

APPLICATION

The devices in the GL-series feature a compact, modular design which allows simple adjustment of the filter configuration for individual applications. The systems in the GL-series (GREEN LINE) were designed as particularly environmentally friendly extraction and filter systems, reflecting the requirements of TBH GmbH as an environmental technology company. We use special energy-saving and noise-reduced blowers that allow for use even in low-noise environments, such as laboratories and offices. Due to constantly increasing energy costs, device concepts such as the LN 265 - GL 265 in the GL-series (with an energy saving of 65%, for example) are becoming more and more important.

AREAS OF APPLICATION:

- Soldering (multi-site extraction)
- Laser processing
- Processes for working with adhesive/moist dusts
- Processes for working with vapours/gases
- Low-noise environments

THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Modular design - upgradeable with various filter modules
- Simple filter replacement
- Energy-saving, powerful and quiet
- Powerful electronics



Similar to image

FUNCTIONAL PRINCIPLE

The contaminated air is collected by the collection unit (extractor hood, suction arm, hose, etc.) and transported into the filter unit directly or through a pipe or flexible hose. In the filter unit, the contaminant particles are filtered into different filter levels according to their size. Filter units that are equipped with a molecular sieve (for example activated carbon filters/BAC) remove the majority of gaseous contaminants. Afterwards the purified air can either be circulated back into the work area or diverted outdoors through an exhaust duct. Recirculating the air in the work area is an easy way to reduce energy costs.

PRODUCT FEATURES

MODULAR DESIGN - UPGRADEABLE WITH VARIOUS FILTER MODULES

The filter systems of the GL-series can be equipped with different filter modules depending on the application. This optimises filter costs and enables the extraction and filter systems to be adjusted to meet changing requirements.



SIMPLE FILTER REPLACEMENT

The filter is replaced by simply removing it from above. This ensures that the employee can easily replace the filter without getting dirty.



ENERGY-SAVING, POWERFUL AND QUIET

Use of the latest technologies has allowed us to create a very powerful and energy-saving extraction and filter system series. In addition to special low-noise blowers, the systems are equipped with integrated acoustic insulation measures that achieve values of 53-55 db(A), which allows for use even in noise-sensitive environments. The energy savings as compared to traditional systems are another big PLUS for this system series. For example, the LN 265 - GL 265 allows for energy savings of **65%**. In contrast to the LN-series, with the GL-series you always have to make sure that the intake area is large enough.

POWERFUL CONTROL ELECTRONICS

All GL-series systems are equipped with **INSPIRE** control electronics and a comprehensive interface. This allows controlling and monitoring the following functions:

- Switching between run/standby
- Manual adjustment of the rotation speed
- Filter-saturation indicator of the extraction system
- Visual and acoustic display of the filter saturation
- Fault display and notification

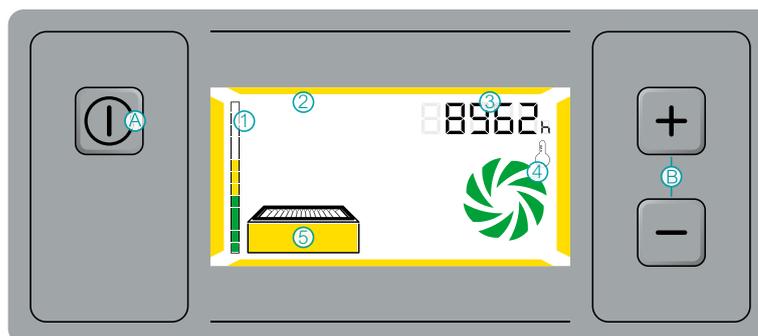
INTERFACE:

- System start/stop
- Warning at a filter saturation of 75%
- Visual and acoustic display of the filter saturation
- Collective fault output (rotation speed, temperature, filter full 100%)
- External adjustment of the rotation speed
- Error memory improves the coordination between the customer and the TBH service
- Parameterization access for the activation of custom functions



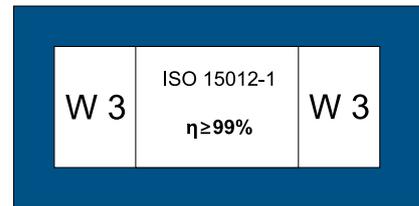
OPERATING ELEMENTS:

- A) Switching between run/standby
- B) Manual adjustment of the rotation speed
- 1) Filter-saturation indicator
- 2) System status indicator
- 3) Performance-setting indicator/ operating-hours meter
- 4) Temperature and turbine-malfunction indicator
- 5) Filter status indicator



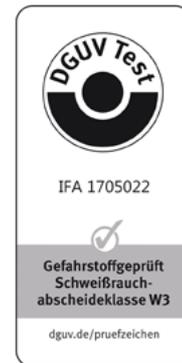
INDUSTRIAL SAFETY AND HEALTH PROTECTION

In order to meet our customers' safety requirements even better, TBH has complemented its product range by different extraction and filter systems specifically tested by the German Institut für Arbeitsschutz (IFA) [Institute for Occupational Safety and Health] in accordance with DIN ISO 15012-1 (2013).



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ADSORPTION OF GASEOUS SUBSTANCES

Two complimentary filter materials are used for the adsorption of gaseous substances. The activated carbon facilitates the physical adsorption process while the BAC granules facilitate a chemical adsorption process. Neutralisation of specific gaseous substances is achieved through chemical binding with the reaction substance that is deposited on the carrier material. Because the physical and chemical adsorption processes are complementary, an extremely wide range of gases and odours can be collected.

Activated carbon



BAC granules



Activated carbon/BAC

