FAUDI

FILTRATIONSTECHNOLOGIE

A BRAND OF WATZ GROUP

EASY & EFFICIENT ENERGY

WATZ GROUP

Save up to

75%

The FAUDI economy concept

For more efficiency and environmental protection - Save up to 75% of your energy costs and CO2 emissions with us.

Content

FAUDI ENERGY OPTIMIZATION

- Procedure
- Optimization potential
  - Electrical energy
  - Pneumatic energy
  - Cooling water
  - Consumables (filter aids/filter fleece)
- Advantages & savings

Procedure

HOW WE START

01 Target/actual comparison

Recording of the actual state of the plant concerned and execution of a target/actual comparison.

02 Optimization potential

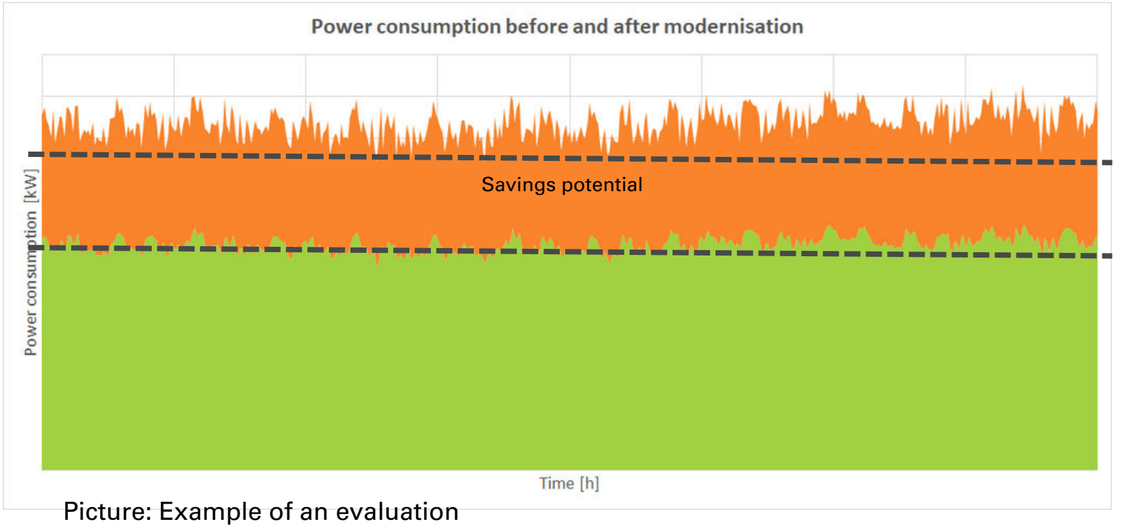
- → Electrical energy
- → Pneumatic energy
- → Cooling water
- → Consumables (filter aids/filter fleece)

Optimization potential

ELECTRICAL ENERGY

- Energy measurement with an energy meter
- Recording of energy consumption before optimization
- Possible measures for optimization:
  - → Adjustment of the system to the actual refrigerant demand
  - → Optimization of internal consumption, e.g. excess filtration
  - → Optimization of external consumption, such as bypass flushing of external pipelines
  - → Equipping pumps and drives with frequency converters
- Recording of energy consumption after optimization
- Presentation and evaluation of the energy savings

Picture: Energy meter



Picture: Example of an evaluation

Optimization potential

PNEUMATIC ENERGY

- Compressed air measurement with a compressed air meter
- Recording of the compressed air consumption before optimization
- Possible measures for optimization:
  - → Adjustment of the system to the actual coolant requirement
  - → Local and demand-oriented compressed air generation by means of FAUDI compressor unit
- Recording of compressed air consumption after optimization
- Presentation and evaluation of the compressed air savings

Picture: compressed air consumption meter

Picture: FAUDI compressed air unit

Optimization potential

COOLING WATER

- Reduced cooling water consumption is a side effect of optimizing the system by adapting the system to the actual coolant consumption.

- An additional reduction in cooling water consumption is possible by insulating the following components:
  - → Heat exchanger
  - → Pipings
  - → Tanks
  - → Filter vessels

Picture: Insulated piping

Picture: Insulated plate heat exchanger

Optimization potential

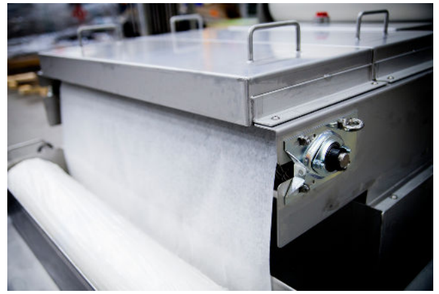
FILTER AIDS / FILTER FLEECE

Picture: FAUDI Filter aid dosing unit with big bag

- After the target/actual comparison of the coolant consumption, a reduction in the number of active precoat filters is possible (of course with the same filtration quality and system availability).

- Possible measures: :
  - → Programme optimization of the filters
  - → Change the filter aid to alternative products
  - → Integration of pre-separation (of coarse or ferritic particles/impurities) into the filter system to extend the service life of the filters

- Likewise, with fleece filters (e.g. a FAUDI vacuum filter), an extension of the filter service life and thus a reduction of the filter fleece consumption is possible.



Picture: FAUDI filter elements and fleece

Advantages

WHY YOU PROFIT FROM EASY & EFFICIENT ENERGY

Saving of costs

- Low energy costs due to reduced power consumption and reduced heat input in the medium.
- CO2 and energy savings of up to 75%
- Government subsidies possible (depending on the country). E.g. in Germany up to 30% BAFA subsidy possible
- Amortisation periods: 1-2 years, depending on application

Compressed air

- Significant reduction of compressed air demand through demand-oriented compressed air generation

Maintenance and wear

- Reduced wear and maintenance due to optimal adaptation of your filter system and use of high-quality components

YOUR SAVINGS

AMORTISATION OF THE INVESTMENT POSSIBLE AFTER 1-2 YEARS

- REDUCTION OF ENERGY
- REDUCTION OF EMISSION
- REDUCTION OF FILTER AID
- REDUCTION OF DISPOSAL COSTS

FIND OUT MORE!

On our website

ww.faudi.de/en/service/energy-optimization/