

Series  
**VENTS MPA**  
**300-700 E EC A31**



Series  
**VENTS MPA**  
**1000-4000 E EC A31**



Air supply units with the air flow up to **5000 m<sup>3</sup>/h** in the sound- and heat-insulated casing

**Description**

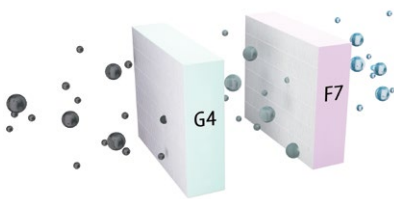
Air supply MPA EC unit is a complete ventilation unit for air filtration, air heating and supply to premises.

**Casing**

Steel casing covered with aluzinc coating internally filled with 30 mm heat- and sound-insulating layer made of mineral wool.

**Filter**

The unit is equipped with a Coarse 60%/G4 filter. An ePM10 90%/F7 class filter is optionally available.



**Heater**

Electric heater is used for heating of supply air in cold season.

**Fans**

The units are equipped with high-efficient EC-motors with an external rotor and a centrifugal impeller.

**Mounting**

The air handling unit is mounted on the floor, suspended to the ceiling or mounted on the wall using brackets.



The unit can be mounted either in service spaces or in main premises (above a false ceiling, in a niche or on a surface).

All electrical connections are made through the terminal block located in the junction box.

It is necessary to provide access to the unit for service and filter cleaning.

**Control and automation**

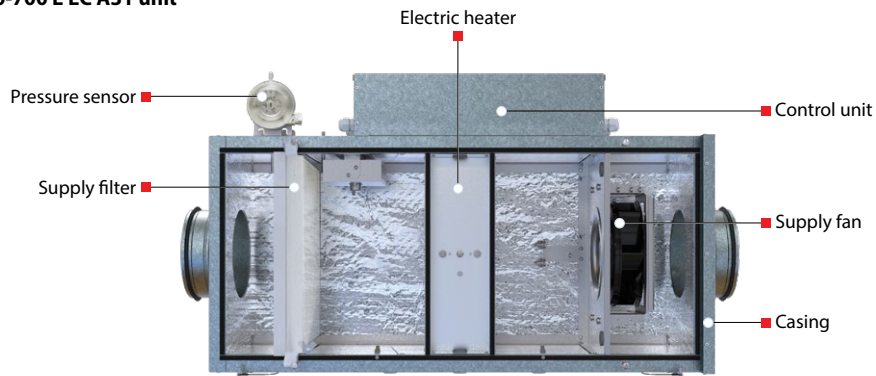
The **MPA E EC** units are equipped with integrated control system. The A31 controller allows integrating the unit into the **Building Management System (BMS)**. Remote control panel is not included in the delivery set and is available as specially ordered accessory.

Functions	A31
	A30
Wired control panel	
	A32
Wired control panel	
Unit on / off	+
Fan speed control and setting	+
Filter clogging indication and control	Pressure sensor
Week schedule	+
Electric heater protection with auto restart	+
Electric heater protection with manual restart	+
Supply temperature control	+
Outer temperature sensor	+
Water heater frost protection	+
Return temperature sensor	+
Air damper control	+
Alarm indication	+
BMS Connection	ModBUS (RTU)
Humidity sensor	0-10 V or NO
CO <sub>2</sub> Sensor	0-10 V or NO
Exhaust fan control	on / off
Three-way valve control	+
Circulation pump control	+
Condensing unit control	0-10 V

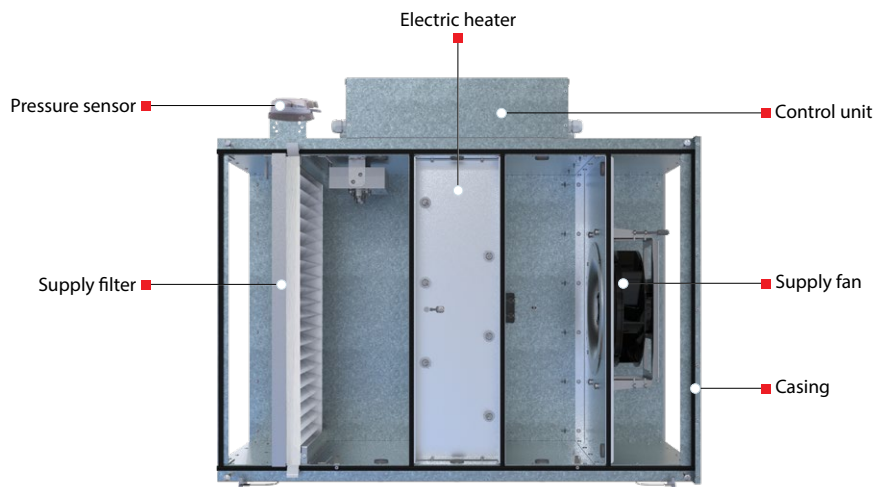
**Designation key**

Series	Rated air flow [m <sup>3</sup> /h]	Heater	Heater power [kW]	Motor type	Modification	Controller type
<b>MPA:</b> air handling unit	300; 400; 700; 1000; 1500; 2000; 3000; 4000	<b>E:</b> electric	1,7; 2; 3; 5,1; 6; 9; 12; 14; 15; 18; 24; 27; 45; 54	<b>EC:</b> electronically-commutated motor	<b>L:</b> left <b>R:</b> right	<b>A31</b>

**Design of the MPA 300-700 E EC A31 unit**

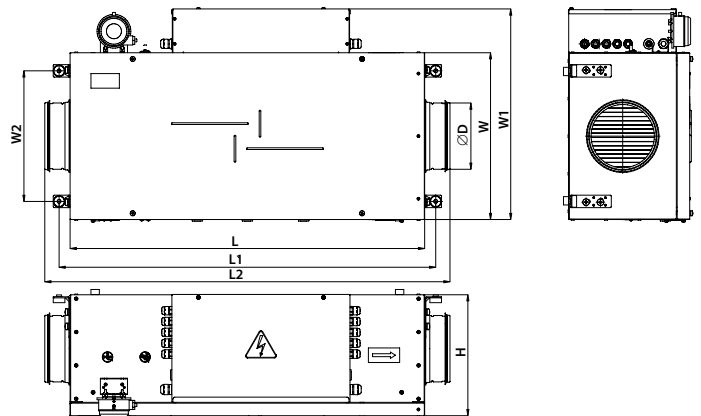


**Design of the MPA 1000-4000 EC A31 unit**

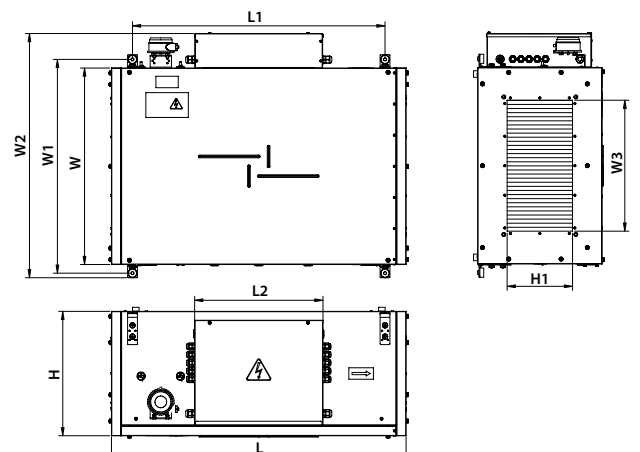


**Overall dimensions**

Model	Dimensions [mm]							
	ØD	L	W	H	L1	L2	W1	W2
MPA 300 E EC A31	160	850	400	290	903	950	514	313
MPA 400 E EC A31	200	850	400	350	903	972	514	313
MPA 700 E EC A31	250	850	460	350	903	972	565	353



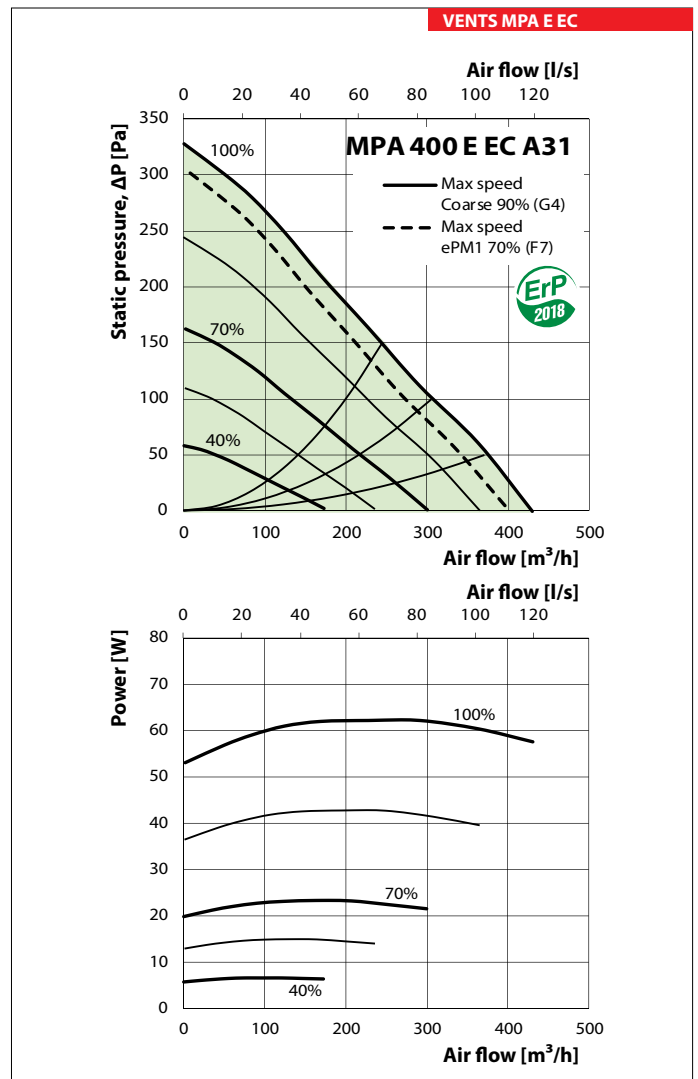
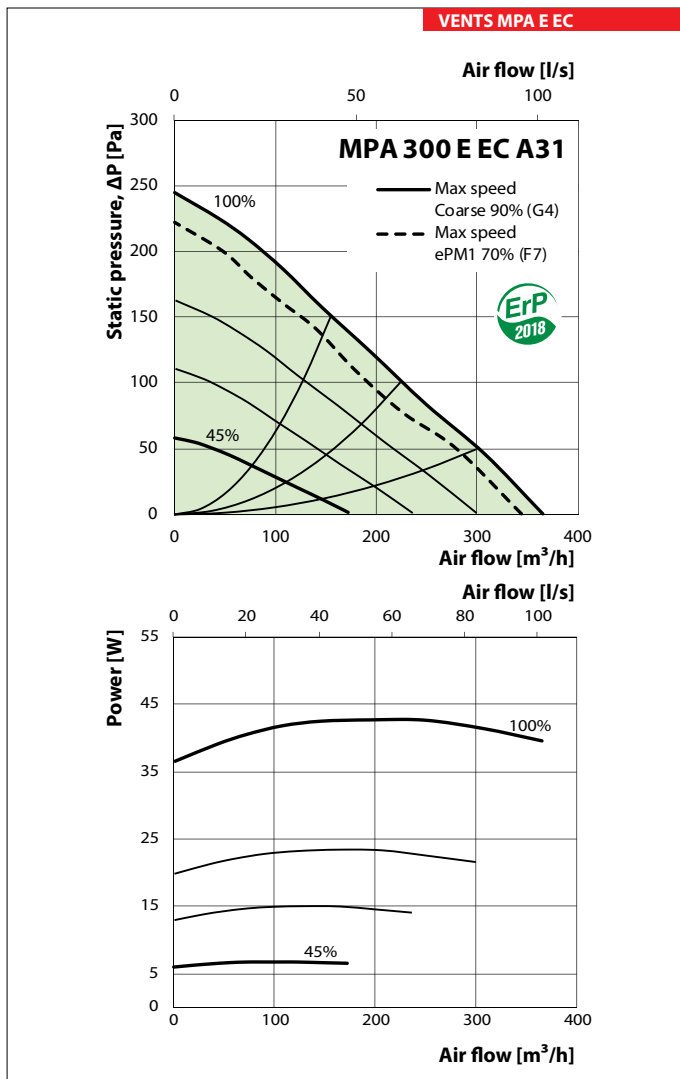
Model	Dimensions [mm]							
	L	W	H	H1	L1	W1	W2	W3
MPA 1000 E EC A31	900	600	380	200	770	653	746	400
MPA 1500 E EC A31	900	700	440	250	770	754	847	500
MPA 2000 E EC A31	900	700	440	300	770	754	847	500
MPA 3000 E EC A31	1200	800	500	300	1070	853	944	600
MPA 4000 E EC A31	1200	940	550	400	1070	993	1087	700



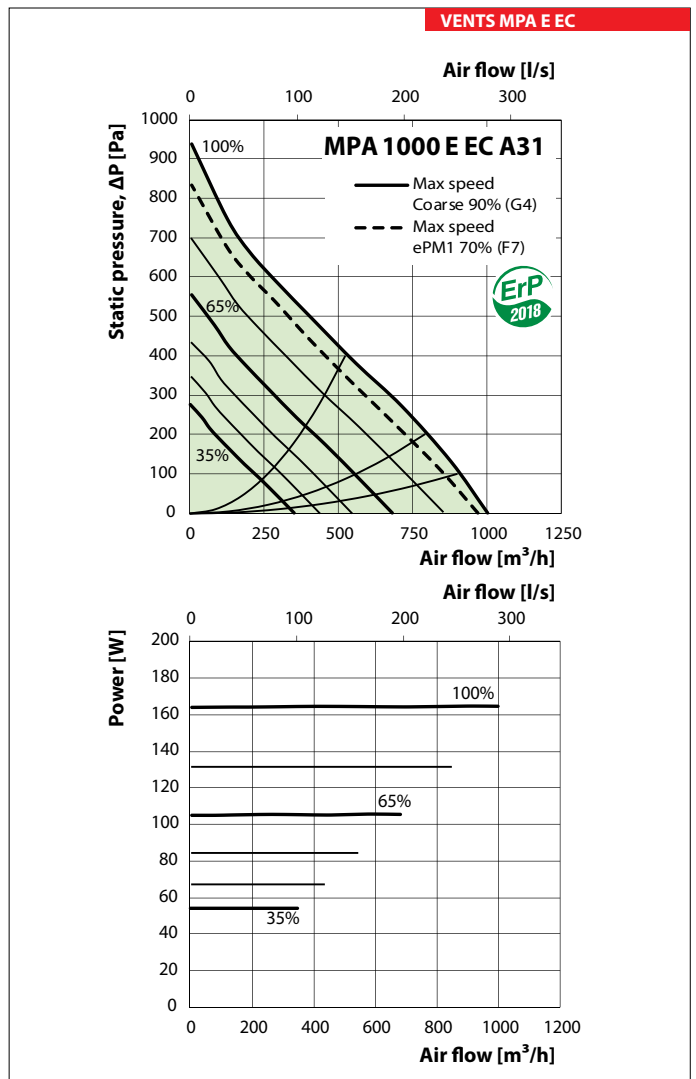
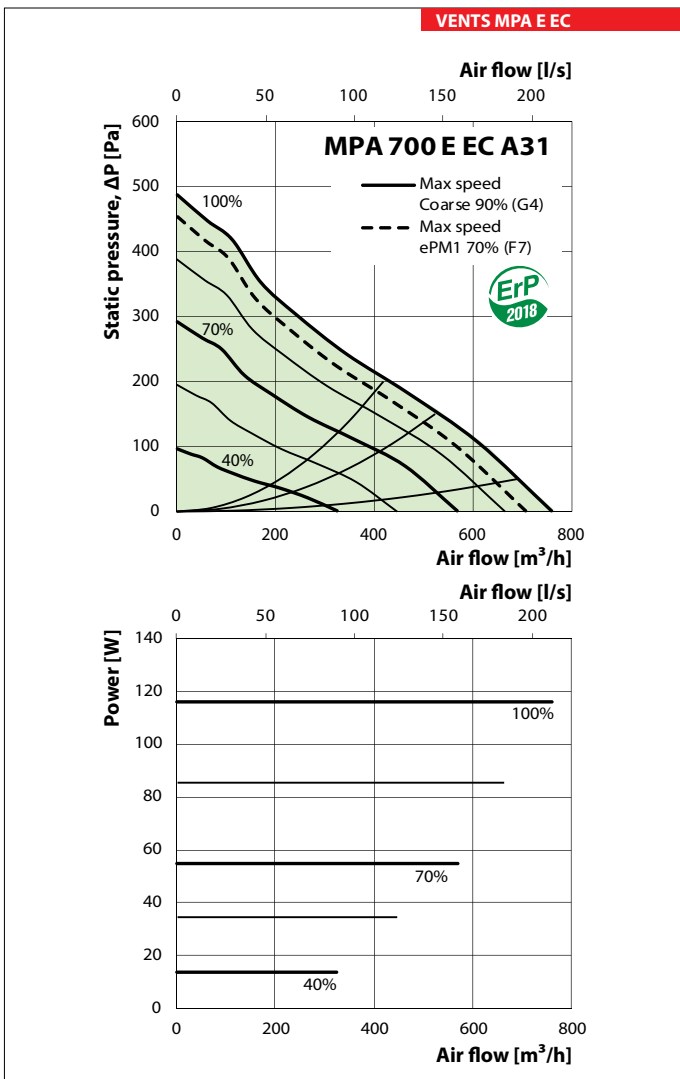
## SUPPLY UNITS

### Technical data

	MPA 300 E-1.7 EC A31	MPA 300 E-5.1 EC A31	MPA 400 E-2.4 EC A31	MPA 400 E-3.3 EC A31	MPA 400 E-6.0 EC A31
Supply voltage [V/50 Hz]	1~230	3~400	1~230	3~400	3~400
Maximum fan power [kW]	0.064	0.064	0.062	0.062	0.062
Maximum electric heater power [kW]	1.7	5.1	2.4	3.3	6.0
Maximum power total [kW]	1.764	5.164	2.462	3.362	6.062
Maximum fan current [A]	0.3	0.3	0.5	0.5	0.5
Maximum current total [A]	7.7	7.4	12	5.4	9.7
Maximum air flow [m <sup>3</sup> /h]	365	354	430	430	430
Sound pressure level through the casing, 3 m, maximum air flow [dBA]	35	35	31	31	31
Transported air temperature [°C]	-30...+40				
Casing material	Aluzinc				
Insulation	30 mm, mineral wool				
Filter	Coarse 90% / G4 (option ePM1 70% / F7)				
Air duct diameter [mm]	160	160	200	200	200
Weight [kg]	24	24	25	25	25

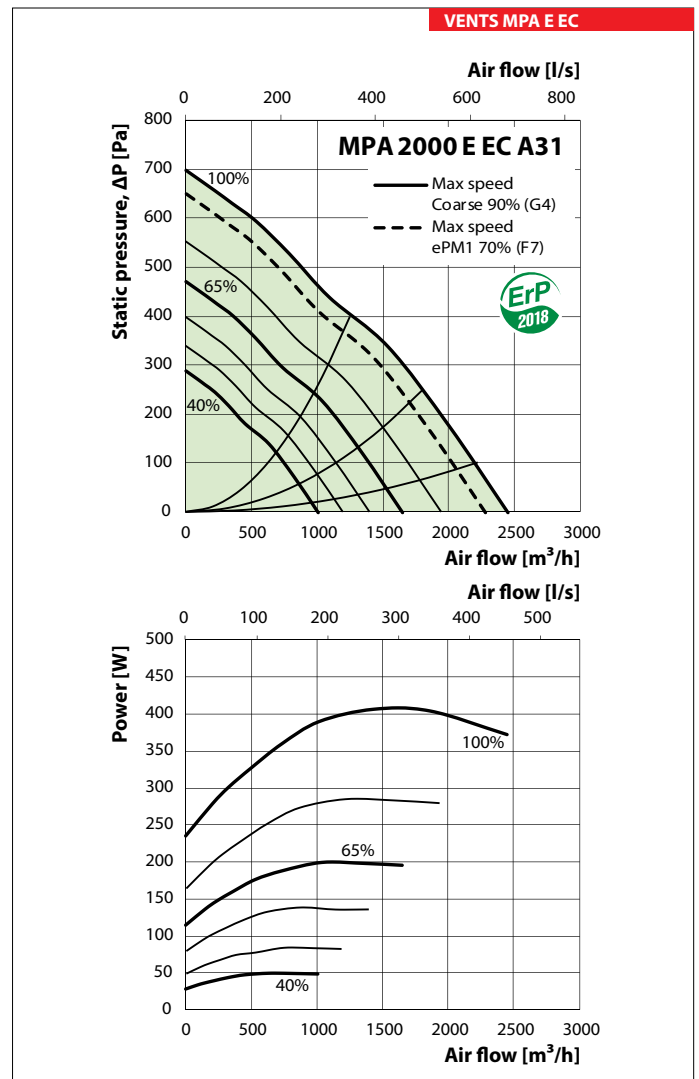
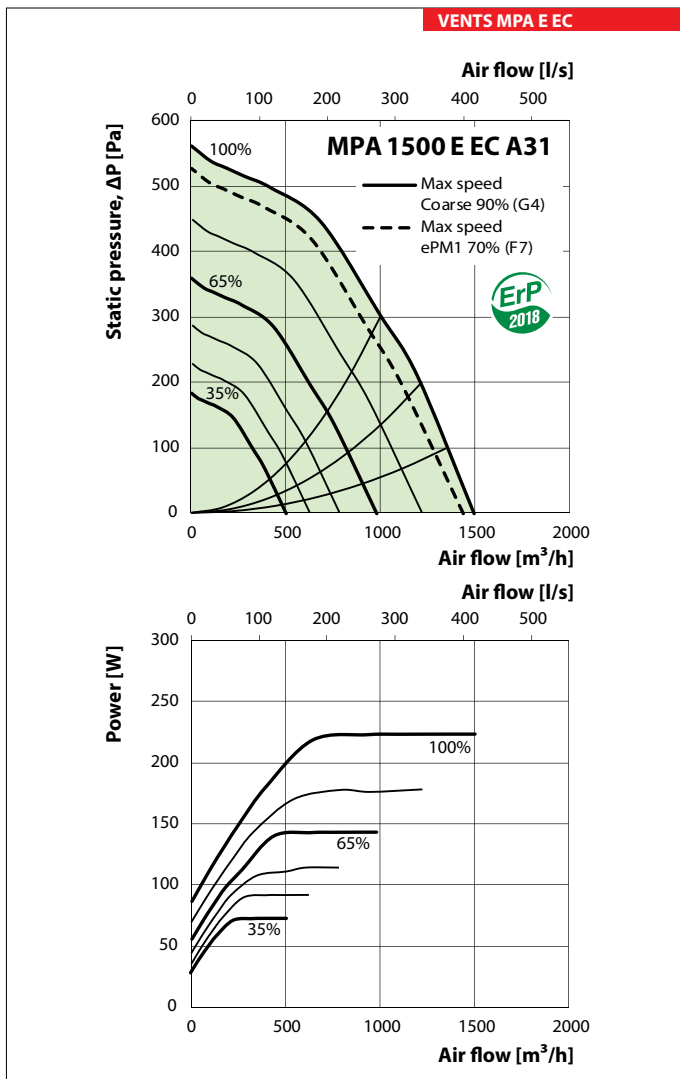


	MPA 700 E-3.0 EC A31	MPA 700 E-6.0 EC A31	MPA 700 E-9.0 EC A31	MPA 1000 E-6.0 EC A31	MPA 1000 E-12.0 EC A31	MPA 1000 E-15.0 EC A31
Supply voltage [V/50 Hz]	3~400	3~400	3~400	3~400	3~400	3~400
Maximum fan power [kW]	0.116	0.116	0.116	0.165	0.165	0.165
Maximum electric heater power [kW]	3.0	6.0	9.0	6.0	12.0	15.0
Maximum power total [kW]	3.116	6.116	9.116	6.165	12.165	15.165
Maximum fan current [A]	0.5	0.5	0.5	1.3	1.3	1.3
Maximum current total [A]	5	10	14.6	11	19.5	24.3
Maximum air flow [m <sup>3</sup> /h]	760	760	760	1000	1000	1000
Sound pressure level through the casing, 3 m, maximum air flow [dBA]	41	41	41	45	45	45
Transported air temperature [°C]	-30...+40					
Casing material	Aluzinc					
Insulation	30 mm, mineral wool					
Filter	Coarse 90% / G4 (option ePM1 70% / F7)					
Air duct diameter [mm]	250	250	250	400 x 200	400 x 200	400 x 200
Weight [kg]	27	27	27	30	30	30

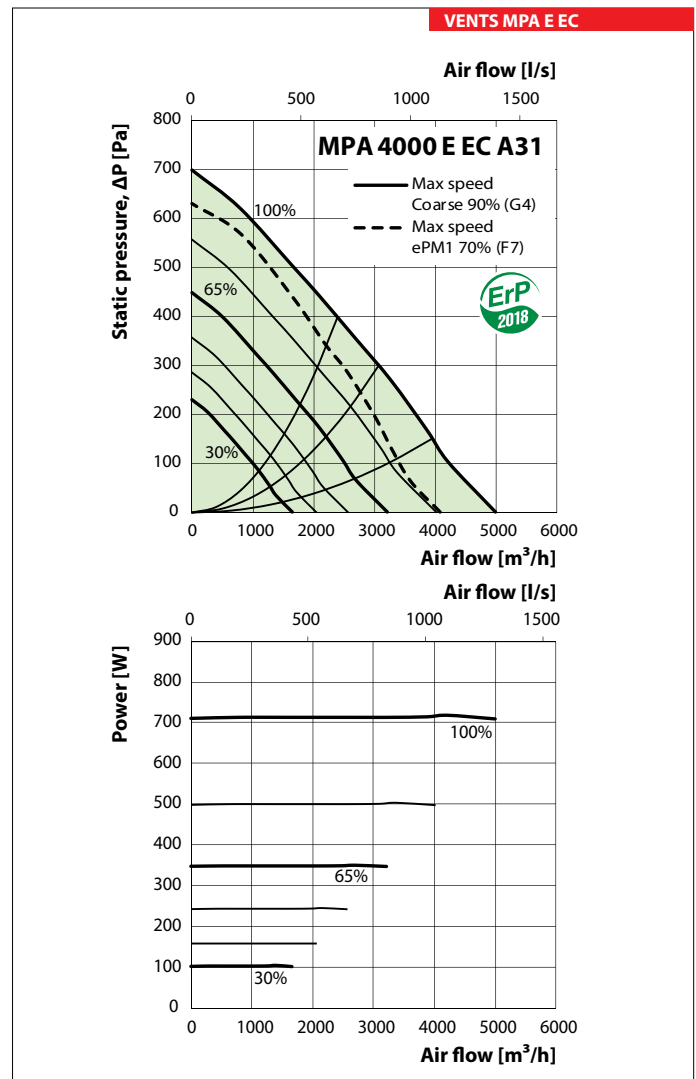
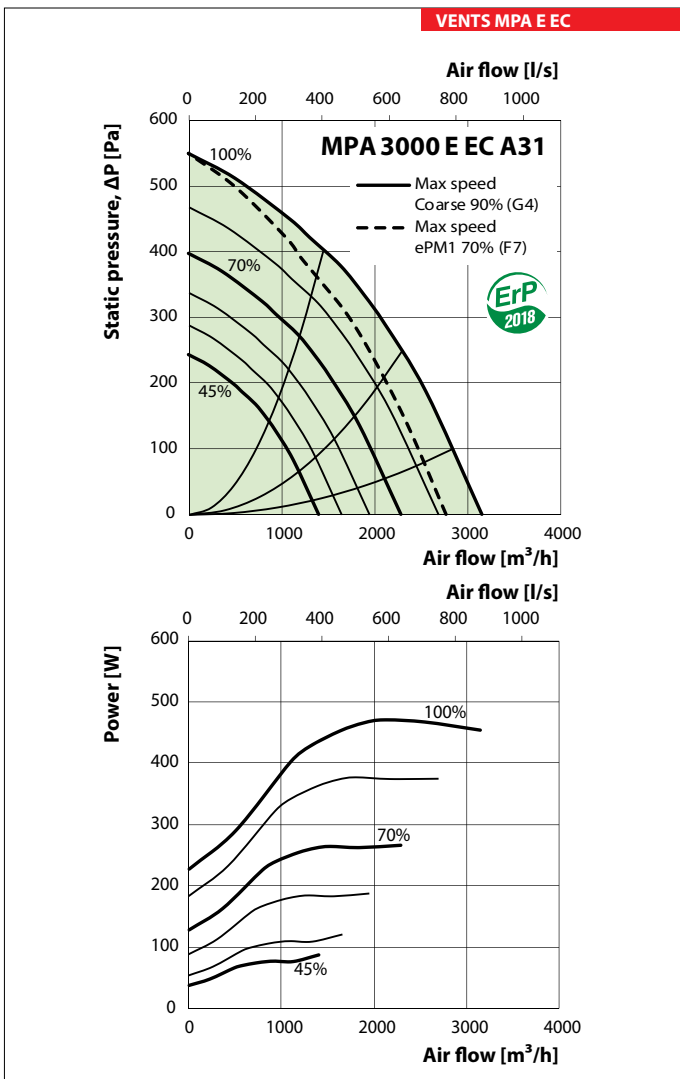


## SUPPLY UNITS

	MPA 1500 E-9.0 EC A31	MPA 1500 E-15.0 EC A31	MPA 1500 E-18.0 EC A31	MPA 2000 E-12.0 EC A31	MPA 2000 E-18.0 EC A31	MPA 2000 E-24.0 EC A31
Supply voltage [V/50 Hz]	3~400	3~400	3~400	3~400	3~400	3~400
Maximum fan power [kW]	0.223	0.223	0.223	0.406	0.406	0.406
Maximum electric heater power [kW]	9.0	15.0	18.0	12.0	18.0	24.0
Maximum power total [kW]	9.223	15.223	18.223	12.406	18.406	24.406
Maximum fan current [A]	1.7	1.7	1.7	1.8	1.8	1.8
Maximum current total [A]	14.8	24.9	29.2	19.9	29.5	39.1
Maximum air flow [m <sup>3</sup> /h]	1500	1500	1500	2450	2450	2450
Sound pressure level through the casing, 3 m, maximum air flow [dBA]	46	46	46	48	48	48
Transported air temperature [°C]	-30...+40					
Casing material	Aluzinc					
Insulation	30 mm, mineral wool					
Filter	Coarse 90% / G4 (option ePM1 70% / F7)					
Air duct diameter [mm]	500 x 250	500 x 250	500 x 250	500 x 300	500 x 300	500 x 300
Weight [kg]	35	35	35	40	40	40



	MPA 3000 E-18.0 EC A31	MPA 3000 E-27.0 EC A31	MPA 3000 E-45.0 EC A31	MPA 4000 E-24.0 EC A31	MPA 4000 E-45.0 EC A31	MPA 4000 E-54.0 EC A31
Supply voltage [V/50 Hz]	3~400	3~400	3~400	3~400	3~400	3~400
Maximum fan power [kW]	0.472	0.472	0.472	0.717	0.717	0.717
Maximum electric heater power [kW]	18.0	27.0	45.0	24.0	45.0	54.0
Maximum power total [kW]	18.472	27.472	45.472	24.717	45.717	54.717
Maximum fan current [A]	2.1	2.1	2.1	1.1	1.1	1.1
Maximum current total [A]	29.6	44	72.8	42.9	73.2	87.6
Maximum air flow [m <sup>3</sup> /h]	3150	3150	3150	5000	5000	5000
Sound pressure level through the casing, 3 m, maximum air flow [dBA]	47	47	47	49	49	49
Transported air temperature [°C]	-30...+40					
Casing material	Aluzinc					
Insulation	30 mm, mineral wool					
Filter	Coarse 90% / G4 (option ePM1 70% / F7)					
Air duct diameter [mm]	600 x 300	600 x 300	600 x 300	700 x 400	700 x 400	700 x 400
Weight [kg]	50	50	50	60	60	60



## SUPPLY UNITS

### Accessories for air handling units

Model	Filter Coarse/G4	Filter ePM1/F7	Flexible connector	Silencer	Air Damper	Electric actuator	
							
MPA 300 E EC A31	SF 334x226x48 Coarse 90% / G4	SF 334x226x48 ePM1 70% / F7	VVG 125	SR 125	KRV 125	TF230	TF24
MPA 400 E EC A31	SF 334x287x48 Coarse 90% / G4	SF 334x287x48 ePM1 70% / F7	VVG 200	SR 200	KRV 200		
MPA 700 E EC A31	SF 384x287x48 Coarse 90% / G4	SF 384x287x48 ePM1 70% / F7	VVG 250	SR 250	KRV 250		
MPA 1000 E EC A31	SF 536x316x48 Coarse 90% / G4	SF 536x316x48 ePM1 70% / F7	VVG 400x200	SR 400x200	RRV 400x200		
MPA 1500 E EC A31	SF 636x376x48 Coarse 90% / G4	SF 636x376x48 ePM1 70% / F7	VVG 500x250	SR 500x250	RRV 500x250		
MPA 2000 E EC A31	SF 636x376x48 Coarse 90% / G4	SF 636x376x48 ePM1 70% / F7	VVG 500x300	SR 500x300	RRV 500x300		
MPA 3000 E EC A31	SF 734x435x80 Coarse 90% / G4	SF 734x435x80 ePM1 70% / F7	VVG 600x300	SR 600x300	RRV 600x300		
MPA 4000 E EC A31	SF 874x485x80 Coarse 90% / G4	SF 874x485x80 ePM1 70% / F7	VVG 700x400	SR 700x400	RRV 700x400		