

LN 200-SERIES

APPLICATION

The devices in the LN 200-series feature a compact, modular design which allows simple adjustment of the filter configuration for individual applications. Thanks to the special high-power turbine, the units can be arranged in decentralised positions and extract reliably even over long distances.

AREAS OF APPLICATION:

- Soldering (single/multi-site extraction)
- Laser processing (source extraction tubes, or compact laser cabinets)
- Processes for working with adhesive/moist dusts
- Processes for working with vapours/gases

THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Modular design - upgradeable with various filter modules
- Simple filter replacement
- High negative pressure for powerful extraction
- Powerful electronics



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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/BAC filters) 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 a way to easily reduce energy costs.

PRODUCT FEATURES

MODULAR DESIGN - UPGRADEABLE WITH VARIOUS FILTER MODULES

The filter systems of the LN 200-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 simple, clean filter replacements for the employees or maintenance service staff.



HIGH NEGATIVE PRESSURE FOR POWERFUL EXTRACTION

The devices in the LN 200-series generate especially high negative pressure. This makes them ideal for extracting with small collection elements or even the customer's own equipment or through long extraction ducts. This allows decentralised positioning of the extraction system for multiple extraction sites (for example manual workstations). If you need an effective design for special applications, please contact the TBH sales team.

POWERFUL CONTROL ELECTRONICS

All LN 200-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

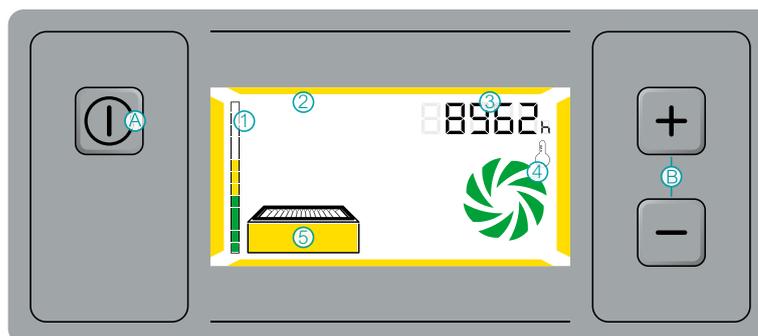
INTERFACE:

- 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



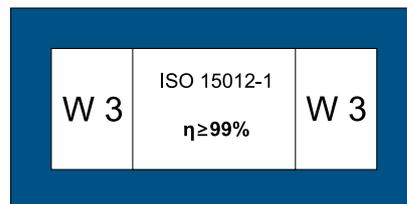
OPERATING ELEMENTS:

- 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



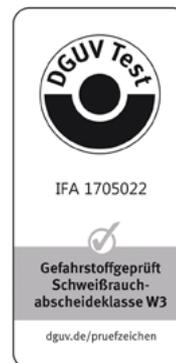
INDUSTRIAL SAFETY AND HEALTH PROTECTION

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

