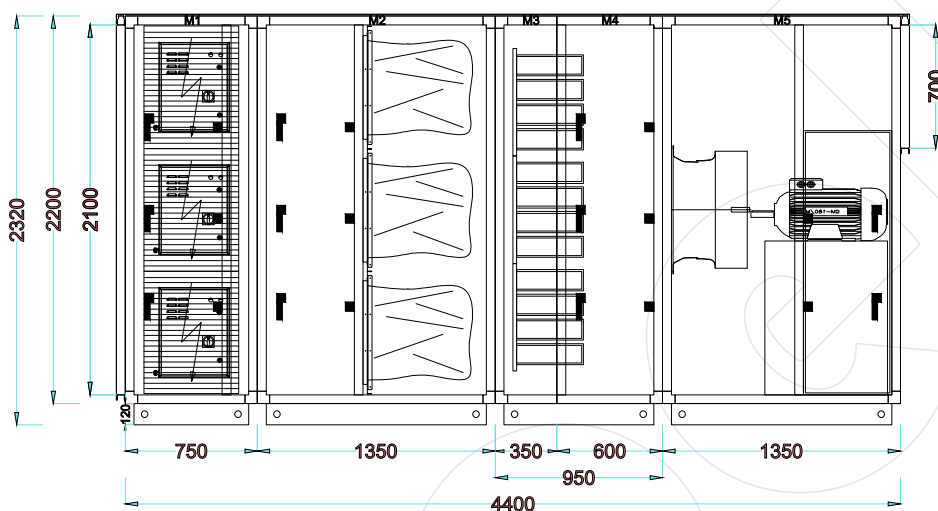
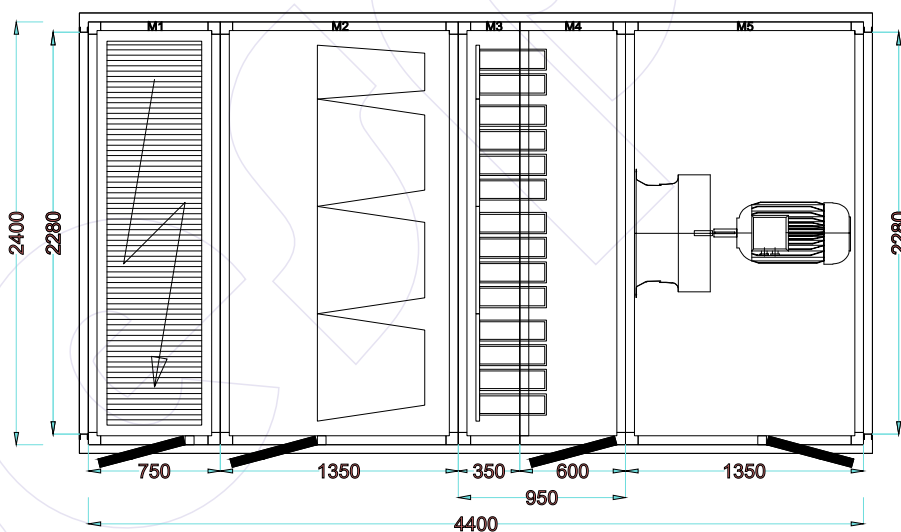


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

30000 m³/h

Air Velocity

1,73 m/s

Fan Model

RLM E6-7180

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 2400 x H 2320 x L 4400

Total Weight

2792 kg

Base Height

120 mm

Motor Power

18,5 kW

Total Absorbed Power

15,44 kW

Specific Fan Power (SFP Total)

92,97 W/(m³/s)

ErP Code

NRVU-UVU

fs-Pref (W-S)

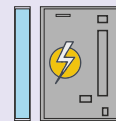
0,93

External Static Pressure

600 Pa

FILTER (M1)

Model	Electrostatic Filter	Section weight	730 kg
Section length	750 mm	Pass type	Single Pass
Max. Air flow rate	30000 m ³ /h (10000 x 3)	Efficiency	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012
Design pressure drop	50 Pa	Drain	From 0.01 microns - 10 microns 1 1/2"
Case x qty.	DE100 x 3	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
Type	Plate - Cell		
Total cell qty.	9		
Pre-filter	Metalic Cassette Filter		
Total power	693 W		
Voltage	1 ph / 220-240 V / 50Hz		
Ionising voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc		



FILTER (M2)

Model	Bag Filter	Section weight	408 kg
Section length	1350 mm	Efficiency class EN779	F7
Max. Air flow rate	30000 m ³ /h	Filter frame	Galvanised steel
Design pressure drop	212 Pa	Media type	Meltblown synthetic media
		Max. Operating Temp.	93 °C
		Air velocity	2,27 m/s
		Size / qty.	9 pcs. 592x592x610mm 3 pcs. 592x287x610mm



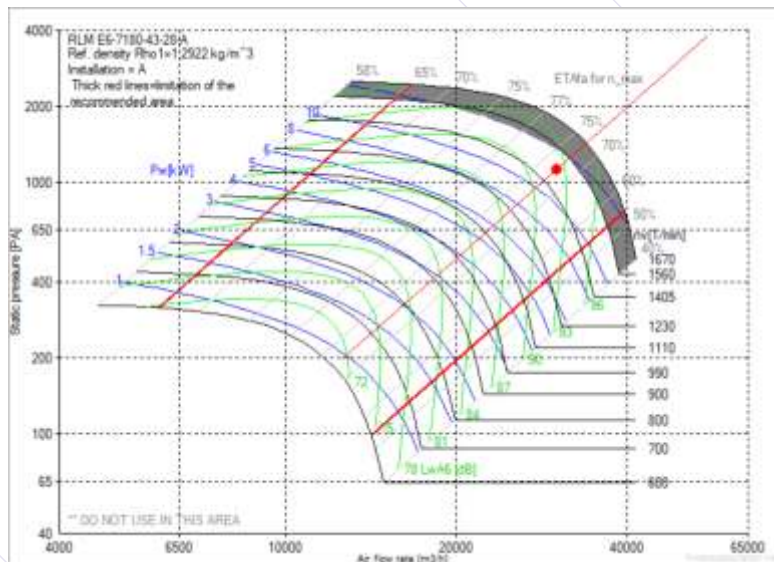
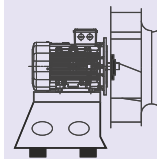
FILTER (M3/M4)

Model	Activated Carbon	Section weight	899 kg
Section length	950 mm	Carbon type	Granule AC - 4 mm pellet
Max. Air flow rate	36120 m ³ /h	Carbon weight	~3,5 kg per cartridge
Design pressure drop	254 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.	168 pcs	CCI adsorption	50% (ASTM D3467)
Total carbon weight	588 kg		



EXHAUST FAN (M5)

Air Flow	Motor Type	Fan Model	Quantity
30000 m ³ /h	AC-GM 180 M-4	Nicotra-Gebhardt-RLM E6-7180-43-28-A	1
Internal Static Pressure	Motor Po./Pha./Volt./Freq.	Power Margin	Section Length
526 Pa	18,5 kW/3P/380V/50V-Hz	16,28%	1450 mm
External Static Pressure	Motor Speed	Section Weight	
600 Pa	1500 (1455) rpm	755 kg	
Total Static Pressure	Fan Bush Number		
1126 Pa	2517		
Total Pressure	Motor Shaft Diameter		
1234 Pa	Ø48 mm		
Total / Static Efficiency	Absorbed Power With VFD		
80,00 / 73,00 %	14,75 kW		
Motor / Inverter Efficiency	Running Frequency		
90,10 / 97,00 %	50,68 Hz (Max. 53,42 Hz)		
Shaft Power / Absorbed Power	Air Density		
12,9 / 14,32 kW	1,2 kg/m ³		
Fan Speed	Electrical Current		
1480 rpm (Max. 1560 rpm)	22,41 A (Max. 32,13 A)		
Specific Fan Power (SFPe int)			
92,97 W/(m ³ /s)			



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	86,0	91,0	87,0	87,0	87,0	84,0	82,0	79,0	92,0	dBA
Inlet Side	86,0	91,0	86,0	83,0	81,0	79,0	77,0	74,0	87,0	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)
18,5 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

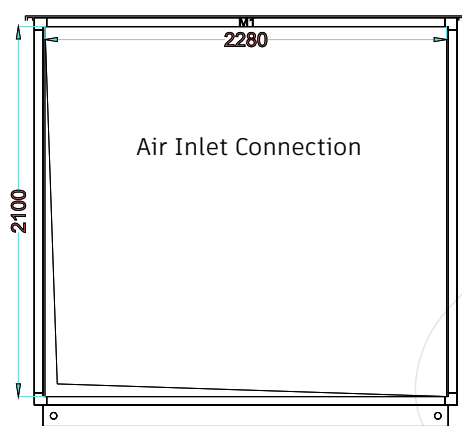
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	72,0	60,0	56,0	53,0	50,0	45,0	37,0	61,5	dB(A)
Air Outlet Induct Sound Power Level	91,0	87,0	87,0	87,0	87,0	82,0	79,0	92,0	dB(A)
Air Inlet Induct Sound Power Level	72,0	67,0	64,0	62,0	64,0	62,0	59,0	70,0	dB(A)

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	dB(A)

AIR CONNECTIONS



Airflow

30000 m³/h

Air Velocity

1,74 m/s

Dimensions

W 2280 mm x H 2100 mm

Connection Type

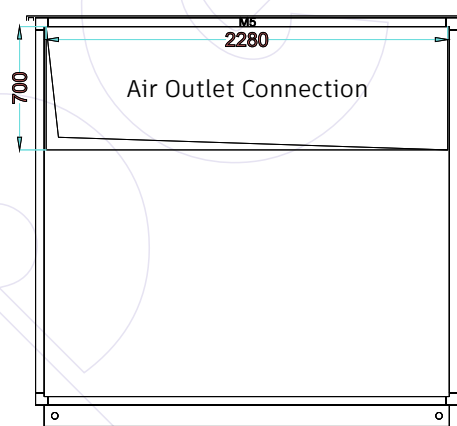
Flange

Pressure Drop

0 Pa

Control

No



Airflow

30000 m³/h

Air Velocity

5,22 m/s

Dimensions

W 2280 mm x H 700 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