

Toshiba Solutions

Digital Inverter performance suits a wide variety of applications

Case Study: Digital Inverter

Completed installations include a prestigious advertising and post production facility in London's West End, a London hospital, and a laboratory in the Home Counties. Air delivery is via cassettes, ducted, and high-wall units.



Application

The sophisticated inverter system technology produces the most efficient split unit - and this is recognised by the client. The Digital Inverter uses microprocessors to control the compressor speed, modifying the frequency of the power applied. Once the setpoint temperature is reached, much faster than before, the inverter maintains the temperature precisely, without excessive power consumption. The on/off sequence of single-speed compressors is a thing of the past.

Toshiba invented inverter technology for 5 to 14 kW applications, and refined it to meet legislative and environmental demands of the current and anticipated future market. The units qualify for the UK Government's Enhanced Capital Allowance Scheme.



The solution

In the **advertising company's** offices two outdoor units are supplying two of the new-style cassettes. One of the major attractions of this new Toshiba split system, ably demonstrated by the installation engineer, was the ease of access provided by the unit for both maintenance and installation. Using a key device the final position of the unit can be adjusted during installation after the suspended ceiling has been put in place and without disturbing or risking marking any of the tiles. This adds greatly to the flexibility of the product in construction or refurbishment project phasing.

In the office application the client praises the product's extreme quietness and draught prevention. Even with the cover off and the fan operating at full speed it cannot be detected by anyone standing below it.

In the **hospital ward**, even more than in the offices, the light and compact outdoor units made installation on a small roof easier. This application uses a ducted indoor unit and is as quiet as the cassette.

In the **laboratory** the latest Toshiba high-wall indoor unit delivers cooled highly filtered air from a 5 kW Digital Inverter unit to an environmentally sensitive area.

The Toshiba Digital Inverter offers energy savings, efficient operation and improved comfort conditions. Toshiba's digital inverter driven systems are up to 40 percent more efficient than non-inverter types. Sizes range from 5 kW to 14 kW* when cooling. Installation has been simplified by designing the systems for 5/8" diameter piping where possible. This means lower material costs and easier handling characteristics than 3/4" piping.

*Capacities are based on Eurovent conditions.

"Early in its life this product can be considered a success."



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