

Vari-E-Breeze DHW instantaneous water heater



Sustainability is the key driver for developing the latest generation of Vari-E-Breeze Instantaneous Water Heaters. Advances in control technology, thermal performance and the addition of Aquatherm piping result in a complete package that is not only highly efficient but also easily operated with no nonsense plug and play features.

Control Technology

Fitted with PLC controls the Vari-E-Breeze is extremely versatile and can be configured to meet specific site requirements. The use of coloured touch screen technology ensures that the operator can easily adjust parameters and view a clear mimic illustrating the operational condition of the equipment.

Thermal Performance

Vari-E-Breeze incorporates highly efficient austenitic stainless steel plate heat exchangers. The thermal geometry of the design ensures that the external exchanger surface temperatures are kept to a minimum. Although available with insulation jackets the internal Vari-E-Breeze thermal barrier is so efficient that when used with LTHW primary systems the exchanger frame end plates can be touched without fear of burning. Frame surface temperatures of 43°C were recorded under test conditions.

Aquatherm Pipe Work

Although available in other materials, the first choice for Vari-E-Breeze is the highly efficient Aquatherm piping system. Aquatherm pipe delivers reduced hydraulic resistance and greater thermal insulation.

Class 'A' Efficient Pumps

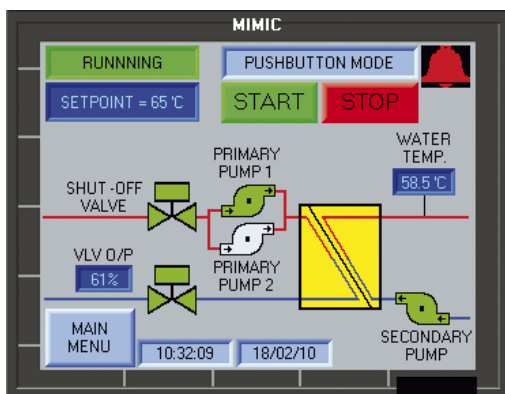
All Vari-E-Breeze plate heat exchanger packages are supplied with class 'A', electronically controlled, inverter driven pumps.

Why choose the Vari-E-Breeze ?

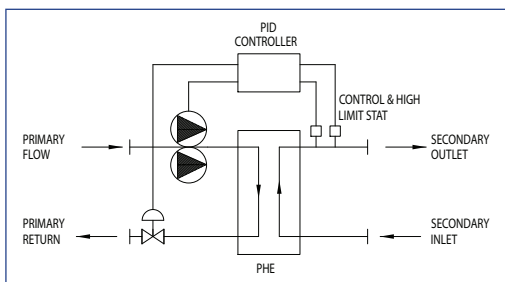
The new Vari-E-Breeze combines sustainable technologies and a user friendly interface. Both mechanical and electrical elements of the package have been designed and selected to make the Vari-E-Breeze one of the most efficient heat exchanger systems available.

The unit is ideally suited for either instantaneous use or in conjunction with a buffer vessel. All Vari-E-Breeze are manufactured in the UK by Ormandy Rycroft. Full technical and after sales support is readily available.

Typical MIMIC screen



Typical schematic



Vari-E-Breeze achieves superior overall efficiencies by

Reducing standing losses by inclusion of internal thermal barriers. Convection losses can be reduced by up to 25%. (Un-lagged comparison with ambient temperatures of 10°C)

Reduced electrical consumption by utilising inverter driven pumps. Depending upon application, electricity consumption can be reduced by up to 45% when compared with a standard unit fitted with fixed speed pumps.

The variable primary flow system ensures that the primary return is held at a low temperature providing the best conditions for use in conjunction with condensing boilers.

Applications

The Vari-E-Breeze is the perfect choice for all commercial applications including: offices, hospitals, schools, residential, prisons and many more.

Controller Features

- Colour touchscreen technology
- Extremely user friendly with menu driven screens
- Change parameters at a touch
- Temperature re-transmission
- Remote setpoint adjustment
- Start/Stop via pushbuttons, remote off/on, time clock
- Night setback and/or pasteurisation timers
- Planned maintenance/run time counters
- Alarm history
- Volt free alarm contacts
- All parameters pre-programmed for 'plug and play'
- PLC based controller
- Can be programmed to suit any application
- Expandable up to 512 I/O
- Ports available to talk over ethernet/serial comms
- SMS messaging available

To specify the Vari-E-Breeze to suit your individual application, please contact Ormandy Rycroft

Please visit www.rycroft.com to access comprehensive information on Ormandy Rycroft products and services.

The Ormandy Group: Ormandy Offsite / Ormandy Rycroft / Ormandy Electric Ormandy H&S Boilers / Ormandy Newade / Ormandy Dreh / Ormandy Aquatherm

For full information on the Ormandy Group and all its products and services, please visit www.ormandydtd.com Tel +44 (0)1422 350111



Ormandy Rycroft, Duncombe Road, Bradford, BD8 9TB England

Tel +44 (0)1274 490911 Email sales@rycroft.com