

MAXI-SMART AND BLOK-JET SILENT 2

For over twenty years, Cattani has been doing research and is currently up-to-date with the latest technology.

The primary purpose of research is to constantly improve our products: building machines that are increasingly flexible, safer, less expensive to buy and, most importantly, to run and service.

In addition, Cattani has followed a personal evolution path, based on scientific and technological research, with focus on sustainable growth and on solutions that allow us to save on raw materials and energy.

We are presenting two new products: Maxi-Smart and Blok-Jet Silent 2.

Maxi-Smart is a dental surgery suction system, recommended for 15 surgeries running simultaneously.

Description:

- the centrifugal separator replaces both the separator tank and draining pump, thus reducing dimensions and an important part of periodic maintenance;
- the amalgam separator is assembled with the centrifugal separator on top of the suction system and next to the secretion filter, making these two parts very easy to reach for routine maintenance;
- the suction unit is covered and soundproofed, residual vibration is 68 dB (A);
- the control unit contains both the inverter and a small computer;
- the programme includes optional head adjustment,
- automatic flow rate adjustment according to use,
- and remote danger and control warnings;
- Maxi-Smart is the first wet system in a self-contained unit;
- Maxi-Smart is absolutely unique at global level: it is the first large surgery suction system that can control flow rate as well as head;
- with Maxi-Smart simultaneous use no longer means reduced performance: as demand increases, flow rate automatically, instantly increases.

Eco-sustainability

The control unit of Maxi-Smart is complete with an inverter and a small computer with software. VSD and software reduce the stress on the motors, keeping programmed head constant and adapting suction flow rate to demand in real time.

Maximum energy saving is achieved when the system (or aspirator) is underused. In this situation, the fixed speed motor is subjected to greater stress: demand decreases, electrical absorption increases and the motor overheats.

Cattani S.p.A.

Via Natta, 6/A — 43122 Parma — Italy — Tel. +39 0521 607604

SALE DEPT. FAX: +39 0521 607628 — PURCHASING DEPT. FAX: +39 0521 607855.

ACCOUNTING DEPT. FAX: +39 0521 399966.

<http://www.cattani.it> Email: info@cattani.it Certified mail: cattani@peclife.it

Tax ID and VAT 01720020344 - E. E. C. VAT IT 01720020344 —
Share capital € 1,549,800.00 Fully paid up Econ. Adm. Reg. 173616
Business Register Parma no. 01720020344

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With variable speed aspirators, when demand drops, the VSD and software reduces the motor rotation speed and consequently electrical absorption decreases; energy saving will be proportional to the new demand for suction.

Let's look at an example:

- the suction unit Uni-Jet 500 - 7.5 kW weighs 96 Kg. runs at fixed speed and serves 16 dental units in simultaneous suction;
- on Maxi-Smart we have installed a Medio-Jet 2V – 6. kW weighing 57 Kg. and (thanks to the inverter and the programme that manages it) serves 15 dental units with simultaneous operation

With Maxi-Smart we are cutting raw materials by 39 Kg., installed power is down 1.2 kW and the end user will be saving approximately 50% in electricity.* In terms of performance, the suction unit with VSD and software, gives professionals great flexibility and convenience of use.

Blok-Jet Silent 2

Blok-Jet Silent 2 is a compact, soundproofing, ventilated housing, with doors closed sound vibrations are reduced to 9 dB (A), residual sound vibration is 54 dB (A), delta T inside the box, compared to external temperature, is approximately 5 °C. The two doors with handle can be easily removed for ordinary maintenance: inspection of secretion filter and amalgam separator of the aspirator, checking efficiency of aspirator and compressor fans and compressor condensate discharge. All side panels can be quickly removed from the outside; the wheels with brakes make the unit easy to move, an important feature during major periodic maintenance procedures.

Best regards,
Augusto Cattani

* Energy saving is greater with multiple surgery motors and lower with smaller motors. Micro and Turbo-Smart with VSD and software achieve a saving that goes from 30 % to 50% , Medio-Jet 2 V and Uni-Jet 500 with VSD and software are close to 50%.

The inverter on its own does not enable these significant energy savings, the software is always indispensable.

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