

Nearly 30 % Energy saving at Audi Hungaria



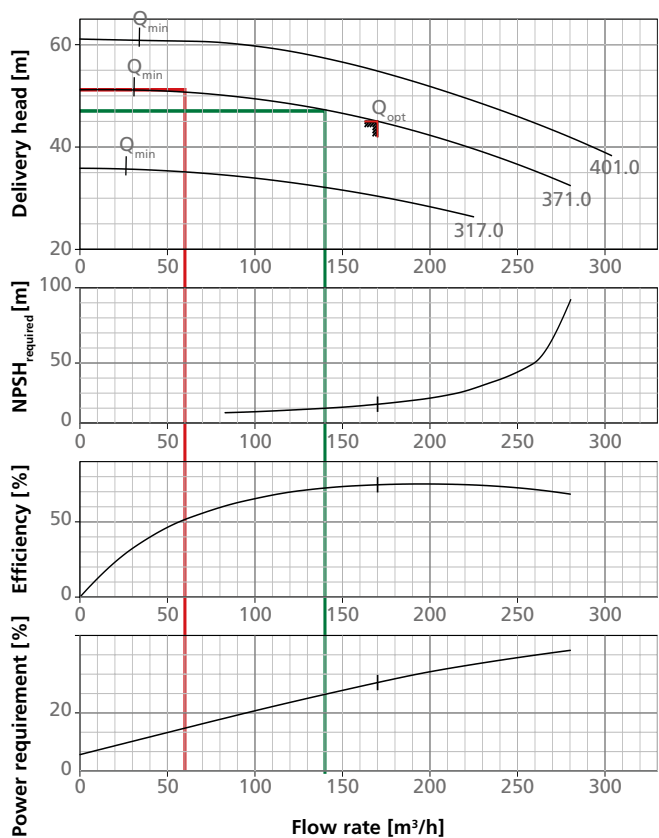
AUDI HUNGARIA MOTOR Kft., with its registered office located in Győr, is a member of the AUDI corporate group, and the central engine supplier of corporate groups Audi and Volkswagen. The Audi A3 Limousine, A3 Cabriolet, Audi TT Coupé and Audi TT Roadster models are manufactured in Győr

Audi Hungaria have had one of the highest sales revenues among Hungarian companies for years now, and is one of the largest exporters in the country.

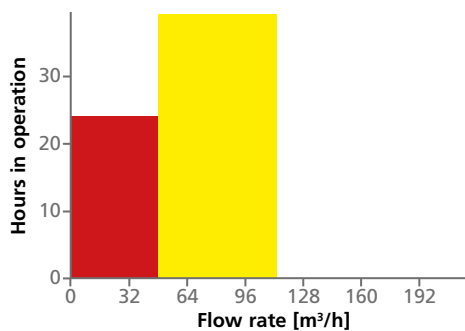
Significant savings thanks to PumpMeter measurements

Audi Hungaria have long since committed itself towards long-term sustainable development and the preservation of environmental resources. To further this cause, it uses a system-centric concept to recycle certain energy types, and reduce the power requirements of production as much as possible. According to its environmental goals, the company plans to reduce its total energy consumption by 25 percent until 2018.

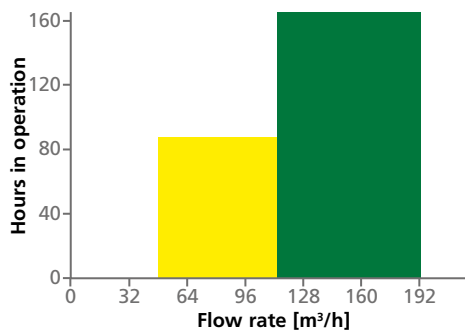
According to the purposes of AUDI's power management, KSB advised to equip the pumps of the KMA 11 emulsion supply system with PumpMeter monitoring units to reveal energy and cost saving potential. The devices were commissioned in the Spring of 2015. The measurements and evaluations that followed provided the results below: In the previous years, the emulsion supply was provided by 6 Etanorm pumps (37 kW) with central pressure control. The evaluation of the measurements showed that the pumps run in a different operational mode than the selected optimal operating point. The operator modified pump control in accordance with our suggestion, and in compliance with the technological requirements. As a result, currently 3 pumps operate the emulsion device. Based on the measurements of the operator's experts, this resulted in 28 % energy saving.



Measurement results prior to the investment



Measurement results after the investment



Power consumption	[kW]
Effective consumption with 6 pumps	141.1
Effective consumption with 3 pumps	101.0
Consumption change	-40.1

Yearly power saving calculation
40 kW x 24h x 285 AT x 0.1 EUR/kWh = 27,360 EUR
PumpMeter measurement devices investment = -4,292 EUR
Total savings = 23,068 EUR



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