



2021 RANGE UPDATE THE HEAT PUMP SPECIALISTS

Commercial & Industrial Heat Pump applications are now demanding levels of performance that have not previously been required. This need is driven by Heat Pumps being increasingly applied as the primary means of heating rather than as a heating contributor to meet a renewables target.

Hence Heat Pump Technology has had to move forward onto the next level...

- **Retrofit and New Projects require HIGH temperature 70C+ outputs**
- **District Heating schemes call for 1000kW+ capacities**
- **Sustainable projects need LOW GWP/Natural refrigerant systems**
- **Retrofit Heat Pump applications demand extremely LOW noise levels**

Pure Thermal are the Heat Pump Specialists delivering the highest performing commercial & industrial ranges whilst providing the specifier/designer with focused application support from first stage design onwards.

To provide an update for 2021 we have summarised our key ranges below to illustrate capability and performance.

For application specific details please contact our Support Team at info@purethermal.co.uk or call us on **02034884618**.

HIGH TEMPERATURE HEAT PUMPS

We now have two ranges of High Temperature Heat Pumps available for both **RETROFIT** and **NEW** Projects.

Select from either **Pure OHT** or **Pure PLUS** and provide a project with the highest level of performance and flexibility:

90C 2000kW

Pure OHT 75C

The **OHT** range provides the specifier with a range of **AIR SOURCE** and **WATER/GROUND** Source Heat Pumps for applications up to 600kW

Low GWP refrigerant and output capability of 75C at -5C external ambients along with sliding set point functionality delivers the highest levels of efficiency

Pure PLUS 90C

The **PLUS** range moves heat pumps to the next level with capacities to 2000kW in either **AIR** or **WATER/GROUND** Source configuration

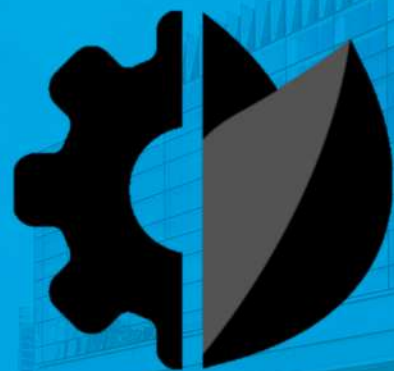
Output temperature capability of 90C at -10C with class leading efficiency and Low GWP options make the **PLUS** range suitable for the widest range of applications

- **RETROFIT BOILER REPLACEMENT**
- **DISTRICT HEATING**
- **HOT WATER PRODUCTION**

NATURAL REFRIGERANT HEAT PUMPS

Two ranges of Natural Refrigerant Heat Pumps are available from Pure Thermal with the ability to provide both Heating and Hot Water.

Delivering the most sustainable Heat Pump systems the Pure Hydrocarbon or Pure CO2 ranges provide an efficient and high performing selection alternatives for demanding projects.



Pure Hydrocarbon HC

Offering output temperatures to 62C with multi-circuit configuration the **Pure HC** range is available in either **AIR** or **WATER/GROUND** Source configurations

With a Global Warming Potential of 3 the **HC** range operates in either heating only or reversible configuration to provide maximum application flexibility from 30kW to 900kW

Pure Heat CO2

Ideal for Hot Water Production and capable of 90C performance in either **AIR** or **WATER/GROUND** Source format with a GWP of 1

Capable of accumulating high grade heat via **PURE THERMAL BATTERIES** the **CO2** range enables the user to utilise low cost and low carbon input power to increase site sustainability

- **HIGHEST SUSTAINABILITY**
- **BREEAM OPTIMISED**
- **NON F-GAS**

LOW NOISE HEAT PUMPS

Retrofit heat pump projects have not been designed with Air Source Heat Pumps in mind and certain new projects would also benefit from Super Silent Heat Pumps. These projects and applications normally require equipment to operate with Sound Power levels below 65dba.

Hence to apply Heat Pumps within these applications calls for extensive and costly after-market acoustic treatment of standard low noise units. Alternatively Super Silent Heat Pumps can be selected that are capable of meeting the requirements of these low noise retrofit applications in standard format.



Pure Super Silent LN

The **Super Silent** range provides an Extremely Low Noise Heat Pump that is able to operate below the most stringent noise levels.

Sound Power Level options are available at either 62dba or 58dba to meet project demands. The range is available in either Medium Temperature 55C or High Temperature 80C configuration up to 300kW capacity with an external operating temperature range from -10C to 40C.

- **REMOVE NOISE ISSUES**
- **WIDEN HEAT PUMP USE**
- **ENABLE RETROFIT APPLICATIONS**

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