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Extraction System TBH GmbH GL-Series GREENLINE  
STRAUBENHARDT – GERMANY

## **Mature exhaust technology with clearly lower energy consumption**

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The technical requirements at modern exhaust- and filtering systems for the material processing process, are defined today by the legal regulations of the work place safety standards. By the discussions over the high CO<sup>2</sup> output the demands for energy saving concepts become more and more requested. TBH accepted these challenges and offers with the new GL-Series GREENLINE a system family, which does not only cover the legal requirements of the industrial safety standards, but fulfils also the demands for lower energy consumption.

With a granted electricity tariff of 0,27€/kWh, a conventional exhaust system , with an air capacity of 280 m<sup>3</sup>/h and a energy consumption of 1,1 KW, causes energy costs of 2,38 € within an eight-hour period of operation. This value appears acceptable in the first moment. At 220 working days in the year, the total cost will end up at a value of 523 €. With the exhaust- and filtration systems GL230 and GL265, the TBH GmbH launches now two new compact units of the GREENLINE series on the market. Taking in to consideration the same cost parameters, the new GL230 with a higher air capacity of 330m<sup>3</sup>/h and with a much lower energy consumption of 0,24kW, the total energy costs for one year will end up at a value of only 114 €. This corresponds to an annual energy cost saving of 409 €. In the case of a two or a three-shift operation the yearly cost savings will be even between 800 and 1200 EUR.

But not only the reduction of energy costs have been standing in the centre of attention during this new development of the TBH GmbH in Straubenhardt. Also the reduction of the noise level at the work place was one mature goal. The previous value of 62 dB(A) noise level could be reduced over 10 dB(A) by additionally integrated noise reduction elements. This comes up by a humans felt noise bisection. Thus the GL series GREENLINE is now also suitable for the office- and laboratory-similar environment.

Underline: TBH Exhaust- and Filtration System GL230 and GL265

Since 1992, the firm TBH has concerned itself in the development of healthy working environment, without noxious gases, contaminants and dust. Our extraction and filter systems are applied for the protection of human beings, the environment and machines in a great variety of production procedures. These products meet the highest quality standards and have been awarded the required test certificates in the fields of both industry and medicine. Whether standard or individual demands, we have the solution to any extraction or filter requirements – worldwide.