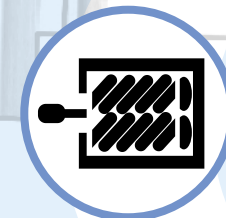


# NANO-COMP & NEO-COMP

compressors control unit



motive

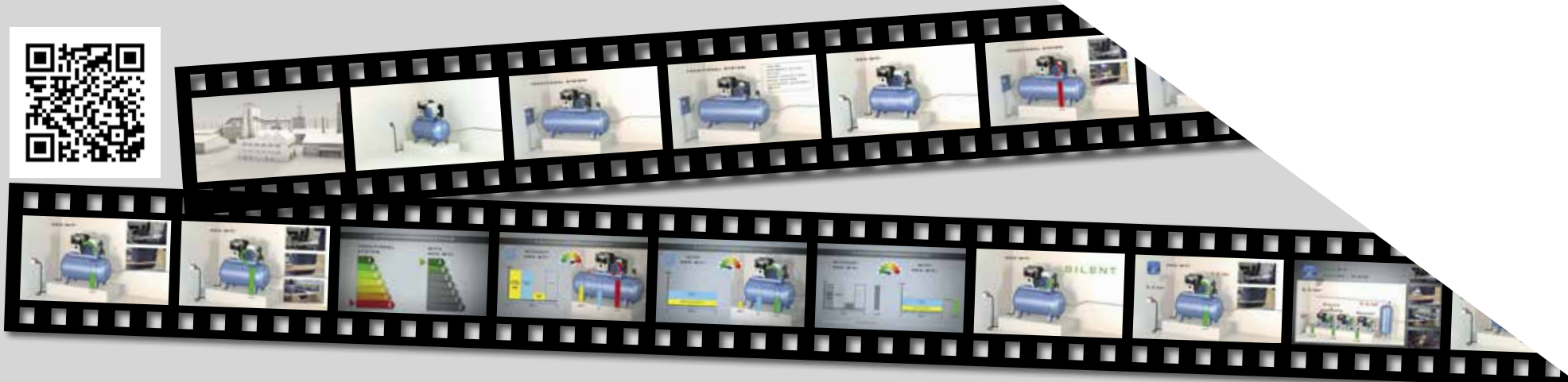




... evolution of the famous remote controlled patented “NEO-WiFi” drive, **NEO-COMP** now controls the compressor pressure and adjusts automatically the motor speed according to the flow rate

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

Know **NEO-COMP** on  
<https://www.youtube.com/watch?v=y8yHVdYIRKA>



## Motive 1: less equipment

With **NEO-COMP** you don't need anymore:

- cabinet
  - emergency button
  - switch
  - motor control relay
  - motor overload protection automatic switch...
- ...and the tank can be 80% smaller

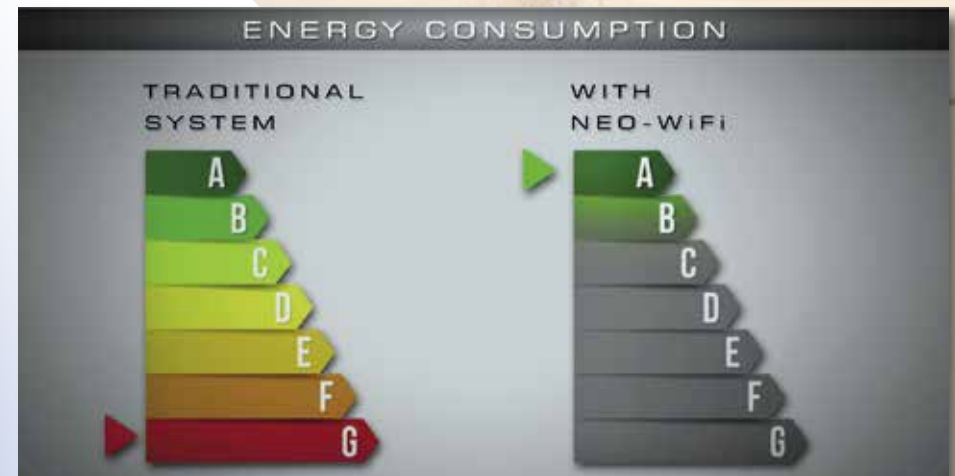




## Motive 2: energy saving

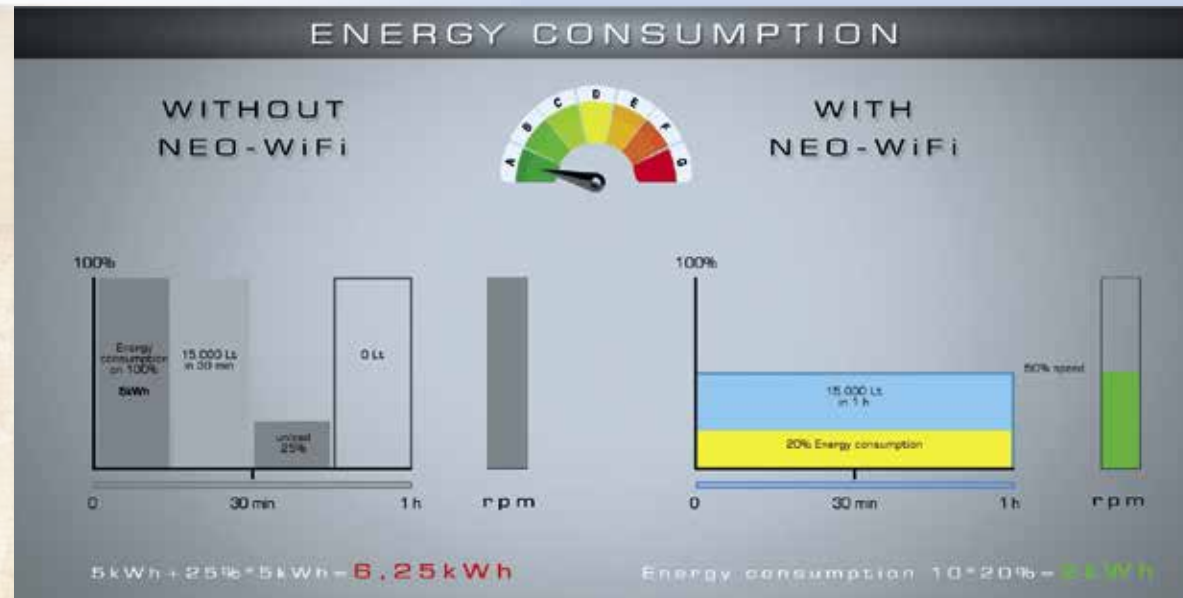
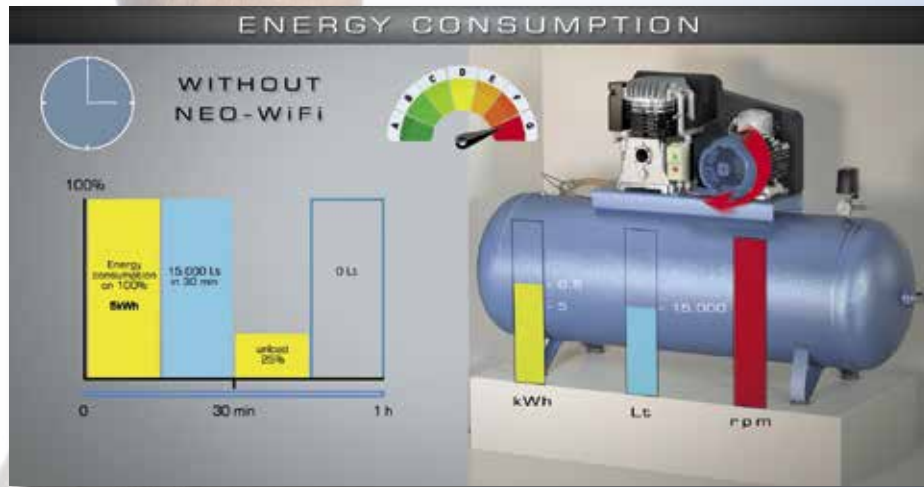
With traditional systems, the motor keeps on running and consuming at 100% of its rated speed, also during no load stage

With **NEO-COMP** the used power decreases esponentially according to the compressor capacity that you don't use



Example of a normal “load - no load” operation in traditional compressor with 10kWh and 30.000Lt/h of max capacity, and a requested flow rate of 15.000Lt/h (=30min load and 30min no-load)

What happens with **NEO-COMP**:



$$\frac{kW1}{kW2} = \frac{rpm1^3}{rpm2^3}$$



### Motive 3: soft start

Traditional compressors have an abrupt start and overcurrent while **NEO-COMP** has a soft start

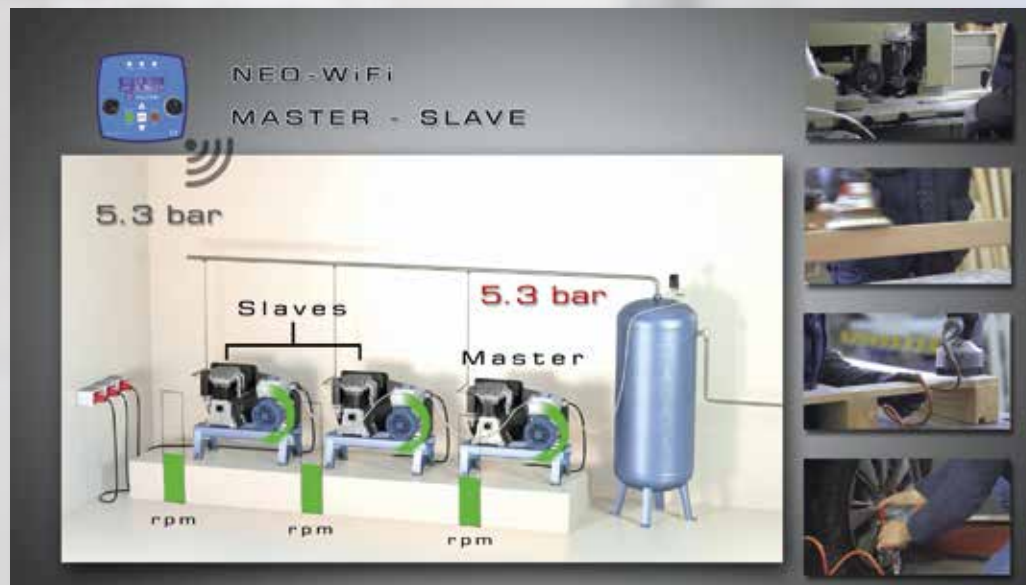
### Motive 4: silent

Traditional compressors motors run always at 100% of their rated speed, while **NEO-COMP** makes the motor run only at the really needed speed



## Motive 5:

**NEO-COMP** adjusts itself automatically without any need of EXTERNAL INTERVENTION



| Value  | Symbol   | UOM | NEO-COMP-3kW              | NEO-COMP-4kW | NEO-COMP-5.5kW | NEO-COMP-11kW | NEO-COMP-22kW | NANO-COMP-0.75kW                                | NANO-COMP-2.2kW |
|--|----------|-----|---------------------------|--------------|----------------|---------------|---------------|---|-----------------|
| NEO/NANO protection degree*                                    |          |     | IP65                      |              |                |               |               | IP65  |                 |
| NEO/NANO supply voltage  | $V_{1n}$ | V   | 3x 200÷460                |              |                |               |               | 1x110(-10%)÷240(+10%)                           |                 |
| NEO/NANO supply frequency                                      | $f_{1n}$ | Hz  | 50-60                     |              |                |               |               | 50-60   |                 |
| Compressor pressure  |          | Bar | 0.01 ÷ 160                |              |                |               |               | 0-160   |                 |
| Inverter 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/NANO (to the motor)              | $I_{2n}$ | A   | 7                         | 10           | 14             | 22            | 45            | 4   | 9               |
| Maximum WiFi keypad-NEO communication distance out in the open |          | mt  | 20                        |              |                |               |               |   |                 |

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



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



**Motive s.r.l.**

Via Le Ghiselle, 20

25014 Castenedolo (BS) - Italy

Tel.: +39.030.2677087 - Fax: +39.030.2677125

web site: [www.motive.it](http://www.motive.it)

e-mail: [motive@motive.it](mailto:motive@motive.it)

