Product Datasheet – Filter Fan Unit 1200x600

Article

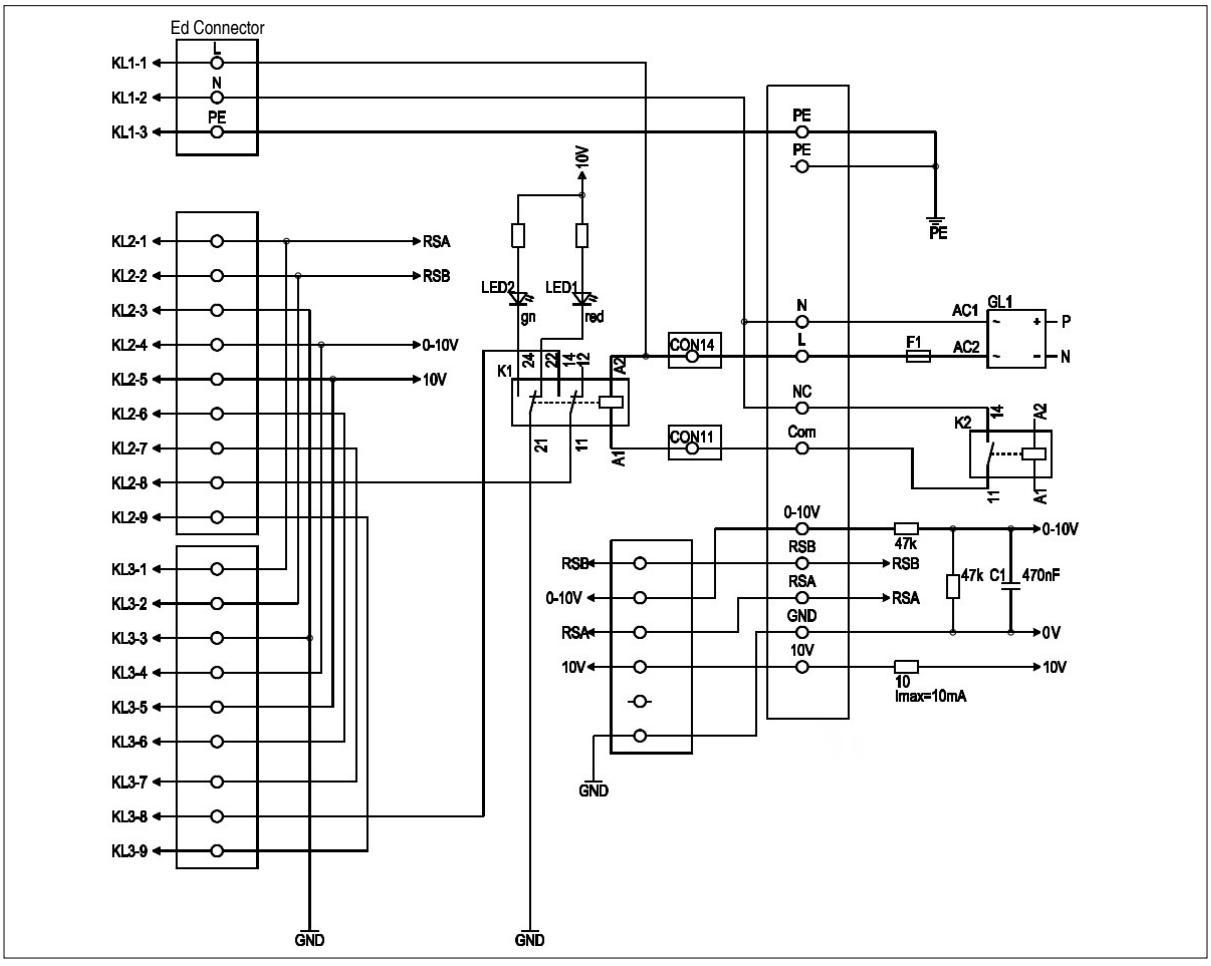
Art.-No.	Component	Article
0.0.716.42	Set: Filter Fan Unit	FFU 1200x600

Spare Parts/Accessories

Art.-No.	Component	Article
0.0.712.76	HEPA Filter	FFU HEPA Filter H14 1200x600
0.0.708.99	Pre-Filter	FFU Pre-Filter M5 500x500
0.0.712.75	Housing	FFU Housing 1200x600
0.0.715.83	1 set	FFU StarterKit 230V
0.0.715.84	1 set	FlowBox InstallationsKit 230V

Interface description

(schematic connection box, wiring diagram)



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No.	Connection	Designation	Colour	Function / assignment
1	1	L	Black	Supply connection, power supply single-phase 200-277 VAC; 50/60 HZ
1	2	N	Blue	Power supply, single-phase 200-277 VAC, 50/60 Hz
1	3	PE	Yellow/ Green	Earth connection
2	1	RSA	–	Bus connection RS485, RSA, MODBUS RTU; SELV
2	2	RSB	–	Bus connection RS485, RSB, MODBUS RTU; SELV
2	3	GND	–	Reference ground for control interface; SELV
2	4	0-10 V	–	Control input
2	5	+10 V	–	Fixed voltage output 10 VDC
2	6	RES	–	Reserve
2	7	COM*	–	Alarm COM*
2	8	NC	–	NC KL2 UMAX 24 V
2	9	Shield	–	Shield
3	1	RSA	–	Bus connection RS485, RSA, MODBUS RTU; SELV
3	2	RSB	–	Bus connection RS485, RSB, MODBUS RTU; SELV
3	3	GND	–	Reference ground for interface; SELV
3	4	0-10 V	–	Control input
3	5	+10 V	–	Fixed voltage output 10 VDC
3	6	RES	–	Reserve
3	7	COM*	–	Alarm COM*
3	8	NC*	–	NC* KL3 UMAX 24 V
3	9	Shield	–	Shield

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Technical Data

	Unit	FFU
Size (length x width)	mm	540 x 1140
Height Filter-Fan-Unit	mm	540 (including HEPA Filter)
Height	mm	446 (excluding HEPA Filter)
Volume flow	m^3/h	1.019
Outflow velocity	m/s	0,45
Sound power level	dB(A)	52
Interface		0-10 VDC
Weight	Kg	31

Fan	Unit	FFU
Type		K3G310-RR05-H8
Nominal voltage	VAC	230
Nominal voltage range	VAC	200-277
Frequency	Hz	50/60
Power consumption	W	500
Current consumption	A	2,2
Speed (rpm)	1/min	2.360

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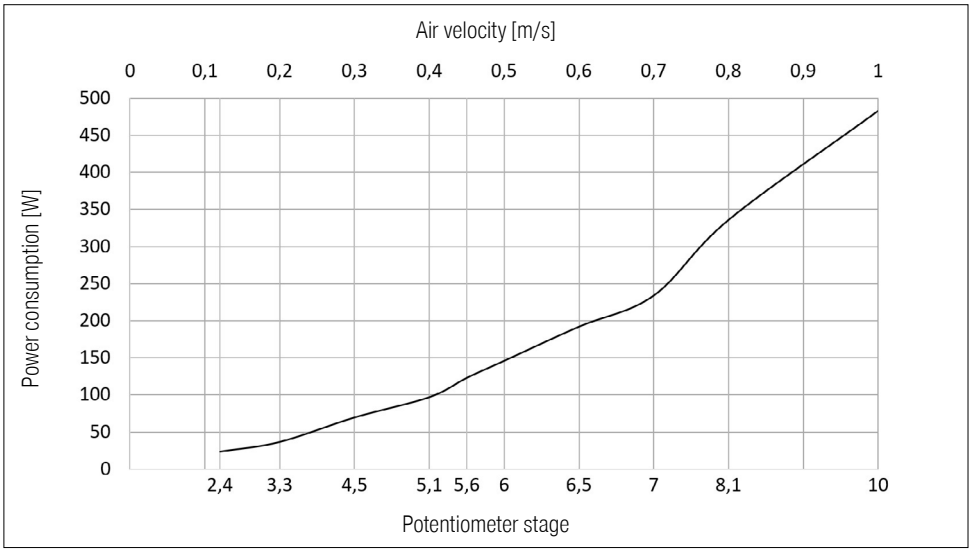
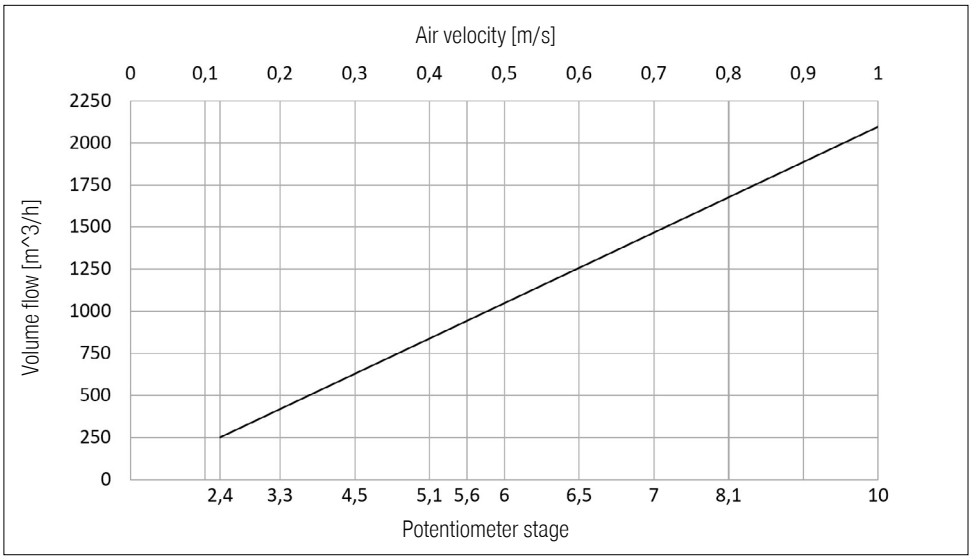
Power consumption of the FFU

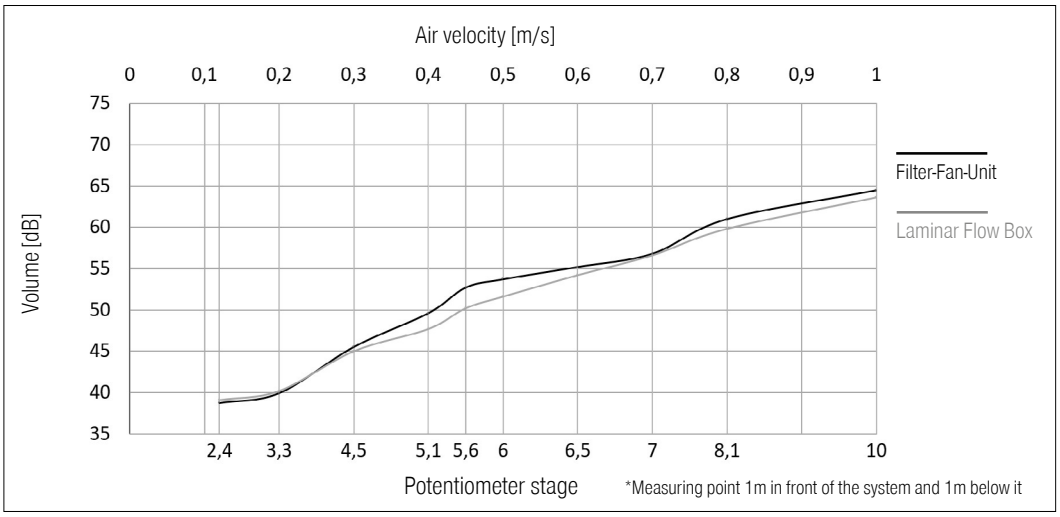


* The measurements refer to the as-new condition of the system after commissioning.

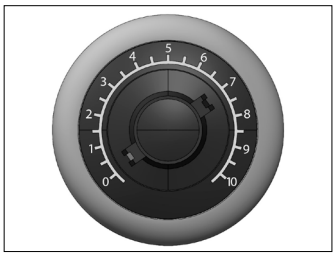
Volume flow of the FFU



Volume



*Measuring point 1m in front of the system and 1m below it



Potentiometer

The FFU tends to have an increased resonance in the range from 0.5m/s to 0.6m/s. This corresponds to potentiometer level 6 - 6.5 when the system is as good as new.

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Technical Data Filter

HEPA Filter - H14

Frame made from anodized extruded aluminium
Shock protection, coated in RAL9010
Filter material: Fibreglass, test standard: to EN 1822
Filtration efficiency: see table presentation in MPPS
Temperature resistance: 70°C/ 100% RH
All Filters are carefully packed!

HEPA-Filter	Unit	Value
Type		H14–2TR BG SC
Length x width	mm	548x1148
Height	mm	110
Filter fleece		Fibreglass
Profile type		TR
Gasket		Half-round polyurethane gasket (both sides)
Filtration efficiency	% [mpps]	99,995
Nominal airflow	m^3/h	1.019
Loss of pressure	Pa	95

Filter class	Integral value		Local value	
EN 1822	Filtration efficiency (%)	Permeability (%)	Filtration efficiency (%)	Permeability (%)
H 14	99,995	0,005	99,975	0,025

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Pre-Filter

To extend the service life of the HEPA Filter used, a pre-filter is fitted on the air inlet side of the FFU (Filter Fan Unit). The pre-filter, which is inserted into a pre-filter frame, protects the HEPA Filter. The Pre-Filter consists of a high-grade, synthetic filter fleece frame. A high-grade, synthetic microfibre fleece, which is held in place by the filter frame, is used as the filter material.

Pre-Filter	Unit	Value
Type		M5 / ISO ePM 10 70%
Length x width	mm	500x500
Height	mm	48
Profile type		Synthetic Fibreplast
Filter fleece		Synthetic, fibre fleece
Loss of pressure	Pa	40 Pa bei 1.150 m³/h

Handling and Storage

Properties	
Handling	The product can be machined with standard machines and tools.
Storage Recommendation	Horizontal, dry, protected from the weather.

Disposal

The country-specific laws and regulations concerning disposal must always be observed.
Dispose of the Filter Fan Unit 1200x600 in accordance with the national regulations of your country.
The Filter Fan Unit 1200x600 must not be disposed of with household waste at the end of its service life. Separate disposal of waste electrical and electronic equipment prevents hazardous substances and materials from being released into the environment.
Dispose of the Filter Fan Unit 1200x600 with the help of a certified waste disposal company or contact item Industrietechnik GmbH. The transport return costs shall be borne by the operator.

Cleaning

Clean surface with warm water and soft cloth or soft sponge. For heavier soiling, additionally use a non-abrasive soap solution. Carefully test the cleaning agent on an inconspicuous area before use. Finally, rinse with clean warm water and dry with absorbent cloth.

REACH, RoHS

Properties	
Compliance with the regulation (EC) No. 1907/2006 (REACH)	conform
Compliance with the regulation 2011/65/EU (RoHS) inkl. EU 2015/863	conform
Silicone	Silicone is not relevant for manufacturing, but minimal contact with lubricants or cleaning agents containing silicone cannot be completely ruled out during the handling and production of our products.

The above information is based on our current state of knowledge and does not constitute a positioning set of properties. Before using our products, please check for yourself whether they are suitable for your intended use, also with regard to possible application-effective influences.
The recipient of the product is responsible for observing existing laws and regulations.

Subject to technical changes, errors excepted.

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