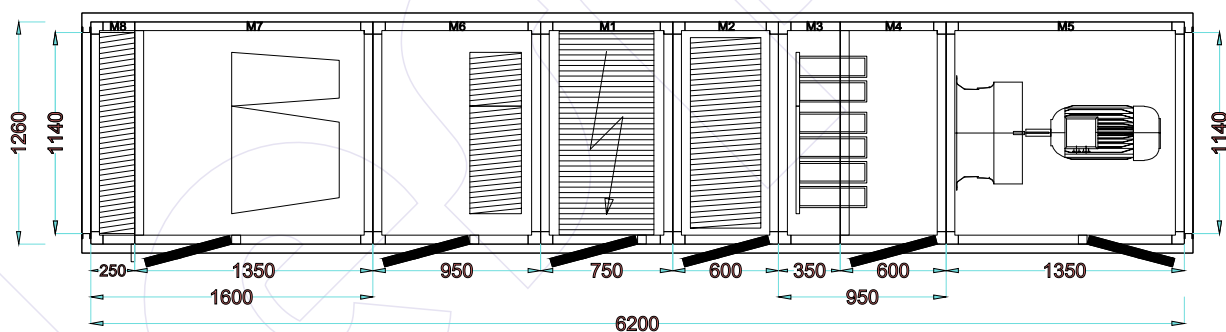


RIGHT VIEW



TOP VIEW



GENERAL SPECIFICATIONS

Airflow

15000 m³/h

Air Velocity

1,71 m/s

Fan Model

RLM E6-6371

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 1260 x H 2320 x L 6200

Total Weight

2249 kg

Base Height

120 mm

Motor Power

15 kW

Total Absorbed Power

10,97 kW

Specific Fan Power (SFP Total)

121,4 W/(m³/s)

ErP Code

NRVU-UVU

fs-Pref (W-S)

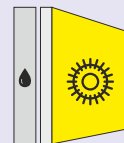
0,97

External Static Pressure

500 Pa

FILTER (M8/M7)

Model	Droplet Eliminator / Bag Filter	Section weight	428 kg
Section length	1600 mm		
Max. Air flow rate	15000 m ³ /h		
Design pressure drop	249 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	2,67 m/s
		Size / qty.	3 pcs. 592x592x610mm 3 pcs. 592x287x610mm



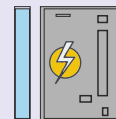
FILTER (M6)

Model	Epa Filter	Section weight	237 kg
Section length	950 mm		
Max. Air flow rate	15000 m ³ /h		
Design pressure drop	438 Pa		
Efficiency class EN 1822	E11		
Filter frame	Galvanised steel		
Media type	Fibreglass		
Max. Operating Temp.	93 °C		
		Air velocity	2,67 m/s
		Size / qty.	3 pcs. 592x592x292mm 3 pcs. 592x287x292mm



FILTER (M1)

Model	Electrostatic Filter	Section weight	441 kg
Section length	750 mm		
Max. Air flow rate	18000 m ³ /h (6000 x 3)		
Design pressure drop	50 Pa		
Case x qty.	DE60 x 3		
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		
		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	198 kg
Section length	600 mm		
Max. Air flow rate	15000 m ³ /h (3000 x 5)		
Design pressure drop	80 Pa		
Case x qty.	DOZ-30-4A x 5		
Lamp type	D-GPH843		
Lamp qty.	20		
Tube diameter	15mm		
Arc length	762mm		
		Ballast type	D-PH1-800
		Ballast qty.	20
		Total power	820 W
		Voltage	230V - 50Hz
		Rated life	9000 hours



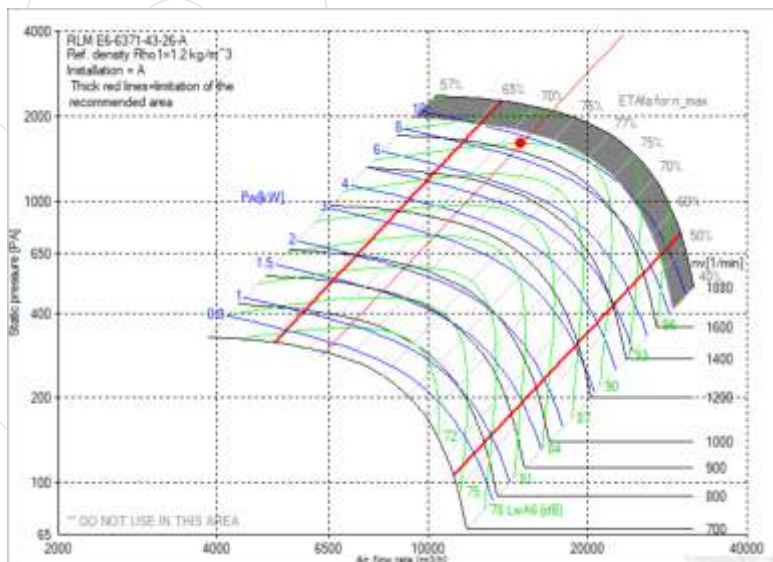
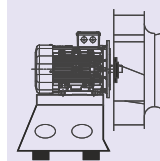
FILTER (M3)

Model	Activated Carbon	Section weight	384 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 m ³ /h	Motor Type AC-GM 160 L-4	Fan Model Nicotra-Gebhardt-RLM E6-6371-43-26-A	Quantity 1
Internal Static Pressure 1099 Pa	Motor Po./Pha./Volt./Freq. 15 kW/3P/380V/50V-Hz	Power Margin 19,05%	Section Length 1350 mm
External Static Pressure 500 Pa	Motor Speed 1500 (1460) rpm		Section Weight 561 kg
Total Static Pressure 1599 Pa	Fan Bush Number 2012		
Total Pressure 1639 Pa	Motor Shaft Diameter Ø42 mm		
Total / Static Efficiency 74,00 / 72,00 %			
Motor / Inverter Efficiency 89,50 / 97,00 %			
Shaft Power / Absorbed Power 9,24 / 10,32 kW	Absorbed Power With VFD 10,63 kW		
Fan Speed 1641 rpm (Max. 1710 rpm)	Running Frequency 56,20 Hz (Max. 58,56 Hz)		
	Air Density 1,2 kg/m ³		
Specific Fan Power (SFPe int) 121,4 W/(m ³ /s)	Electrical Current 16,16 A (Max. 26,23 A)		



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	85,0	94,0	88,0	85,0	85,0	83,0	78,0	73,0	90,0	dBA
Inlet Side	82,0	92,0	87,0	83,0	80,0	77,0	75,0	69,0	86,0	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/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

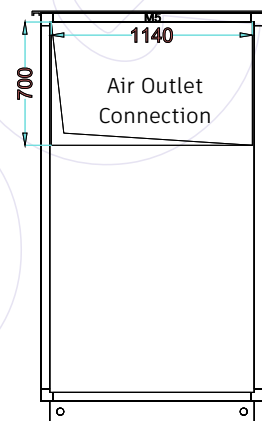
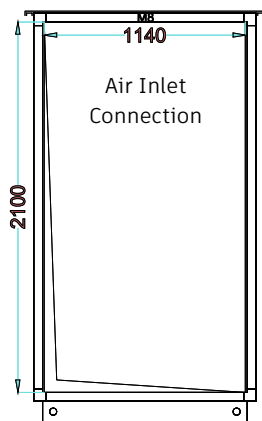
SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	75,0	61,0	54,0	51,0	49,0	41,0	31,0	61,5	dBa
Air Outlet Induct Sound Power Level	94,0	88,0	85,0	85,0	83,0	78,0	73,0	90,0	dBa
Air Inlet Induct Sound Power Level	62,0	57,0	53,0	50,0	53,0	51,0	45,0	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 m³/h

Air Velocity

1,74 m/s

Dimensions

W 1140 mm x H 2100 mm

Connection Type

Flange

Pressure Drop

0 Pa

Control

No

Airflow

15000 m³/h

Air Velocity

5,22 m/s

Dimensions

W 1140 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