

Six reasons it has to be Andrews

✔ Britain's No.1

Established 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 is continually evolving, keeping our customers one step ahead 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 system design and hydraulic schematics.

✔ Exceptional aftersales service

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

All the technical information you need is easy to find on our website, using your smart phone, tablet or PC:

- BIM files
- CAD files
- Brochures
- Technical specification sheets
- Case studies
- Installation manuals
- User guides
- Size-It Tool

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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



Features

- Wall mounted unit
- Instantaneous delivery of hot water
- No flue or gas supply required
- Available as single or cascade unit options
- 56kW brazed heat exchanger
- Compatible with any heat source (boilers, CHP, biomass)

Benefits

- Less space required within the plant room
- No domestic hot water storage vessel required meaning less space is required in the plant room
- Flexible location options allow for quicker and cheaper installation
- Larger volumes of water can be delivered from a small space
- Fast heat up time allows for speedy delivery of hot water to the outlets
- Energy efficient solution for a wide range of applications



Specifications

| | | 56 kW / A100 |
|--------------------------|---|--------------------|
| Technical data | Maximum continuous operating temperature | 95°C |
| Primary circuit | Maximum excess operating pressure | 6 bar |
| | Kv value | 3.6 |
| | Opening pressure check valve | 35 mbar |
| | Fluid | Heating circuit |
| | Pump type | Wilo AS 15/6-3 |
| | Maximum power consumption | 93 watts |
| Secondary circuit | Maximum excess operating pressure | 10 bar |
| | Kv value | 3.1 |
| | Fluid | Potable water |
| | Pump type | Wilo ZRS 15/4-3 Ku |
| | Power consumption pump (speed 3) | 55 watts |
| | Heat exchanger | Brazed copper |
| | Weight | 24.59 kg |

Dimensions

| 56 kW | |
|-------|-----|
| [mm] | |
| D | 260 |
| W | 500 |
| H | 860 |

Sizing Guide

| | | | | |
|---|-----|-----|------|------|
| Maximum DHW flow @60°C (l/min) | 30 | 60 | 90 | 120 |
| Minimum required buffer storage volume (litres) | 500 | 800 | 1200 | 1500 |
| Buffer storage power (kW) | 70 | 140 | 210 | 280 |
| Required power from back-up heat sources (kW) | 30 | 60 | 90 | 120 |
| Number of stations required | 1 | 2 | 3 | 4 |
| Cascade control set | 0 | K2 | K3 | K4 |

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 sizes against required boiler 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

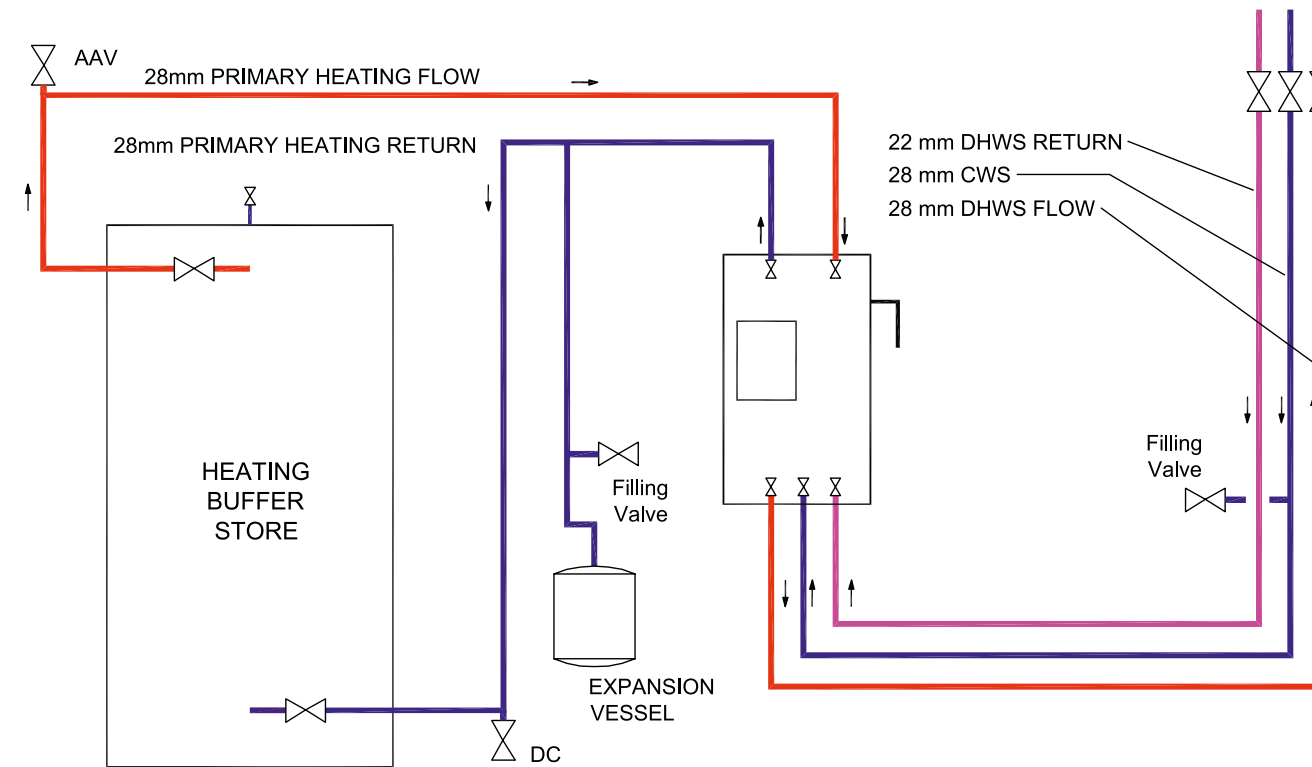
| 56 kW | |
|-------------------------|---------|
| Description | Part No |
| Cascade K2 control pack | 5142676 |
| Cascade K3 control pack | 5142677 |
| Cascade K4 control pack | 5142678 |
| K connection kit | 5142679 |
| Cascade mounting frame | 5142801 |

Cascade Mounting Frame

| Features | Benefits |
|---|---|
| Allows for quick assembly without the need for drilling walls | Saves time on site |
| Can be assembled using back to back cascade configurations | Smaller footprint requirements within the plantroom |
| Floor fixings allow the frame to be securely fixed away from a wall to allow mechanical and electrical services to pass behind the unit | Saves time not having to re-route pipes or cables |
| Supplied with all mountings for the HEXflo unit, cascade kit and pipework | To allow quick and easy installation |



HEXflo schematic



Heating Buffer Tanks

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.



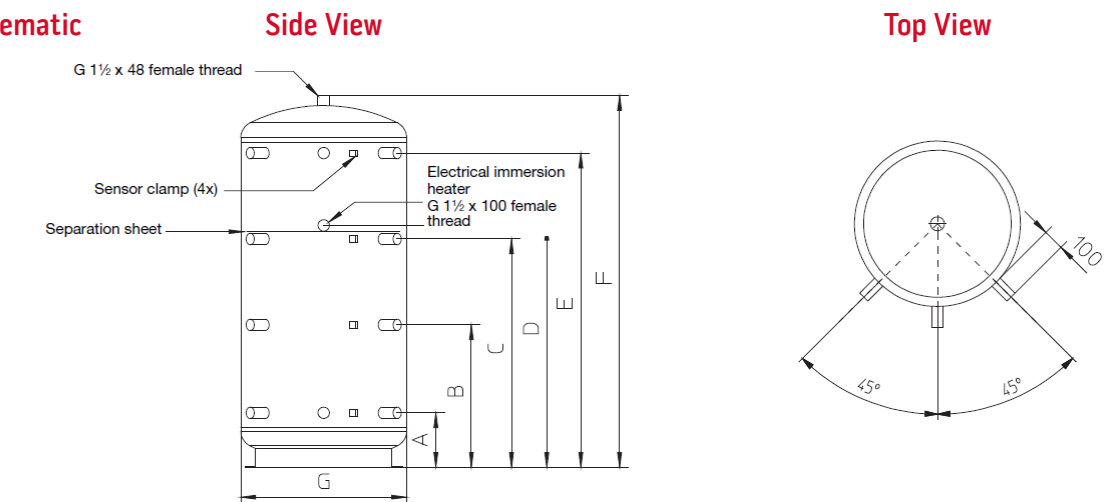
Features

100mm foam insulation
Immersion heater boss
Internal water separation plates
Clean out door

Benefits

Reduces heat losses, improves energy efficiency and cost savings
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
Allows the use of high temperature and low temperature water to be used via different heat sources which can help to reduce running costs
Ease of access for servicing and cleaning

Schematic



Technical Data

| Drawing Ref. | Part Number | | Model | | | Connection size |
|--------------|-------------------------------|----|-------|------|------|-----------------|
| | | | 800 | 900 | 1500 | |
| | Nominal content | L | 770 | 900 | 1400 | |
| A | Connection 1, 2, 3 | mm | 260 | 260 | 380 | DN40 G 1.5" F |
| B | Connection 4 & 5 | mm | 680 | 760 | 825 | DN41 G 1.5" F |
| C | Connection 6 & 7 | mm | 1090 | 1260 | 1350 | DN42 G 1.5" F |
| D | Immersion heater | mm | 1155 | 1340 | 1475 | DN43 G 1.5" F |
| E | Connection 8, 9, 10 | mm | 1500 | 1770 | 1760 | DN44 G 1.5" F |
| F | Total height | mm | 1775 | 2058 | 2097 | |
| G | Diameter (without insulation) | mm | 790 | 790 | 1000 | |
| | Diameter (with insulation) | mm | 990 | 990 | 1200 | |
| | Weight (empty) | kg | 122 | 134 | 206 | |

