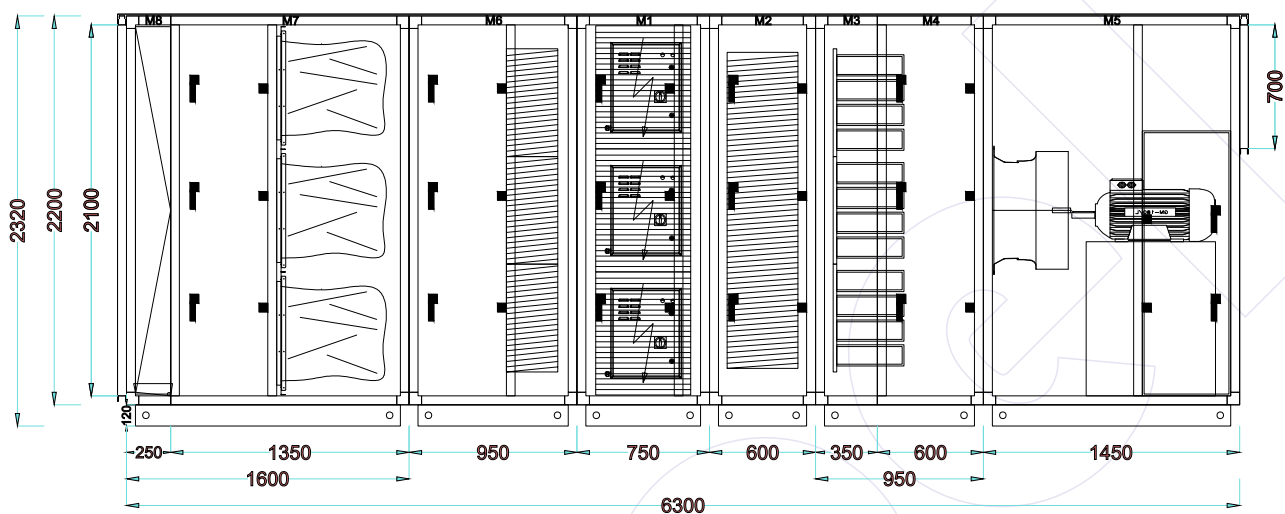
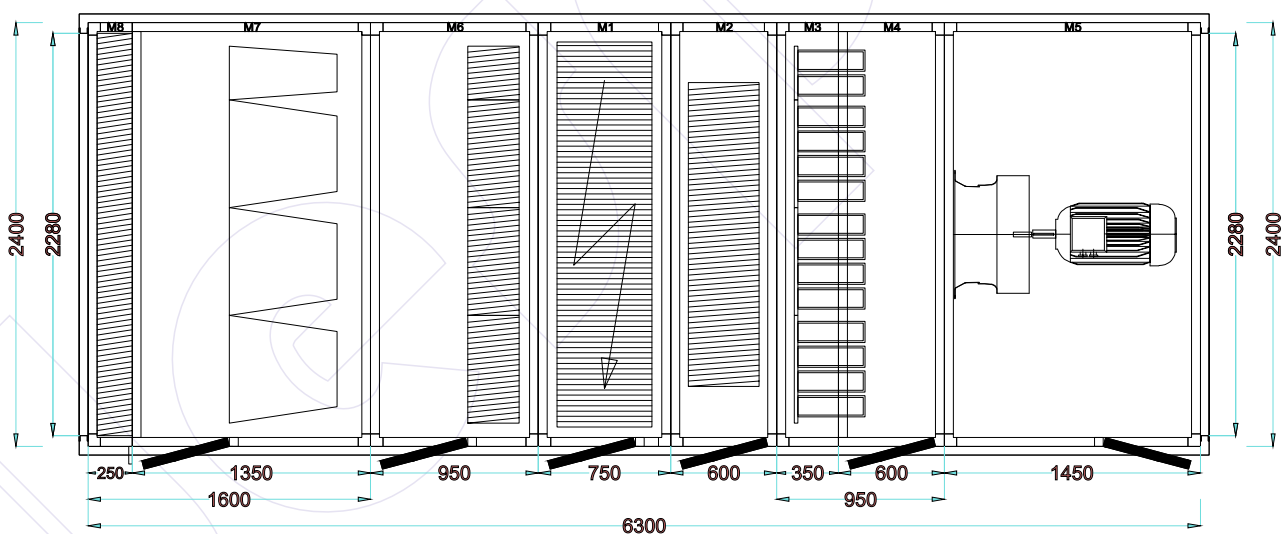


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

30000 m³/h

Air Velocity

1,73 m/s

Fan Model

RLM E6-7180

Filter 1

Drop Eliminator + Bag Filter

Filter 2

EPA Filter

Filter 3

Electrostatic Filter

Filter 4

UVC Ozone Chamber

Filter 5

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 6300

Total Weight

3557 kg

Base Height

120 mm

Motor Power

22 kW

Total Absorbed Power

21,02 kW

Specific Fan Power (SFP Total)

91,21 W/(m³/s)

ErP Code

NRVU-UVU

fs-Pref (W-S)

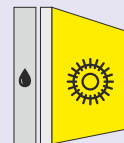
0,93

External Static Pressure

600 Pa

FILTER (M8/M7)

Model	Droplet Eliminator / Bag Filter	Section weight	686,7 kg
Section length	1600 mm		
Max. Air flow rate	30000 m ³ /h	Bag Filter	
Design pressure drop	242 Pa	Efficiency class EN779	F7
		Filter frame	Galvanised steel
Eliminator material	Aluminium	Media type	Meltblown synthetic media
Eliminator model	ALT-55510	Max. Operating Temp.	93 °C
Drain pan material	Stainless Steel	Air velocity	2,27 m/s
Drain	1 1/2"	Size / qty.	9 pcs. 592x592x610mm 3 pcs. 592x287x610mm



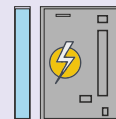
FILTER (M6)

Model	Epa Filter	Section weight	345 kg
Section length	950 mm		
Max. Air flow rate	30000 m ³ /h	Air velocity	2,27 m/s
Design pressure drop	410 Pa	Size / qty.	9 pcs. 592x592x292mm 3 pcs. 592x287x292mm
Efficiency class EN 1822	E11		
Filter frame	Galvanised steel		
Media type	Fibreglass		
Max. Operating Temp.	93 °C		



FILTER (M1)

Model	Electrostatic Filter	Section weight	721 kg
Section length	750 mm		
Max. Air flow rate	30000 m ³ /h (10000 x 3)	Pass type	Single Pass
Design pressure drop	50 Pa	Efficiency	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012 From 0.01 microns - 10 microns
Case x qty.	DE100 x 3		
Type	Plate - Cell	Drain	1 1/2"
Total cell qty.	9	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
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	UVC Ozone Chamber	Section weight	247 kg
Section length	600 mm		
Max. Air flow rate	30000 m ³ /h (10000 x 3)	Ballast type	D-PH2-2/75
Design pressure drop	25 Pa	Ballast qty.	30
Case x qty.	DOZ-100-10B x 3	Total power	1650 W
Lamp type	D-GPH1148	Voltage	230V - 50Hz
Lamp qty.	30	Rated life	9000 hours
Tube diameter	15mm		
Arc length	1068mm		



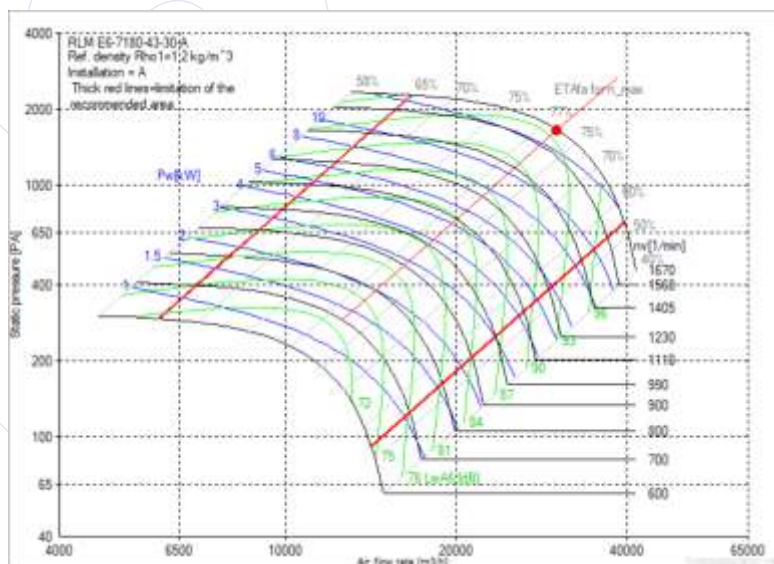
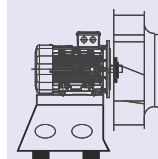
FILTER (M3/M4)

Model	Activated Carbon	Section weight	754 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 30000 m ³ /h	Motor Type AC-GM 180 L-4	Fan Model Nicotra-Gebhardt-RLM E6-7180-43-30-A	Quantity 1
Internal Static Pressure 1046 Pa	Motor Po./Pha./Volt./Freq. 22,5 kW/3P/380V/50V-Hz	Power Margin 3,35%	Section Length 1450 mm
External Static Pressure 600 Pa	Motor Speed 1500 (1455) rpm		Section Weight 803 kg
Total Static Pressure 1646 Pa	Fan Bush Number 2517		
Total Pressure 1746 Pa	Motor Shaft Diameter Ø48 mm		
Total / Static Efficiency 81,00 / 77,00 %			
Motor / Inverter Efficiency 90,70 / 97,00 %			
Shaft Power / Absorbed Power 17,9 / 19,74 kW	Absorbed Power With VFD 20,33 kW		
Fan Speed 1664 rpm (Max. 1670 rpm)	Running Frequency 57,18 Hz (Max. 57,39 Hz)		
	Air Density 1,2 kg/m ³		
Specific Fan Power (SFPe int) 91,21 W/(m ³ /s)	Electrical Current 30,88 A (Max. 37,96 A)		



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	88,0	93,0	89,0	89,0	89,0	86,0	84,0	81,0	94,0	dBA
Inlet Side	88,0	93,0	88,0	85,0	83,0	81,0	79,0	76,0	89,0	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)

22 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

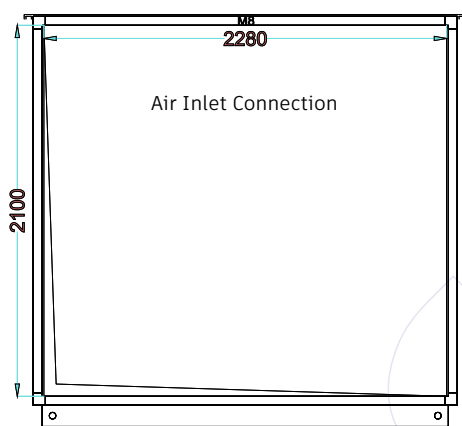
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	74,0	62,0	58,0	55,0	52,0	47,0	39,0	63,5	dBA
Air Outlet Induct Sound Power Level	93,0	89,0	89,0	89,0	86,0	84,0	81,0	94,0	dBA
Air Inlet Induct Sound Power Level	63,0	58,0	55,0	53,0	57,0	55,0	52,0	62,0	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

30000 m³/h

Air Velocity

1,74 m/s

Dimensions

W 2280 mm x H 2100 mm

Connection Type

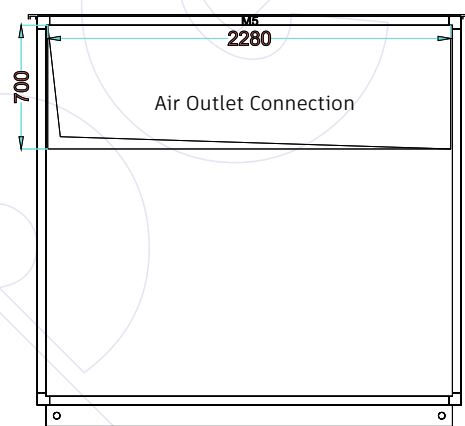
Flange

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

0 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