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SUSTAINABLE HEATING FOR AGRICULTURAL SPECIALISTS

Agricultural machinery specialist P. Tuckwell Ltd, based in Essex, has fitted high efficiency, low carbon, air source heat pumps to its new showroom in Colchester. The new system offers the company maximum operating efficiency with minimal impact on the environment.

Consisting of two 43kW Ecodan[®] CAHV Air Source Heat Pumps (ASHP) from market leader, Mitsubishi Electric, the system provides a sustainable energy source for all the showroom's heating and hot water requirements.

Installed by Midlands-based renewable energy specialists, Climate and Power Ltd, the heat pumps harvest renewable heat from the outside air, upgrades it to a useful temperature, then transfers it via a plate heat exchanger to heat the water to provide underfloor heating to the 700 sq. ft showroom. The system also supplies hot water for the radiators used to heat the offices.

“Our other buildings use oil-fired heating, but we're very aware that fossil fuel resources are finite and supplies are dwindling,” said James Tuckwell, Joint Managing Director of P. Tuckwell Ltd. “We looked briefly at the possibility of mains gas, but due to our location we would need to install a mains pipe which is rather costly.

“Following the installation of the Ecodans we have seen a definite reduction in our energy consumption and quarterly bills. The heat pumps have helped to reduce our carbon emissions too and introduced an element of future-proofing to the building.”

[/more](#)



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The system at Tuckwell is capable of delivering 86kW at -3°C, with minimal drop off down to -20°C including defrost. For every 1kW of electricity used to power an ASHP, up to 3.2kW's of heat can be delivered to the building; 69% of which is renewable energy.

Ecodan CAHV heat pumps can operate as a single unit or as part of a multiple unit system. When installed in multiples the units can cascade on and off to optimise performance and deliver peak efficiency.

Mitsubishi Electric's monobloc systems are designed to meet even the most dynamic load requirements allowing output capacity to increase in 0.5kW increments, from 18kW all the way up to 688kW. This produces a level of modulation that is unprecedented within the heating industry.

"The new system works really well for us, and provides a nice even temperature throughout the offices and showroom," said Mr Tuckwell.

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Founded in 1921, Mitsubishi Electric is a global, market leading, environmental technologies manufacturer, producing an advanced range of heating, air conditioning and ventilation equipment. The company realises that ensuring the right solutions are selected for each individual building, requires collaboration by all involved. Mitsubishi Electric has therefore changed the way it does business to ensure engagement with all involved in delivering sustainable buildings so that together, we can make a world of difference.

Mitsubishi Electric's Ecodan air source heat pump boilers are covered by the Enhanced Capital Allowance (ECA) Scheme, which is part of the Government's programme to manage climate change. The Scheme enables companies to claim a 100% first year capital allowance on any investments in approved energy saving equipment, against the taxable profits of the period of investment.

The heat pump boilers have also been certified by the Microgeneration Certification Scheme (MCS) which ensures the product has passed rigorous and testing criteria. MCS denotes quality and reliability and the certification assessment covers both the manufacturing process and materials used.

For further information on Climate and Power Ltd visit www.climateandpower.co.uk or call Neil Edmunds on 07837 544 979.

For further information on Mitsubishi Electric Ecodan heat pump boilers visit <http://heating.mitsubishielectric.co.uk>

Note to editor: For further press information contact Russell Jones on 020 8647 4467.

Further Notes: All colour separation enquiries will be processed by email only. Please send all requests to sep@garnettkeeler.com.