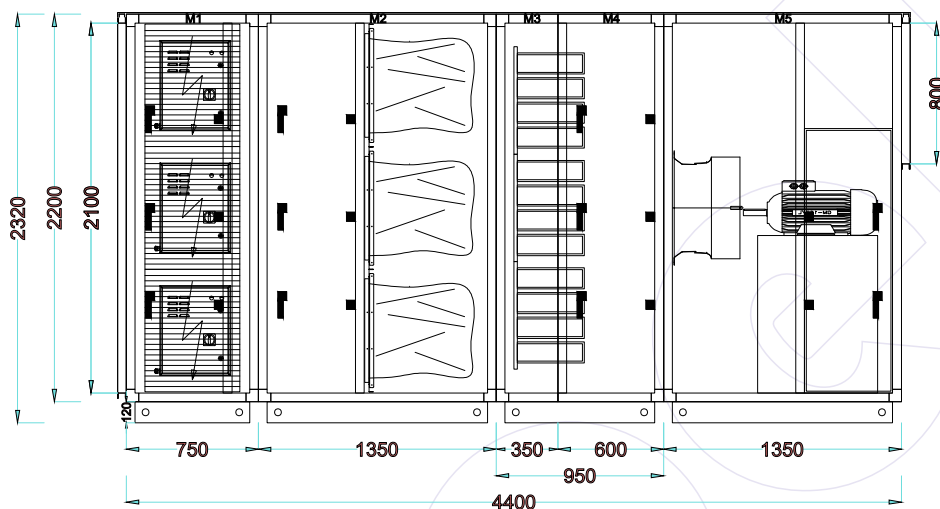
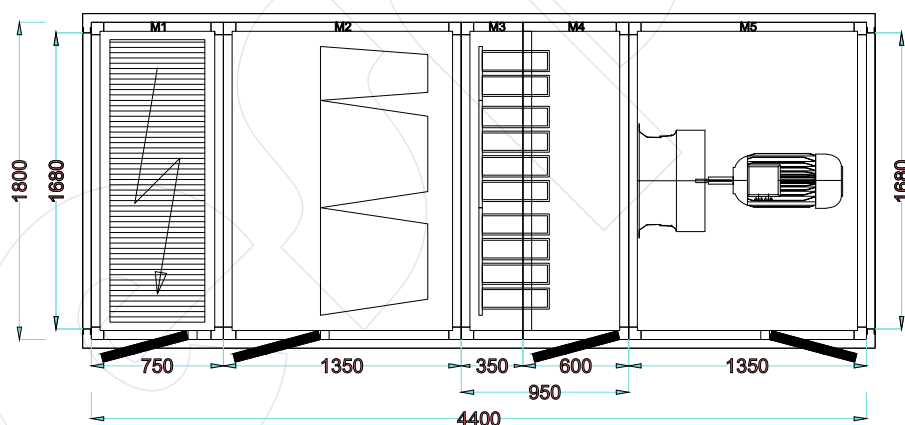


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow
24000 m³/h

Air Velocity
1,87 m/s

Fan Model
RLM E6-6371

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 1800 x H 2320 x L 4400

Total Weight
2260 kg

Base Height
120 mm

Motor Power
15 kW

Total Absorbed Power
12,86 kW

Specific Fan Power (SFP Total)
92,97 W/(m³/s)

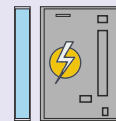
ErP Code
NRVU-UVU

fs-Pref (W-S)
1

External Static Pressure
600 Pa

FILTER (M1)

Model	Electrostatic Filter	Section weight	587 kg
Section length	750 mm	Pass type	Single Pass
Max. Air flow rate	24900 m ³ /h (8300 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.	DE80 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.	6		
Pre-filter	Metalic Cassette Filter		
Total power	546 W		
Voltage	1 ph / 220-240 V / 50Hz		
Ionising voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc		



FILTER (M2)

Model	Bag Filter	Section weight	347 kg
Section length	1350 mm	Efficiency class EN779	F7
Max. Air flow rate	24000 m ³ /h	Filter frame	Galvanised steel
Design pressure drop	217 Pa	Media type	Meltblown synthetic media
		Max. Operating Temp.	93 °C
		Air velocity	2,55 m/s
		Size / qty.	6 pcs. 592x592x610mm 3 pcs. 592x287x610mm



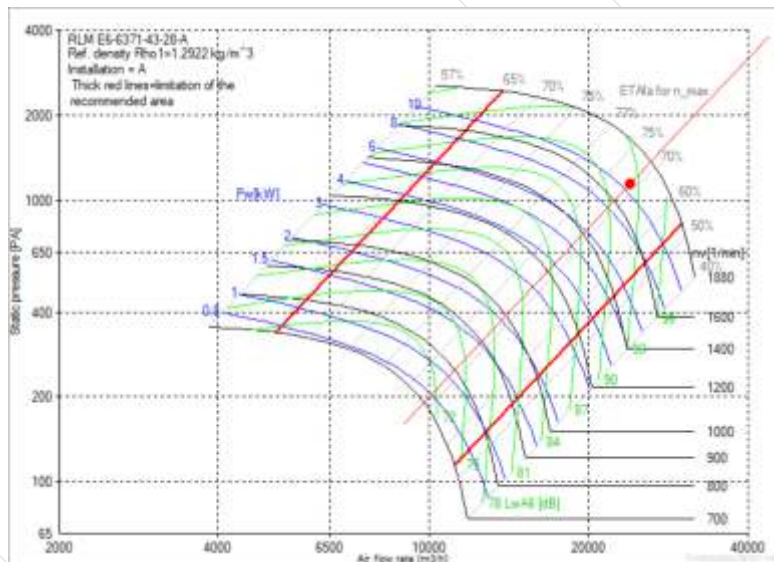
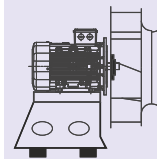
FILTER (M3/M4)

Model	Activated Carbon	Section weight	690 kg
Section length	950 mm	Carbon type	Granule AC - 4 mm pellet
Max. Air flow rate	25800 m ³ /h	Carbon weight	~3,5 kg per cartridge
Design pressure drop	266 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.	120 pcs	CCI adsorption	50% (ASTM D3467)
Total carbon weight	420 kg		



EXHAUST FAN (M5)

Air Flow	Motor Type	Fan Model	Quantity
24000 m ³ /h	AC-GM 160 L-4	Nicotra-Gebhardt-RLM E6-6371-43-28-A	1
Internal Static Pressure	Motor Po./Pha./Volt./Freq.	Power Margin	Section Length
543 Pa	15 kW/3P/380V/50V-Hz	40,19 %	1450 mm
External Static Pressure	Motor Speed	Section Weight	
600 Pa	1500 (1460) rpm	636 kg	
Total Static Pressure	Fan Bush Number		
1143 Pa	2012		
Total Pressure	Motor Shaft Diameter		
1253 Pa	Ø42 mm		
Total / Static Efficiency			
78,00 / 71,00 %			
Motor / Invertor Efficiency			
89,50 / 97,00 %			
Shaft Power / Absorbed Power	Absorbed Power With VFD		
10,7 / 11,96 kW	12,31 kW		
Fan Speed	Running Frequency		
1715 rpm (Max. 1880 rpm)	58,73 Hz (Max. 64,38 Hz)		
	Air Density		
	1,2 kg/m ³		
Specific Fan Power (SFPe int)	Electrical Current		
109,3 W/(m ³ /s)	18,71 A (Max. 26,23 A)		



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	83,0	89,0	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)
15 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

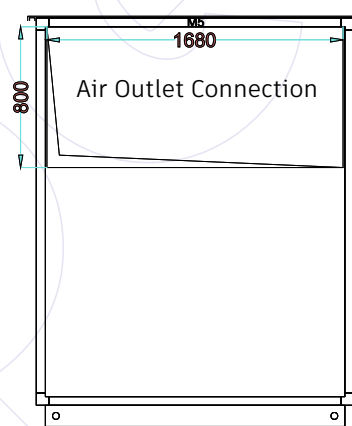
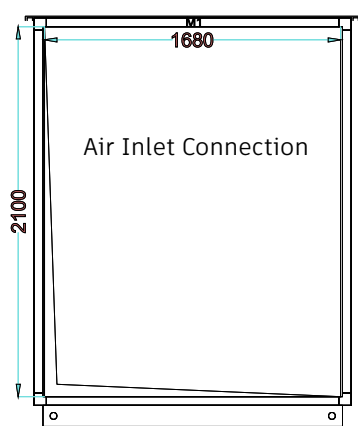
SOUND POWER LEVEL (dB)

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	dBA
Air Outlet Induct Sound Power Level	91,0	87,0	87,0	87,0	84,0	82,0	79,0	92,0	dBA
Air Inlet Induct Sound Power Level	70,0	67,0	64,0	62,0	64,0	62,0	59,0	70,0	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

24000 m³/h

Air Velocity

1,89 m/s

Dimensions

W 1680 mm x H 2100 mm

Connection Type

Flange

Pressure Drop

0 Pa

Control

No

Airflow

24000 m³/h

Air Velocity

4,96 m/s

Dimensions

W 1680 mm x H 800 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