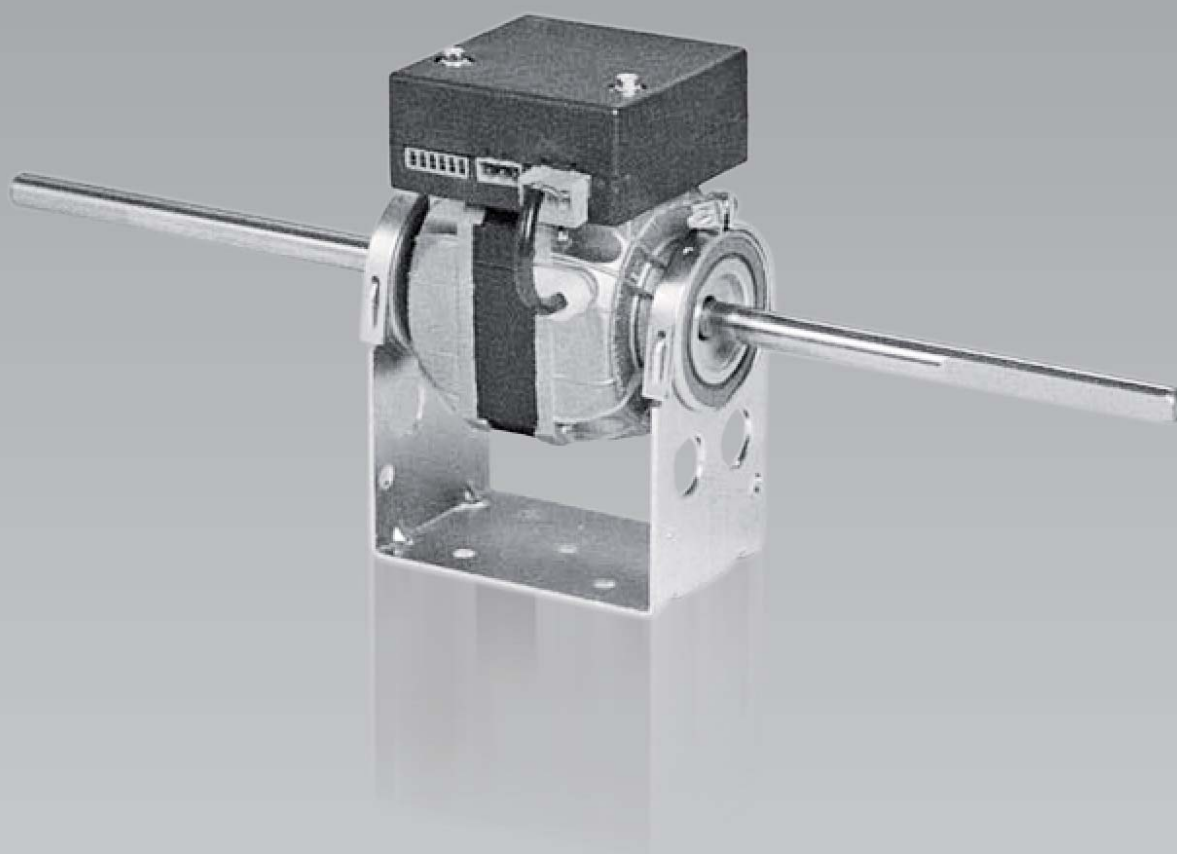


# BRUSHLESS

HIGH PERFORMANCE MOTOR FAN COIL UNITS



# BRUSHLESS

## BRUSHLESS: NEW SOLUTION

Ventilclima has developed a new range of fan motors for fan coil application, with a very low power input.

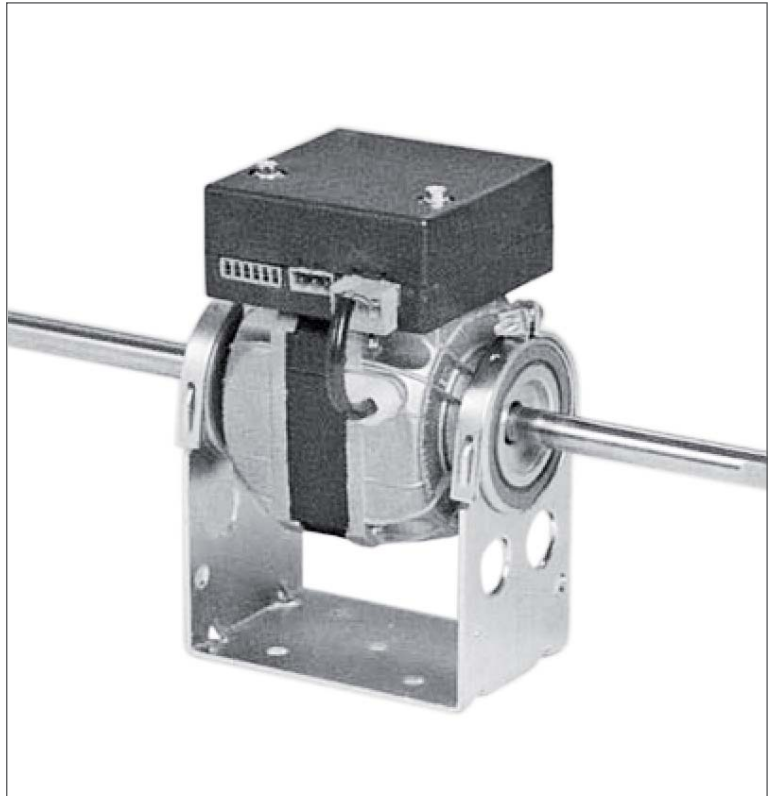
These type of motors, designed according to the latest technology and combined with a proper electronic control of stop and go status, **allow an energy saving of a 50%** compared to a standard motor.

Consequently, we can forecast a **CO2 emission which is 40/50% less** than the one caused by a standard PSC motor whose speeds are given by a transformer and/or given by the winding.

## GENERAL FEATURES

Brushless motors are completely interchangeable with those of the already well known motors. Mechanical structure and cradles are in fact the same and the only difference is having replaced the transformer with the electronic control case.

Moreover, these motors have been designed to give a performance similar to the standard ones, but with the possibility of being used with a 0-10V control.



## TRY THE FUTURE

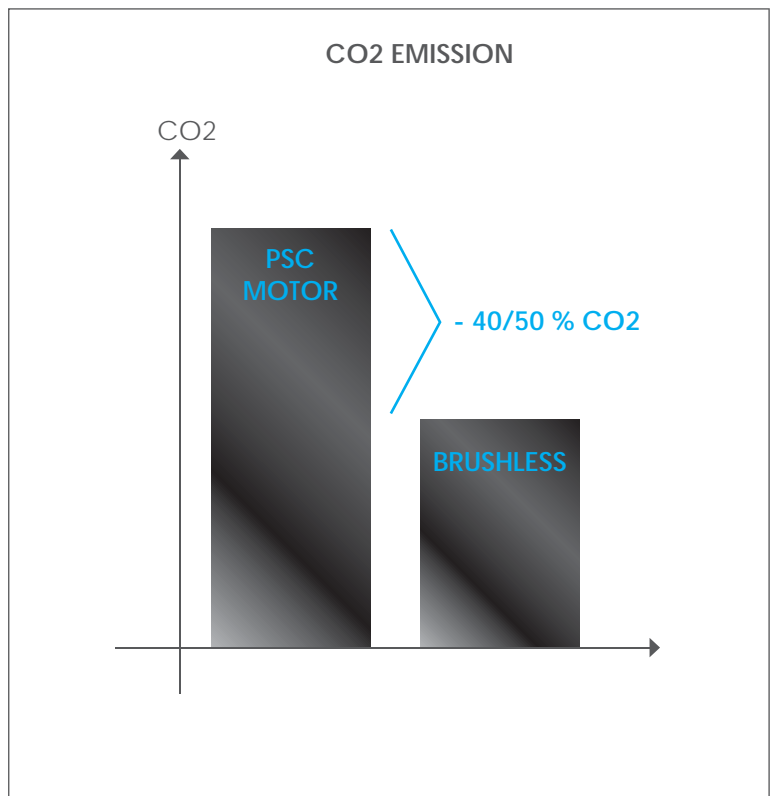
By this type of fan motors, the users can be personalise the speeds according to their request, by means of any control which can easily be designed.

This opens a new perspective to room air conditioning. In fact the fan coil manufacturer can program valves, motors and clutches by means of the same logic, with the result that the final user can get an optimised system of room conditioning with a low CO2 impact.

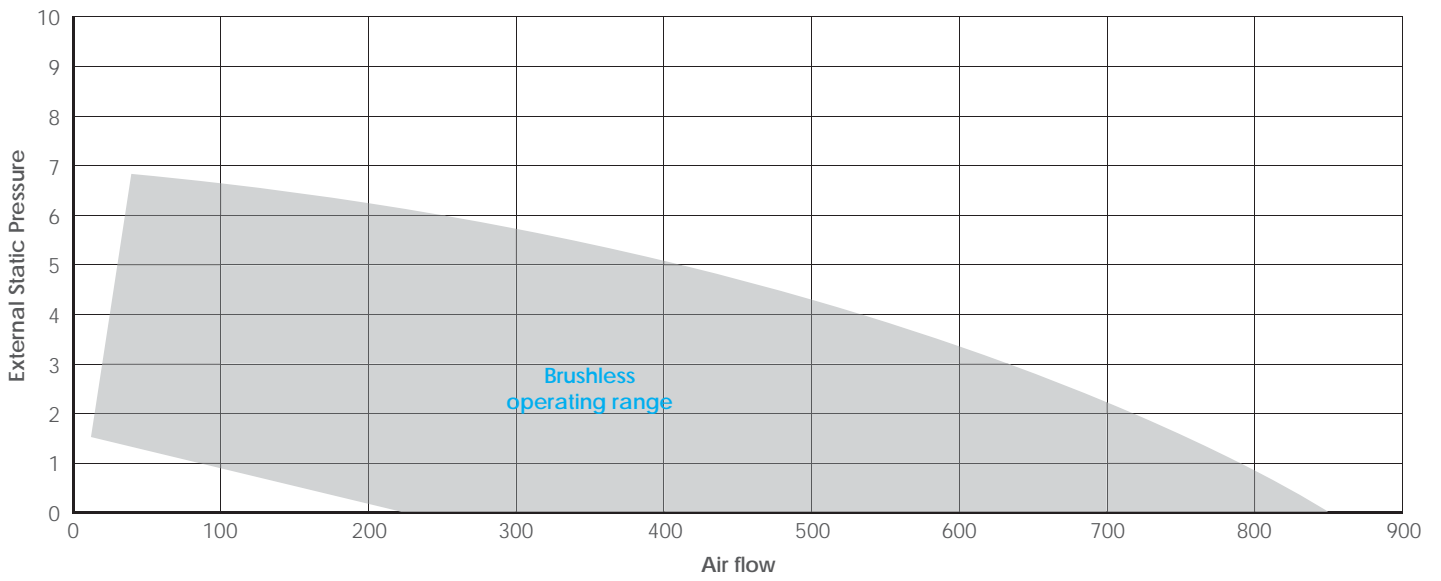
By using these type of motors, it is possible to satisfy the requirements of the "ecodesign" prescriptions suggested by Eurovent and is also in line with the future requirements, given a lower input power demand.

## WORK BRUSHLESS MOTORS

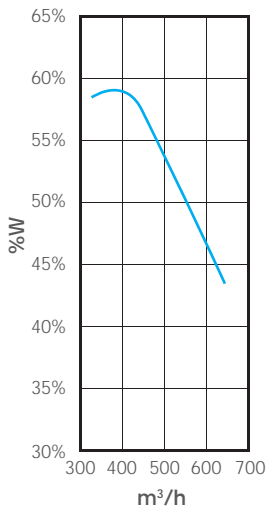
The basic explanation of a brushless motor's construction is that it is similar to a brushed motor, except everything is 'inside out' and there are no brushes at all. The permanent magnets that would wrap around the armature in a normal motor are instead placed around the motor shaft, and this assembly is called the rotor. The wire coils are around the inside of the motor can, making several different magnetic poles. In a sensored brushless motor, there are sensors on the rotor that send signals back to the electronic speed control.



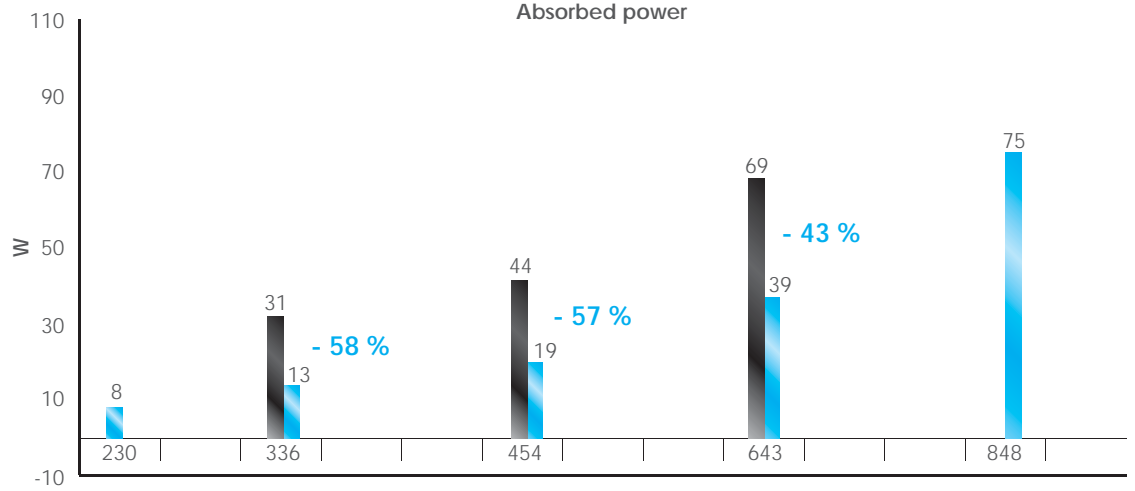
**Air flow (Fans 2x146x196)**



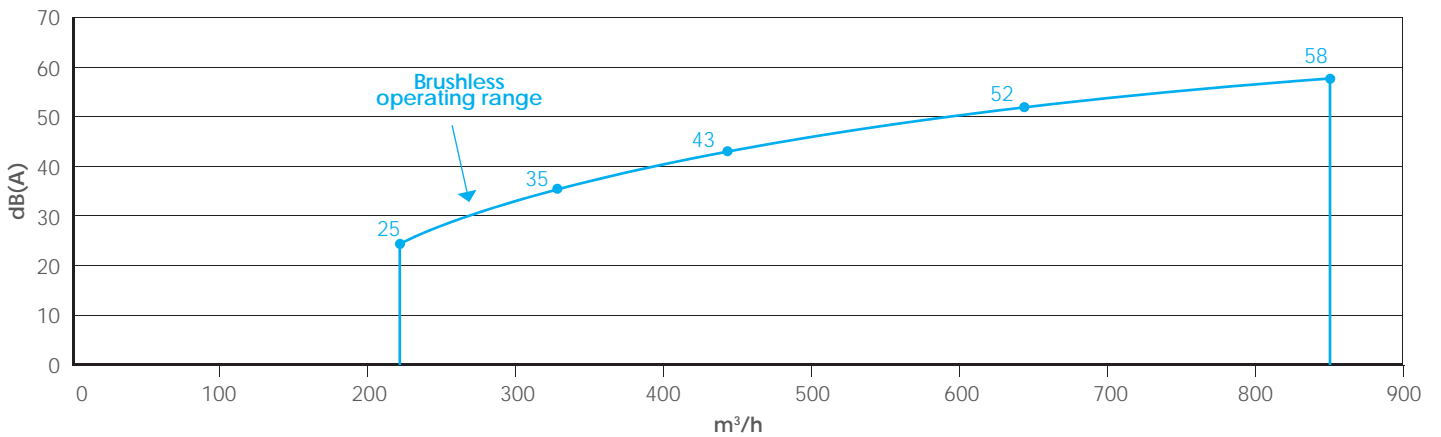
**Energy Saved by Brushless**



**Absorbed power**



**Noisiness**





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