



REFERENCE

INNOVATIONS IN EQUIPMENT &
PLANT MANUFACTURING

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BOSCH
Technik fürs Leben

Enjoy exclusive comfort when you travel – with Lantal and steam powered by Bosch

THE COMPANY

Lantal Textiles AG is an internationally active Swiss company with almost 400 employees in locations in the USA, Singapore, France, Canada and Switzerland. The family-owned company specialises in the design, manufacture and distribution of textiles, carpets and services for aircraft, buses, trains, cruise ships and super yachts. The company's customer base includes over 300 airlines, as well as all the world's leading aircraft and seat manufacturers. The Langenthal site in Switzerland also produces special pneumatic comfort systems, which are used primarily in business and first class aircraft seats.

In addition, special velour and flat fabrics as well as carpets are produced and sold for bus and rail transport. In the executive sector Lantal provides

elaborate seat cover fabrics, curtain fabrics and hand-tufted carpets in the cabins of super yachts and private jets.



| Lantal Textiles AG

THE PROJECT

In order to increase production capacities and at the same time make the energy supply more efficient, Lantal opted for a concept from the plant specialist and long-standing Bosch partner Apaco AG from Grellingen, with a Bosch steam boiler with self-pressure maintenance for operation as a hot water boiler plant.

The new boiler plant supplies hot water for the production of sophisticated textiles according to international safety and quality standards. With an output of up to 5300 kW, the boiler is also characterised by fast availability and high efficiency. Thanks to the integrated economiser, the valuable waste heat from the boiler exhaust gases is not lost and is used to raise the network return temperature. With an additional downstream flue gas heat exchanger, the flue gas temperature is reduced, thus further increasing the boiler efficiency.

The combination burner system can be operated with natural gas or light oil. In this way, peak loads can be covered with a second fuel. This results in lower connection power costs. Further advantages of multi-fuel firing are greater security of supply, greater independence from the energy supplier and short-term price fluctuations.

The touch screen display of the BCO boiler control unit can be used to call up a wide range of information such as operating states, operating data and measured values. The boiler operator or Bosch service technician can also



| Placing the boiler in the boiler house



| UL-S steam boiler with an output of 5300 kW

draw conclusions about the condition of the boiler or necessary maintenance to ensure long-lasting operation with continuously high efficiency. A further increase in transparency and operating safety is achieved by the diagnostic function included as standard, which supports the operator in quickly locating and eliminating irregularities during operation.

Thanks to the modular design of the Bosch boilers and components, the effort for planning and installation could be kept to a minimum. Furthermore, the energy system can be expanded at any time if required or retrofitted with additional efficiency-enhancing modules.