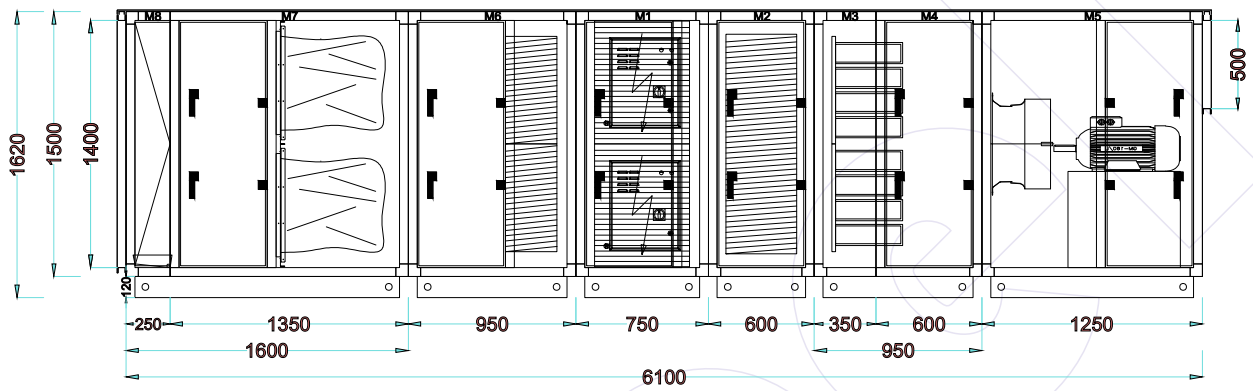
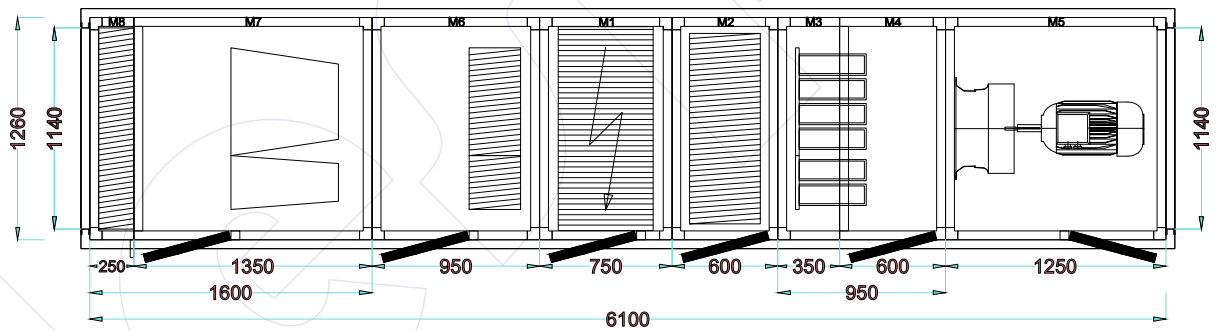


RIGHT VIEW



TOP VIEW

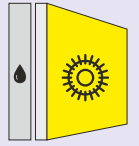


**GENERAL SPECIFICATIONS**

<b>Airflow</b> 10000 m <sup>3</sup> /h	<b>Filter 1</b> Drop Eliminator + Bag Filter	<b>Model / Frame</b> 50x50 mm	<b>Dimensions (mm) (Size+Pedestal)</b> W 1260 x H 1620 x L 6100
<b>Air Velocity</b> 1,71 m/s	<b>Filter 2</b> EPA Filter	<b>Insulation Material</b> 50 mm Rockwool 70 kg/m <sup>3</sup>	<b>Total Weight</b> 1664 kg
<b>Fan Model</b> RLM E6-5663	<b>Filter 3</b> Electrostatic Filter	<b>Outside Sheet Material</b> 0,8 mm Painted Galvanize	<b>Base Height</b> 120 mm
	<b>Filter 4</b> UVC Ozone Chamber	<b>Inside Sheet Material</b> 1 mm Galvanize	<b>Motor Power</b> 11 kW
	<b>Filter 5</b> Activated Carbon Filter		<b>Total Absorbed Power</b> 7,86 kW
<b>Specific Fan Power (SFP Total)</b> 131,5 W/(m <sup>3</sup> /s)	<b>ErP Code</b> NRVU-UVU	<b>fs-Pref (W-S)</b> 0,82	<b>External Static Pressure</b> 500 Pa

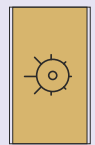
## FILTER (M8/M7)

<b>Model</b>	Droplet Eliminator / Bag Filter	<b>Section weight</b>	275 kg
<b>Section length</b>	1600 mm	<b>Bag Filter</b>	
<b>Max. Air flow rate</b>	10000 m <sup>3</sup> /h	<b>Efficiency class EN779</b>	F7
<b>Design pressure drop</b>	249 Pa	<b>Filter frame</b>	Galvanised steel
<b>Eliminator material</b>	Aluminium	<b>Media type</b>	Meltblown synthetic media
<b>Eliminator model</b>	ALT-55510	<b>Max. Operating Temp.</b>	93 °C
<b>Drain pan material</b>	Stainless Steel	<b>Air velocity</b>	2,67 m/s
<b>Drain</b>	1 1/2"	<b>Size / qty.</b>	2 pcs. 592x592x610mm 2 pcs. 592x287x610mm



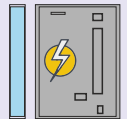
## FILTER (M6)

<b>Model</b>	Epa Filter	<b>Section weight</b>	194 kg
<b>Section length</b>	950 mm	<b>Air velocity</b>	2,67 m/s
<b>Max. Air flow rate</b>	10000 m <sup>3</sup> /h	<b>Size / qty.</b>	2 pcs. 592x592x292mm 2 pcs. 592x287x292mm
<b>Design pressure drop</b>	438 Pa		
<b>Efficiency class EN 1822</b>	E11		
<b>Filter frame</b>	Galvanised steel		
<b>Media type</b>	Fibreglass		
<b>Max. Operating Temp.</b>	93 °C		



## FILTER (M1)

<b>Model</b>	Electrostatic Filter	<b>Section weight</b>	326 kg
<b>Section length</b>	750 mm	<b>Pass type</b>	Single Pass
<b>Max. Air flow rate</b>	12000 m <sup>3</sup> /h (6000 x 2)	<b>Efficiency</b>	95% single pass DOP Test 96% single pass ASHRAE 52.2-2012 From 0.01 microns - 10 microns
<b>Design pressure drop</b>	50 Pa	<b>Drain</b>	1 1/2"
<b>Case x qty.</b>	DE60 x 2	<b>Features</b>	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
<b>Type</b>	Plate - Cell		
<b>Total cell qty.</b>	4		
<b>Pre-filter</b>	Metalic Cassette Filter		
<b>Total power</b>	308 W		
<b>Voltage</b>	1 ph / 220-240 V / 50Hz		
<b>Ionising voltages</b>	High Voltage: 12KVdc, Low Voltage: 6KVdc		



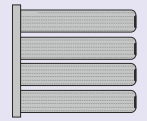
## FILTER (M2)

<b>Model</b>	UVC Ozone Chamber	<b>Section weight</b>	178 kg
<b>Section length</b>	600 mm	<b>Ballast type</b>	D-PH1-800
<b>Max. Air flow rate</b>	12000 m <sup>3</sup> /h (6000 x 2)	<b>Ballast qty.</b>	16
<b>Design pressure drop</b>	80 Pa	<b>Total power</b>	656 W
<b>Case x qty.</b>	DOZ-60-8A x 2	<b>Voltage</b>	230V - 50Hz
<b>Lamp type</b>	D-GPH843	<b>Rated life</b>	9000 hours
<b>Lamp qty.</b>	16		
<b>Tube diameter</b>	15mm		
<b>Arc length</b>	762mm		



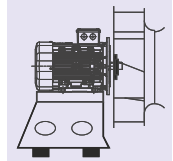
## FILTER (M3)

Model	Activated Carbon	Section weight	256 kg
Section length	950 mm	Carbon type	Granule AC - 4 mm pellet
Max. Air flow rate	10320 m <sup>3</sup> /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 <sup>2</sup> /g
Cartridge dimensions	Ø145 x 600 mm	Density	550 kg/m <sup>3</sup> (ASTM D 2854)
Total cartridge qty.	48 pcs	CCI adsorption	50% (ASTM D3467)
Total carbon weight	168 kg		

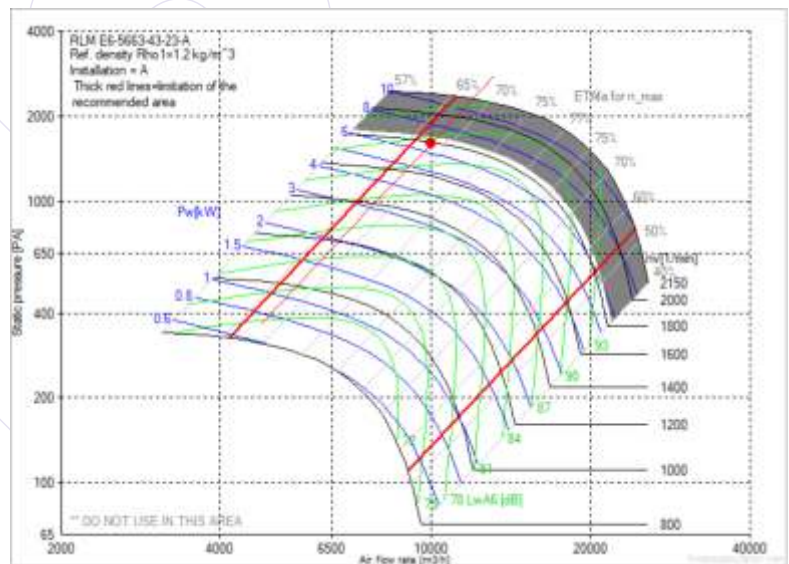


## EXHAUST FAN (M5)

<b>Air Flow</b> 10000 m <sup>3</sup> /h	<b>Motor Type</b> AC-GM 160 M-4	<b>Fan Model</b> Nicotra-Gebhardt-RLM E6-5663-43-23-A	<b>Quantity</b> 1
<b>Internal Static Pressure</b> 1099 Pa	<b>Motor Po./Pha./Volt./Freq.</b> 11 kW/3P/380V/50V-Hz	<b>Power Margin</b> 14,16%	<b>Section Length</b> 1250 mm
<b>External Static Pressure</b> 500 Pa	<b>Motor Speed</b> 1500 (1455) rpm		<b>Section Weight</b> 435 kg
<b>Total Static Pressure</b> 1599 Pa	<b>Fan Bush Number</b> 2012		
<b>Total Pressure</b> 1627 Pa	<b>Motor Shaft Diameter</b> Ø42 mm		



<b>Total / Static Efficiency</b> 69,00 / 68,00 %	
<b>Motor / Invertor Efficiency</b> 88,60 / 97,00 %	
<b>Shaft Power / Absorbed Power</b> 6,57 / 7,42 kW	<b>Absorbed Power With VFD</b> 7,64 kW
<b>Fan Speed</b> 1789 rpm (Max. 1830 rpm)	<b>Running Frequency</b> 61,48 Hz (Max. 62,89 Hz)
	<b>Air Density</b> 1,2 kg/m <sup>3</sup>
<b>Specific Fan Power (SFPe int)</b> 131,5 W/(m <sup>3</sup> /s)	<b>Electrical Current</b> 11,60 A (Max. 26,23 A)



Exhaust Fan Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	84,0	93,0	87,0	84,0	84,0	82,0	77,0	72,0	89,0	dBA
Inlet Side	81,0	91,0	86,0	82,0	79,0	76,0	74,0	68,0	85,0	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)

11 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

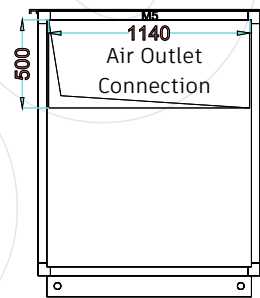
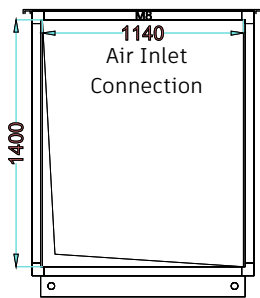
**SOUND POWER LEVEL (dB)**

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	74,0	60,0	53,0	50,0	48,0	40,0	30,0	60,5	dBa
Air Outlet Induct Sound Power Level	93,0	87,0	84,0	84,0	82,0	77,0	72,0	89,0	dBa
Air Inlet Induct Sound Power Level	61,0	56,0	52,0	49,0	52,0	50,0	44,0	58,0	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**



<b>Airflow</b> 10000 m <sup>3</sup> /h	<b>Connection Type</b> Flange
<b>Air Velocity</b> 1,74 m/s	<b>Pressure Drop</b> 0 Pa
<b>Dimensions</b> W 1140 mm x H 1400 mm	<b>Control</b> No

<b>Airflow</b> 10000 m <sup>3</sup> /h	<b>Connection Type</b> Flange
<b>Air Velocity</b> 4,87 m/s	<b>Pressure Drop</b> 10 Pa
<b>Dimensions</b> W 1140 mm x H 500 mm	<b>Control</b> 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