

CATTANI

Suction is SMARTER with an inverter



Cattani's inverter control technology is a true innovation in the field of dentistry.

Cattani pioneered the introduction of inverter control technology to dental suction systems in 2006 with the Turbo SMART suction system. Since then, we have continued to refine and develop this technology with ultimate reliability as the pure focus, while we have also developed other models to join the SMART suction range.

All of Cattani's SMART suction systems use inverter technology, from the Micro SMART (1-2 users), Turbo SMART (2-4 users), Maxi SMART (15+ users) right through to our large systems for universities and hospitals (100, 200, 300+ users).

What is inverter control?

Inverter control optimises performance and efficiency.

The principle is simple: the inverter is an electronic control that can vary the speed, and therefore the output, of the electric suction pump. It adjusts the power used to suit the actual requirements of the clinic – no more, no less! This technology provides you with a number of clear benefits:

Consistent high performance: Dental clinics vary in size. Consequently the requirements on the suction system will constantly change dependent on a number of variables such as the number of simultaneous users, what size suction tip is being used, the amount of fluid being aspirated, etc. The inverter monitors and senses these changes, instantly adapting the output to ensure that high airflow performance is constantly maintained.

Energy efficient: With a traditional non-inverter on/off system, when there are a lower number of simultaneous users, the suction pump does not realise this condition and continues to produce performance to cater for the maximum number of users. What happens to the airflow performance that is not required? It is wasted energy in the form of extra power consumption and heat, not to mention unwanted spikes with excessive air flow performance. As an inverter monitors and adjusts accordingly i.e. slows the speed of the suction pump, energy consumption drops significantly.

Simple capacity expansion: Connecting a number of suction systems together in parallel to increase the overall capacity of the suction system is a plug and play exercise with inverter control. With the inverters all monitoring the same system and working together in harmony, there is no need for any additional expensive, complex, electrical equipment, which is a requirement with traditional non-inverter on/off systems. This functionality can be applied to increase a system's capacity for larger clinic applications; or to add redundancy to a system by installing two smaller suction pumps in parallel, rather than one larger unit for example.



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