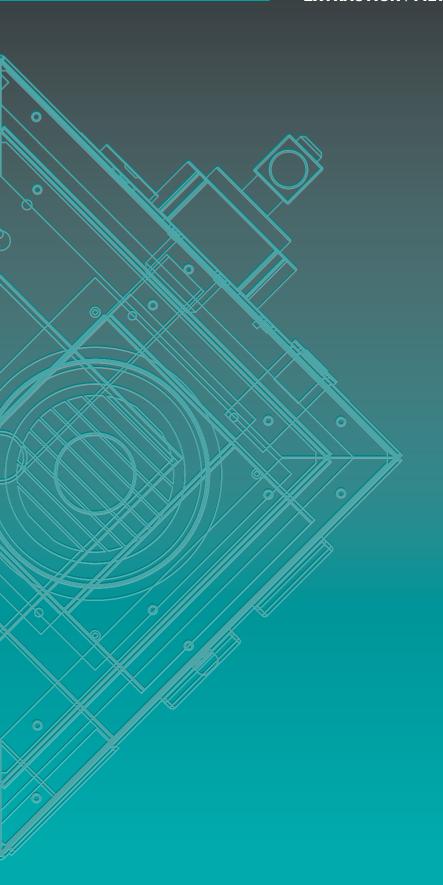
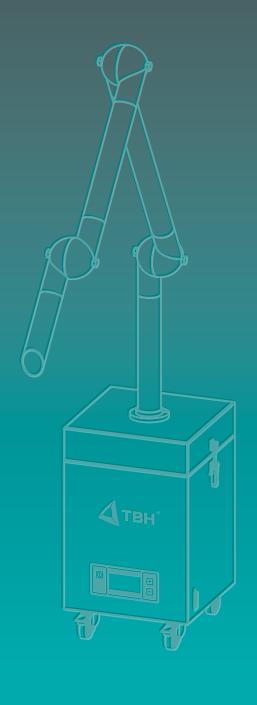
EXTRACTION- AND FILTRATION SYSTEMS

FOR THE FIELDS OF MEDICINE & AESTHETIC



EXTRACTION / FILTER / POLLUTION CONTROL // TECHNOLOGY





MEDICINE AND AESTHETIC EQUIPMENT
MEDIONE AND ACOTHETIC EQUI MENT



MEDICINE & AESTHETIC EQUIPMENT

APPLICATION

Protect yourself, your staff, and your patients with TBH Extraction- and Filtration Systems.

In the laser surgery aerosols will be generated with a particle size of 0.1μ - $2\mu m$. Those laser aerosols (LGAC = Laser Generated Air-boune Contaminants) consist of serveral parts of human fabric. This one being removed from the fabric explosively as a steam or gas mixture. Dangers start out from microorganisms like bacteria, viruses and fungi. These have a particle size of smaller than 2μ and can be completely breathing in and therefore are deposited in the lungs. There is an acute infection risk with that for the operating staff and patient.

Please keep in mind, that the surgery facemask doesn't offer protection in front of air-supported particles. Up to 25% of the respiratory is passing the facemask! It was developed around the patient to protect him from an airborne infection by the operation staff.



Similar to image

AREAS OF APPLICATION:

- Cosmetic surgery
 (Skin removal, Hair removal,
 Alteration of epidermis)
- HF surgery
- Dental medicine
- Endoscopy

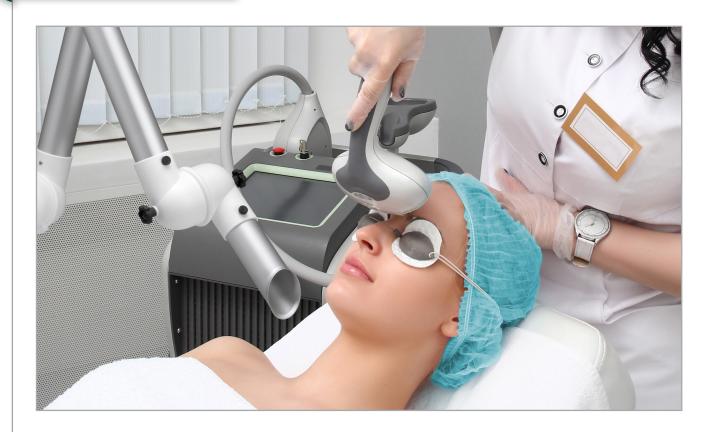
THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Three optional extractors enables different processes and applications
- Electronic features and display functions
- Differential pressure indicator for monitoring the saturation filters
- Easy and clean filter change from the top
- Optimize convenience by using the optional foot switch

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 and in downstream molecular sieve (activated carbon Filter) the gaseous pollutants are largely removed. 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.

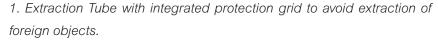
PRODUCT FEATURES



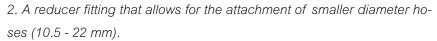
THREE OPTIONAL EXTRACTORS ENABLES DIFFERENT PROCESSES AND APPLICATIONS

Extraction Tube (included in our standard model)

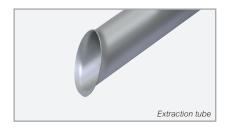
The extraction tube is generally used for smoke and debris where there is no grid cover required.



The grid is a convex design to reduce the risk of material being sucked onto the grid surface during a procedure, blocking air flow. In addition, the protective grid prevents the extraction of foreign objects - non-intentionally or intentionally - that might block the extraction arm (optional).



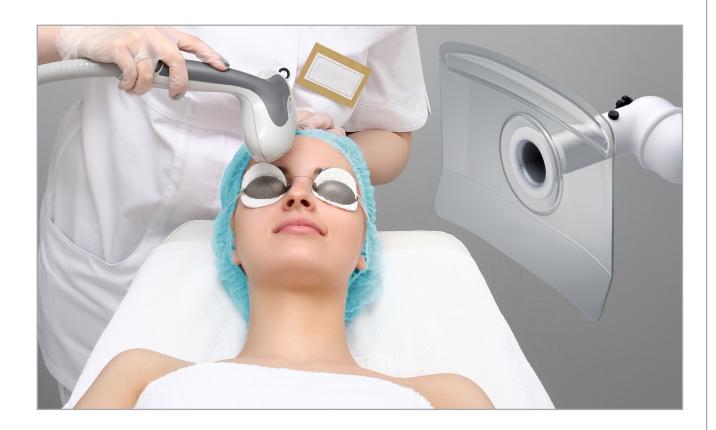
The shown reducer can be attached at the end of the extraction arm. This enables the connection of electrosurgical pencils and there smoke evacuation hand piece. That gives you the opportunity to use one extraction system for all your procedures and applications. These smaller hoses are often used to keep accessibility and visibility at a maximum (optional).











3. Transparent extraction hood enables a wider coverage of pollution

The extraction hood - dimension of 330x240 mm - enables a wider coverage of pollution. The transparent design – polycarbonate - allows a free view for the surgeon to the working surface (optional).



4. Transparent extraction hood enables a wider coverage of pollution

The extraction hood - dimension of 245x220 mm - enables a wider coverage of pollution. The transparent design – polycarbonate - allows a free view for the surgeon to the working surface (optional).



5. Transparent extraction hood enables a wider coverage of pollution

The extraction hood - diameter 385 mm - enables a wider coverage of pollution. The transparent design – polycarbonate - allows a free view for the surgeon to the working surface (optional).



CONTROL ELECTRONICS

The BF-series systems feature INSPIRE control electronics in its basic configuration:

- 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

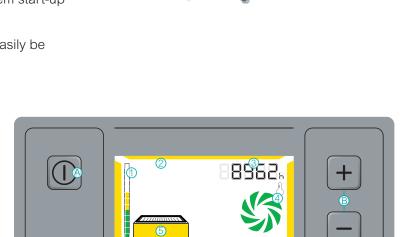


- System start/stop
- Warning at a filter saturation of 75%
- Preselection of run/standby at the system start-up

The extraction and filter system can thus easily be integrated into the customer system.

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 (except of BF9 Set-D)
- 5) Filter status indicator



TBH°

▼ TBH

Figure 1

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EASY AND CLEAN FILTER CHANGE FROM THE TOP

The TBH design concept enables easy access from the top to the different filter stages. This makes filter changing simple and clean.







OPTIMIZE CONVENIENCE BY USING THE OPTIONAL FOOT SWITCH

The optional foot switch provides a hands free Standby / Run operation. The foot switch is easily connected at the interface.



ADSORPTION OF GASEOUS SUBSTANCES

Activated carbon is used for the adsorption of gaseous substances. The activated carbon facilitates a physical adsorption process so a wide range of gases and odours can be collected.



TECHNICAL DATA



AREAS OF APPLICATION:

- Cosmetic surgery
 (Skin renewal, Hair removal,
 Alteration of epidermis)
- HF surgery
- Dental medicine
- Endoscopy

INCLUDES:

- Complete unit with the interior filter accessories (incl. Exhaust arm)
- additional pre-filter mat set (3 pcs)
- 4 wheels for mobile use
- Power cable

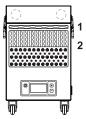
TECHNICAL SPECIFICATIONS	UNIT	BF9 SET-D	BF10 SET-D
Unimpeded air flow rate	m³/h	max. 220	max. 250
Effective air flow rate	m³/h	20-200	20-200
Max. static pressure	Pa	14000	6000
Voltage	V	230/120	100-240
Frequency	Hz	50/60	50/60
Power input	kW	0.7	0.6
Protection class	-	1	1
Motor and drive system	-	brush motor	brushless motor
Noise level	db(A)	approx. 64	approx. 62
Serial interface	D-sub	25-pin	25-pin
Weight	kg	approx. 24	approx. 26
Dimensions (HxWxD)	mm	510x300x300	510x300x300
Intake socket N/D 50	count	2	2
Extraction Arm System 50 with extraction tube	mm	850	850
Colour (cabinet)	RAL	7035	7035
Colour (top cover)	RAL	7037	7037

FILTER CONFIGURATION		
Pre-filter mat (F5)	✓	✓
2-stage filter (particle filter (H13)+ activated carbon filter)	✓	✓

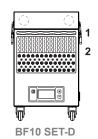
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ORDER DATA



BF9 SET-D



DESCRIPTION	ARTNO.		DES
BF9 SET-D 230V	90389	I	BF1
BF9 SET-D 120V	90390		

DESCRIPTION	ARTNO.
BF10 Set-D 100-240V	90374

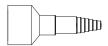
SPARE FILTERS		
Pre-filter mat set (20 pcs)	11141	1
2-stage filter (particle filter + activated carbon filter)	11140	2

SPARE FILTERS		
Vorfiltermatte (20 Stück)	11141	1
2-stage filter (particle filter + activated carbon filter)	11140	2

ACCESSORIES



USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	extraction tube with grid	12777



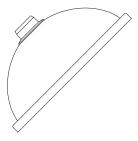
USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	hose connecting laboratory tubing	15232



USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	extraction hood PETG 330x240 mm white	13279



USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	extraction hood PETG 245x220 mm white	10308



USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	extraction hood round 385 mm (polycarbonate)	10359



USE	DESCRIPTION	ARTNO.
BF9 / BF10 Set-D	foot-switch	16369

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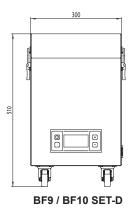
ELECTRONIC CONTROLS

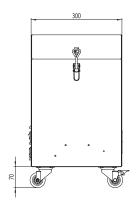
FUNCTION	BF9 SET-D	BF10 SET-D
Switching between run/standby	✓	✓
Manual adjustment of the rotation speed	✓	✓
Filter-saturation indicator (complete system)	✓	✓
Filter status indicator	✓	✓
System status indicator	✓	✓
Performance-setting indicator/operating-hours meter	✓	✓
Temperature and turbine-malfunction indicator	-	✓

INTERFACE FUNCTIONS			
Interface	D-sub	D-sub	
System start/stop	✓	✓	
Warning at a filter saturation of 75%	✓	✓	
Preselection of run/standby at the system start-up	✓	✓	

MEDICINE AND AESTHETIC EQUIPMENT

TECHNICAL DRAWINGS







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NOTES

MEDICINE AND AESTHETIC EQUIPMENT

NOTES



NOTES



TBH GmbH

EXHAUST- AND FILTRATION TECHNOLOGY

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