPa (6 Bar)</td>
<td>60 l / 0.6 MPa (6 Bar)</td>
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<tr>
<td>Pipe connection, flow/return</td>
<td>R 50 int.</td>
<td>DN 80 PN 16</td>
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<tr>
<td>Safety pipe</td>
<td>R25 ext.</td>
<td></td>
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<tr>
<td>Height x width x depth (mm)</td>
<td>1105 x 455 x 540 + pipe connections</td>
<td>1390 x 504 x 670 + pipe connections</td>
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<td></td>
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<tr>
<td>Weight, not filled with water (kg)</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>135</td>
<td>140</td>
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<td>145</td>
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<td>Min. roof height* (mm)</td>
<td>1720</td>
<td>1700</td>
<td>1700</td>
<td>1720</td>
<td>1805</td>
<td>1805</td>
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### 15-stage electric boilers

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<td>6230069</td>
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<td>6230077</td>
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<tr>
<td>Max. power (kW)</td>
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<td>90</td>
<td>99</td>
<td>113</td>
<td>135</td>
<td>150</td>
<td>180</td>
<td>225</td>
<td>255</td>
<td>270</td>
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<td>350</td>
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<td>Voltage (V)</td>
<td>400V 3N~/400 V 3~</td>
<td>+ external control 230V~</td>
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<tr>
<td>Current at max. power (A)</td>
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<td>130</td>
<td>143</td>
<td>162</td>
<td>195</td>
<td>217</td>
<td>260</td>
<td>325</td>
<td>368</td>
<td>390</td>
<td>433</td>
<td>505</td>
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<td>Power/stage (kW)</td>
<td>4.5</td>
<td>6</td>
<td>6.6</td>
<td>7.5</td>
<td>9</td>
<td>10</td>
<td>12</td>
<td>15</td>
<td>17</td>
<td>18</td>
<td>20</td>
<td>23.3</td>
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<td>Cable flange</td>
<td>KF 121-60 max Ø 60 mm</td>
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<tr>
<td>Cable connection mm²</td>
<td>35-95 Cu/Al</td>
<td>70-240 Cu/Al</td>
<td>2 x 95-240 Cu/Al, PEN or 5 cores</td>
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<tr>
<td>Water volume (litre)</td>
<td>60 l / 0.6 MPa (6 Bar)</td>
<td>180 l / 0.6 MPa (6 Bar)</td>
<td></td>
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</tr>
<tr>
<td>Pipe connection, flow/return</td>
<td>DN 80 PN 16</td>
<td>DN 100 PN 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Safety pipe</td>
<td>2xR25 ext.</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Height x width x depth (mm)</td>
<td>1390 x 504 x 670 + pipe connections</td>
<td>1655 x 622 x 885 + pipe connections</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Weight, not filled with water (kg)</td>
<td>140</td>
<td>140</td>
<td>140</td>
<td>140</td>
<td>230</td>
<td>230</td>
<td>260</td>
<td>260</td>
<td>270</td>
<td>270</td>
<td>275</td>
<td>275</td>
</tr>
<tr>
<td>Min. roof height* (mm)</td>
<td>1825</td>
<td>1805</td>
<td>1825</td>
<td>1825</td>
<td>2170</td>
<td>2370</td>
<td>2150</td>
<td>2370</td>
<td>2170</td>
<td>2170</td>
<td>2370</td>
<td>2430</td>
</tr>
</tbody>
</table>

* Roof height may not be less than this dimension to allow any immersion heater replacement to take place.

---

The manufacturer reserves the right to make design changes without notice.
Subject to printing and proofreading errors.
1. Flow line
2. Return line
3. Safety pipe
4. Drain cock, R15
6. Cable flange
7. Main switch with shunt solution
8. Power stage fuses
9. Contactors
12. Control fuse
13. Motherboard
22. Cable openings
24. Adjustable foot bolts

ACCESSORIES

- Safety equipment
- UTK, outdoor temp. compensator
- Series controller
- Secondary temp. controller
- Internal cooling fan

The manufacturer reserves the right to make design changes without notice.
Subject to printing and proofreading errors
## EP 450-750

### Technical data

For technical data and drawings of connectable boilers, please contact Värmebaronen.

1. Flow pipe
2. Return pipe
3. Safety pipe
4. Drain cock, R15
6. Cable flange
22. Cable openings
24. Adjustable foot bolts

For technical data and drawings of connectable boilers, please contact Värmebaronen.

### ACCESSORIES
- Safety equipment
- UTK, outdoor temp. compensator
- Series controller
- Secondary temp. controller
- Internal cooling fan

### Technical Specifications

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<tbody>
<tr>
<td>RSK no.</td>
<td>6230056</td>
<td>6230057</td>
<td>6230058</td>
<td>6230059</td>
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<tr>
<td>Power (kW)</td>
<td>450</td>
<td>510</td>
<td>540</td>
<td>600</td>
<td>750</td>
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<tr>
<td>Voltage (V)</td>
<td>400 V 3N~/400 V3~*</td>
<td>690 V 3~</td>
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<tr>
<td>Current (A)</td>
<td>648</td>
<td>735</td>
<td>778</td>
<td>865</td>
<td>628</td>
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<tr>
<td>Power/stage (kW)</td>
<td>15</td>
<td>17</td>
<td>18</td>
<td>20</td>
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<tr>
<td>Cable flange</td>
<td>2xFL 33 2xØ 60 mm</td>
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<tr>
<td>Cable connection</td>
<td>4 x 95-240 Cu/Al, PEN or 5 cores</td>
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<tr>
<td>Water volume/Operating pressure</td>
<td>315 l / 0.6 MPa (6 bar)</td>
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<tr>
<td>Pipe connection, flow/return</td>
<td>DN 100 PN 16</td>
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<tr>
<td>Safety pipe</td>
<td>2xR32 ext.</td>
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<tr>
<td>Height x width x depth (mm)</td>
<td>See drawing</td>
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<tr>
<td>Weight, not filled with water (kg)</td>
<td>467 470 470 485 480</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Min. roof height **(mm)</td>
<td>2430</td>
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<tr>
<td>Enclosure protection class</td>
<td>IP X1</td>
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</table>

* Also available in 690 Volt version.

** Roof height may not be less than this dimension to allow any immersion heater replacement to take place.

---

The manufacturer reserves the right to make design changes without notice.
Subject to printing and proofreading errors.
EP 26 E, EP 42 E

Technical data

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<th>Type</th>
<th>EP 26 E</th>
<th>EP 42 E</th>
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<td>Power</td>
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<td>42</td>
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<td>Current</td>
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<td>61</td>
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<tr>
<td>Stage size</td>
<td>3.75</td>
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<tr>
<td>Current/stage</td>
<td>5.4</td>
<td>8.7</td>
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<tr>
<td>Cable area</td>
<td>16</td>
<td>25*</td>
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</table>

<table>
<thead>
<tr>
<th>Voltage 400 3N~ V</th>
<th>Frequency 50 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable fitting Ø 37 mm</td>
<td>Water volume 17 l</td>
</tr>
<tr>
<td>Test pressure 5.2 bar</td>
<td>Operating pressure 4** bar</td>
</tr>
</tbody>
</table>

- Enclosure protection class: IP X4
- Pipe connection: R 32 ext.
- Height: 775 mm
- Width: 280 mm
- Depth: 630 mm
- Weight: 50 kg

* With a 5-core cable, the jumper on the zero terminal block is removed
** Other pressure classes as ordered.

1. Flow/safety pipe, R32 ext.
2. Return pipe, R32 ext.
3. Drain valve, R15 int.
4. Immersion heaters.
5. Opening roof plate for access to connection space.
20. Cable openings.
21. Foot bolts.

ACCESSORIES

- EP VP, heat pump controller
- UTK E, outdoor temp. compensator
- Wall brackets

The manufacturer reserves the right to make design changes without notice.
Subject to printing and proofreading errors.
Contact us!

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