















Technical Documentation ULT JUMBO Filtertrolley

Version 002



















Contents

Features of the JUMBO Filtertrolley extraction and filtration unit 4 Equipment 5 Technical Data ULT JUMBO Filtertrolley 7 Characteristic Curves and Operating Modes ULT JUMBO Filtertrolley 2.0 (230 V) 8 Application ACD – Odor, Gas and Vapors 9 Areas of application 9 Functional principle 9 Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Va	Description of Product Series	4
Technical Data ULT JUMBO Filtertrolley 7 Characteristic Curves and Operating Modes ULT JUMBO Filtertrolley 2.0 (230 V) 8 Application ACD - Odor, Gas and Vapors 9 Areas of application 9 Functional principle 9 Device variants 10 Application ASD - dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS - laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA - Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19	Features of the JUMBO Filtertrolley extraction and filtration unit	4
Characteristic Curves and Operating Modes ULT JUMBO Filtertrolley 2.0 (230 V) 8 Application ACD – Odor, Gas and Vapors 9 Areas of application 9 Functional principle 9 Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21 <th>Equipment</th> <th> 5</th>	Equipment	5
Application ACD – Odor, Gas and Vapors 9 Areas of application 9 Functional principle 9 Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Technical Data ULT JUMBO Filtertrolley	7
Areas of application 9 Functional principle 9 Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Characteristic Curves and Operating Modes ULT JUMBO Filtertrolley 2.0 (230 V)	8
Areas of application 9 Functional principle 9 Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Application ACD - Odor, Gas and Vapors	9
Device variants 10 Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21		
Application ASD – dust and smoke 11 Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Functional principle	9
Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Device variants	10
Areas of application 11 Functional principle 11 Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Application ASD – dust and smoke	11
Device variants 12 Application LAS – laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21		
Application LAS - laser smoke 13 Areas of application 13 Functional principle 13 Device variants 14 Application LRA - Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Functional principle	11
Areas of application 13 Functional principle 13 Device variants 14 Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Device variants	12
Functional principle 13 Device variants 14 Application LRA - Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Application LAS - laser smoke	13
Device variants 14 Application LRA - Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Areas of application	13
Application LRA – Soldering smoke 15 Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Functional principle	13
Areas of application 15 Functional principle 15 Device variants 16 Series MED – Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Device variants	14
Functional principle 15 Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Application LRA - Soldering smoke	15
Device variants 16 Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Areas of application	15
Series MED - Medical laser smoke 17 Areas of application 17 Functional principle 17 Device variants 18 Restauro series - Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series - Dust, Gases, Vapors 21	Functional principle	15
Areas of application 17 Functional principle 17 Device variants 18 Restauro series – Dust, Smoke, Vapors 19 Areas of application 19 Functional principle 19 Device variants 20 LabCat series – Dust, Gases, Vapors 21	Device variants	16
Functional principle	Series MED - Medical laser smoke	17
Functional principle	Areas of application	17
Restauro series - Dust, Smoke, Vapors		
Areas of application	Device variants	18
Areas of application	Restauro series – Dust, Smoke, Vapors	19
Functional principle		
LabCat series – Dust, Gases, Vapors21		
	Device variants	20
	LabCat series - Dust, Gases, Vapors	21
Functional principle21	Functional principle	21
Device variants22		

















Accessory items	24
DN50 extraction system	
DN75 extraction system	
Interface accessories	
Replacement filter	

















Description of Product Series

The units in the series of the JUMBO Filtertrolley product range are suitable for collecting and filtering contaminants and impurities in the form of dusts and gases. There are suitable multi-level filtering systems for every possible industrial application and the most diverse compositions of harmful or unwanted substances.

The contaminants and impurities generated during the customer's process are collected directly from the point of origin via the collection elements and filtered by the JUMBO Filtertrolley product range. High precipitation rates are achieved thanks to the targeted combination of the available single filters. The underlying filter technology uses the principles of particle separation for dust and the principle of adsorption for gaseous substances.

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.

The JUMBO Filtertrolley can be optionally combined with a diverse range of accessories. The right accessories can be selected according to the customer requirements.

Features of the JUMBO Filtertrolley extraction and filtration unit

- An exchangeable filter system lowcontamination removal
- Low replacement filter costs hanks to the multilevel filter system with competitively priced prefilter elements with increased absorption capabilities
- Very low energy consumption thanks to energyefficient electronics
- The electrical equipment provided enables worldwide use: operable at 230 V or 100 - 120 V
- Integrated sound insulation ensures that the device operates extremely quietly
- Central on/off switch
- Exhaust position freely selectable
- · Continuously adjustable air flow controller
- Filter clogging indicator with indication of clogging of the intake and exhaust openings
- Impact-resistant ABS plastic housing
- Unit is **mobile** with wheels and a telescopic handle
- Standard extraction openings 1x Ø50; optional 1x Ø75
- Alsident extraction arms can be directly mounted













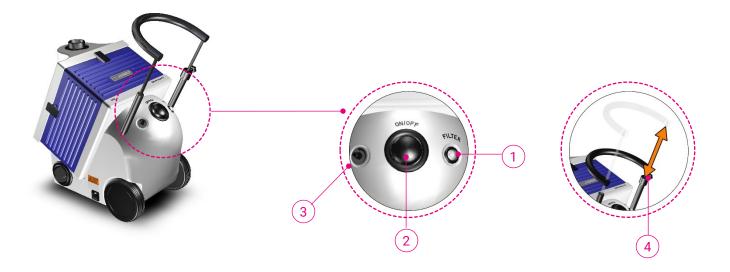






Equipment

Figure 1: Front operating panel





Loaded particle filter indicator

 When the particulate filter is saturated, the indicator lights up (red)



On/Off switch



Potentiometer

 Direct control of the blower speed



Retractable telescopic handle







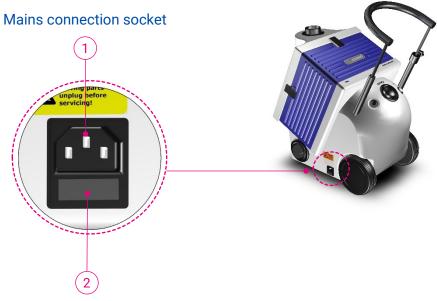








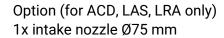
Figure 2: Interfaces



Fuse for mains voltage

Figure 3: Air intake versions

Standard configuration 1x intake nozzle Ø 50 mm





















Technical Data ULT JUMBO Filtertrolley

Table 1: Technical Data ULT JUMBO Filtertrolley (230V) / (100-120V)

PARAMETER	UNIT	230V	100 – 120V
Volumetric flow, max.	m³ / h	190	150 (100V) - 160 (120V)
Vacuum max.	Pa	3.200	2.500 (100V) - 2.700 (120V)
Rated operating point	m³/h @ Pa	80 @ 1.900	65 @ 1.300 (100V) 80 @ 1.400 (120V)
Protection rating	IP	54	54
Noise level (@ 50 - 100% air throughput)	dB(A)	49 - 54	49 - 54
Vacuum generator type		EC- blower	EC- blower
Rated voltage	VAC	1~230	1~100 - 120
Rated frequency	Hz	50/60	50/60
Motor rating	kW	0,15	0,15
Rated current	А	1,0	2,0
Air flow controller			yes
Loaded particle filter indicator optical			yes
Interface SUB D9			no
Dimensions (Width x Depth x Height)	mm	340 x 4	-50 x 530 - 850
Weight (without filter)	kg	approx. 21	
Max. filter weight	kg	a	oprox. 15
Air intake versions:	Standard Option	1x Ø 50 mm nozzle 1x Ø 75 mm nozzle	
Connection options		Hose connection or arm i	nstallation
Extracted air outlet::		2 adjustable exhaust nozz	zles
	Location	On the bottom on both sid	des
Mains power cable	m	3,0	











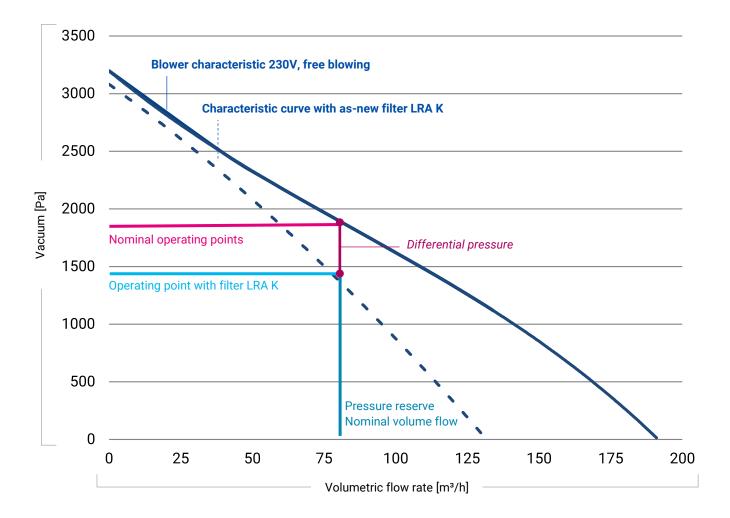






Characteristic Curves and Operating Modes ULT JUMBO Filtertrolley 2.0 (230 V)

Figure 4: Characteristic Curves and Operating Modes (230 V)



















Application ACD - Odor, Gas and Vapors

Areas of application

Adhesive Bonding | Priming | Painting/Printing | Cleaning | Laminating | Casting

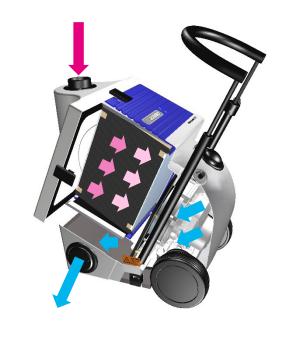
Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

The coarse-dust particles are precipitated and held back in the first filter stage. The precipitation (adsorption) of gaseous and vaporous air contaminations takes place in the activated carbon filter.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The filter construction is adapted to the nominal volumetric flow of the devices so that the contact period is sufficient for achieving a good adsorption response.

Activated carbon is not suitable as an adsorption medium in the presence of a multitude of gases and gaseous mixtures. The chemisorption adsorption process can be used in such applications, either as an alternative or as a supplement. A chemical alteration of the substances to be precipitated takes place in this connection.







Filtration



Clean gas

When this procedure is used, the filter is filled with a mixture of activated carbon and chemisorption medium or the activated carbon is replaced in its entirety by the chemisorption medium.

Thanks to the high degree of cleaning, the <u>filtered clean gas</u> can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.

















A variety of filter combinations is available for the suctioning and filtration of gases, odors and vapors. The available filter materials exhibit different suitabilities for precipitation, depending on the contaminant present. For expert advice for the selection of the correct filter medium, please contact your local dealer or ULT AG directly using ult@ult.de.

In accordance with customer-specific requirement, the JUMBO Filtertrolley series of units can be equipped with the following filter attachments:

FILTERTROLLEY 2.0 ACD

Table 2: Filtertrolley 2.0 ACD

Part number for complete device:	1-00017
Filter set-up for organic gases:	Main filter A6
(1) Adsorption filter cassette A6	
Filter medium:	Activated carbon bed (6 kg)

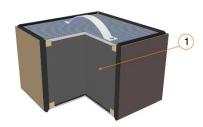


Table 3: 50 vol% Chemisorption für ACD

Part nu	ımber of option:	9-00117
Filter fo	or gas mixtures:	Main filter module AC8
(1)	Chemisorption filter cassette AC8	
	Filter medium:	Granulate bed made of 50 vol% activated carbon and 50 vol% chemisorption medium (total 8 kg)

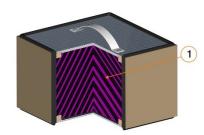
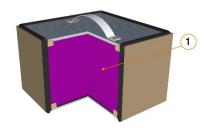


Table 4: 100% Chemisorption für ACD

Part nu	ımber of option:	9-00118
Filter for gaseous sulfur & nitrogen compounds:		Main filter module C10
(1)	(1) Chemisorption filter cassette C10	
	Filter medium:	Granulate bed made of 100% chemisorption medium (10 kg)



















Application ASD - dust and smoke

Areas of application

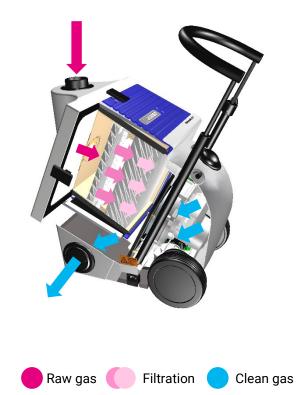
Grinding | Engraving | Polishing | Filling and dosing processes

Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

In production processes in which powder materials are processed or materials are sawed, milled or ground, dust contaminates the working area. In addition, mechanical processes can generate smoke by heating the processed materials. Dust and smoke are harmful to health and affect the quality of production processes. For this reason, these pollutants must be removed from the work area.

The filter set-up used is specially designed for this purpose. An upstream Z-Line filter in a carton retains coarse dust particles. The Z-Line filter is integrated into a disposal carton and is sealed at the raw gas. The raw gas enters via the lip seal. The Z-Line filter can be disposed of via the disposal carton at a low level of contamination. The particles contained in the raw gas are precipitated in a multi-stage storage filter system. Thanks to their depth penetration, the filter mats used are particularly suitable for the precipitation of a wide spectrum of particles and for cooled smoke constituents.



The prefilter elements prevent premature clogging of the downstream H13 main filter element. Regularly changing the prefilter elements at shorter intervals significantly extends the functionality of the main filter.

Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the particle filter cassette H13. This guarantees a precipitation rate of 99.95%.

Thanks to the high degree of cleaning, the <u>filtered clean gas</u> can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.















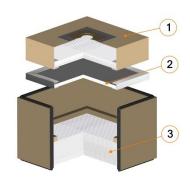


Units in the JUMBO Filtertrolley series can be equipped with the following filter set-up for extracting and filtering air contamination in the form of dust and smoke:

FILTERTROLLEY 2.0 ASD

Table 5: Filtertrolley 2.0 ASD

Part nu	ımber for complete device:	1-00047
Filter s	et-up for dust and smoke:	Combined filter cassette
(1)	Z-Line filter G4	
	Filter class:	ISO Coarse 90% according ISO 16890
(2)	Filter mat M5	
	Filter class:	ISO Coarse 85% according ISO 16890
(3)	Particle filter cassette H13	
	Filter class:	H13 High Efficiency Particulate Air (HEPA) filter, suspended matter filter according to DIN EN 1822



















Application LAS - laser smoke

Areas of application

Laser Cutting | Laser Marking | Laser Structuring | Laser Engraving

Functional principle

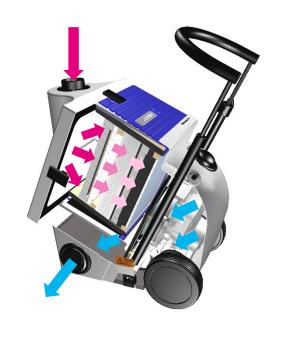
An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

The versatile work processes in which lasers are used generate laser smoke. This toxic, corrosive mixture of aerosol, gas and nanoparticles poses a health hazard and adversely affects the product and process quality. Depending on the process, very different precipitating mixtures of substances can be created, which must be removed from the raw gas.

The filter set-up used is specially designed for this purpose. An upstream filter combination of an expanded metal filter and filter mats retains aerosols and particles and prevents premature clogging of the downstream H13 main filter element.

The upstream expanded metal filter can be cleaned in an industrial washer, making it reusable.

Regularly changing the prefilter mats at shorter intervals significantly extends the functionality of the main filter.





Thanks to their depth penetration, the prefilters used are particularly suitable for the precipitation of laser smokes. A majority of the particles contained in the laser smoke are trapped at this stage. Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the combined filter cassette H13A. This guarantees a particle precipitation rate of 99.95%.

The precipitation (adsorption) of gaseous and vaporous air contamination takes place in the activated carbon bed of the combined filter cassette H13A.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.















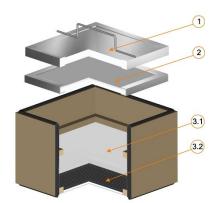


Units in the JUMBO Filtertrolley series can be equipped with the following filter set-up for suctioning and filtering harmful gas/dust mixtures from laser machining processes:

FILTERTROLLEY 2.0 LAS

Table 6: Filtertrolley 2.0 LAS

Part nu	ımber for complete device:	1-00084
Filter s	et-up for laser smoke:	Multi-stage filter cassette
(1)	Expanded metal prefilter	
	Metal mesh, condensation	filter
(2)	Interchangeable frame wit	h M5 and F7 filter mat
	Filter mat M5:	ISO Coarse 85% according ISO 16890
	Filter mat F7:	ISO ePM10 75% according ISO 16890
(3)	Combined filter cassette H	I13A
	(3.1) Particulate filter H13	3
	Filter class:	H13 High Efficiency Particulate Air
		(HEPA) filter, suspended matter filter
		to DIN EN 1822
	(3.2) Adsorption filter A	
	Filter medium:	Activated carbon bed



















Application LRA - Soldering smoke

Areas of application

Manual Soldering | Robot Soldering | Soldering Systems at Special Workstations

Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

When soldering work is performed, soldering smoke forms out of vaporizing flux, small quantities of solder and gas-emitting substances from working circuit boards and components. This is comprised of a mixture of adhesive aerosols, particles and gases that must be removed from the raw gas.

The filter set-up used is specially designed for this purpose. An upstream filter combination of an expanded metal filter and filter mats retains the cooled, sticky aerosols in the suction line and particles in the soldering smoke to prevent premature clogging of the downstream H13 main filter element.

The expanded metal filter can be cleaned in an industrial washer and can be reused multiple times.

Regularly changing the filter M5/F7 filer mat combination at shorter intervals significantly extends the functionality of the main filter.





Thanks to their depth penetration, the filter mats used are particularly suitable for the precipitation of soldering smokes. A majority of the particles contained in the soldering smoke are trapped at this stage. Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the combined filter cassette H13A. This guarantees a particle precipitation rate of 99.95%.

The precipitation (adsorption) of gaseous and vaporous air contamination takes place in the activated carbon bed of the combined filter cassette H13A.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.















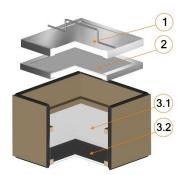


Units in the JUMBO Filtertrolley series can be equipped with the following filter set-up for extracting and filtering harmful gas/dust mixtures from soldering processes:

FILTERTROLLEY 2.0 LRA

Table 7: Filtertrolley 2.0 LRA

Part nu	mber for complete device:	1-00094
Filter s	et-up for soldering smoke:	Multi-stage filter cassette
(1)	Expanded metal prefilter	
	Metal mesh, condensation	filter
(2)	Interchangeable frame wit	h M5 and F7 filter mat
	Filter mat M5	ISO Coarse 85% according ISO 16890
	Filter mat F7	ISO ePM10 75% according ISO 16890
(3)	Combined filter cassette H	13A
	(3.1) Particulate filter H13	3
	Filter class:	H13 High Efficiency Particulate Air (HEPA) filter, suspended matter filter to DIN EN 1822
	(3.2) Adsorption filter A	
	Filter medium:	Activated carbon bed



















Series MED – Medical laser smoke

Areas of application

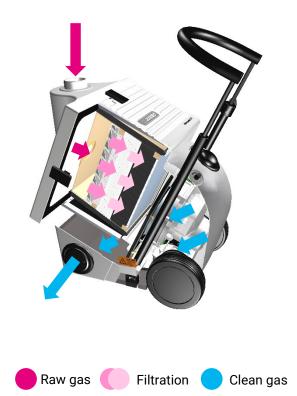
Medical laser smoke

Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. The pollutant-laden raw gas is thus reliably extracted.

Laser smoke resulting from medical applications presents a health risk to patients and medical personnel. This is a mixture of fine dust and corrosive aerosol that can enter the lungs and is also contaminated with bacteria. A simple face mask is not sufficient here. Laser smoke also damages the equipment through the depositing of strongly adherent coatings. These pollutants must therefore be completely removed directly at the point of origin.

The filter set-up used is specially designed for this application. The combination of prefiltering, suspended matter filtering and a large activated carbon layer ensures a high rate of precipitation of the gases and vapors that are potentially hazardous to health. The particles contained in the laser smoke are precipitated in a multi-stage storage filter system. Extremely fine suspended substances are retained by the ULPA U15 filter in the U15 combined filter cassette. This guarantees a particle precipitation rate significantly greater than 99.9995%.



The precipitation (adsorption) of gaseous air contamination takes place in the activated carbon bed of the U15A combined filter cassette.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.















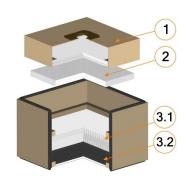


Units in the JUMBO Filtertrolley series can be equipped with the following filter set-up for extracting and filtering laser smoke resulting from medical applications:

FILTERTROLLEY 2.0 MED

Table 8: Filtertrolley 2.0 MED

Part num	nber for complete device:	1-00096
	up for combustion products al laser applications:	Combined suspended matter filter
(1)	Z-Line filter cassette G4	
ſ	Filter class:	ISO Coarse 90% according ISO 16890
(2)	Filter mat M5	
ſ	Filter class:	ISO Coarse >85% according ISO 16890
(3)	Combined filter cassette U15A	4
((3.1) Particulate filter U15	
I	Filter class:	U15 Ultra Low Penetration Air (UPLA) filter, suspended matter filter according to DIN EN 1822
((3.2) Adsorption filter A	
	Filter medium:	Activated carbon bed



















Restauro series – Dust, Smoke, Vapors

Areas of application

Grinding | Polishing | Restoration and Cleaning of Objects of Art

Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

Dust, smoke and also often gases and vapors are released during the restoration of cultural objects. The restorers are subjected to these contaminants for long periods of time, which endangers their health. The dust also settles on the objects again. Effective extraction and filter technology is therefore essential.

The filter set-up used is specially designed for this purpose. An upstream filter combination retains coarse dust particles and prevents premature clogging of the downstream H13 main filter element. Regularly changing the upstream Z-Line filter and the M5 filter mat at shorter intervals significantly extends the functionality of the main filter.

The particles contained in the dust are precipitated in a multi-stage storage filter system. Thanks to the depth penetration, the filter mat used is particularly suitable for the precipitation of dusts. A majority of the particles







contained in the dust are trapped at this stage. Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the combined filter cassette H13A. This guarantees a particle precipitation rate of 99.95%.

The precipitation (adsorption) of gaseous and vaporous air contamination takes place in the activated carbon bed of the combined filter cassette H13A.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.















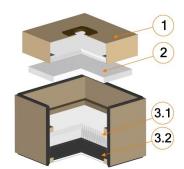


Units in the JUMBO Filtertrolley series can be equipped with the following filter set-up for extracting and filtering harmful gas/dust mixtures from restoration processes:

FILTERTROLLEY 2.0 RESTAURO

Table 9: Filtertrolley 2.0 Restauro

Part nu	ımber for complete device:	1-00100
Filter s	et-up for dust:	Combined suspended matter filter
(1)	Z-Line filter cassette G4	
	Filter class:	ISO Coarse 90% according ISO 16890
(2)	Filter mat M5	
	Filter class:	ISO Coarse >85% according ISO 16890
(3)	Combined filter cassette H	13A
	(3.1) Particulate filter H13	3
	Filter class:	H13 High Efficiency Particulate Air (HEPA) filter, suspended matter filter according to DIN EN 1822
	(3.2) Adsorption filter A	
	Filter medium:	Activated carbon bed



















LabCat series - Dust, Gases, Vapors

Areas of application

Analysis and synthesis processes in laboratories | Research tasks in medical technology, pharmaceutics, and chemistry

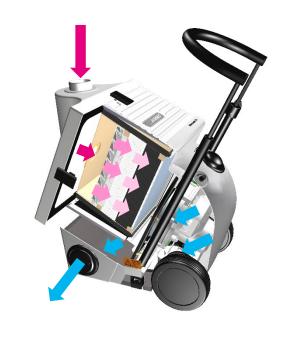
Functional principle

An EC blower generates a volumetric flow suitable for the application on the clean-gas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

Hazardous airborne contaminants are often caused during analysis and synthesis processes in laboratories. Usually they occur in small quantities, but particularly in chemical, pharmaceutical or medical fields they may become highly dangerous for human health.

The filter set-up used is specially designed for this purpose. An upstream filter combination retains coarse dust particles and prevents premature clogging of the downstream H13 main filter element. Regularly changing the upstream Z-Line filter and the M5 filter mat at shorter intervals significantly extends the functionality of the main filter.

The particles contained in the dust are precipitated in a multi-stage storage filter system. Thanks to the depth penetration, the filter mat used is particularly suitable for the precipitation of dusts. A majority of the particles contained in the dust are trapped at this stage.





Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the combined filter cassette H13A. This guarantees a particle precipitation rate of 99.95%.

The precipitation (adsorption) of gaseous and vaporous air contamination takes place in the activated carbon bed of the combined filter cassette H13A.

The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

For applications where harmful gases and gas mixtures occur in particular, the LabCat A variant also offers filter assemblies specially designed for these cases. Instead of the combination filter, the device then contains a filter filled with activated carbon as an adsorbent. In the case of gases and gas mixtures for which activated carbon is not suitable, it is replaced by chemisorption medium.

















Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat.

Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances.

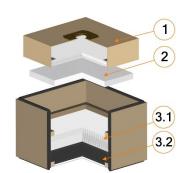
Device variants

Units in the JUMBO Filtertrolley series can be equipped with the following filter set-ups for extracting and filtering harmful gas/dust mixtures at laboratory applications:

FILTERTROLLEY 2.0 LABCAT K

Table 10: Filtertrolley 2.0 LabCat K

Part nu	ımber for complete device:	1-00051
Filter s	et-up for dust:	Combined suspended matter filter
(1)	Z-Line filter cassette G4	
	Filter class:	ISO Coarse 90% according ISO 16890
(2)	Filter mat M5	
	Filter class:	ISO Coarse >85% according ISO 16890
(3)	Combined filter cassette H13A	
	(3.1) Particulate filter H13	3
	Filter class:	H13 High Efficiency Particulate Air (HEPA) filter, suspended matter filter according to DIN EN 1822
	(3.2) Adsorption filter A	
	Filter medium:	Activated carbon bed



FILTERTROLLEY 2.0 LABCAT A

Table 11: Filtertrolley 2.0 LabCat A

Part number for complete device:	1-00050
Filter set-up for organic gases:	Main filter module A6
(1) Adsorption filter cassette A6	
Filter medium:	Activated carbon bed (6 kg)



Table 12: 50 vol% Chemisorption für ACD

Part number of option:	9-00117
Filter for gas mixtures:	Main filter module AC8
(1) Chemisorption filter cassett	e AC8
Filter medium:	Granulate bed made of 50 vol% activated carbon and 50 vol% chemisorption medium (total 8 kg)

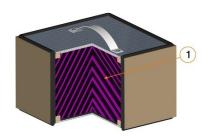


















Table 13: 100% Chemisorption für ACD

Part	number of option:	9-00118	
	er for gaseous sulfur & nitroge apounds:	n Main filter module C10	
(1) Chemisorption filter cass	ette C10	
	Filter medium:	Granulate bed made of 100% chemisorption medium (10 kg)	



















Accessory items

DN50 extraction system

Hoses





Suction hose DN 50,	antistatic,	6-06757
per meter	without accessories	
Suction hose DN 50,	antistatic,	3-00430
2 meter	with adapter piece	
Suction hose DN 50,	antistatic,	3-00431
3 meter	with adapter piece	
Suction hose DN 50,	antistatic,	3-00432
5 meter	with adapter piece	

Hose accessories



Tail DN 50	antistatic, connection device to	3-00434
	hose	

Extraction arms



Alsident system 50, antistatic	945 mm for table/device	50-4737-1-6
extraction arm	mounting	

Collecting elements



Flat screen antistatic	Alsident System 50, accessory	1-503324-6
Round hood aluminum antistatic	Alsident System 50, accessory	1-5024-6
Extractor tube antistatic	Alsident System 50, accessory	1-5021-6
Suction gap antistatic	Alsident System 50, accessory	1-5020-6

















DN75 extraction system

Hose



extraction hose DN 75, per	Antistatic, without accessories	6-06748
meter		

Hose accessories





Tail DN 75	Antistatic	3-00457
Pièce en Y DN 75 - 50	Antistatic	6-02939
worm drive hose clip	70 – 90 mm	6-06918

Extraction arms



Alsident System 75, extraction	1290mm for table/device	75-6555-1-5
arm	mounting	

Collecting elements







Flat screen	Alsident System 75, accessory	1-753324-5
Round hood aluminum	Alsident System 75, accessory	1-7524-5
Extractor tube	Alsident System 75, accessory	1-7525

















Interface accessories

Device power cables – supplied free of charge with ordered device



Swiss device power cable	Length 3,00 m	6-06056
UK device power cable	Length 2,00 m	6-06063
USA device power cable	Length 2,00 m	6-06091
EU device power cable (CEE 7/7)	Length 3,00 m	6-05990















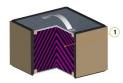


Replacement filter

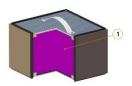
ACD



Filter A6	
Adsorption filter cassette A6	4-00378

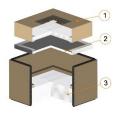


Filter AC8	
Chemisorption filter cassette AC8	4-00404



Filter C10	
Chemisorption filter cassette C10	4-00402

ASD



Filter H	
Z-Line filter cassette G4	4-00325
Z-Line filter cassette G4 - set of 10 pcs	4-00048
Replacement frame with Filter mat M5	4-00263
Filter mat M5	4-00229
Filter mat M5 - set of 10 pcs	4-00230
Particle filter cassette H13	4-00020

LAS



4-00295
4-00262
4-00227
4-00228
4-00046









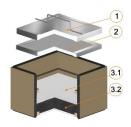






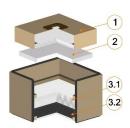


LRA



Filter K	
Expanded metal	4-00295
Replacement frame with Filter mats M5/F7	4-00262
Filter mats M5/F7	4-00227
Filter mats M5/F7 - set of 10 pcs	4-00228
Combined filter cassette H13A	4-00046

MED



Filter U15A	
Z-Line filter cassette G4	4-00053
Z-Line filter cassette G4 -set of 10 pcs	4-00054
Filter mat M5	4-00231
Filter mat M5 - set of 10 pcs	4-00232
Combined filter cassette U15A	4-00052

Restauro



Filter K	
Z-Line filter cassette G4	4-00053
Z-Line filter cassette G4 -set of 10 pcs	4-00054
Filter mat M5	4-00231
Filter mat M5 - set of 10 pcs	4-00232
Combined filter cassette H13A	4-00050

LabCat K



Filter K	
Z-Line filter cassette G4	4-00053
Z-Line filter cassette G4 -set of 10 pcs	4-00054
Filter mat M5	4-00231
Filter mat M5 - set of 10 pcs	4-00232
Combined filter cassette H13A	4-00050

LabCat A



Filter A6	
Adsorption filter cassette A6	4-00378







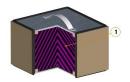




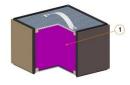








4-00404	
	4-00404



Filter C10		
Chemisorption filter cassette C10	4-00402	

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