

MASTERING THE COMPLEXITIES

With precisely timed and measured gestures, a conductor can elicit an overwhelming wall of sound, a subtle interlude, or anything in between from his orchestra. Similarly, the ES controller makes multiple compressors work together seamlessly to match the changing air demand.

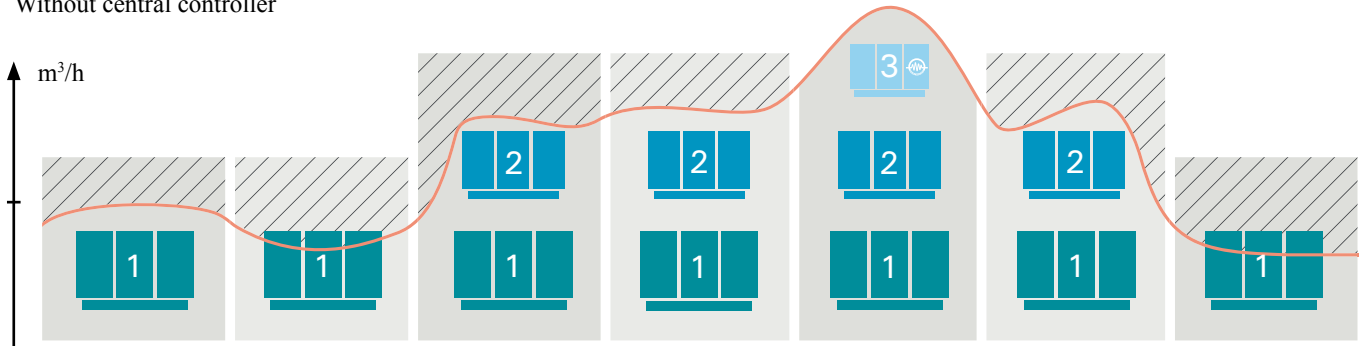


Compressor Harmony With ES

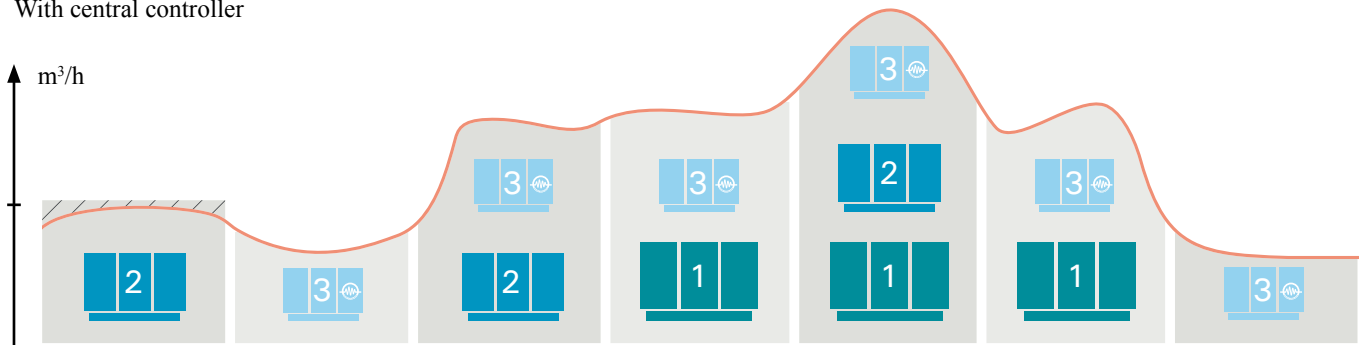
In a multiple compressor setup, the ES controller regulates the system pressure by starting and stopping compressors and controlling VSD speed. Thanks to its built-in intelligence, the use of machines is optimized in all conditions. A tighter pressure band is achieved, resulting in lower energy costs and increased system stability. Multiple pressure bands can be set to avoid wasting energy during non-productive hours. Status and operating parameters of each connected compressor can be consulted on a clear interface.



Without central controller



With central controller



Energy Waste
 Air Supply
 Air demand
 3 VSD Compressor
 2 1 Fixed Speed Compressor

ASK YOURSELF...

What if I run multiple compressors without ES?

Without a central controller, the load/unload pressure of each compressor can be set to react to changes in air demand. If the system pressure drops, an additional compressor will switch to loaded running. However, the sequence will always be the same, and the advantages of a VSD are not fully put to use. The result: higher pressures than required, too much unloaded running and... a steep energy bill.

How secure is my production without a central controller?

The system pressure not only depends on the compressor output pressure, but also on filters, dryers, buffers etc. Without system pressure control offered by ES, the risk of a pressure alarm and lost production is not excluded.

What about load distribution of my compressors?

The ES can be set to prevent unequal wear of compressors, equalizing the running hours on multiple machines for more efficient service scheduling.

“The ES central controller helped me to reduce the pressure band by more than 1 bar (14.5 psi), which is a 7% energy cost saving!”

Your Own Symphony

Depending on your needs, benefit from efficient compressor room control with the ES sequence controllers or go for the top-of-the-range ES energy optimizers for advanced priority management, smart machine selection based on continuous monitoring of air demand, control of turbo machines and ancillary equipment, logging of critical data and remote monitoring capabilities. Let ES optimize your energy consumption!