

Which precautions can be taken?



Mouth-Nose-Protection

Protects against drops in the exhaled air of the person wearing the mask



Respiratory protective mask

Protects the person wearing the mask from inhaling the smallest airborne particles, filtrates at least 78% of viruses or bacteria



Extraction System

Protects against viruses and bacteria in the room air, filtrates them up to 99.95%



Illustration simililar



Filter possibilities of Coronavirus

	 Mouth-Nose-Protection	 Respiratory protective mask	 Extraction system
Protection	Protects against drops in the exhaled air of the person wearing the mask; however, it does not reliably protect against viruses and bacteria	Protects the person wearing the mask from inhaling the smallest airborne particles, filtrates at least 78% of viruses or bacteria from the air breathed by the wearing person	Protects against viruses and bacteria in the room air, filtrates them up to 99.95%
Suitability	For medical and nursing staff to protect patients from respiratory emissions	Without exhalation valve: for medical and nursing staff, rescue and emergency services to protect against transmission of viruses/bacteria With exhalation valve: for non-medical use to protect against aerosols containing viruses/bacteria	For protection against persons in waiting or treatment rooms, offices, public facilities; Is no medical device according to §3 Art. 1 of the MPG
Usage	Comprehensible handling, protection of other persons, if one's infected	Use of mask only after instruction, otherwise no sufficient protective effect	Comprehensible handling, greatly reduces the number of particles (=viruses, bacteria) in the room due to 4-times room air change and H13 filter
Period of usage	Have to be disposed after each use	Depending on classification up to 8 hours or suitable for reuse	System for continuous operation, filter change after status display
Tested	According to EN 14683, standard for "Surgical masks" by the manufacturer	According to EN 149, standard for "Particle filtering half masks" by independent testing body	According to EN 1822, standard for "HEPA filters with very high efficiency (EPA, HEPA, ULPA)" by the manufacturer

Source: PM DGUV: "Mund-Nase-Schutz ist keine Atemschutzmaske" vom 27.03.2020 ("Mouth-Nose-Protection is not a respiratory protective mask" from March 27, 2020)

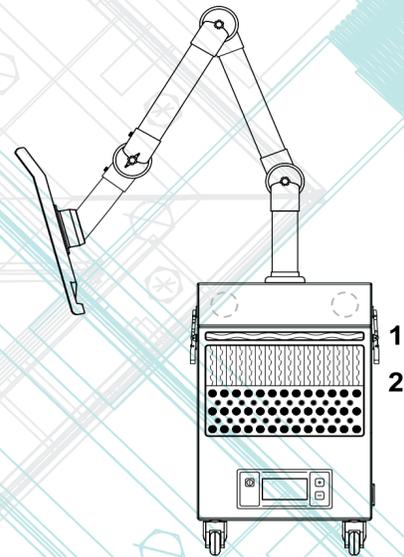


Delivery scope

- Fully assembled (incl. casters for mobile use)
- Power cord
- Filter equipment
- Additional filter equipment (3 pieces)
- Extraction Arm
- Suction hood
- Foot switch
- Power cord



Ordering Data

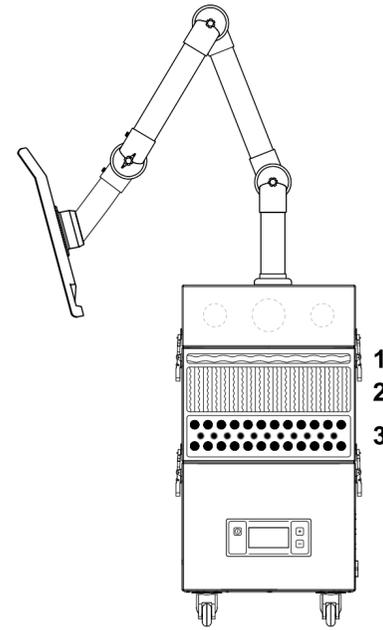


DF 10

STANDARD

DESIGNATION	ART.-NO.
DF 10 100-240V 50/60Hz	90471

SPARE FILTER	ART.-NO.
Pre-filter mat	11141 1
Z-line filter	-
2-Stage-filter (Particle filter + activated carbon filter)	11140 2
Activated carbon filter	-



DF 230

STANDARD

DESIGNATION	ART.-NO.
DF 230 100-240V 50/60 Hz	90472

SPARE FILTER	ART.-NO.
Pre-filter mat	10040 1
Particle filter	10013 2
Activated carbon filter	10004 3

Technical data



	UNIT	DF 10	DF 230
Effective air flow rate	m³/h	20-200	100-300
Voltage	V	100-240	100-240
Frequency	Hz	50/60	50/60
Motor output	kW	0,6	0,6
Class of protection	-	1	1
Drive type		cont. running	cont. running
Sound level	db(A)	ca. 64	ca. 53
Weight	kg	24	45
Dimensions (HxWxD)	mm	510x300x300	700x350x440
Color (housing)	RAL	7035	7035
Color (of lid)	RAL	7037	7035

Accessories



USE	DESCRIPTION	ART. NO.
DF10 / DF230	suction tube with grid	12777



USE	DESCRIPTION	ART. NO.
DF10 / DF230	suction tip system 50 AL 210 mm	10199



USE	DESCRIPTION	ART. NO.
DF10 / DF230	suction hood PETG 330x240 mm white	13279



USE	DESCRIPTION	ART. NO.
DF10 / DF230	suction hood PETG 245x220 mm white	10308



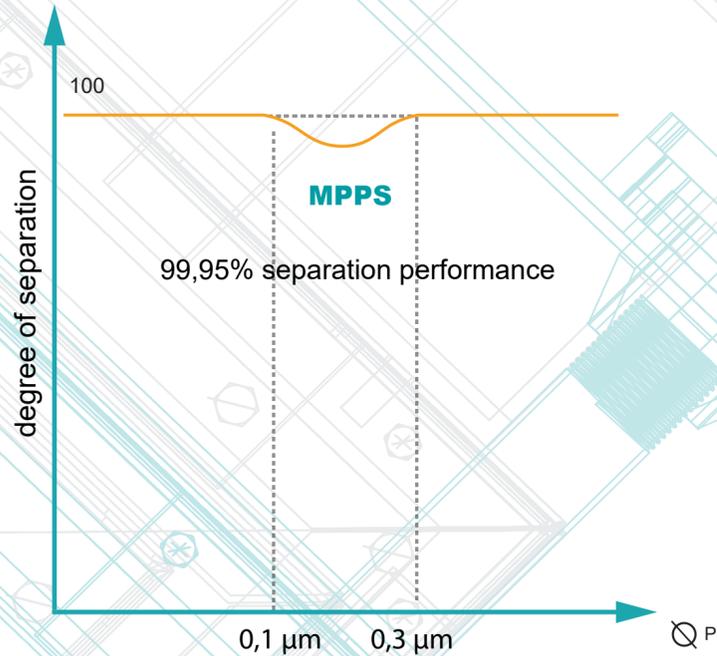
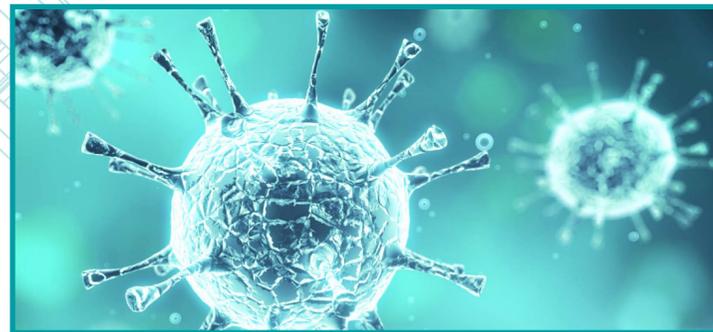
USE	DESCRIPTION	ART. NO.
DF10 / DF230	suction hood round 385 mm (polycarbonate)	10359



Safety through tested particle filters

MPPS = most penetrating particle size

Corona viruses have a size of 20 - 160nm, which is 0.02 - 0.16µm. Our systems extract and separate all particles <0.1µm and >0,3µm to 100%, and particles in between to 99.95%.



Corona viruses are easy to extract for this system. The integrated H13 filters are tested in accordance with ISO1822 criteria and their effectiveness in accordance with ISO 15012. High safety requirements are thus met. Awarded W3 and the DGUV seal, the system offers triple protection for humans, environment and machinery and is accordingly listed on the "IFA positive list". TBH is specialized in laser dusts with a confirmed separation efficiency of up to 1nm in laser processes.

W 3	ISO 15012-1 $\eta \geq 99\%$	W 3
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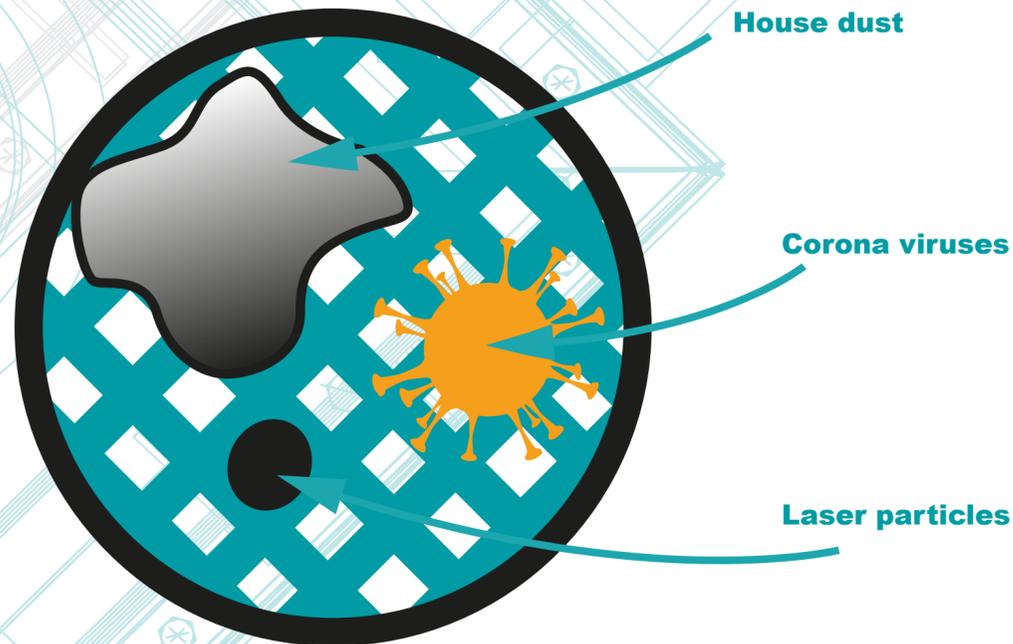


H13-Filter



H13-Filter = 99,95% separation efficiency
Influences on degree of separation:

- Larger filter surface
- Longer contact times
- Reducing volume flow
- Criteria in accordance with ISO 1822 approved efficiency tested in accordance with ISO 15012



Double adsorption power Absorbs odors due to integrated activated carbon filter



Active carbon



BAC granulate



Active carbon / BAC

The adsorption of the gaseous substances takes place with activated carbon (physical adsorption) and BAC granulate (chemical adsorption). In addition, they take up a very broad spectrum

of gases and odours. -> Neutralization through chemical bonding with the reaction substance applied to the substrate material.