

Compressors Control management.
Energy savings in modern compressed air installations

Luc Hendrickx
President Oil Free Air Division

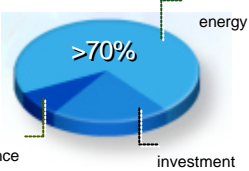


*eXtending
The Offer*


Saving Energy

Saving Energy

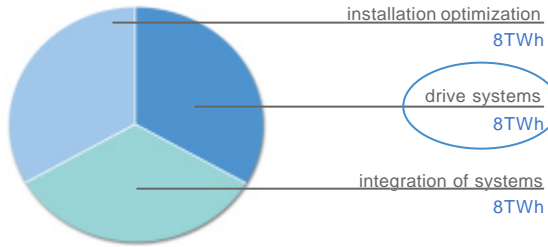
In Europe alone 80 TWh / year for compressed air



energy
investment
maintenance

eXtending The Offer 3 

Energy Saving Potential 24 TWh / year



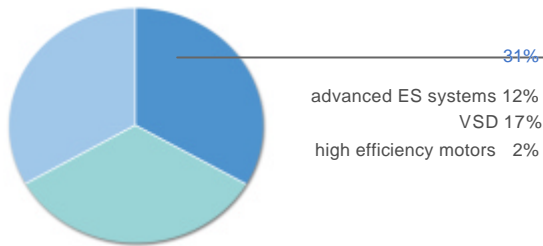
«Extending The Offer»

4



Energy Savers

like electronics, software, improved drives



«Extending The Offer»

5



Energy Savers

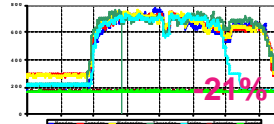
THE ATLAS COPCO SOLUTION

test set-up

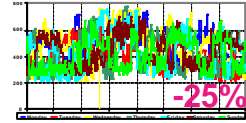
ZR 275 7.5
ZR 315 8.6 VSD

PLC

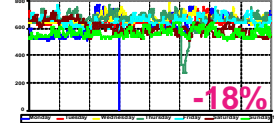
Cie profile A



Cie profile B



Cie profile C



«Extending The Offer»

6



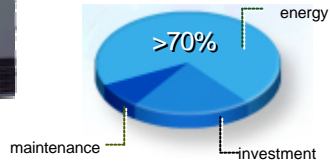
Energy Savers

THE ATLAS COPCO SOLUTION

VSD - Variable Speed Drive



20...35% energy savings



«Extending The Offer

7



Energy Savers

THE ATLAS COPCO SOLUTION

ZR90 VSD (2002)

NEW!



«Extending The Offer

8



Energy Savers

THE ATLAS COPCO SOLUTION

ZR500 VSD (2002)

NEW!



«Extending The Offer

9



Energy Savers

THE ATLAS COPCO SOLUTION

ZR900 VSD (2002)

NEW!



«Extending The Offer»

10



Energy Savers

THE ATLAS COPCO SOLUTION

ZR315 VSD (2000)



First **oilfree** VSD screw compressor

«Extending The Offer»

11



Energy Savers

THE ATLAS COPCO SOLUTION

ZR160 VSD (2001)



«Extending The Offer»

12



Energy Savers

THE ATLAS COPCO SOLUTION

Customer benefits

- ⚡ Constant pressure in the air-net
- ⚡ Lower cos PHI on the powernet
- ⚡ Electricity consumption down with 15...30...35%

Example of savings

- ⚡ Say: average power consumption: 200 kWh, price: 0.05 €/per kWh
 - x 0.20 ⚡ saving (20%)
 - x 8000 running hours
 - x 0.05 €/per kWh ⚡ **16 000 €/ year**

eXtending The Offer

13



Energy Savers

like electronics, software, improved drives



eXtending The Offer

14

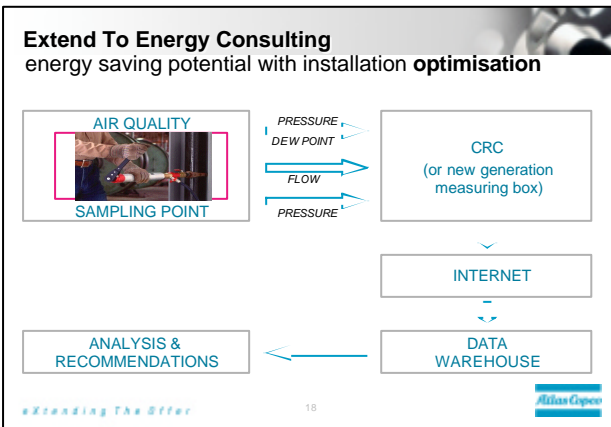


eXtending
The Offer

Compressor
Room Control








eXtending The Offer

19




Extend To Energy Consulting
energy saving potential with installation **optimisation**



- 1 Air consumption profiling
- 2 Selection and analysis of installation
- 3 Pick and place installation build up
- 4 Energy optimization

eXtending The Offer

20



*eXtending
The Offer*

The Use of the
Product

The Optimum Contract

Lowest energy cost and up-time guaranteed in one package

