



Technical Documentation

ULT 1200 2Pa

Version 001



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Description of Product Series

The product range in the ULF 1200 series can be used for collection and filtration of harmful substances and unwanted substances in the form of dusts and gases. Suitable multi-stage filtration systems are available for all industrial applications to deal with different configurations of harmful or unwanted substances.

The harmful and unwanted substances produced in the relevant customer process are collected via collection elements directly at the point of creation and are then filtered by the units in the ULF 1200 series. Through targeted combination of the available individual filters, highest separation rates are achieved. The underlying filtration technology uses particle separation techniques for dusts and

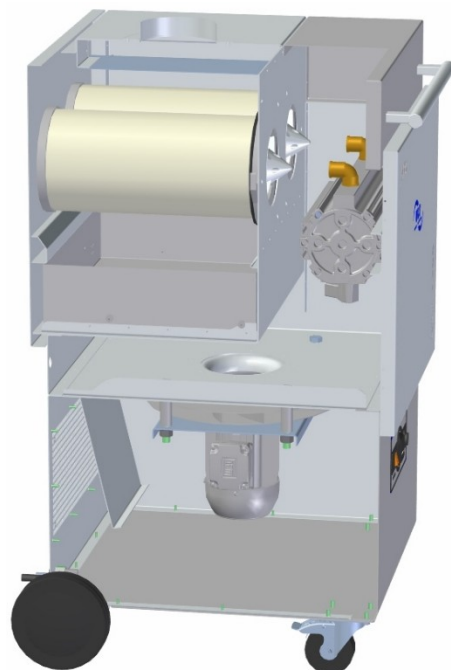
adsorption and chemisorption techniques for gaseous substances

Thanks to the high degree of purification, the filtered clean gas can be directed back to the working space (recirculated air mode). As a result, there are no thermal losses. If recirculated air mode is not desired, an optionally available pipe nozzle can be easily installed to quickly and simply reconfigure the setup so that the outlet air is discharged rather than being fed back in. The filtered clean gas is then directed into an air outlet system.

The units in the ULF 1200 series can be optionally combined with a wide range of accessories. Suitable accessory parts can be selected based on the individual requirements of the customer.

Features ULF 1200 Extraction and Filtration Unit

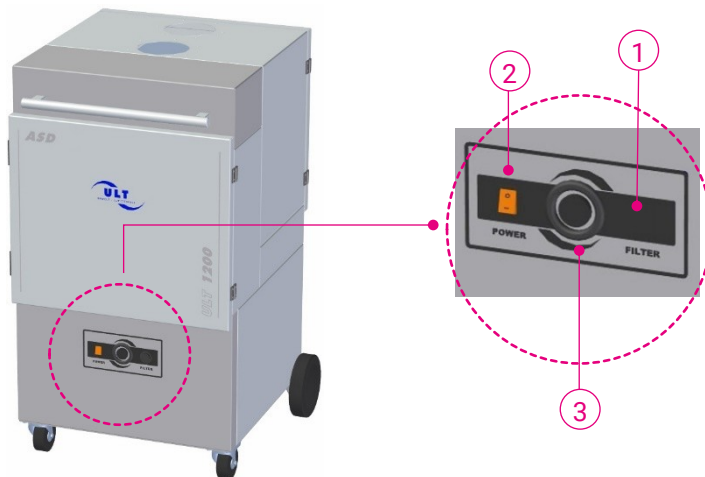
- Mobile unit with casters
- cartridge filter system with automatic cleaning
- 30 l dust collecting bin
- easy filter handling, module construction
- front operating panel
- robust steel housing
- powder coated 7035 light grey, RAL 7001 silver grey





Equipment

Figure 1: front operating panel



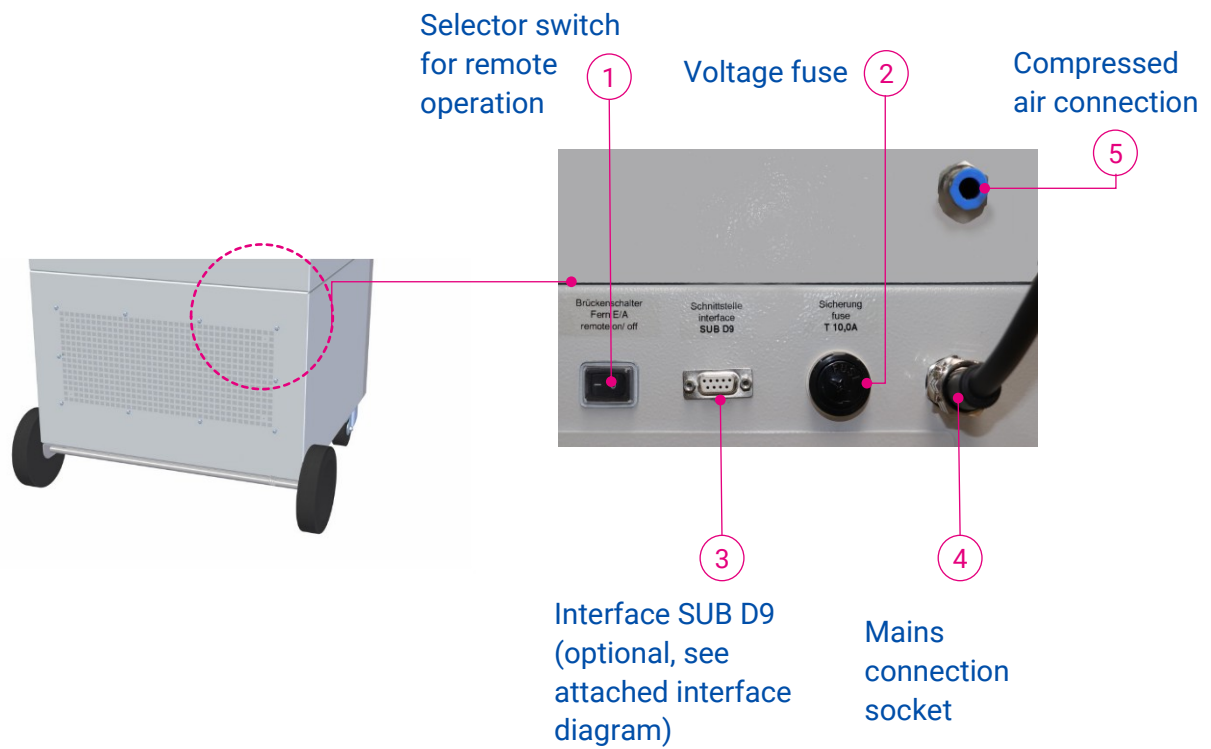
- ① Particle filter saturation signal
- An acoustic signal is emitted when the particulate filter is saturated.

- ② ON/OFF switch

- ③ Potentiometer
- Direct control of the blower speed



Figure 2: interfaces on the rear





Technical Data ULT 1200

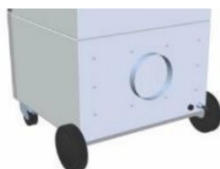
table 1: Technical Data ULT 1200

PARAMETER	UNIT	MD.18	MD.18d
Max. volumetric flow rate	m ³ / h	1.500	1.700
Max. vacuum	Pa	2.940	3.350
Rated operating points	m ³ /h @ Pa	1.000 / 1.700	1.000 / 1.700
Protection class	IP	54	54
Sound level (@ 50 - 100% volumetric flow rate)	dB(A)	55 - 65	55 - 65
Vacuum generator type		EC-blower	EC-blower
Rated voltage	VAC	1~230	1~120
Rated frequency	Hz	50/60	50/60
Rated motor power	kW	0,86	1,20
Rated current	A	4,8	13
Volumetric flow rate controller		Yes	Yes
particulate filter load indicator	Acoustic	Yes	Yes
Operating hours counter		Optional	Optional
Sub D9 interface		Optional	Optional
Digital device control integrated	(1*)	Optional	Optional
Digital device control removed		Optional	Optional
Air outlet DN 200	(2*)	Optional	Optional
Dimensions (width x depth x height)	mm	790 x 820 x 1.240	
Weight	kg	Ca. 200	
Air intake versions:	Nozzle Location	1x Ø160 mm collar flange At the top of the device	
	Alternative: Nozzle Location	2x Ø 160 mm collar flange At the top of the device	
	Montage Location	Mount for flextractor-extraction arm Ø 160 mm At the top of the device	
Air outlet:	Location	Air outlet grille Bottom of the rear back	
	Alternative: Nozzle Location	1x Ø 200 mm collar flange Bottom of the rear back	
Mains cable EU (CEE 7/7)	m	5,0 (Country-specific version selectable)	

(1*)



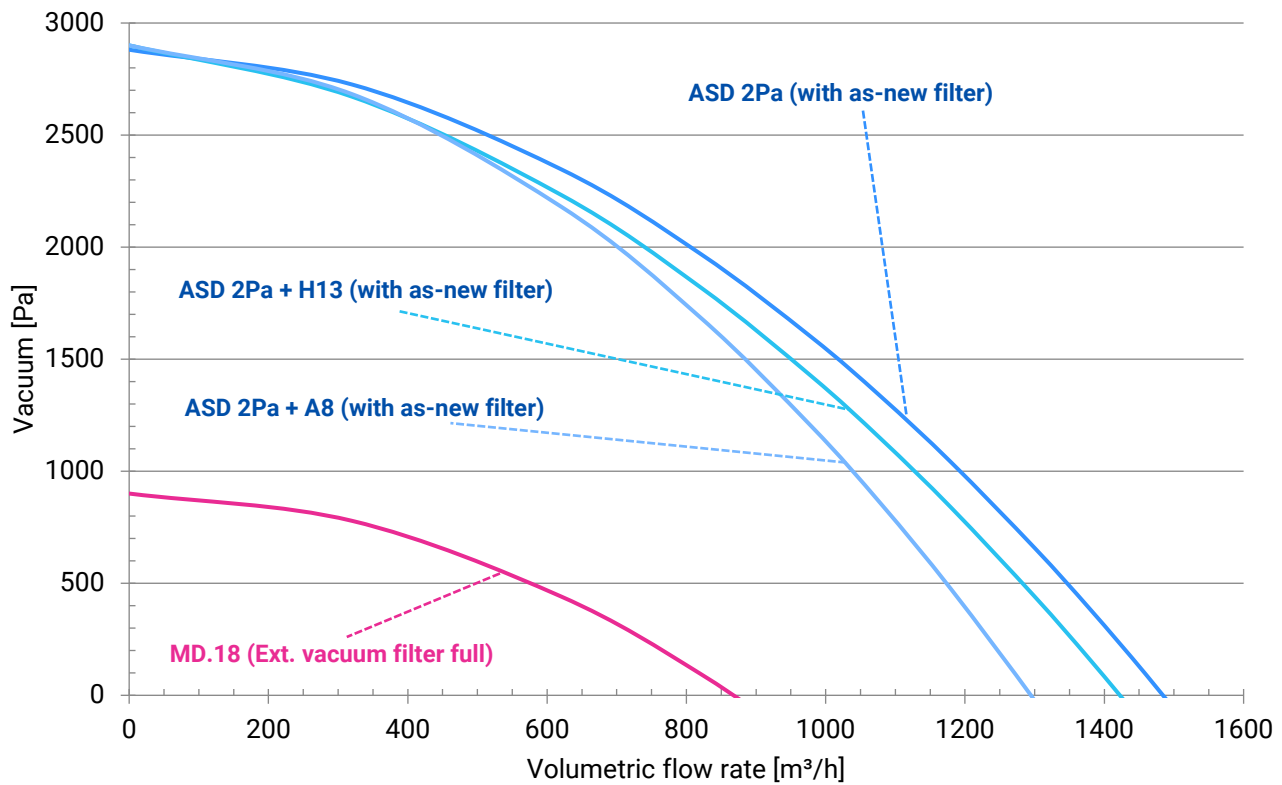
(2*)





Characteristic Curves (230 V)

Figure 3: Characteristic curves of ASD MD.18 2Pa; ASD MD.18 2Pa + H13 and ASD MD.18 2Pa + A8





ASD Series – Dust and Smoke

Area of application

Grinding | Engraving | Polishing | Filling and Dosing Processes | Restoration

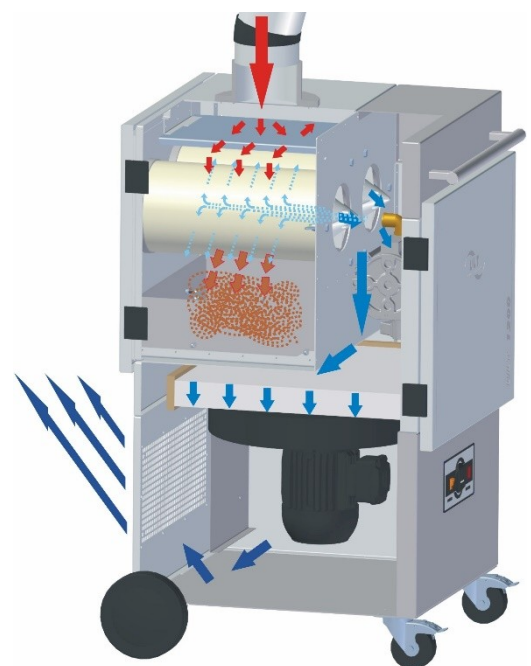
Operating principle

At the clean-air side of the filter, a vacuum generator with a high-pressure reserve produces a volume flow matched to the respective application. This volume flow can be individually and infinitely variably regulated. Thus, the polluted air will be reliably extracted

The **Particles** are captured directly at the place of their origin by appropriate collecting elements and through an applicable piping system the pollutants are carried to the filter elements. To prevent the filter elements from getting worn out in short time they are protected by a baffle plate or a non-return flap at the air intake holding back large particles.

The particles are separated and held back on two **filter cartridges** (nanocoated polyester fibre) by the surface filtration principle. Clogged filter cartridges are automatically and individually treated with rotation air nozzles based on the **counter flow cleaning principle**. The particles blown off fall into collecting bin provided for the removal and disposal of the **filter deposit**.

This excellent filter efficiency makes it possible to recirculate the **filtered air** and reduce energy costs.



● Raw gas ● Filtration ● Clean gas



Device Variants

ASD 1200 MD. 18 2PA

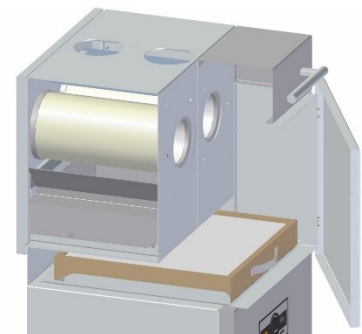
Table 2: ASD 1200 MD. 18 2Pa

Part number/ complete unit:		1-00040
Filter configuration for dust and smoke		complete filter set 4-00167
(1)	Filter cartridges 2x	
	Filter material:	Polyester fiber
	Filter class:	filter cartridges of dust class M according to DIN EN 60335-2-69
Total surface: 9m ² (2 x 4,5m ²)		



Table 3: ASD 1200 MD.18 2Pa (optional filter configuration, only one version possible)

Part number/ complete unit:		9-00094
Post-filter for gases and vapors		
	Front insert for post filter	
(1)	Adsorption filter cassette A8	
	Filter medium:	Activated carbon – Filter (8 kg)
Part number/ complete unit:		9-00095
Post-filter for suspended particulates		
	Front insert for post filter	
(1)	Particle filter cassette H13	
	Filter class:	HEPA filter according to DIN EN 1822





Accessory items

Suction system DN150

hoses



Suction hose DN150, By the meter	antistatic, without accessories	6-06752
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Hose accessories



Spiral hose clamp	145-165 mm	6-06966
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Suction system DN160

hoses



Suction hose DN160, By the meter	antistatic, without accessories	6-06842
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Hose accessories



Spiral hose clamp	155-175 mm	6-06954
End fitting DN160	antistatic	6-07282



Elements for extraction



**swivel, 360 Degrees,
polyester-coated steel
black**

device assembly,
Extraction arms,
Flextractor accessories

CB-SU-160

Extraction arms



**jointed extraction arm
DN160m,
2 meter**
Resistant to welding fumes, oil
resistant

with wall bracket,
without capturing element
Flextractor accessories

CA2-160-
BPU-301

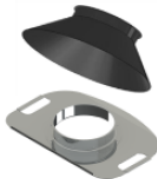


**extendable extraction arm
DN160m,
1,2-1,6 Meter**
Resistant to welding fumes, oil
resistant

without capturing element
Flextractor accessories

CT2-160-
BPU-301

Collecting elements



Flared hood coated black

Flextractor accessories

CH-160-
Flared

Flat hood coated

Flextractor accessories

CH-160-Flat

Extraction arm set Flextractor



**Articulated extraction arm
DN160,
3m, with slewing ring**
abrasion, chemicals, welding
fume, oil and temperature
proof up to 90°C

Flextractor accessories

5-01587



incl.
flat hood, powder coated



incl.
flat hood, powder coated



Elements for extraction arm mounting for EX-applications



**360° swivel,
mild steel polyester coated
black**

device assembly,
Extraction arms,
Flextractor accessories

XCB-SU-160

Extraction arms for Ex-Applications



**Extraction arm DN160m,
2 meters**

with wall bracket,
without capturing element
Flextractor accessories

XCA2-160-
BPE-322

ATEX certified



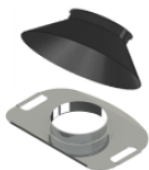
**Telescopic arm DN160m,
1,2-1,6 meters**

without capturing element
Flextractor accessories

XCT2-160-
BPE-322

ATEX certified

Collecting elements for Ex- applications



Flared hood ATEX certified

Flextractor accessories

XCH-160-
Flared

Flat hood ATEX certified

Flextractor accessories

XCH-160-
Flat

Extraction arm set Flextraction ATEX



Articulated extraction arm
DN160, 3m, with slewing ring,
ATEX-certified
Chemicals and temperature
proof up to 80°C

Flextractor accessories

5-01588



incl.
flat hood, powder coated,
ATEX-certified



incl.
intake mesh
ATEX-certified



Suction system DN200

Hoses



Suction hose DN200, by the meter	antistatic, without accessories	6-06753
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Hose accessories



Spiral hose clamp	195-215 mm	6-06955
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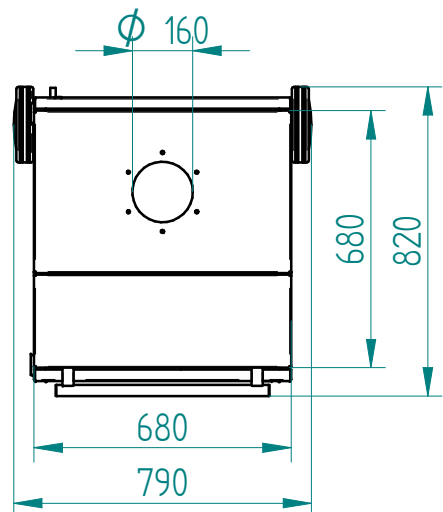
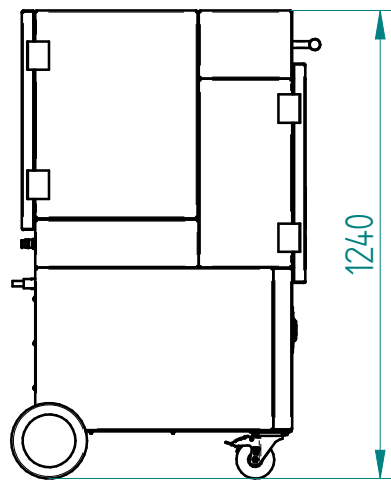
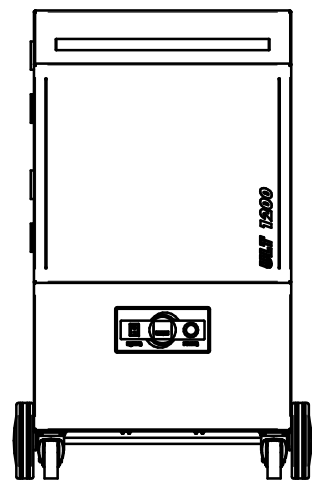


Replacement Filters

ASD



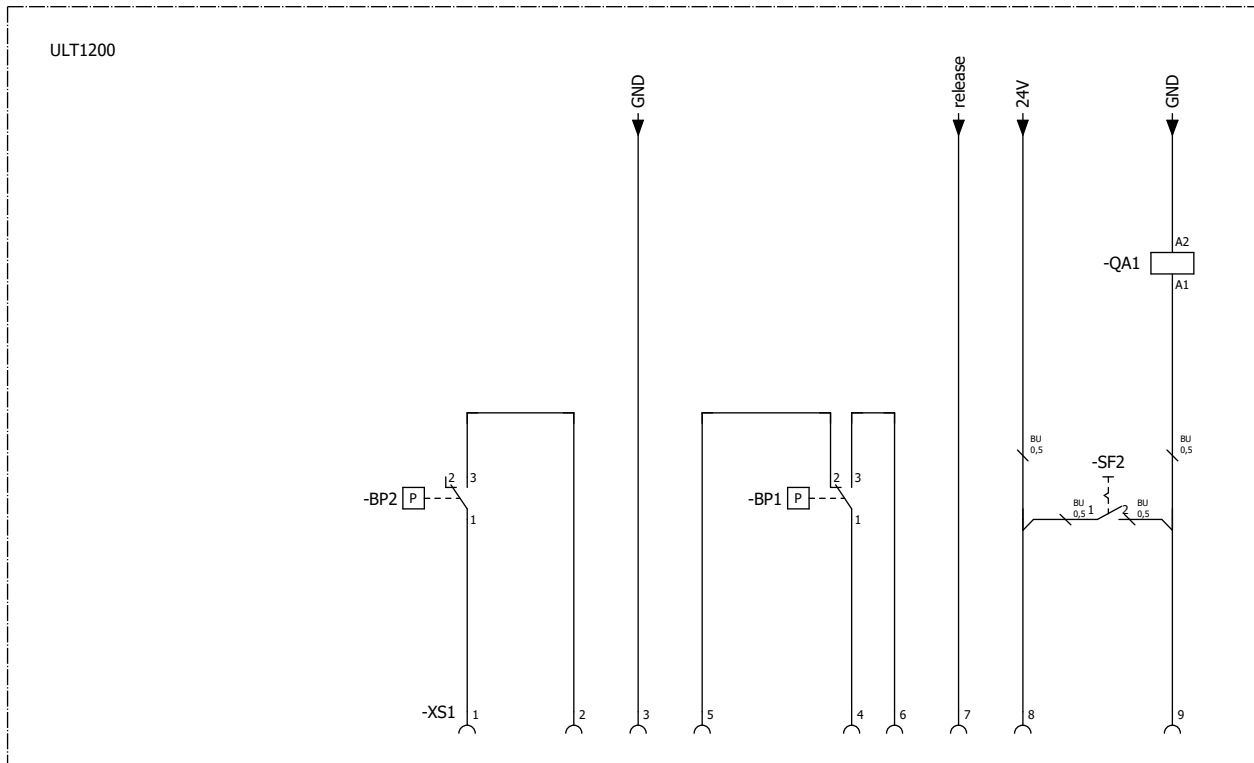
Filter 2Pa	
Filter cartridges - Set of 2 pcs	4-00167
Particle filter cassette H13*	4-00100
Adsorption filter cassette A8*	4-00398
*optional	



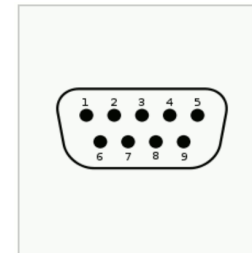
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002	Beschriftung	06.11.12	JSACZ	2012	Datum	Name	Zeichnungsnummer:	
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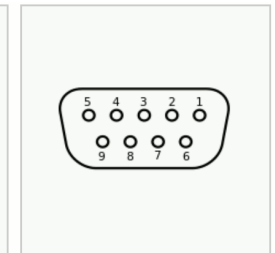




-XS1



DE-9¹
9-pol Stift (männlich)



DE-9¹
9-pol Buchse (weiblich)

XS1:1/2 Betriebsmeldung, potentialfreier Schließer / operation potential free normally open contact
 XS1:3 Masse / GND / ground / GND
 XS1:4/5/6 Filtermeldung, potentialfreier Wechsler / filter 100% potential free changeover contact
 XS1:7 externe Abreinigungsansteuerung / external release for automatic cleaning
 XS1:8/9 Fern EIN/AUS 24VDC, Ansteuerung über externen Schließer / remote ON/OFF 24VDC, external remote on/off via make contact

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