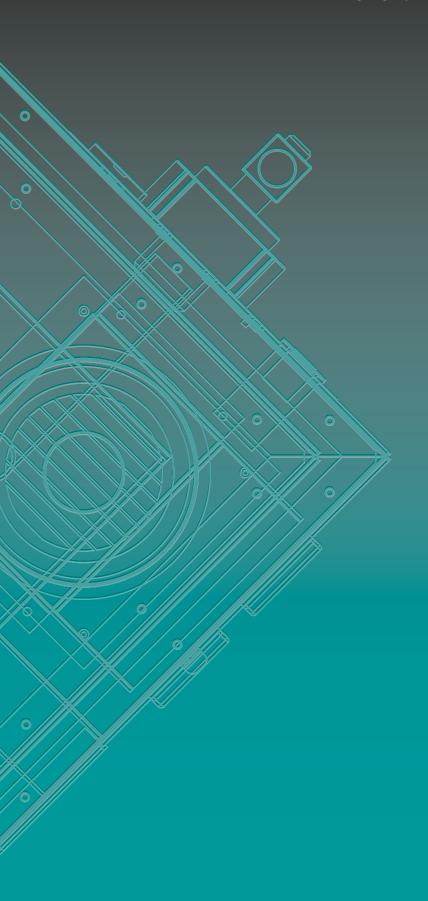
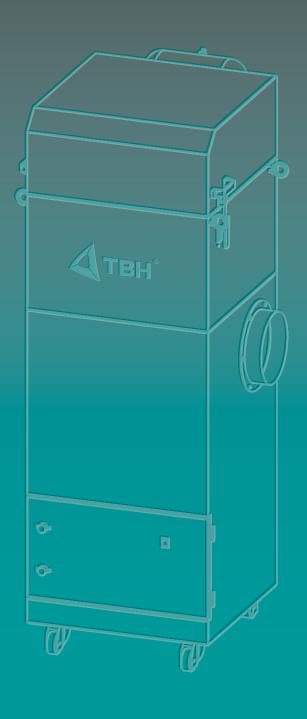


EXTRACTION / FILTER / POLLUTION CONTROL // TECHNOLOGY







APPLICATION

The FPV 202 filter cartridge pre-separator was specially designed to significantly extend the service life of a downstream extraction and filter system of the LN/GL series. The system is equipped with cleanable filter cartridges which allow dust build-up to be removed from the filter using bursts of compressed air. The device is therefore particularly suitable for applications in which large amounts of dry dust are extracted. Compared to solutions with pure saturation filters, the FPV 202 system and downstream extraction and filter system have very long service lives . The optionally available cleaning control unit also allows the system to be flexibly integrated into the overall system.

A precoating of the filter cartridges with Precofix 200 allows even glutinous substances to be extracted, such as those produced during laser processing of plastics, wood and rubber.



- Laser processing (in some cases combined with precoating)
- Mechanical processing (grinding, deburring, milling, drilling, cutting)
- Transferring materials, packaging processes, transporting/ conveying processes
- Decentralised set-up for multiple workstations

THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Designed for larger amounts of dust
- Cleanable filter cartridge
- Simple dust removal
- Automatic cleaning

FUNCTIONAL PRINCIPLE

The contaminated air is collected by the collection unit (extractor hood, suction arm, hose, etc.) and transported into the filter cartridge pre-separator directly or through a pipe or flexible hose. The dust particles are filtered out by cleanable filter cartridges in the filter cartridge pre-separator. The filter cartridges are cleaned by bursts of compressed air which are directed into the filter cartridges by the automatic cleaning system. The filtered-out dust particles are collected in a dust collector for easy disposal. If necessary, a dust bag can also be inserted for low-contamination disposal. The pretreated air is then transported into an appropriately dimensioned extraction and filter system from the LN or GL series.



PRODUCT FEATURES

DESIGNED FOR LARGER AMOUNTS OF DUST

This device acts solely as a passive pre-filter and is operated in combination with a downstream extraction system. It prevents larger amounts of coarser dust from reaching the downstream extraction system and collects them in a separate dust collector, reducing the strain on the downstream filter and increasing the filter service life of the entire filter system.

CLEANABLE FILTER CARTRIDGES

The FPV 202 is equipped with six cleanable filter cartridges of dust class M. The filter cartridges are made of BGIA (Institute for Occupational Safety and Health of the German Social Accident Insurance)/USGC tested filter material with a special fold that allows optimal cleaning.

Depending on the application, special coated versions can be used. Please contact the TBH sales team for more information.



new filter cartridge



filter cartridge in use



filter cartridge after cleaning

SIMPLE DUST REMOVAL

The dust collected in the process can be disposed of using the removable dust collector. If necessary, an anti-static dust bag can also be inserted for low-contamination disposal.









AUTOMATIC CLEANING

STANDARD:

The FPV 202 comes equipped with an automatic cleaning system. This allows you to remove the filtrate from the dust-laden filter cartridges. This helps the system to have a very long service life. The device has a switch that you use to switch cleaning on or off.

OPTIONAL:

The cleaning control unit allows you to program various cleaning modes, operate a Precotech 200 automatic precoating system and integrate the unit into the TBH extraction system.

- Automatic cleaning control unit with various operating modes (interval cleaning, coastdown cleaning, differential pressure-controlled cleaning depending on filter saturation, cleaning via the interface by the customer)
- Differential pressure filter monitoring with indicator for filter cartridge change
- Interface for integration into the TBH extraction system
- Controls connected slide valves

Please see the separate cleaning control unit catalogue for more information.

THE PRECOATING PROCESS

The FPV 202 can be manually precoated with Precofix 200 precoating powder. The precoating powder creates a thin layer separating the filter medium from the extracted particles of dirt. This protects the surface of the filter cartridge and makes it easier to filter out even sticky and moist particles (Figure 1), significantly expanding the range of applications for cartridge filter systems of the FPV and FP series and greatly increasing filter service life under difficult conditions. When combined with the optionally available cleaning control unit, you can also operate the system with a Precotech 200 automatic precoating system.



Figure 1

TECHNICAL DATA FPV 202



AREAS OF APPLICATION:

- Laser processing (in some cases combined with precoating)
- Mechanical processing (grinding, deburring, milling, drilling, cutting)
- Transferring materials, packaging processes, transporting/ conveying processes
- Decentralised set-up for multiple workstations

INCLUDES:

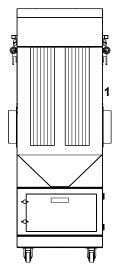
- Fully assembled (incl. the filter configuration of your choice)
- Wheels for mobile use
- Lifting eyes (optional)
- Power cable

TECHNICAL SPECIFICATIONS	UNIT	FPV 202
Max. permissible air flow rate*	m³/h	2000
Voltage	V	230
Frequency	Hz	50/60
Weight	kg	170
Dimensions (HxWxD)	mm	1925x660x660
Ceiling height for filter removal	mm	2335
DN intake socket**	mm	80 - 250
DN outlet socket***	mm	100 - 250
Filter area	m²	16.2
Dust collector	liter	30
Automatic cleaning	-	✓
Cleaning control unit	-	optional
Colour	RAL	7035
* application-dependent ** rear/right	*** selectal	ble

FILTER CONFIGURATION	
Cleanable BGIA C filter cartridge standard (dust class M)	6 x 2.7m²
Cleanable BGIA C filter cartridge anti-static (dust class M)	optional (6 x 2.7m²)



ORDER DATA FPV 202



DESCRIPTION	ARTNO.	
FPV 202 230V 50/60Hz	90211	
ATEX version*	15391	
FILTER CARTRIDGE		
6 x BGIA C standard	standard	
6 x BGIA C anti-static**	14736	

^{*} includes anti-static filter cartridges

INTAKE SOCKET	ARTNO.
Left*	13171
Rear*	13172
DN 80**	14458
DN 100**	14459
DN 125**	14460
DN 160**	14461
DN 200**	14462
DN 250**	14463

^{*} only indicates position ** socket size

PRECOATING CONNECTION PIECE		
DN 80	14481	
DN 100	14482	
DN 125	14484	
DN 160	14483	
DN 200	13714	
DN 250	15410	

REPLACEMENT FILTER CAR	TRIDGES SET	
6 x BGIA C standard	14737	•
6 x BGIA C anti-static	14624	

CLEANING	
Interval cleaning*	standard
Cleaning control unit**	optional

^{*} cleaning is activated using a switch on the device

^{**} For information on which functions are available, check the cleaning control unit catalogue (required when using a Precotech 200)

OUTLET SOCKET	
Right	standard
DN 100	10566
DN 125	10569
DN 160	10577
DN 200	10094
DN 250	10567

^{**} already included in the ATEX version

ACCESSORIES



CLEANING CONTROL UNIT*

DESCRIPTION	USE	ARTNO.
Factory equipment	FPV 202	15350
Retrofit	FPV 202	15279

^{*} required for use with a Precotech 200 automatic precoating system



DESCRIPTION	USE	ARTNO.
Lifting eye set	FPV 202	14408
Precoating adapter*	FPV 202	on request

^{*} adapter for lowering the left precoating connection piece



PRECOATING CONNECTION PIECE

DN (mm)	USE	ARTNO.
DN 80	FPV 202	14481
DN 100	FPV 202	14482
DN 125	FPV 202	14484
DN 160	FPV 202	14483
DN 200	FPV 202	13714
DN 250	FPV 202	15410



PRECOATING ACCESSORIES

DESCRIPTION	USE	ARTNO.
Precofix 200 15 liter	FPV 202	14389
Precofix 200 60 liter	FPV 202	14417

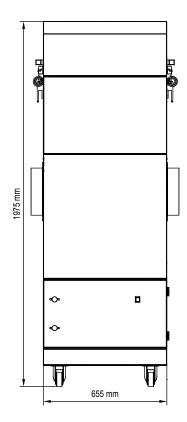


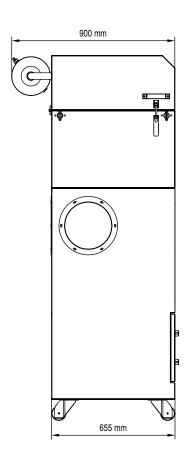
DUST BAG

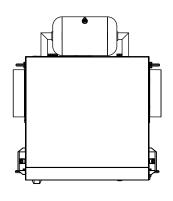
DESCRIPTION	USE	ARTNO.
1 x dust bag set	FPV 202	13993
10 x dust bag set	FPV 202	14367



TECHNICAL DRAWINGS







FPV 202



TBH GmbH

EXHAUST- AND FILTRATION TECHNOLOGY

GERMANY

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