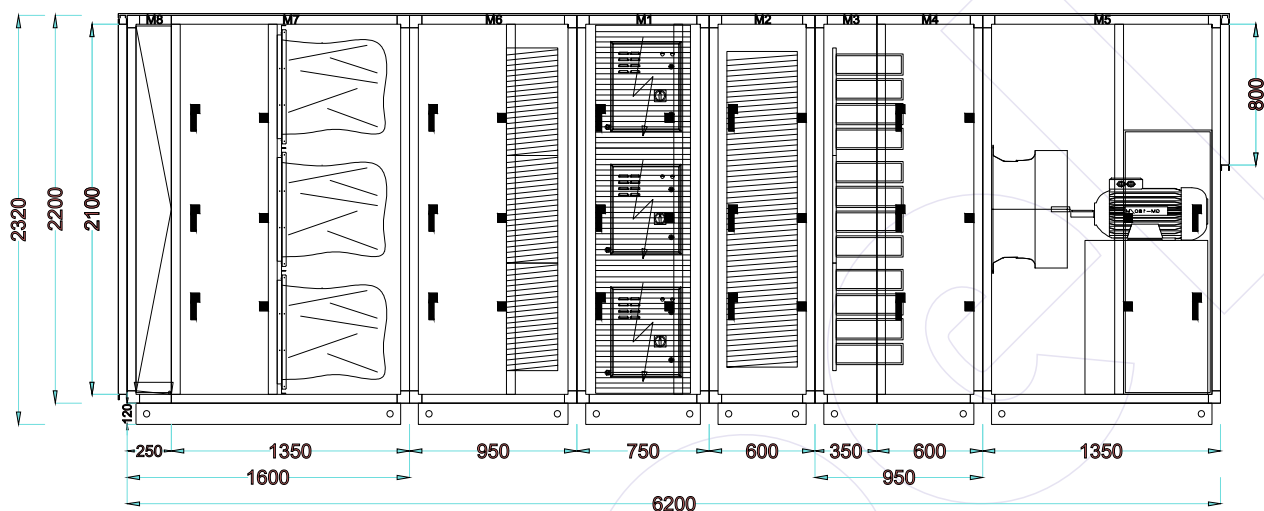
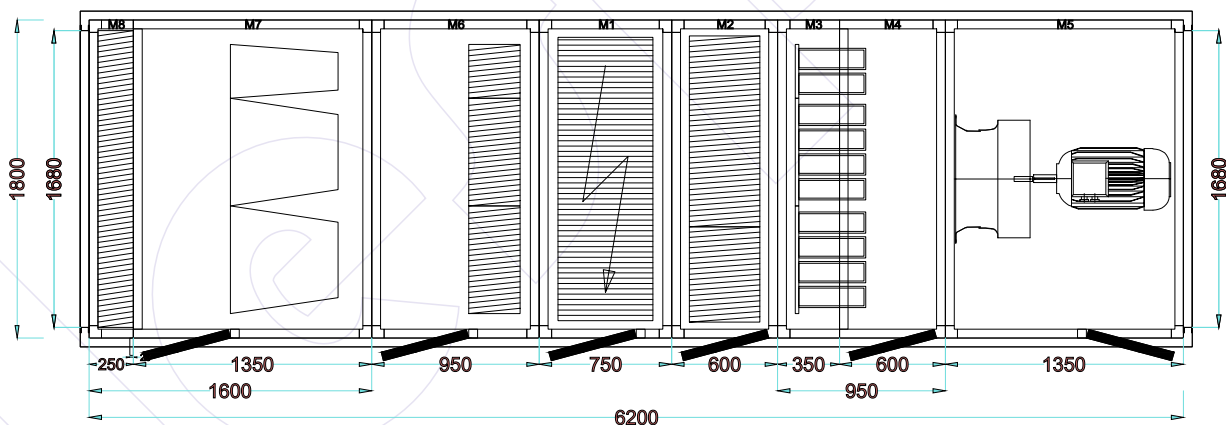


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

24000 m³/h

Air Velocity

1,87 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 1800 x H 2320 x L 6200

Total Weight

2940 kg

Base Height

120 mm

Motor Power

18,5 kW

Total Absorbed Power

17,35 kW

Specific Fan Power (SFP Total)

107,2 W/(m³/s)

ErP Code

NRVU-UVU

fs-Pref (W-S)

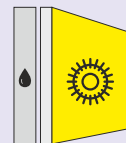
0,82

External Static Pressure

600 Pa

FILTER (M8/M7)

Model	Droplet Eliminator / Bag Filter	Section weight	547 kg
Section length	1600 mm		
Max. Air flow rate	24000 m ³ /h		
Design pressure drop	247 Pa		
Eliminator material	Aluminium		
Eliminator model	ALT-55510		
Drain pan material	Stainless Steel		
Drain	1 1/2"		
		Bag Filter	
		Efficiency class EN779	F7
		Filter frame	Galvanised steel
		Media type	Meltblown synthetic media
		Max. Operating Temp.	93 °C
		Air velocity	2,55 m/s
		Size / qty.	6 pcs. 592x592x610mm 3 pcs. 592x287x610mm



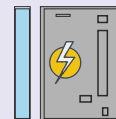
FILTER (M6)

Model	Epa Filter	Section weight	290 kg
Section length	950 mm		
Max. Air flow rate	24000 m ³ /h		
Design pressure drop	429 Pa		
Efficiency class EN 1822	E11		
Filter frame	Galvanised steel		
Media type	Fibreglass		
Max. Operating Temp.	93 °C		
		Air velocity	2,55 m/s
		Size / qty.	6 pcs. 592x592x292mm 3 pcs. 592x287x292mm



FILTER (M1)

Model	Electrostatic Filter	Section weight	582 kg
Section length	750 mm		
Max. Air flow rate	24900 m ³ /h (8300 x 3)		
Design pressure drop	50 Pa		
Case x qty.	DE80 x 3		
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		
		Pass type	Single Pass
		Efficiency	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012 From 0.01 microns - 10 microns
		Drain	1 1/2"
		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



FILTER (M2)

Model	UVC Ozone Chamber	Section weight	276 kg
Section length	600 mm		
Max. Air flow rate	24000 m ³ /h (8000 x 3)		
Design pressure drop	25 Pa		
Case x qty.	DOZ-80-8B x 3		
Lamp type	D-GPH1148		
Lamp qty.	24		
Tube diameter	15mm		
Arc length	1068mm		
		Ballast type	D-PH2-2/75
		Ballast qty.	24
		Total power	1320 W
		Voltage	230V - 50Hz
		Rated life	9000 hours



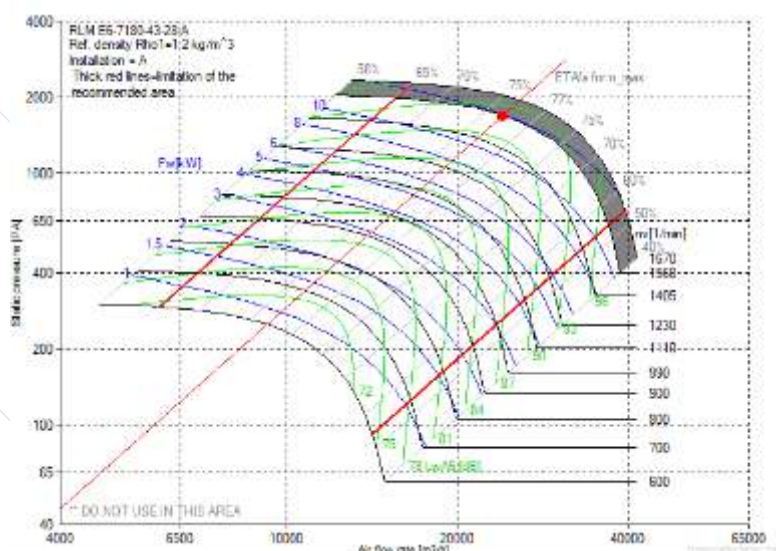
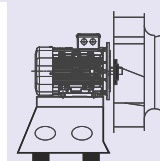
FILTER (M3/M4)

Model	Activated Carbon	Section weight	578 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 24000 m ³ /h	Motor Type AC-GM 180 M-4	Fan Model Nicotra-Gebhardt-RLM E6-7180-43-28-A	Quantity 1
Internal Static Pressure 1082 Pa	Motor Po./Pha./Volt./Freq. 18,5 kW/3P/380V/50V-Hz	Power Margin 2,04%	Section Length 1350 mm
External Static Pressure 600 Pa	Motor Speed 1500 (1460) rpm		Section Weight 667 kg
Total Static Pressure 1682 Pa	Fan Bush Number 2517		
Total Pressure 1746 Pa	Motor Shaft Diameter Ø48 mm		
Total / Static Efficiency 79,00 / 76,00 %			
Motor / Inverter Efficiency 90,10 / 97,00 %			
Shaft Power / Absorbed Power 14,7 / 16,32 kW	Absorbed Power With VFD 16,8 kW		
Fan Speed 1553 rpm (Max. 1560 rpm)	Running Frequency 53,18 Hz (Max. 53,42 Hz)		
	Air Density 1,2 kg/m ³		
Specific Fan Power (SFPe int) 107,2 W/(m ³ /s)	Electrical Current 25,53 A (Max. 32,13 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	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 Specificaitons

- 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

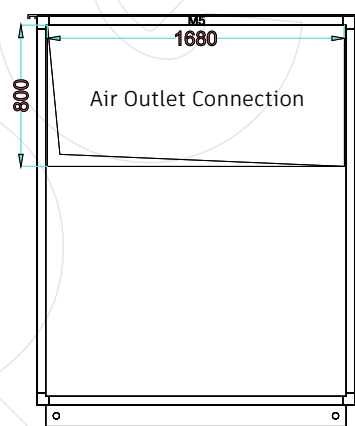
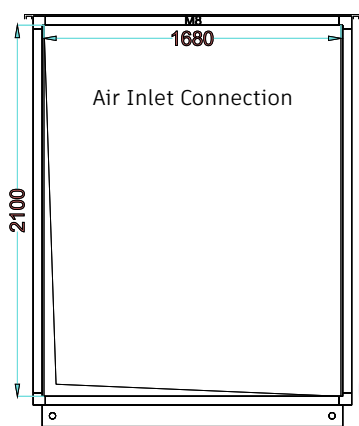
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	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	61,0	56,0	53,0	51,0	55,0	53,0	50,0	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

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

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