

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 and large 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
- Easy filter replacement
- Powerful electronics
- High negative pressure for powerful extraction



Similar to image

FUNCTIONAL PRINCIPLE

The contaminated air is drawn in by the collection unit (extractor hood, suction arm, hose, etc.) and transported into the filter unit directly. In the filter unit, the contaminant particles are filtered into different filter levels according to their size. All BF series units are equipped with an activated carbon/BAC filter element to 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.



EASY 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.



POWERFUL ELECTRONICS

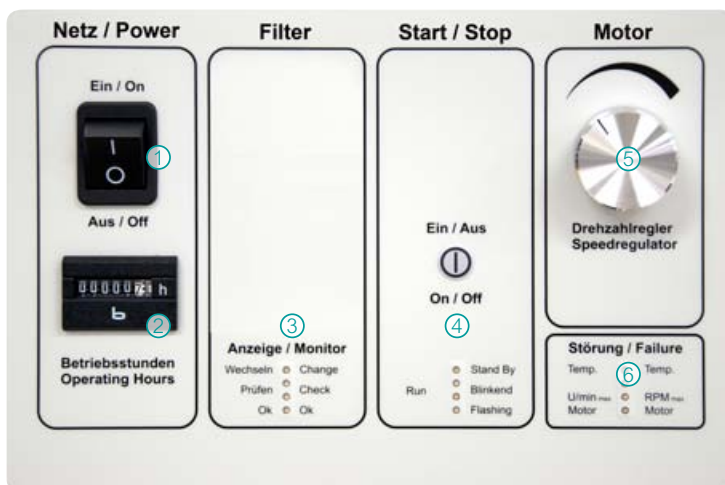
All systems come equipped with a 25-pin D-sub interface. The following functions can be controlled and monitored using both the display and this interface:

- Fully adjustable speed control (automatic readjustment as the filter saturation increases)
- Advance warning when filter saturation reaches 75%
- Visual and acoustic signals when filter is saturated
- Displays notification of malfunctions
- Switching between start and standby modes



OPERATING ELEMENTS:

- 1) Power switch
- 2) Operating hour meter
- 3) Filter saturation indicator
- 4) Switch between run and stand-by modes
- 5) Manual speed control
- 6) Temperature and turbine malfunction indicator



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 nozzles 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.

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.



TECHNICAL DATA LN 230



Similar to image

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- Laser processing (source extraction tubes, or compact laser cabinets)
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INCLUDES:

- Fully assembled
- 4 wheels for mobile use
- Power cable

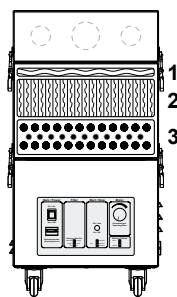
TECHNICAL SPECIFICATIONS	UNIT	STANDARD	M	TM
Unimpeded air flow rate	m ³ /h / cfm	max. 320/188	max. 320/188	max. 320/188
Effective air flow rate	m ³ /h / cfm	50-250/29-147	50-250/29-147	50-250/29-147
Max. static pressure	Pa / in.H2O	20000/80	20000/80	20000/80
Voltage	V	230*/120	230*/120	230*/120
Frequency	Hz	50*/60	50*/60	50*/60
Power input	kW	1.1	1.1	1.1
Protection class	-	1	1	1
Motor and drive system	-	brushless motor		
Noise level	db(A)	~ 62	~ 62	~ 62
Serial interface	D-sub	25-pin	25-pin	25-pin
Weight	kg / lbs	~ 40/88	~ 50/110	~ 58/128
Dimensions (HxWxD)	mm	700x350x350	1070x350x350	1335x350x350
Dimensions (HxWxD)	inch	27.56x13.78x13.78	42.13x13.78x13.78	52.56x13.78x13.78
DN 50 intake socket	number	2	2	2
DN 80 intake socket	number	1	1	1
DN 100 intake socket	number	1	1	1
Colour	RAL	7035	7035	7035

* optional

FILTER CONFIGURATION

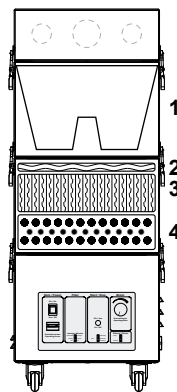
	Pre-filter mat (F5)	✓	✓	✓
T	Pocket filter (F5/F6)	-	-	✓
M	MP-TEC filter (F7)	-	✓	✓
	Particle filter (H13)	✓	✓	✓
	Activated carbon/BAC filter	10 liter	10 liter	10 liter

ORDER DATA LN 230



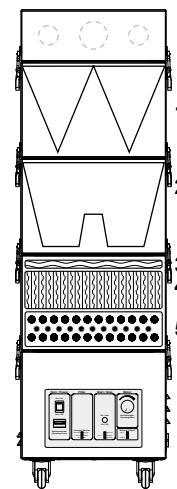
STANDARD

DESCRIPTION	ART.-NO.
LN 230 230V 50/60Hz	on request
LN 230 120V 50/60Hz	90002



M

DESCRIPTION	ART.-NO.
LN 230 230V 50/60Hz	on request
LN 230 120V 50/60Hz	90002



TM

DESCRIPTION	ART.-NO.
LN 230 230V 50/60Hz	on request
LN 230 120V 50/60Hz	90002

ADDITIONAL MODULES	
M-Module	13344

ADDITIONAL MODULES	
T-Module	12938
M-Module	13344

REPLACEMENT FILTERS		
Pocket filter	-	
MP-TEC filter	-	
Pre-filter mat (20 pcs)	12950	1
Particle filter	10013	2
Activated carbon/BAC	10004	3

REPLACEMENT FILTERS		
Pocket filter	-	
MP-TEC filter	13333	1
Pre-filter mat (20 pcs)	12950	2
Particle filter	10013	3
Activated carbon/BAC	10004	4

REPLACEMENT FILTERS		
Pocket filter	12738	1
MP-TEC filter	13333	2
Pre-filter mat (20 pcs)	12950	3
Particle filter	10013	4
Activated carbon/BAC	10004	5