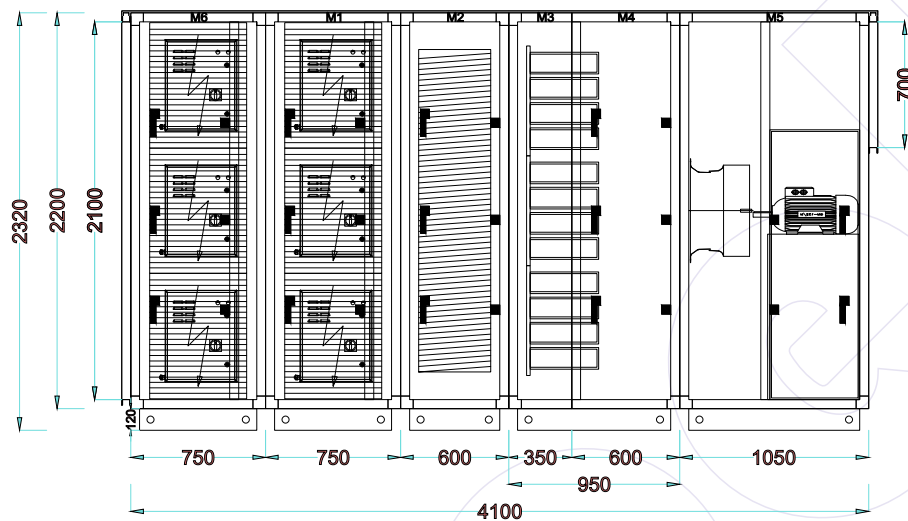
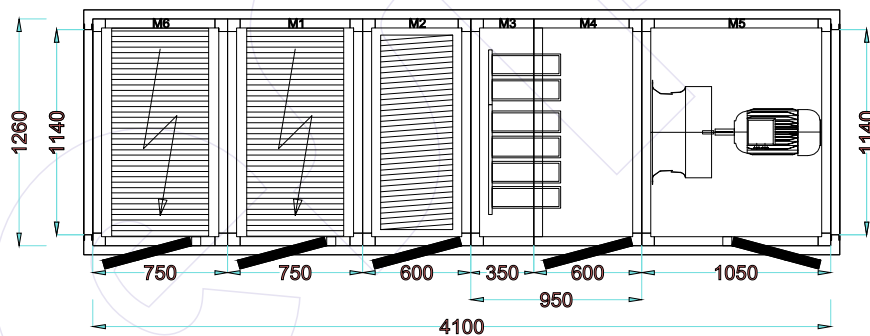


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

15000 m³/h

Air Velocity

1,71 m/s

Fan Model

RLM E6-5663

Filter 1

Electrostatic Filter

Filter 2

Electrostatic Filter

Filter 3

UVC Ozone Chamber

Filter 4

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 1260 x H 2320 x L 4100

Total Weight

1975 kg

Base Height

120 mm

Motor Power

7,5 kW

Total Absorbed Power

6,95 kW

Specific Fan Power (SFP Total)

218,4 W/(m³/s)

ErP Code

NRVU-UVU

fs-Pref (W-S)

0,93

External Static Pressure

500 Pa

FILTER (M6)

Model	Electrostatic Filter	Section weight	446 kg	
Section length	750 mm	Pass type	First Pass of Double Pass	
Max. Air flow rate	18000 m ³ /h (6000 x 3)	Efficiency	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012	
Design pressure drop	50 Pa	Drain	1 1/2"	
Case x qty.	DE60 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	462 W			
Voltage	1 ph / 220-240 V / 50Hz			
Ionising voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc			

FILTER (M1)

Model	Electrostatic Filter	Section weight	441 kg	
Section length	750 mm	Pass type	Second Pass of Double Pass	
Max. Air flow rate	18000 m ³ /h (6000 x 3)	Efficiency	98% double pass DOP Test 99% double pass ASHRAE 52.2-2012	
Design pressure drop	50 Pa	Drain	1 1/2"	
Case x qty.	DE60 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	462 W			
Voltage	1 ph / 220-240 V / 50Hz			
Ionising voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc			

FILTER (M2)

Model	UVC Ozone Chamber	Section weight	198 kg	
Section length	600 mm	Ballast type	D-PH1-800	
Max. Air flow rate	15000 m ³ /h (3000 x 5)	Ballast qty.	20	
Design pressure drop	80 Pa	Total power	820 W	
Case x qty.	DOZ-30-4A x 5	Voltage	230V - 50Hz	
Lamp type	D-GPH843	Rated life	9000 hours	
Lamp qty.	20			
Tube diameter	15mm			
Arc length	762mm			

FILTER (M3/M4)

Model	Activated Carbon	Section weight	485 kg	
Section length	950 mm	Carbon type	Granule AC - 4 mm pellet	
Max. Air flow rate	15480 m ³ /h	Carbon weight	~3,5 kg per cartridge	
Design pressure drop	272 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.	72 pcs	CCI adsorption	50% (ASTM D3467)	
Total carbon weight	252 kg			

EXHAUST FAN (M5)

Air Flow

15000 m³/h

Internal Static Pressure

462 Pa

External Static Pressure

500 Pa

Total Static Pressure

962 Pa

Total Pressure

1030 Pa

Total / Static Efficiency

81,00 / 75,00 %

Motor / Invertor Efficiency

87,40 / 97,00 %

Shaft Power / Absorbed Power

5,33 / 6,1 kW

Fan Speed

1631 rpm (Max. 1650 rpm)

Motor Type

AC-AGM 132 M-4

Motor Po./Pha./Volt./Freq.

7,5 kW/3P/380V/50V-Hz

Motor Speed

1500 (1430) rpm

Fan Bush Number

2012

Motor Shaft Diameter

Ø38 mm

Absorbed Power With VFD

6,28 kW

Running Frequency

57,03 Hz (Max. 57,69 Hz)

Air Density

1,2 kg/m³

Electrical Current

9,54 A (Max. 13,43 A)

Fan Model

Nicotra-Gebhardt-RLM E6-5663-43-21-A

Power Margin

3,19 %

Section Length

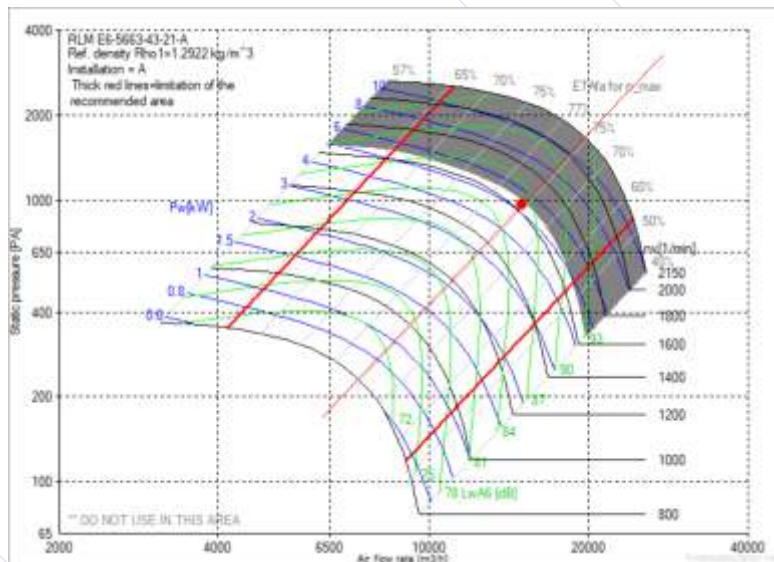
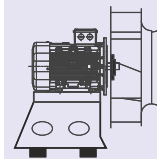
1050 mm

Quantity

1

Section Weight

405 kg



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	80,0	85,0	81,0	81,0	81,0	78,0	76,0	73,0	86,0	dBA
Inlet Side	77,0	83,0	80,0	77,0	75,0	73,0	71,0	68,0	81,0	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)

7,5 kW

Main Controller (PLC)

Yes

Standard Specifications

- BMS integration (Modbus RTU, Modbus TCP/IP, BACnet IP)
- Variable fan speed control
- Electrostatic Filter/Bag/EPA dirtiness info
- UVC/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

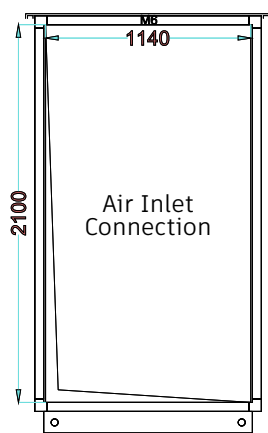
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	66,0	54,0	50,0	47,0	44,0	39,0	31,0	55,5	dBA
Air Outlet Induct Sound Power Level	85,0	81,0	81,0	81,0	78,0	76,0	73,0	86,0	dBA
Air Inlet Induct Sound Power Level	59,0	56,0	53,0	51,0	54,0	52,0	49,0	59,0	dBA

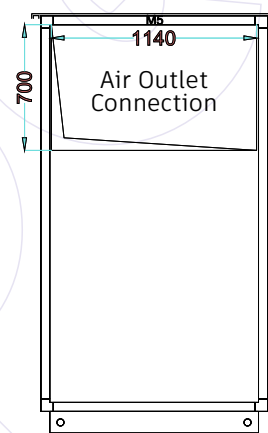
CASING ACOUSTICAL INSULATION [dB]

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 15000 m ³ /h	Connection Type Flange
Air Velocity 1,74 m/s	Pressure Drop 0 Pa
Dimensions W 1140 mm x H 2100 mm	Control No



Airflow 15000 m ³ /h	Connection Type Flange
Air Velocity 5,22 m/s	Pressure Drop 10 Pa
Dimensions W 1140 mm x H 700 mm	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