HEXflo Plate Heat Exchanger

The HEXflo plate heat exchanger provides an instantaneous supply of domestic hot water to taps and showers in commercial and public sector buildings. If gas fired water heaters are not a suitable or feasible option, due to design or flue restrictions, plate heat exchangers are an effective alternative, offering the benefits of being economical, flexible and easy to install and use, while also saving space.

The primary heating side is fed from a buffer store that can be heated by gas or biomass boilers, immersion heaters or combined heat and power units. HEXflo can be fitted as a single appliance or, if larger volumes of hot water are required, as a cascade of up to four units.

Technical Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall mounted unit</td>
<td>Less space required within the plant room</td>
</tr>
<tr>
<td>Instantaneous delivery of hot water</td>
<td>No chance of hot water storage, reduced risk of legionella growth</td>
</tr>
<tr>
<td>No risk in gas supply required</td>
<td>Flexible location options alter for Vyv and closer installations</td>
</tr>
<tr>
<td>Available as single or cascaded units</td>
<td>Larger volumes of water can be delivered from a small space</td>
</tr>
<tr>
<td>Table top heat exchanger</td>
<td>Fast heat up time allows for speedy delivery of hot water to the outlets</td>
</tr>
<tr>
<td>Compliant with any heat source (boilers, CHP, biomass)</td>
<td>Energy efficient solution for a wide range of applications</td>
</tr>
</tbody>
</table>

Six reasons it has to be Andrews

✅ Britain’s No.1

Ensnifled in 1976, Andrews is the leading supplier of gas fired commercial water heaters in the UK.

Market leading expertise

As active members of CIBSE, SOPHE and ICOM, we are at the forefront of setting industry standards.

Industry leading products

Our product range continues to evolve, keeping you at the forefront of changing legislation and building regulations.

Unrivalled design support

Technical data sheets, BIM, CAD and Size-It programmes are available online 24 hours a day, 365 days a year.

Expert technical advice

Our dedicated team offers on and off site assistance, including expert advice on layout design and hydraulic schematics.

Exceptional aftersales service

We can rely on our support every step of the way from planning and commissioning to servicing and maintenance.
Specifications

- **Technical data**
  - Maximum continuous operating temperature: 95°C
- **Primary circuit**
  - Maximum output operating pressure: 30 bar
  - Kit value: 0.5
  - Operating pressure check valve: 35 mbar
  - Flow: Heating circuit
  - Flow: Maximum flow rate: 60 l/min
- **Secondary circuit**
  - Maximum output operating pressure: 30 bar
  - Flow: 25 l/min

**Sizing Guide**

<table>
<thead>
<tr>
<th>Maximum DHW flow @60°C (l/min)</th>
<th>30</th>
<th>60</th>
<th>90</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating required buffer storage volume (l)</td>
<td>770</td>
<td>900</td>
<td>1400</td>
<td></td>
</tr>
<tr>
<td>Buffer storage power (kW)</td>
<td>70</td>
<td>140</td>
<td>210</td>
<td>280</td>
</tr>
<tr>
<td>Assigned flow from back-up heat sources (l/min)</td>
<td>30</td>
<td>60</td>
<td>90</td>
<td>120</td>
</tr>
<tr>
<td>Number of stations required</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Cascade control kit</td>
<td>A 82</td>
<td>B 83</td>
<td>C 84</td>
<td></td>
</tr>
</tbody>
</table>

This table is designed as a rough guide. There are many variables and it does not replace the need for full planning and sizing. The table compares typical buffer storage size against required station power to achieve 60°C domestic hot water temperature at a given flow rate. It is important to take into account blended system diversity or coincidence factors when calculating the peak volume flow.

**Accessories**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cascade K2 control pack</td>
<td>5142676</td>
</tr>
<tr>
<td>Cascade K3 control pack</td>
<td>5142677</td>
</tr>
<tr>
<td>Cascade K4 control pack</td>
<td>5142678</td>
</tr>
<tr>
<td>K connection kit</td>
<td>5142679</td>
</tr>
<tr>
<td>Cascade mounting frame</td>
<td>5142801</td>
</tr>
</tbody>
</table>

**Cascade Mounting Frame**

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows for quick assembly without the need for drilling walls</td>
<td>Saves time on site</td>
</tr>
<tr>
<td>Can be assembled using back-to-back cascade configurations</td>
<td>Smaller footprint enables installation within the plantroom</td>
</tr>
<tr>
<td>Flow Energy allows the frame to be secured away from the wall to allow mechanical and electrical services to pass behind and in front of the unit</td>
<td>Saves time not having to re-route pipes or cables</td>
</tr>
<tr>
<td>Supplied with an integral hatch for easy access to HEXflo KX and equipment</td>
<td>Allows quick and easy dematerialisation</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>56 kW</th>
<th>86 kW</th>
</tr>
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<tbody>
<tr>
<td>W 500</td>
<td>W 800</td>
</tr>
<tr>
<td>H 860</td>
<td>H 1000</td>
</tr>
</tbody>
</table>

**Features**

- **Sizing of buffer storage**
  - Reduces heat losses, improves energy efficiency and cost savings
- **Inursion booster tubes**
  - Allows electrical immersion heater to be easily installed for a secondary back-up heat source, reducing the risk of down time in the event of a primary circuit heat source failure
- **Internal water separation plates**
  - Allows the use of high temperature and low temperature water to be used via different heat sources which can help to reduce running costs

**Schematic**

- **Heating Buffer Tanks**

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>600</th>
<th>800</th>
<th>1000</th>
</tr>
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<tbody>
<tr>
<td>Nominal content</td>
<td>L</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>Connection size</td>
<td>mms</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>A</td>
<td>Connection 1, 2 &amp; 3</td>
<td>mms</td>
<td>50</td>
</tr>
<tr>
<td>B</td>
<td>Connection 4 &amp; 5</td>
<td>mms</td>
<td>110</td>
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<tr>
<td>C</td>
<td>Connection 6 &amp; 7</td>
<td>mms</td>
<td>110</td>
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<tr>
<td>D</td>
<td>Connection 8 &amp; 9</td>
<td>mms</td>
<td>140</td>
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<tr>
<td>E</td>
<td>Connection 10 &amp; 11</td>
<td>mms</td>
<td>175</td>
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<tr>
<td>F</td>
<td>Total height</td>
<td>mms</td>
<td>900</td>
</tr>
<tr>
<td>G</td>
<td>Internal water separation plate</td>
<td>mms</td>
<td>100</td>
</tr>
<tr>
<td>H</td>
<td>Weight</td>
<td>kg</td>
<td>22</td>
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Andrews Water Heaters offer a range of buffer tanks for the storage of heating water for use with HEXflo plate heat exchangers. Heat can be supplied via commercial boiler plant, biomass boilers and or solar thermal collectors. The buffer tanks have additional connections for further heat generators where multiple heating sources exist in complex systems.

**Features**

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- **Inursion booster tubes**
- **Internal water separation plates**

**Benefits**

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