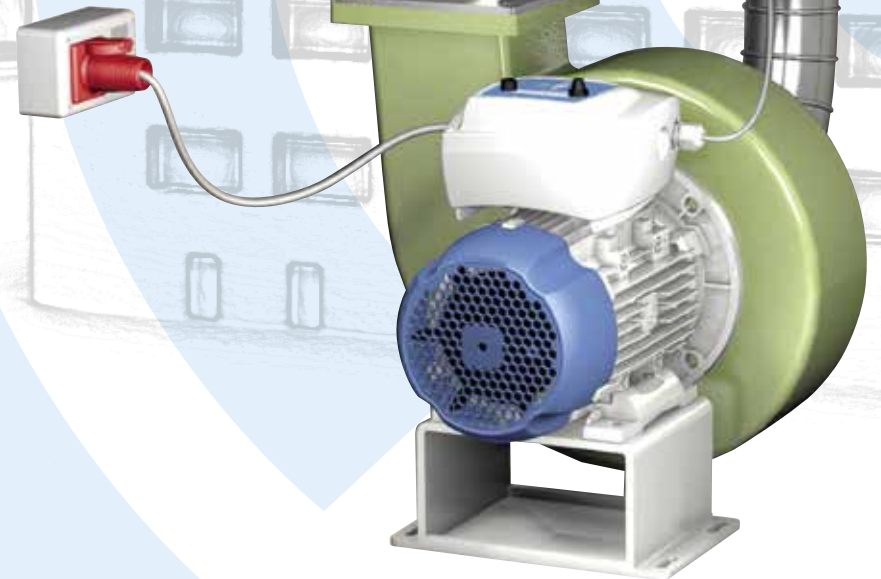


# NANO-VENT & NEO-VENT

VFD control unit  
for air suction  
and ventilation





... evolution of the famous remote controlled patented “NEO-WiFi” drive, **NEO-VENT** controls the air pressure in the system to keep it constant, thus adjusting automatically the motor speed and the consumed power of the ventilation and suction systems in residential and industrial applications, according to the air flow requested in each moment by the users.

Motive lists 5 main reasons  
to use **NEO-VENT** :

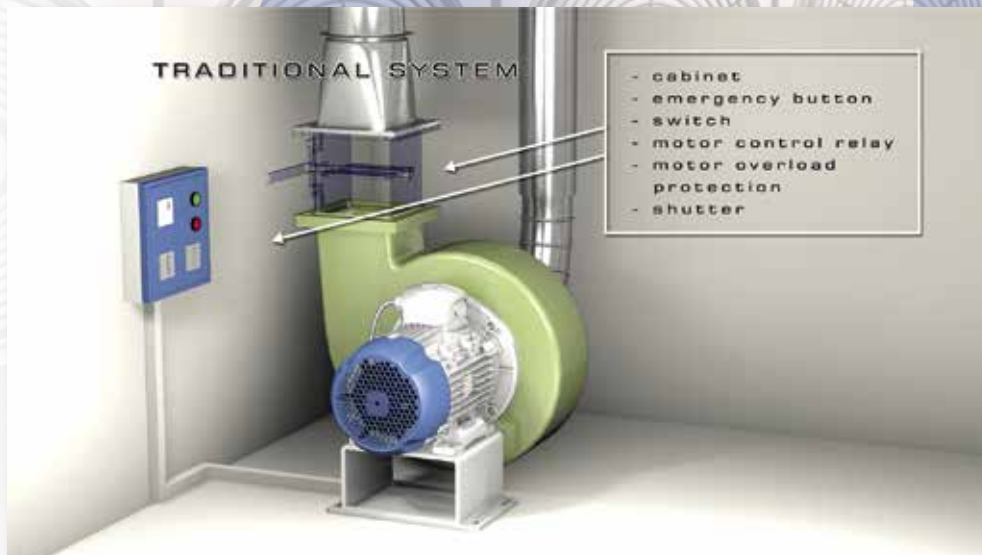
Know **NEO-VENT** on  
<https://www.youtube.com/watch?v=dBcVtzZGyAM&feature=youtu.be>



## Motive 1: less equipment

With **NEO-VENT** you don't need anymore

- cabinet,
- emergency button,
- switch,
- motor control relay,
- motor overload protection automatic switch and
- shutter





## Motive 2: energy saving

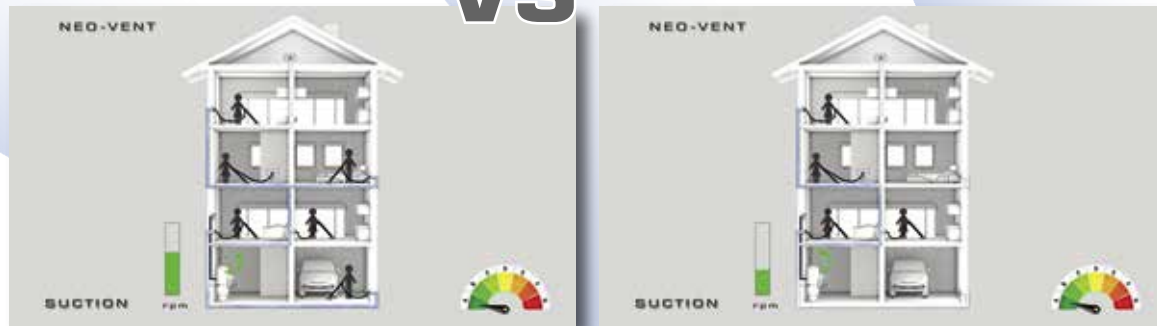
With traditional systems, the motor keeps on running and consuming at 100% of its rated speed, no matter if the requested flow rate is less.



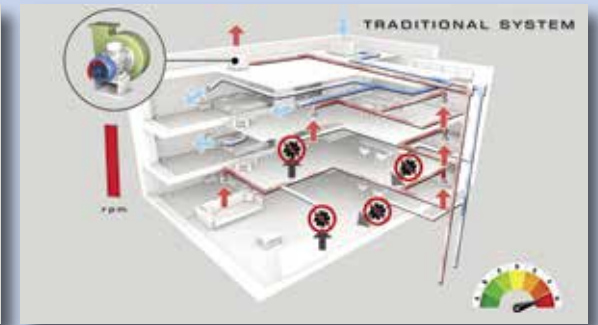
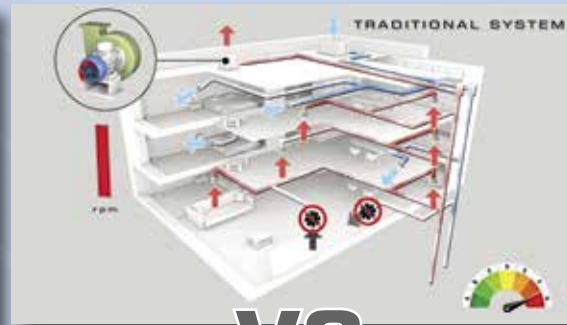
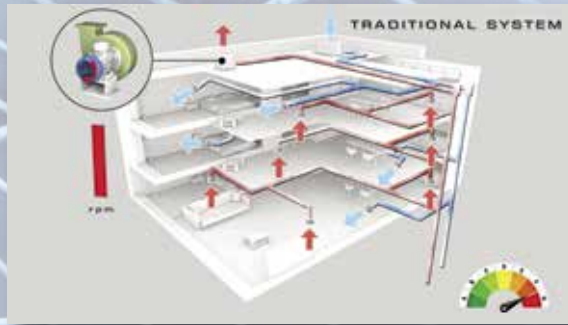
VS



VS

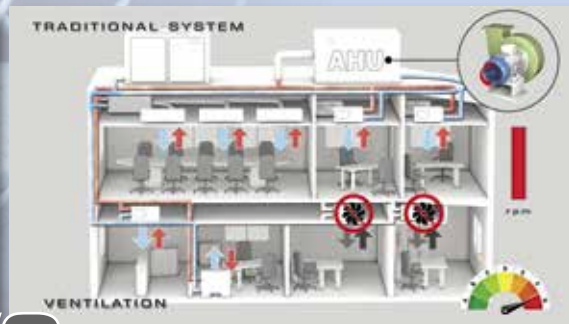
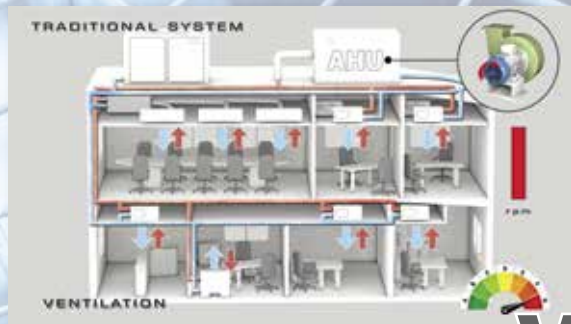


With **NEO-VENT** the speed reduces according to the used air, and the consumed power decreases exponentially according to the speed reduction



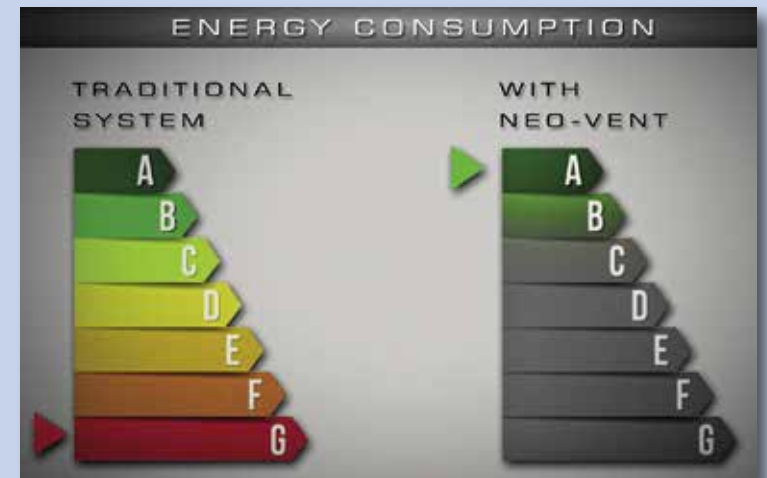
VS

Forced ventilation



Air Conditioning

VS





### Motive 3: soft start

Traditional ventilation and air suction systems have an abrupt start and overcurrent while **NEO-VENT** has a soft start

### Motive 4: silent

Traditional ventilation and air suction systems run always at 100% of their speed, while **NEO-VENT** makes the motors run only at the really needed speed



## Motive 5:

**NEO-VENT** adjusts itself automatically without any need of external intervention



Value	Symbol	UOM	NEO-VENT-3kW	NEO-VENT-4kW	NEO-VENT-5.5kW	NEO-VENT-11kW	NEO-VENT-22kW	NANO-0.75kW	NANO-2.2kW
NEO-VENT protection degree*			IP65					IP65	
NEO-VENT supply voltage	$V_{1n}$	V	3x 200÷460					1x110(-10%)÷240(+10%)	
NEO-VENT supply frequency	$f_{1n}$	Hz	50-60					50-60	
Air pressure		bar psi	Bar 0.010 ÷ 16 bar Psi 0.14 ÷ 232 psi					0-16 Psi	
NEO-VENT drive output frequency	$f_2$	Hz	Max $f_{1n} \times 200\%$					200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]	
Rated output current from NEO-VENT (to the motor)	$I_{2n}$	A	7	10	14	22	45	4	9
Maximum WiFi keypad-NEO-VENT communication distance out in the open		mt	20						

Further characteristics	NEO-VENT-3kW	NEO-VENT-4kW	NEO-VENT-5.5kW	NEO-VENT-11kW	NEO-VENT-22kW	NANO-0.75kW	NANO-2.2kW
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES Class A - Cat C1			optional		YES Class B (with NANFILT)	
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES			YES Class A - Cat C2			
Communication Protocol	MODBUS					MODBUS RS485	



Download the technical manual from  
<http://www.motive.it/manuali/manuale-NEO-WiFi-eng.pdf>



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