

Primo 355-400 AC & EC

Inline mixed flow fans

Use

- Inline fans for supply and exhaust ventilation of various commercial and industrial premises requiring powerful air flow.
- The fans are compatible with \varnothing 355 and 400 mm air ducts.
- New product combines wide capabilities and high performance features of axial and centrifugal fans, providing powerful air flow.



Air flow:
up to 5700 m³/h
1583 l/s



Power:
from 126 W



Noise level:
from 33 dBA



Design

- The fan casing is made of polymer and reinforced with a metal housing. Due to the conically shaped polymer impeller with specially profiled blades, the air stream circular velocity increases, which results in higher air flow and pressure, as compared to characteristics of standard axial fans.
- The specially designed diffuser, impeller and airflow rectifier at the fan outlet provide smooth air flow distribution and enable the best combination of high capacity, powerful pressure and low noise. The fan casing is equipped with an airtight terminal box for connection to power mains.

Motor

- The fans are equipped with three-speed four-pole asynchronous motors or energy efficient EC motors.
- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours, are 2 speed with an exterior two speed switch.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Overall Dimensions [mm]

Model	\varnothing D	\varnothing D1	B	L
Primo 355 AC & EC	350	390	450	388
Primo 400 AC & EC	395	441	500	388

Ordering Information

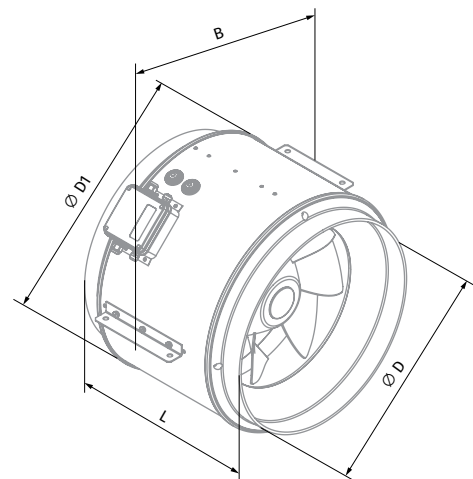
Part Number	Model	Description
BLAUPRIMO355	Primo 355	MIXFLO 355 mm 3 SPEED FAN
BLAUPRIMO400	Primo 400	MIXFLO 400 mm 3 SPEED FAN
BLAUPRIMOEC355	Primo EC 355	MIXFLO 355 mm FAN EC MOTOR
BLAUPRIMOEC400	Primo EC 400	MIXFLO 400 mm FAN EC MOTOR

Speed Control

- The AC fans are controlled by either a three-stage **CDPE-3 E5** controller or a smooth thyristor controller connected to the maximum speed terminal.
- EC models are regulated by a smooth 0-10 V controller.

Mounting

- The fans may be mounted at any place and at any angle within the ductwork system. Several fans may be installed in one system in parallel to attain higher air capacity or in series to increase operating pressure in the system. The fan casing is equipped with fixing brackets for suspended mounting.



Technical Data

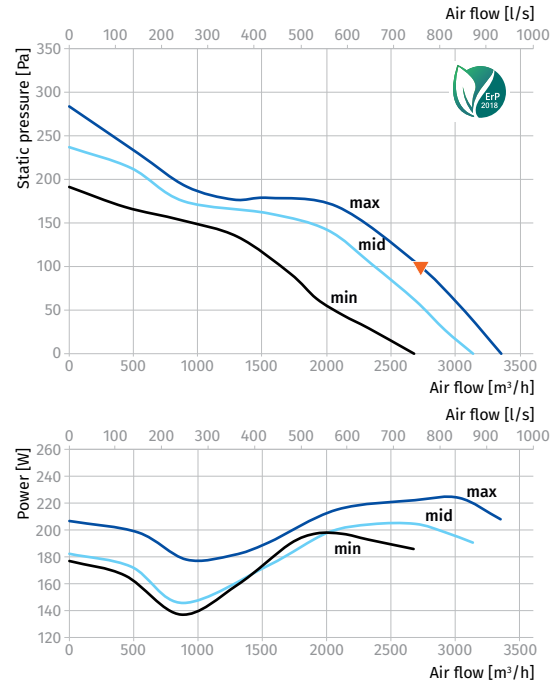
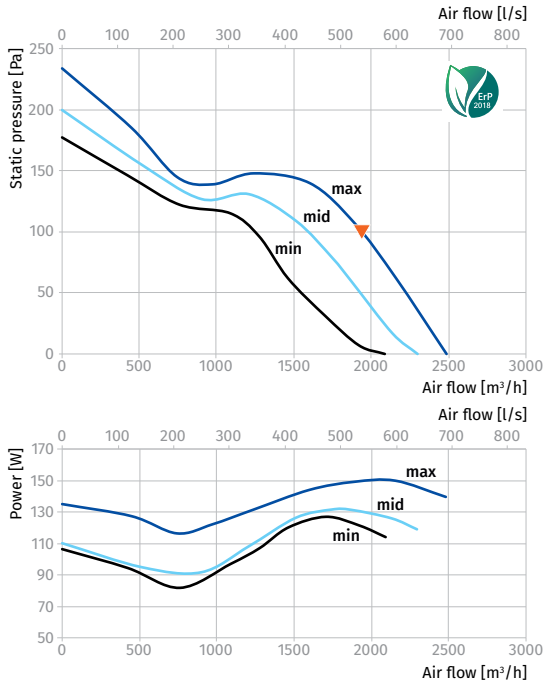
Parameters	Primo 355			Primo 400		
	min	mid	max	min	mid	max
Speed						
Voltage [V / 50 Hz]	1~ 230			1~ 230		
Power [W]	126	131	150	197	204	224
Current [A]	0.60	0.58	0.66	0.91	0.90	0.98
Maximum air flow [m³/h (l/s)]	2090 (581)	2296 (638)	2485 (690)	2677 (744)	3136 (871)	3350 (931)
RPM [min ⁻¹]	1350	1400	1470	1320	1390	1446
Sound pressure at 3 m [dBA]	47	47	49	48	49	51
Transported air temperature [°C]	-25...+55			-25...+55		
Protection rating	IPX4			IPX4		
Motor protection rating	IP44			IP44		
Erp compliance	2018			2018		

PRIMO 355

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	69	50	61	63	60	63	60	56	48	49	59
LWA to outlet [dBA]	69	56	61	63	61	65	59	54	48	49	59
LWA to environment [dBA]	63	42	49	61	53	57	50	46	35	43	53

PRIMO 400

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	71	57	62	66	65	64	61	55	47	51	61
LWA to outlet [dBA]	73	57	65	63	67	68	63	59	51	52	62
LWA to environment [dBA]	64	45	52	53	57	60	54	48	38	43	53



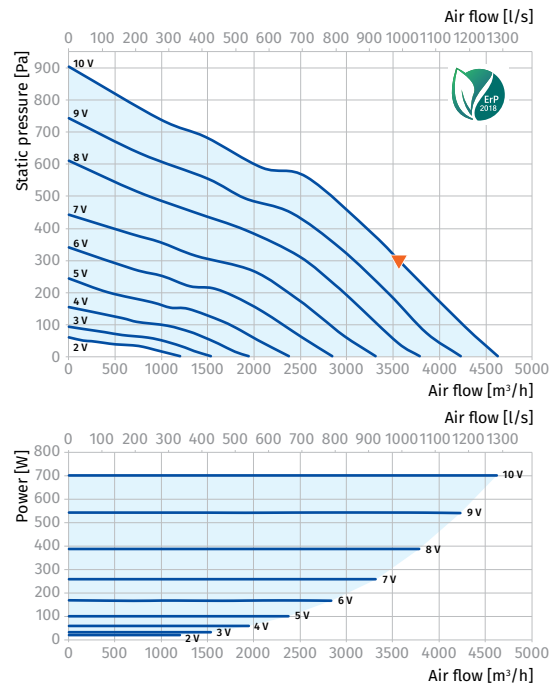
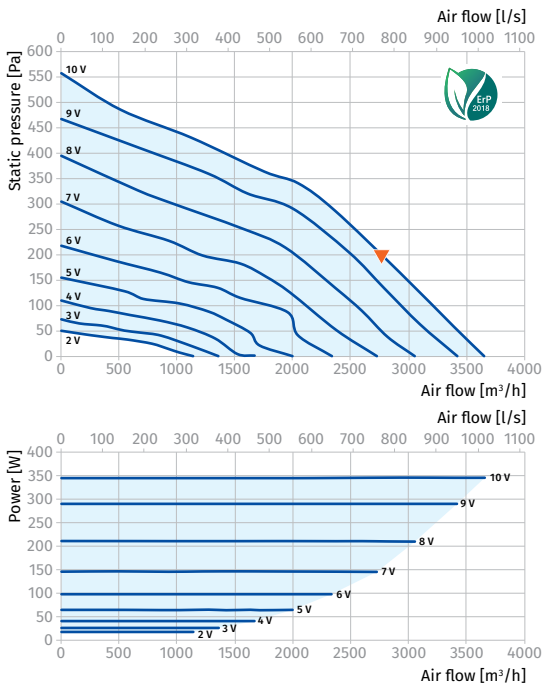
Parameters	Primo EC 355	Primo EC 355 max	Primo EC 400
Voltage [V / 50 Hz]	1~ 230	1~ 230	1~ 230
Power [W]	346	701	726
Current [A]	1.54	3.10	3.23
Maximum air flow [m ³ /h (l/s)]	3685 (1024)	4630 (1286)	5700 (1583)
RPM [min ⁻¹]	2470	3175	2580
Sound pressure at 3 m [dBA]	33-63	35-68	33-66
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55
Protection rating	IPX4	IPX4	IPX4
Motor protection rating	IP44	IP44	IP44
Erp compliance	2018	2018	2018

PRIMO EC 355

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	83	73	76	75	75	78	74	69	61	63	73
LwA to outlet [dBA]	85	70	79	75	77	81	76	71	64	65	75
LwA to environment [dBA]	76	56	64	67	70	71	68	63	53	55	65

PRIMO EC 355 MAX

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	88	74	82	79	79	83	80	75	66	68	78
LwA to outlet [dBA]	90	72	83	79	81	86	82	77	70	70	80
LwA to environment [dBA]	80	45	63	66	73	77	74	68	57	60	70



INLINE FANS

PRIMO EC 400

Sound power level, A-weighted ▼	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	87	70	77	78	81	81	79	74	67	66	76
L _{WA} to outlet [dBA]	88	62	76	78	83	84	80	75	66	68	78
L _{WA} to environment [dBA]	80	59	66	69	74	77	72	67	58	60	70

