

Dravo

CONDENSAIRE

PCH SERIES CONDENSING GAS FIRED HEATING MODULES FOR AIR HANDLING UNITS



ULTRA HIGH EFFICIENCY

The Condensaire heating modules, for installation in air handling units, have 14 models which give outputs from 5 – 400kW.

The main benefits include:

- Modulation down to 20% of full load.
- Up to 109% net thermal efficiency.
- Registered on the Energy Technology List ETL for claiming Enhanced Capital Allowance ECA.
- High efficiency means that the modules are BREEAM points qualifying.
- Available in natural gas (G20) or LPG (G31).
- Microprocessor based controls give continuous modulation via a 0-10V input signal or laptop dial up systems can be utilised.

CLEAN COMBUSTION

The Condensaire burners are fully premixed. The precisely regulated air and gas mix results in:

- NO emissions of carbon monoxide (CO = 0).
- Very low emission of nitrogen oxides, below 30 parts per million (NOx < 30 ppm), make the Condensaire a class 5 product.
- Low emission of carbon dioxide, due to high combustion efficiency (109%).
- Reduction of fuel consumption arising from heat output modulation.

INDIRECT HEAT EXCHANGER

The Condensaire heat exchangers transfer heat to the air stream indirectly. The advantages of this are:

- Products of combustion are kept separate from the supply air.
- AHU flues can be arranged as type B or type C appliances.
- Lack of thermal inertia gives rise to very quick heat up times.
- Modules are built with environmentally friendly, recyclable, materials such as stainless steel and aluminium.
- Condensate drain points are fitted as standard.

NO NEED FOR A WATER BATTERY AND BOILER HEAT PLANT

The main advantages of Condensaire heat exchangers over traditional wet systems are:

- Savings on capital plant and building costs, no need for boilers, pumps, safety and regulation devices, wet distribution mains and masonry work.
- Less space is required, AHUs can be smaller and less plant equipment is needed.
- No need for plant certification, the Condensaire module is already fully CE certified.
- Problems associated with water pipework freezing is eliminated.



Authorised User No. 00138

