

Primo

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 3350 m³/h
931 l/s



Power:
from 126 W



Noise level:
from 47 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

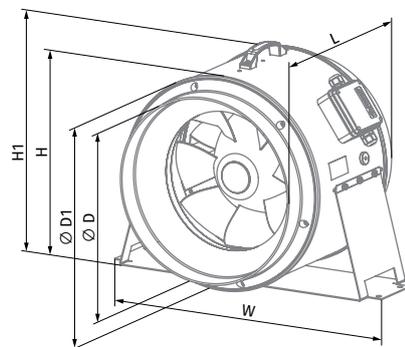
- The fans are equipped with three-speed four-pole asynchronous motors.
- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours, are 3 speed with an exterior three speed switch.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Ordering Information

Part Number	Model	Description
BLAUPRIMO355	Primo 355	MIXFLO 355 mm 3 SPEED FAN
BLAUPRIMO400	Primo 400	MIXFLO 400 mm 3 SPEED FAN

Overall Dimensions [mm]

Model	\varnothing D	\varnothing D1	H	H1	L	W
Primo 355	355	406	408	439	372	566
Primo 400	400	451	453	484	415	623



Wiring

- Comes with a 1.2 m lead, 3 pin plug.

Speed Control

- Fitted with three speed switching, or can be controlled by a smooth thyristor controller connected to the maximum speed terminal.

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 (mounting bracket included).

Designation key

Series	Duct diameter [mm]
Primo	355; 400

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]	38	38	43	40	42	43
Transported air temperature [°C]		-25...+55			-25...+55	
Protection rating		IPX4			IPX4	
Motor protection rating		IP20			IP20	
ErP compliance		2018			2018	

PRIMO 355 50 Hz

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 50 Hz

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

