

LN 600-SERIES

APPLICATION

The devices in the LN 600-series feature a large filter area, providing a long service life. They can be equipped with different filters at the factory to meet individual application requirements. The special high-power blower gives the systems a high effective air flow rate, allowing them to be used in decentralised positions for multi-site extraction.

AREAS OF APPLICATION:

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

THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Upgradeable with various filter modules by the customer
- Simple filter replacement
- High air volume for high-performance 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 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 a way to easily reduce energy costs.

PRODUCT FEATURES

UPGRADEABLE WITH DIFFERENT FILTER MODULES BY THE CUSTOMER

The filter systems of the LN 600-series can be equipped with different filter modules by the customer. This allows the systems to be optimally adjusted to customer-specific requirements and also optimises filter replacement costs.



SIMPLE FILTER REPLACEMENT

For the systems in the LN 600-series, the filters can be easily replaced through the front doors of the individual filter levels. This allows the filters to be changed individually, without requiring that all filters be opened. This ensures that employees or maintenance service staff can replace the filters easily and cleanly.



HIGH AIR VOLUME FOR HIGH-PERFORMANCE EXTRACTION

The systems in the LN 600-series were developed especially for applications which require high air flows, such as extraction from large laser systems. They can also be used as smaller central units for multi-site extraction, for example in areas with soldering fumes. In addition, the LN 615's smaller cross-sections enable it to extract reliably, even over long distances.

INDIVIDUAL FILTER MONITORING FOR OPTIMIZED MAINTENANCE

Using the electronic control system **INSPIRE**, LN 600-series includes separate filter monitoring for Bag filter (pre-filter) and particle filters (main filter). Easing the maintenance planning, this also optimizes the maintenance costs for the customer.

POWERFUL CONTROL ELECTRONICS

All LN 600-series systems are equipped with **INSPIRE** control electronics and a comprehensive interface. This allows controlling and monitoring the following functions:

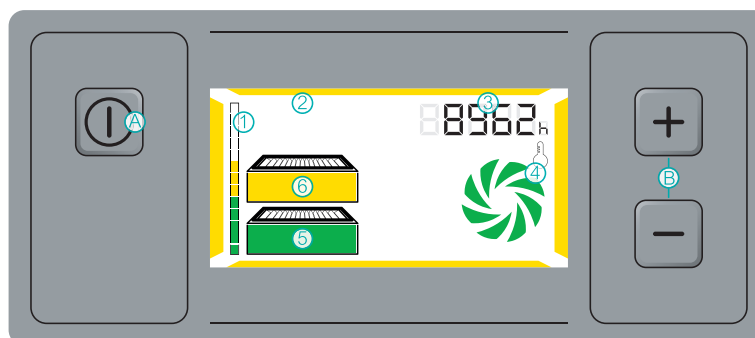
- Switching between run/standby
- Manual adjustment of the rotation speed
- Separate filter monitoring for pocket filter and particle filters with status indicator
- Filter-saturation indicator of the extraction system
- Visual and acoustic display of the filter saturation
- Fault display and notification

INTERFACE:

- System start/stop
- Warning at a filter saturation of 75%
- 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 main filter
- 6) Filter status indicator pre-filter



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

