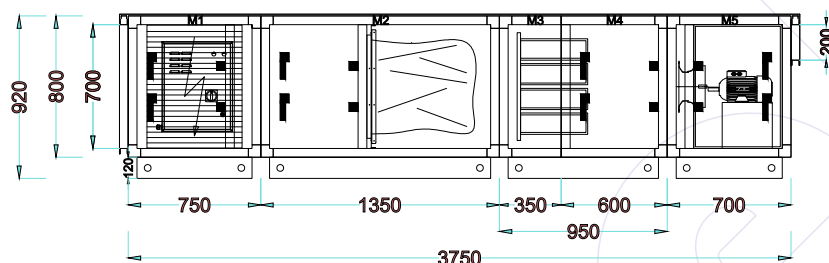
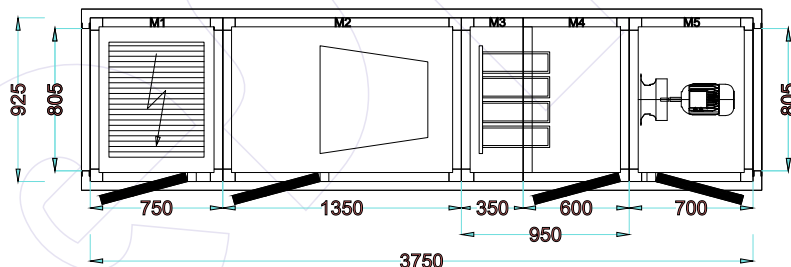


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

3000 m³/h

Air Velocity

1,44 m/s

Fan Model

RLM E6-2831

Filter 1

Electrostatic Filter

Filter 2

Bag Filter

Filter 3

Activated Carbon Filter

Model / Frame

50x50 mm

Insulation Material

50 mm Rockwool 70 kg/m³
Outside Sheet Material

0,8 mm Painted Galvanize

Inside Sheet Material

1 mm Galvanize

Dimensions (mm) (Size+Pedestal)

W 925 x H 920 x L 3750

Total Weight

671 kg

Base Height

120 mm

Motor Power

1,5 kW

Total Absorbed Power

1,9 kW

Specific Fan Power (SFP Total)

112 W/(m³/s)

ErP Code

NRVU-UVU

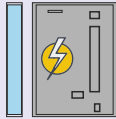
fs-Pref (W-S)

0,88

External Static Pressure

400 Pa

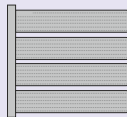
FILTER (M1)

Model	Electrostatic Filter	Section weight	164 kg	
Section length	750 mm	Pass type	Single Pass	
Max. Air flow rate	3300 m ³ /h	Efficiency	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012	
Design pressure drop	50 Pa		From 0.01 microns - 10 microns	
Case x qty.	DE30	Drain	1 1/2"	
Type	Plate - Cell	Features	Short circuit, arc protection and auto restore PS. BMS terminals provided Auto power cut-off when door is opened Indicator LEDs for normal or wash indicator Set of Terminals for remote LED	
Total cell qty.	1			
Pre-filter	Metalic Cassette Filter			
Total power	77 W			
Voltage	1 ph / 220-240 V / 50Hz			
Ionising voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc			

FILTER (M2)

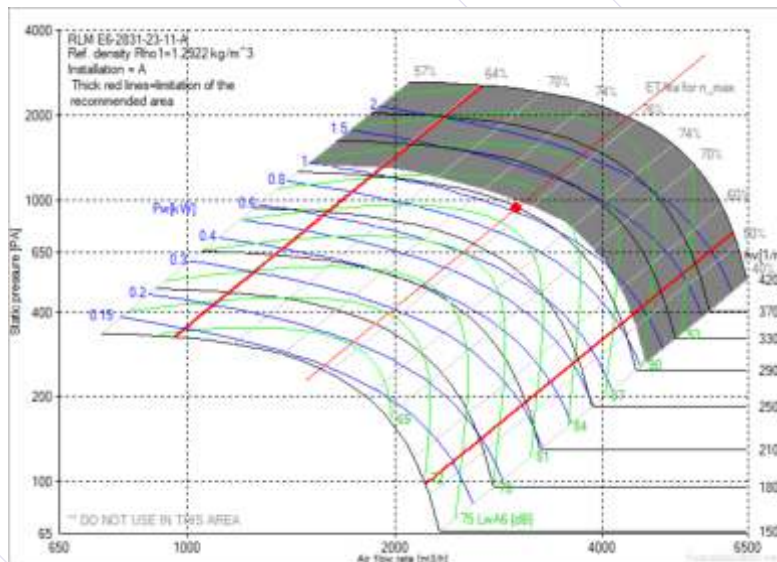
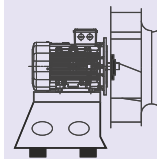
Model	Bag Filter	Section weight	158 kg	
Section length	1350 mm	Efficiency class EN779		
Max. Air flow rate	3000 m ³ /h	Filter frame	F7	
Design pressure drop	214 Pa	Media type	Galvanised steel	
		Max. Operating Temp.	Meltblown synthetic media	
		Air velocity	93 °C	
		Size / qty.	2,38 m/s 1 pcs. 592x592x610mm	

FILTER (M3/M4)

Model	Activated Carbon	Section weight	197 kg	
Section length	950 mm	Carbon type	Granule AC - 4 mm pellet	
Max. Air flow rate	3440 m ³ /h	Carbon weight	~3,5 kg per cartridge	
Design pressure drop	259 Pa	Max. Relative humidity	70%	
Case type	Cylindrical Cartridge	Eff. Work. Max. Temp.	40°C	
Case material	Painted Galvanized Steel	Iodine	900 mg/g (AWWA B 600-78)	
Gasket	Epdm	Specific surface area	1000 m ² /g	
Cartridge dimensions	Ø145 x 600 mm	Density	550 kg/m ³ (ASTM D 2854)	
Total cartridge qty.	16 pcs	CCI adsorption	50% (ASTM D3467)	
Total carbon weight	56 kg			

EXHAUST FAN (M5)

Air Flow	Motor Type	Fan Model	Quantity
3000 m ³ /h	AC-AGM 90 S-2	Nicotra-Gebhardt-RLM E6-2831-23-11-A	1
Internal Static Pressure	Motor Po./Pha./Volt./Freq.	Power Margin	Section Length
533 Pa	1,5 kW/3P/380V/50V-Hz	6,8 %	700 mm
External Static Pressure	Motor Speed	Section Weight	
400 Pa	3000 (2835) rpm	150 kg	
Total Static Pressure	Fan Bush Number		
933 Pa	1610		
Total Pressure	Motor Shaft Diameter		
975 Pa	Ø24 mm		
Total / Static Efficiency			
79,00 / 75,00 %			
Motor / Invertor Efficiency			
79,20 / 97,00 %			
Shaft Power / Absorbed Power	Absorbed Power With VFD		
1,03 / 1,3 kW	1,34 kW		
Fan Speed	Running Frequency		
2886 rpm (Max. 2990 rpm)	50,90 Hz (Max. 52,73 Hz)		
	Air Density		
	1,2 kg/m ³		
Specific Fan Power (SFPe int)	Electrical Current		
112 W/(m ³ /s)	2,04 A (Max. 2,96 A)		



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	75,0	72,0	76,0	72,0	76,0	76,0	75,0	68,0	82,0	dBA
Inlet Side	67,0	67,0	76,0	73,0	72,0	68,0	68,0	62,0	77,0	dBA

*The fan system effect is taken into account in the fan performance
*The fan calculated for wet conditions

CONTROL BOARD

HMI Touch Screen (Room)
7" HMI Box
Variable Frequency Drive (VFD)
1,5 kW
Main Controller (PLC)
Yes

- Standard Specifications**
- BMS integration (Modbus RTU, Modbus TCP/IP, BACnet IP)
 - Variable fan speed control
 - Electrostatic Filter/Bag dirtiness info
 - Activated carbon filter integrity monitor (Time Counter)
 - Door switch info
 - Adaptation to fire safety system / fire mode
 - Air volume set, monitoring and control from the room HMI Box
 - Detailed daily and weekly time scheduling

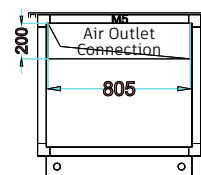
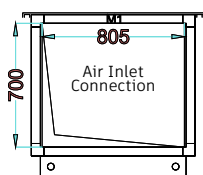
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	53,0	49,0	41,0	42,0	42,0	38,0	26,0	48,5	dBA
Air Outlet Induct Sound Power Level	72,0	76,0	72,0	76,0	76,0	75,0	68,0	82,0	dBA
Air Inlet Induct Sound Power Level	48,0	57,0	54,0	53,0	53,0	53,0	47,0	60,0	dBA

CASING ACOUSTICAL INSULATION [dB]

Frequency Hz	125	250	500	1000	2000	4000	8000	
	19,0	27,0	31,0	34,0	34,0	37,0	42,0	dBA

AIR CONNECTIONS



Airflow

3000 m³/h

Air Velocity

1,48 m/s

Dimensions

W 805 mm x H 700 mm

Connection Type

Flange

Pressure Drop

0 Pa

Control

No

Airflow

3000 m³/h

Air Velocity

5,18 m/s

Dimensions

W 805 mm x H 200 mm

Connection Type

Flange

Pressure Drop

10 Pa

Control

No

OPTIONS (non-standard)

- Electric motor out of air stream
- Special control scenarios on request
- Temperature or VOC control
- Motorized damper for inlet/outlet connections
- Damper modulation of ecology unit
- Fire damper
- Rain louver
- Bulkhead light
- IOT Module (4G or Ethernet)
- Silencer unit