

# Compress your air costs...

- Short-term payback
- Easy to install & operate
- Web-based management
- Verified savings

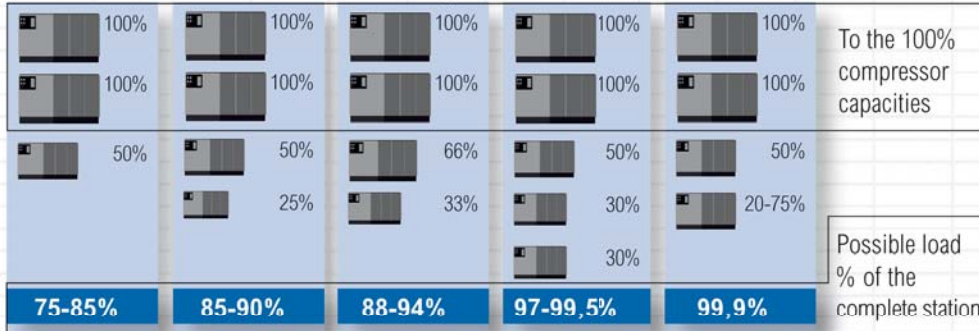


**airleader**  
Compressor Management

# The benefit of *airleader*

## 1. Save money instantly...

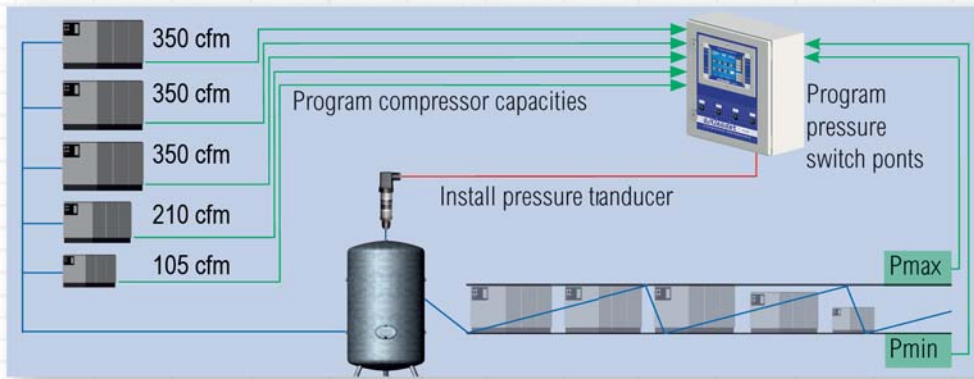
Which combination save the most unload energy costs?



... irrespective of the combination of compressors, **Airleader** gets the best out of every combination as well as reducing operating pressure to a minimum. An improved graduation insures less motor starts and load changes of the compressors. It is possible to connect up to 2 speed-controlled compressors.

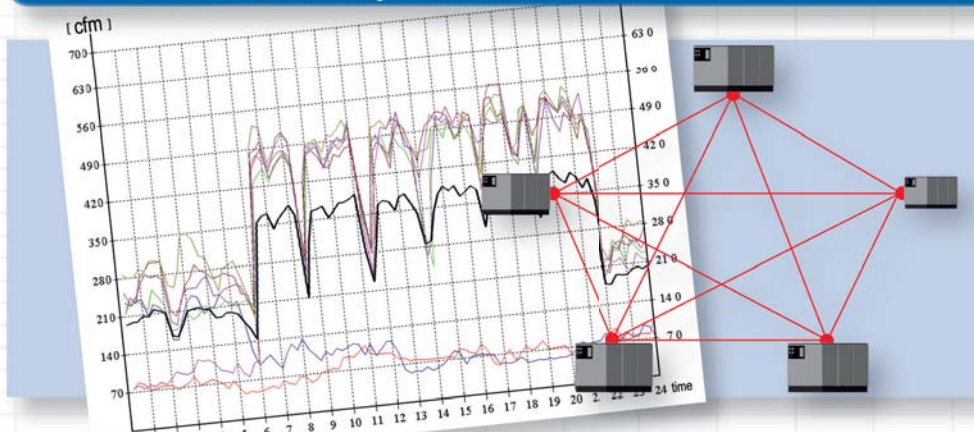
**Airleader** always ensures the right combination.

## 2. Simply program the compressor capacities and pressure switch points...



... and **Airleader** will combine compressors of different sizes to form a unit that automatically adjusts itself - in line with the current compressed air consumption - to the production requirements. It ensures that always the most efficient compressor combination generates the compressed air required.

## 3. Flexible use of compressors...



There is no longer a fixed priority or sequence. Your production determines the correct combination of compressors, to ensure the most efficient combination of compressors runs for the actual air consumption. Same size Compressors are allocated the same operating hours.

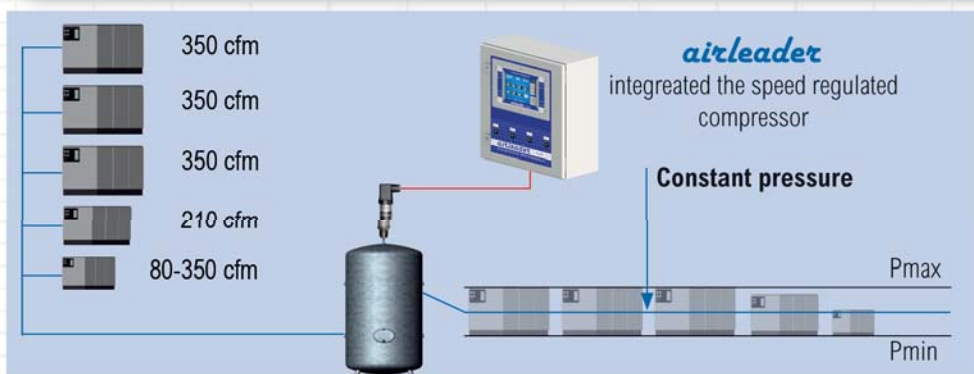
**Every compressor can:**

- base load - peak load - or can operate on its own

**Energy savings due to:**

- Pressure reduction and no-load cost optimization

## 4. Always connects the right compressors for the speed-controlled compressors



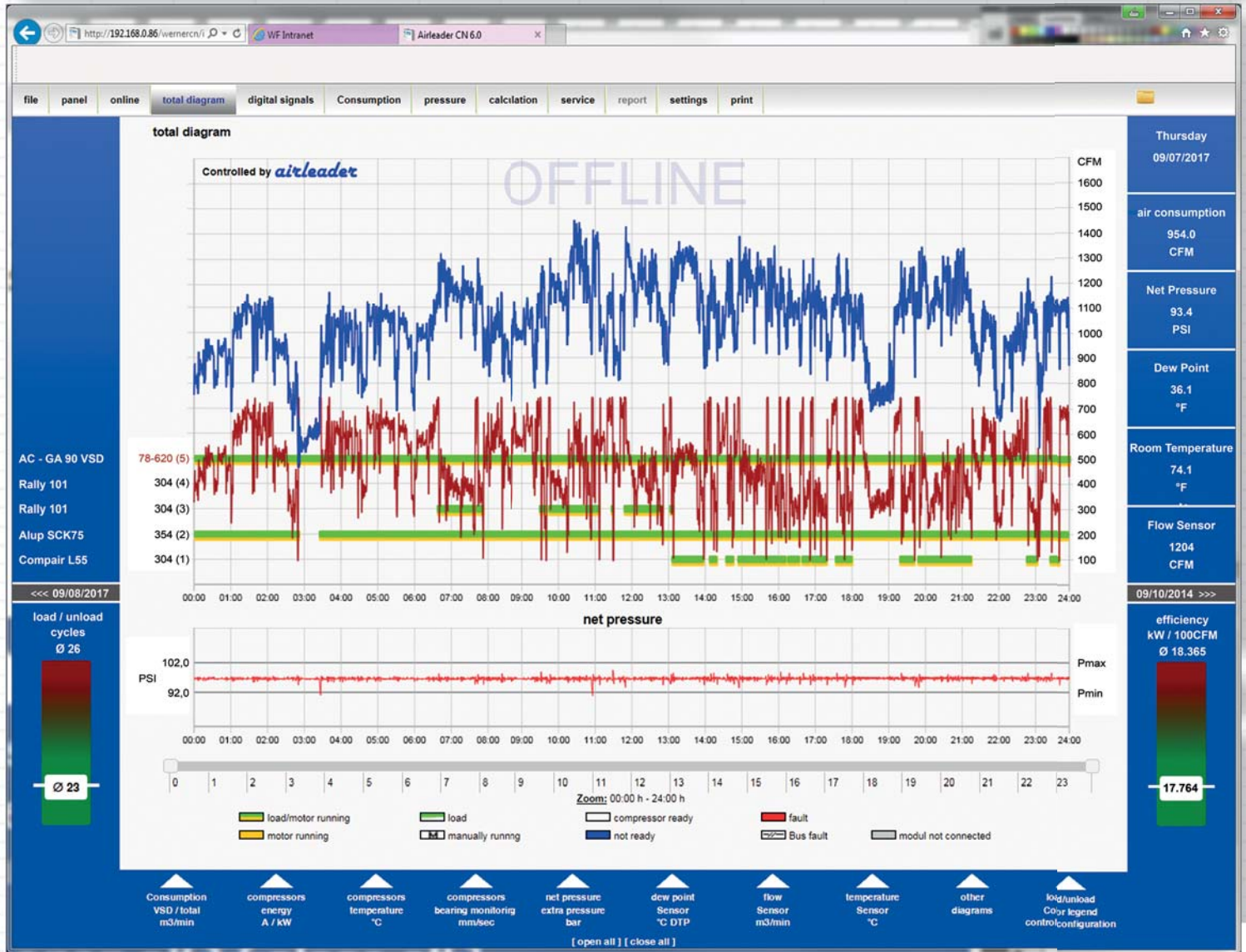
The control strategy automatically ensures that, compressors connect or disconnect step less within the pressure band. An exceptionally low switching frequency protects the compressors and prolongs their service life.

The freely programmable speed range ensures that the speed controlled compressor always remains within the specific optimum range.

This prevents excessive high power consumption due to the compressor running in the wrong speed range.

# ... with a first-rate online visual display system!

## All functions of a glance...



**Zoom function extreme** – it is possible to zoom all curves down to 1 minute. Short peaks are detected and can be analyzed.

**Temperature, pressure dew point, flow current consumption rates, etc ? No problem!** It is possible to simply connect various different sensors (4 - 20 mA) and to depict these in high-resolution graphics. Transgressions above thresholds generate messages – upon request in the form of an e-mail, fax or text message.

**All analog sensors** are displayed clearly arranged in groups. **Weekly and monthly diagrams** are automatically combined and made available for further use.

**Diagrams can be clearly selected.** Via the selection box all the functions can be displayed together or individual.

**Any number of users** can access the online visual display system via the web server without any loss in speed.

The Online main screen provides an instant overview of the consumption, pressure and compressor status, (load, no-load fault, stand-by / off, flow rate if VSD compressors)

COMPRESSOR DATA AND ENERGY CALCULATION																							
Specific performanc	7,81347		kW/cfm		kWh		0,080		\$		costs of load		99,64			%							
Specific performanc	0,12689		kW/cf		P-min		6,5		psi		costs of un-load		0,36			%							
Compressed air cost	0,01015		\$/cfm		P-max		7,0		psi		Total costs		3590,28			\$							
Channel	Compressor	cfm	Load kW	kW	Load	Unload	average %	switching cycles	compr. air	Total W	Total costs \$												
		min	max	min	max	un-load	h	min	h	min	h	Load	Motor	Load	cf	Load	un-load	Total	Load	un-load	Total		
1	GX 100	4,8	20,6	118,0	34,2	20	58	1	40	92,6	15	15	259150	2474	7	2531	197,93	4,56	202,49				
2	DF 160		24,7	145,0	41,3	147	50	0	42	99,5	7	7	2190890	21436	9	21465	1714,87	2,31	1717,18				
3	AF 120	2,6	19,6	20,3	122,0	4,5	166	54	0	9	100,0	19	19	1048770	20362	1	20362	1628,94	0,05	1629,00			
4	DK 100		11,2	79,0	26,4	5	39	2	48	66,9	45	48	37970	446	4	520	35,71	5,91	41,62				
5	GX 115		20,0	116,0	31,7	0	0	0	0	0,0	0	0	0	0	0	0	0,00	0,00	0,00				
Total										86	89	3536780	44718	111	44879	3577,44	12,84	3590,28					

**Online power cost.** Airleader enables the possibility to see instantly if the energy costs are rising out of control and will notify automatically if this happens.

**Energy balance delivered free** – Load and no-load time, kWh consumed - m<sup>3</sup> generated, - spec. delivery rate – energy costs in €, motor starts + load changes.

**Long-term monitoring is standard.** The integral memory has a storage capacity of min. 2 years (for 8 compressors).

**Statistics made easy** the load/no-load graphic chart illustrates the savings effect. Simply click with the mouse to select the period you require.

...completely adaptable with unbounded possibilities...

### System status at a glance



### Secure Private Network

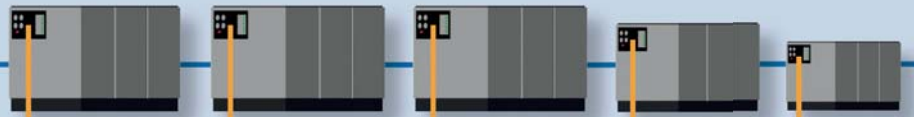
Cellular Gateway  
or WiFi / LAN via VPN



OPC - Server

RS 485 bus

Compressors from any manufacturer.  
Up to 32 compressor modules



Status data

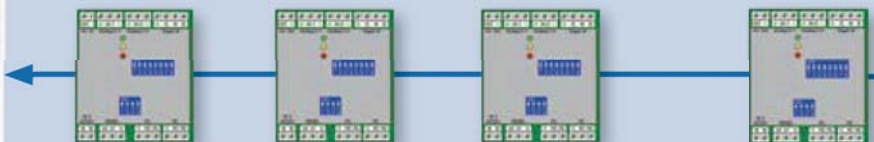
Pressure, Dewpoint  
Temperature & Flow sensors etc.

Filter and condensate  
technology

Dryer



Modbus



Up to 64 Analog inputs

Up to 96 Digital inputs

Up to 32 connection modules

Control pressure sensor