

Atlas Copco Air Optimization Compressor Room Controller

ES 16: the latest generation of central controller

With our new advanced central controller, you will generate energy savings by:

- Regulating the system pressure within a predefined and narrow pressure band to optimize energy efficiency.
- Prioritizing the use of newer and/or more economic machines over older, less effective versions.
- Promoting the use of VSD machines, because they are the most energy efficient.
- Scheduling shutdown to avoid costs during non-production hours.
- Equalizing workload to avoid overloads on individual machines.
- Reducing maintenance costs thanks to comprehensive, flexible machine sequence control. The ES 16 system ensures that system running hours are equal across all common machine types in the same group. As a result all machines can be visited at the same time, requiring fewer service visits.
- Getting your critical data logged and traced up to one week of history.



Compressor Room Monitoring



Measuring Points

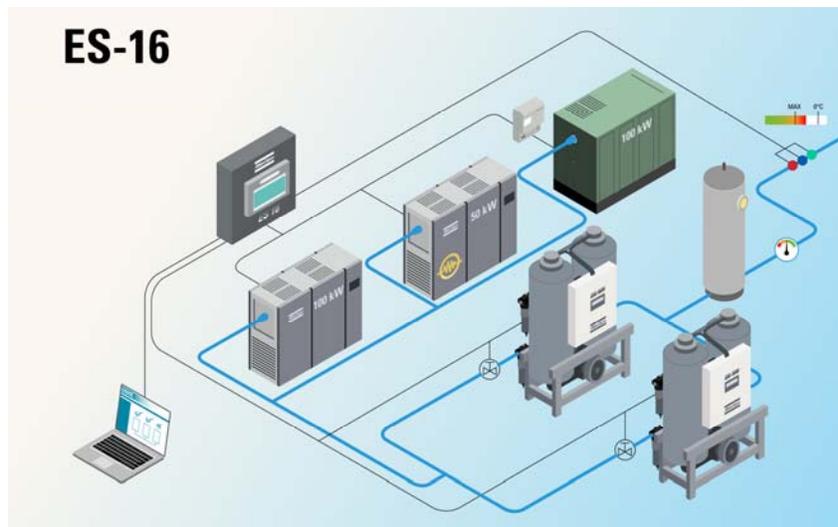


Compressor Screen

Features	Benefits
Equalize running hours across selected machines	Equal wear on machines allows maintenance intervals during single visit.
Sequence selection	Optimize use of machines under all conditions.
Scheduled shutdown	Avoid unexpected downtime.
Improved pressure band optimization	Reduced energy consumption. Stable pressure contributes to production quality.
Control of ancillary equipment	Optimize energy consumption in the complete compressor room.
Data logging and tracking up to 1 week	Analyze and optimize air demand in the production process.

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General	
Description	Central Controller
Controller capacity	
Maximum number of connected machines	16
• ... of those: compressors and dryers	16
Ancillary equipment	Rule based control (O/I)
Connectivity	
Number of machines via digital (O/I)	100
Remote commands (fieldbus)	Modbus, Profibus, Ethernet
Data logging and trending	Up to 1 week
Connectivity parts	RS 232, Ethernet
Hardware	
Display	7" color touch screen
Pressure sensing	Up to 4 in net
Cubicle protection	IP54
Dimensions depth x width x height (mm)	210 x 400 x 400



- ES16 can control and monitor both Atlas Copco load/unload, VSD, Turbos and non Atlas Copco compressors.
- Through digital outputs, regulated by an internal PLC, the ES16 can also control valves, fans, dryers etc.