Press Release

2008-10-10

Zubadan air-to-water heat pump with 100% capacity at -15 °C

With a heat pump you are completely independent of gas and oil prices – this is an air-to-water heat pump, which is at the same time, a safe, environmentally sound and energy-efficient alternative. Being a market leader in this sector, Mitsubishi Electric has developed an innovative air-to-water heat pump which has been selling successfully since autumn 2008. No other unit has a comparably high efficiency - even on icy-cold winter days. Even at a temperature of -15 °C no additional electrical heater is required. The Zubadan heat pump ensures 100% energy-efficient heating even at icy temperatures, where other conventional heat pumps only achieve 60%.

The name says it all

The name is self-explanatory: Zubadan is Japanese and means “super-heating”. Thus, in using the Zubadan heat pump, your room is nice and cosy within a few minutes. The Zubadan heat pump was designed by Mitsubishi Electric for heating living space and small commercial space. Thanks to its special flash-injection technology the pump even works at outdoor temperatures of freezing -25 °C.

How does it work?

The principle of this energy-efficient air-to-water heat pump is quite simple: It extracts heat energy from outside air – this also

works at temperatures below zero – which is processed to the house for conventional and drinking water heating. Of 3kW solar energy contained in the air and 1kW gained from the power supply network a heat output of 4 kW is achieved.

What fields of application are there?

The Mitsubishi Electric Zubadan heat pump comes with capacities of 8.0 kW, 11.2 kW and 14.0 kW, all in the same dimensions: 94 cm wide, 135 cm high and 33 cm deep – thus there will always be a spare space in the house, in the garden or on the roof. The Zubadan heat pump can operate for existing heaters and also power floor heatings or swimming pools. Besides, it can also be used for hot water supply. The system is interesting for both – restoration of old buildings and new projects alike – especially in the field of new buildings it provides great benefits: in his planning the builder or architect does not need to provide for boiler room, gas connection nor chimney.

Favourable Eco-balance – heat pumps are promotion worthy

Moreover, they have a favourable eco-balance: not only energy-efficiency but also the aspect of environmental protection is rewarded by the German government. High-performing heat pumps contribute to a substantial reduction of CO_2 emissions.

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