



**FIME**<sup>®</sup>  
your secret allies



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## COMPANY PROFILE

Elica Group motors business unit, originates from FIME, a company founded in 1974, as electric motors designer and manufacturer. FIME has always been characterized by its vertical structure which allows to create and control internally all production phases starting from raw materials. Over the years the company has expanded its market presence to become a reference both in the domestic ventilation field (fans for hoods) as well as heating field (fans for boilers). Strong of its thirty years long experience in ventilation and heating, Elica Group Company is today, under FIME Brand, leader on both markets.

Due to the spirit of complete harmony and cooperation that has always characterized relations with large industrial groups, Elica Group could develop a strong Know-how not only in the electromechanical motor design, but also in fluid dynamic and electronic design that allow us today to offer to the market integrated systems and air treatment devices. Design, is also carried out and monitored internally in the same way of production. Our technical dept. is equipped with the most modern tools for calculation and simulation in fluid dynamics, electromagnetism, integrated systems and, last but not least, mechanical structure. Besides the virtual instruments the technical dept. is equipped with tools to support and validate projects as well as products.

Aligned with the Elica Group industrial policy, the motor business has a production philosophy respectful of people and the environment welfare. FIME branded ventilation systems comply with sustainability and energy saving European standards. Nowadays the achieved technical know-how has allowed Elica to enter the commercial refrigeration business, where technologically advanced and energy saving products are required.



Wroclaw plant - Poland





*Castelfidardo plant - Italy*

## Innovation and technology

Nowadays the achieved technical know-how has allowed Elica to enter the commercial refrigeration business, where technologically advanced and energy saving products are required.

## MOTOR ADVANTAGES

"Meeting the great challenges of today requires experience and ability. Specific research focused on the development of highly innovative technology, allowed Elica, under FIME brand, to enter in the refrigeration business, creating a new range of products combining high efficiency, adaptability and reduced dimensions."

- High efficiency
- Easy replacement of traditional shaded pole motors
- Electronic control integrated in the motor
- The motor electronic board runs protection systems due to faulty motor behaviour
- Wide RPM range
- Rotation speed not affected by net power supply fluctuations
- High protection grade
- High temperature working range (-40°C / +50°C)



**FEATURES**

Internal rotor Brushless DC motor

**HOUSING**

Die-casted aluminium

**MOUNTING POSITION**

Horizontal/vertical

**ROTATION**

CCW (shaft side)

**INSULATION CLASS**

Class 130 according to EN60335

**MOTOR PROTECTION**

Electronically protected

**OPERATING TEMPERATURE RANGE**

-40°C / +50°C

**PROTECTION DEGREE**

IP56 (only with horizontal shaft)

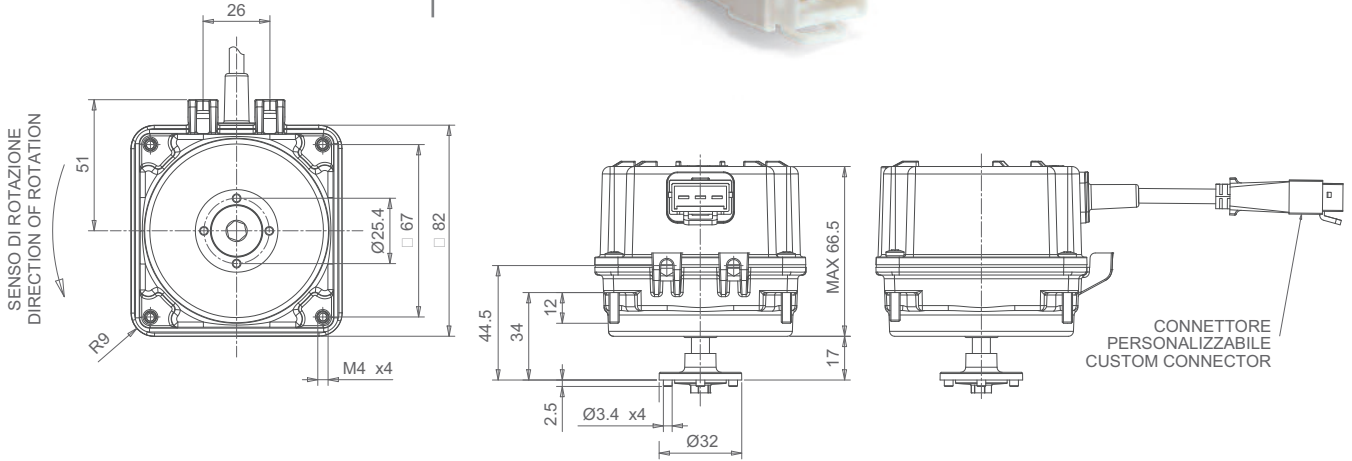
IP55 (any shaft position)

according to EN 60529

**OPTIONS**

Speed, control, impeller, power cable length and type of connection on request.

**B 12**



TYPE	RATED VOLTAGE	FREQUENCY	IMPELLER FEATURE		INPUT POWER	NOMINAL SPEED	TYPE	RATED VOLTAGE	FREQUENCY	IMPELLER FEATURE		INPUT POWER	NOMINAL SPEED						
			DIAMETER	PITCH						DIAMETER	PITCH								
B1200300 (MOT0006796)	230 V ± 15%	50/60 Hz	200 mm	22° deg	6 W	1350 ± 50 rpm	B1200400 (MOT0006797)	230 V ± 15%	50/60 Hz	200 mm	22° deg	18 W	2400 ± 50 rpm						
				28° deg	10 W						28° deg	40 W							
				34° deg	13 W						34° deg	54 W							
			230 mm	22° deg	12 W					2150 ± 50 rpm	200 mm	22° deg		16 W					
				28° deg	19 W							28° deg		28 W					
				34° deg	25 W							34° deg		38 W					
254 mm	22° deg	22 W																	
B1200600 (MOT0040330)	230V ±15%	50/60 Hz	154 mm	15° deg	2,2 W	900 ± 50 rpm	B1200700 (MOT0040331)	230V ±15%	50/60 Hz		154 mm	15° deg	2,4 W	1100 ± 50 rpm					
				22° deg	2,4 W							22° deg	2,5 W						
			172 mm	15° deg	2,3 W					172 mm	15° deg	2,5 W							
				22° deg	2,5 W						22° deg	2,9 W							
	31° deg	3,4 W		31° deg	4,5 W														
	34° deg	3,5 W		34° deg	4,7 W														
	200 mm	50/60 Hz	200 mm	22° deg	3,1 W					200 mm	22° deg	4 W							
				28° deg	4,2 W						28° deg	6 W							
				34° deg	5,1 W						34° deg	7,4 W							
	B1200800 (MOT0040332)	230V ±15%	50/60 Hz	154 mm	15° deg					2,6 W	1200 ± 50 rpm	B1200900 (MOT0040333)	230V ±15%		50/60 Hz	154 mm	15° deg	2,9 W	1400 ± 50 rpm
					22° deg					2,8 W							22° deg	3,1 W	
172 mm				15° deg	2,7 W	172 mm	15° deg	3 W											
				22° deg	3,2 W		22° deg	4 W											
		31° deg	5,3 W	31° deg	7,1 W														
		34° deg	5,5 W	34° deg	7,6 W														
200 mm		50/60 Hz	200 mm	22° deg	6 W	200 mm	22° deg	8,5 W											
				28° deg	7,2 W		28° deg	10,5 W											
				34° deg	8,9 W		34° deg	13,2 W											

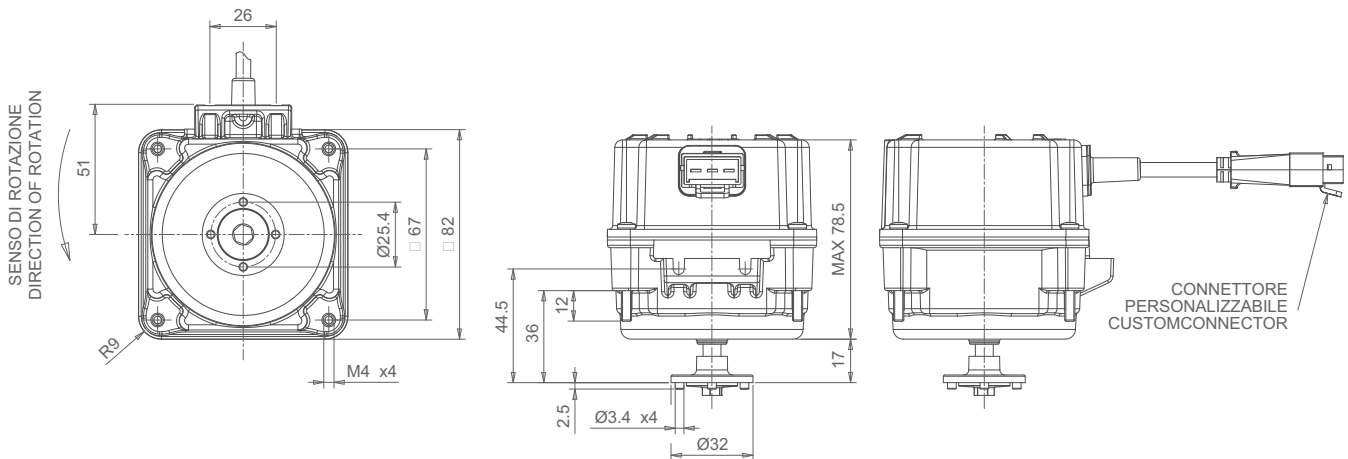




- Internal rotor Brushless DC motor
- HOUSING**  
Die-casted aluminium
- MOUNTING POSITION**  
Horizontal/vertical
- ROTATION**  
CCW (shaft side)
- INSULATION CLASS**  
Class 130 according to EN60335
- MOTOR PROTECTION**  
Electronically protected
- OPERATING TEMPERATURE RANGE**  
-40°C / +50°C
- PROTECTION DEGREE**  
IP56 (only with horizontal shaft)  
IP55 (any shaft position)  
according to EN 60529

OPTIONS

Speed, control, impeller, power cable lenght and type of connection on request.



TYPE	RATED VOLTAGE	FREQUENCY	IMPELLER FEATURE		INPUT POWER	NOMINAL SPEED
			DIAMETER	PITCH		
B2400100 (MOT0018921)	230V ±15%	50/60 Hz	230 mm	22° deg	10 W	1250 ± 50 rpm
				28° deg	14 W	
				34° deg	17 W	
			254 mm	22° deg	13 W	
				28° deg	25 W	
				34° deg	29 W	
			300 mm	19° deg	24 W	
				22° deg	26 W	
				28° deg	44 W	

**FEATURES**

Axial fan motor

**MOTOR**

External rotor Brushless DC motor

**FAN TYPE**

5 Blades (steel)

**MOUNTING POSITION**

Horizontal/vertical

**DIRECTION OF AIR FLOW**

Suction

**ROTATION**

CW (shaft side)

**INSULATION CLASS**

Class 130 according to EN60335

**MOTOR PROTECTION**

Electronically protected

**OPERATING TEMPERATURE RANGE**

-40°C / +50°C

**PROTECTION DEGREE**

44 according to EN 60529

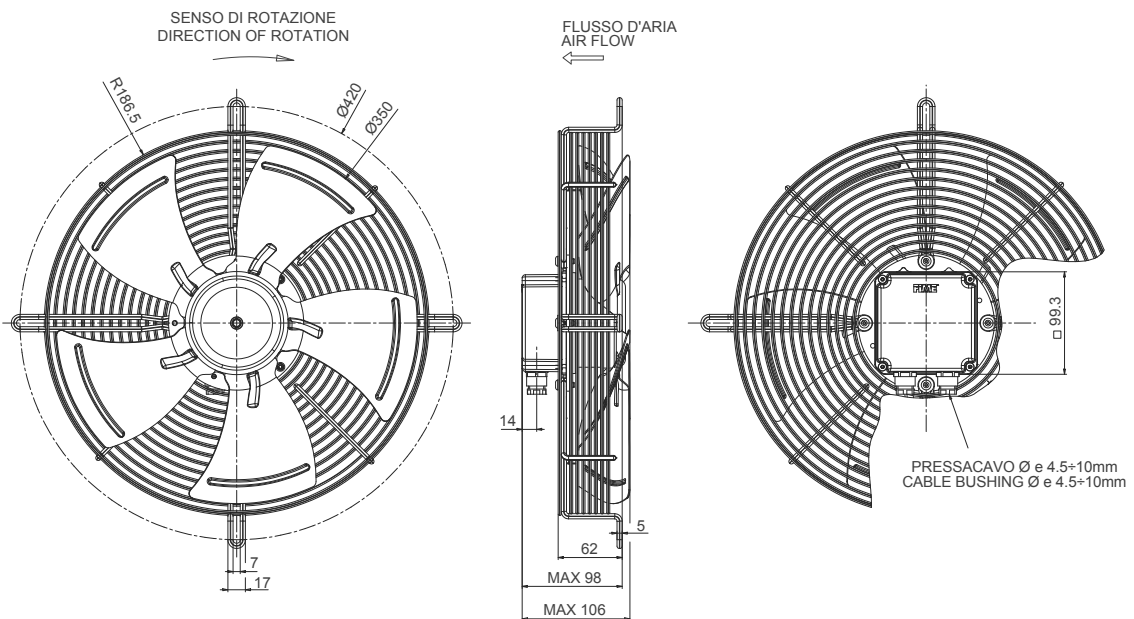
**GRID**

Protection grid attached to the die-cast housing

**OPTIONS**

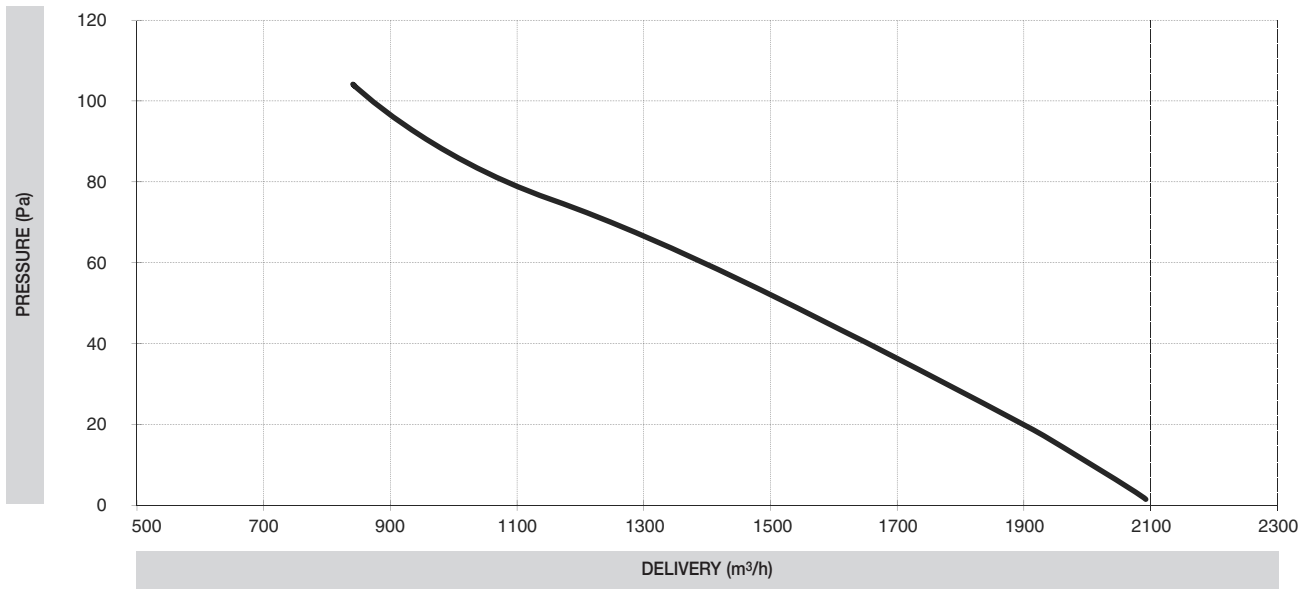
Customizable speed.

**ECF**

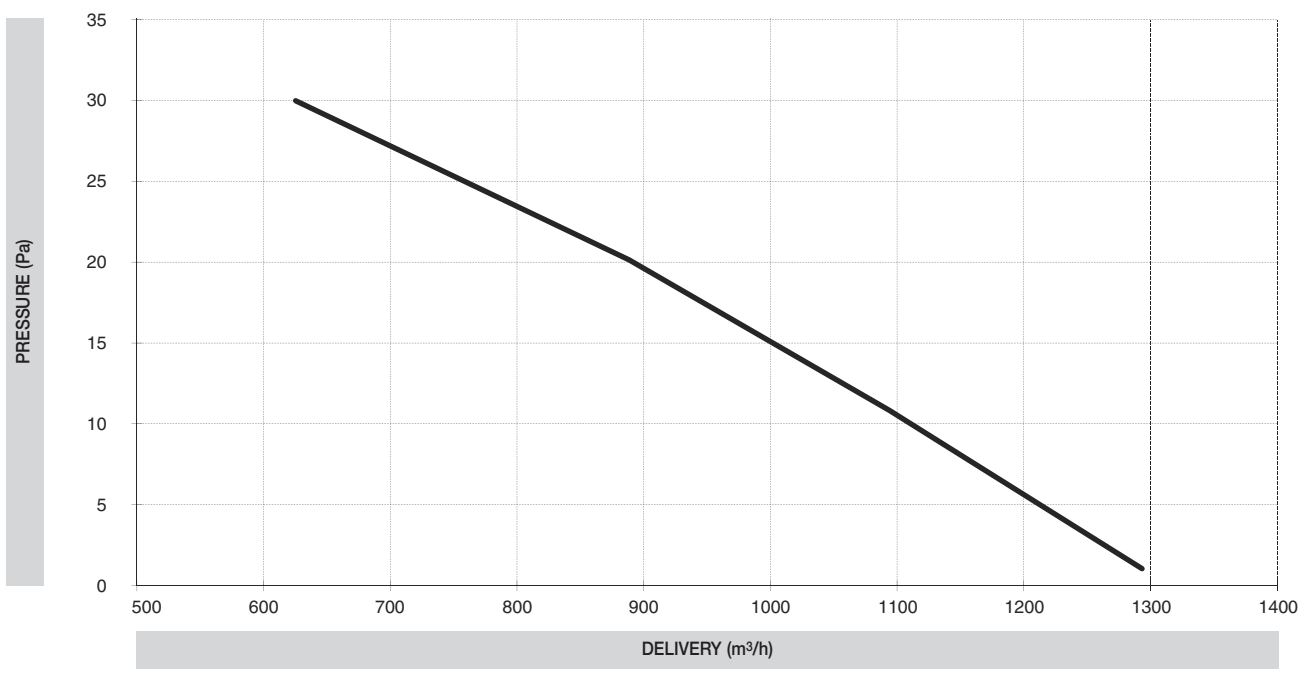


TYPE	RATED VOLTAGE	FREQUENCY	IMPELLER FEATURE		CURVE	INPUT POWER	NOMINAL SPEED
			DIAMETER	STAGGER ANGLE			
ECF00601 (ECF0015270)	230 V ± 15%	50/60 Hz	350 mm	66 deg	A1	100 W	1475 ± 50 rpm
ECF00801 (ECF0019597)					A2	23 W	900 ± 50 rpm

CHARACTERISTIC CURVE A1



CHARACTERISTIC CURVE A2



Test performed without inlet bell.

**FEATURES**

Axial fan motor

**MOTOR**

External rotor Brushless DC motor

**FAN TYPE**

5 Blades (steel)

**MOUNTING POSITION**

Horizontal/vertical

**DIRECTION OF AIR FLOW**

Suction

**ROTATION**

CW (shaft side)

**INSULATION CLASS**

Class 130 according to EN60335

**MOTOR PROTECTION**

Electronically protected

**OPERATING TEMPERATURE RANGE**

-40°C / +50°C

**PROTECTION DEGREE**

44 according to EN 60529

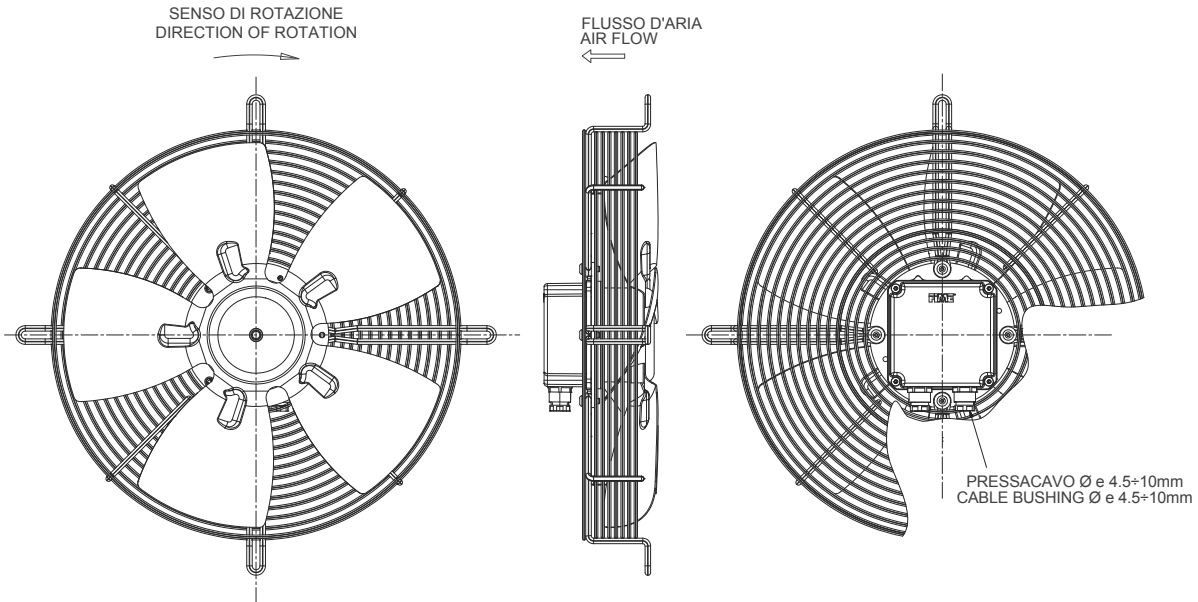
**GRID**

Protection grid attached to the die-cast housing

**OPTIONS**

Customizable speed.

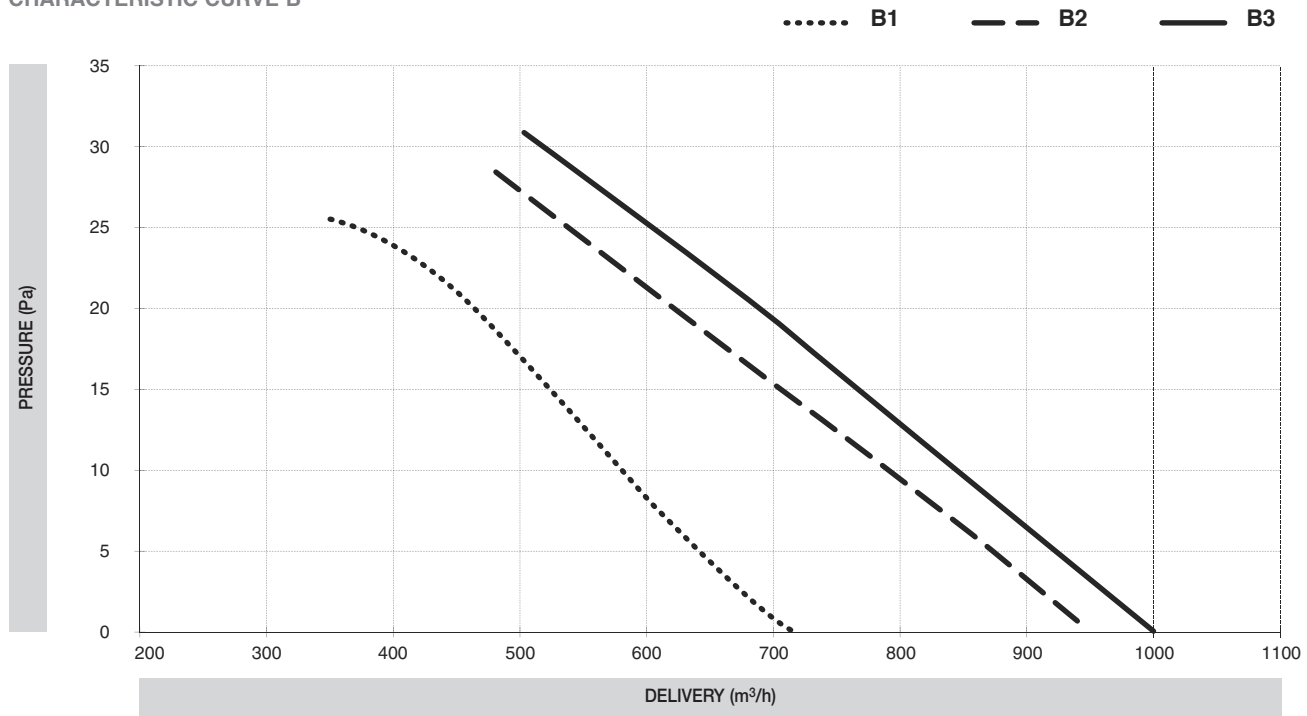
**ECF STANDARD**



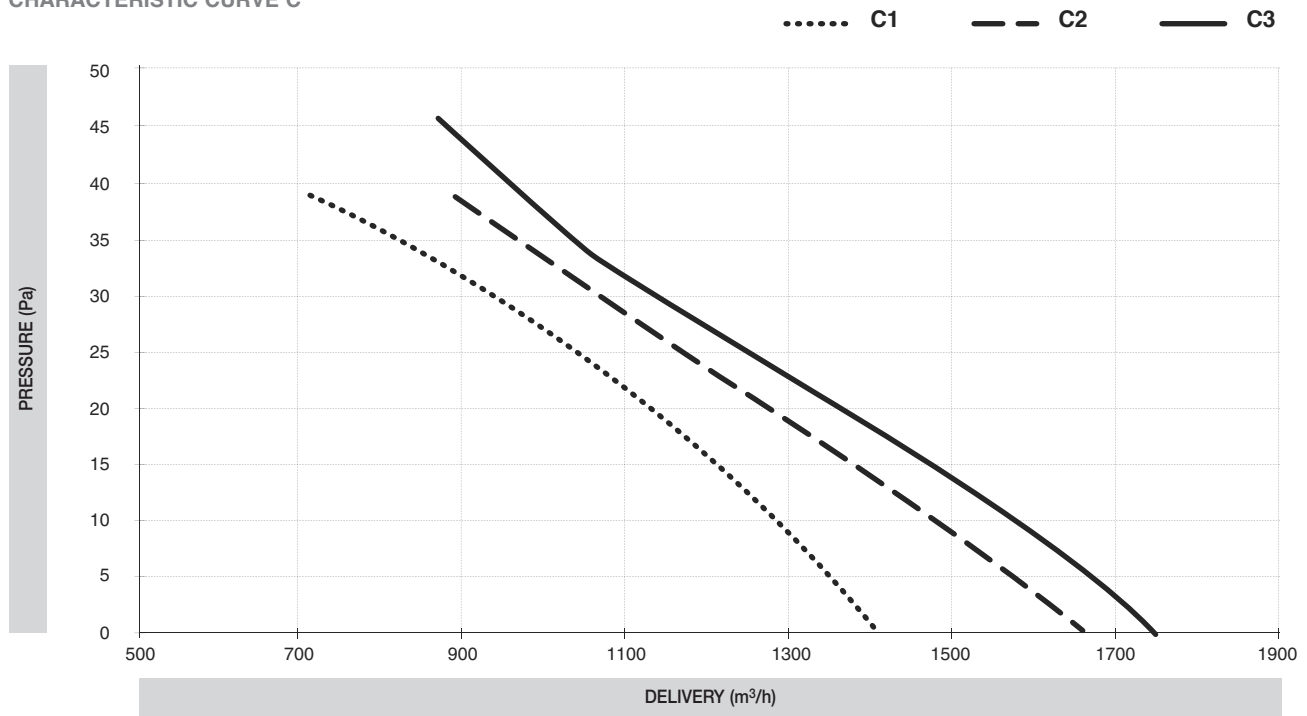
TYPE	RATED VOLTAGE	FREQUENCY	IMPELLER FEATURE		CURVE	INPUT POWER	NOMINAL SPEED					
			DIAMETER	STAGGER ANGLE								
ECF00805 (ECF0086338)	230 V ± 15%	50/60 Hz	300 mm	21 deg	B1	13 W	900 ± 50 rpm					
ECF00806 (ECF0086339)				27 deg	B2	19 W						
ECF00807 (ECF0086340)				30 deg	B3	22 W						
ECF00808 (ECF0086341)			350 mm	21 deg	C1	25 W						
ECF00809 (ECF0086342)				27 deg	C2	36 W						
ECF00810 (ECF0086343)				30 deg	C3	43 W						
ECF00603 (ECF0036330)			230 V ± 15%	50/60 Hz	250 mm	21 deg	D1	20 W	1475 ± 50 rpm			
ECF00607 (ECF0086344)						27 deg	D2	28 W				
ECF00608 (ECF0086345)						30 deg	D3	33 W				
ECF00605 (ECF0062554)					300 mm	21 deg	E1	48 W				
ECF00604 (ECF0062553)						27 deg	E2	70 W				
ECF00112 (ECF0017186)						30 deg	E3	85 W				
ECF00602 (ECF0026548)					230 V ± 15%	50/60 Hz	350 mm	21 deg		F1	90 W	1475 ± 50 rpm



**CHARACTERISTIC CURVE B**

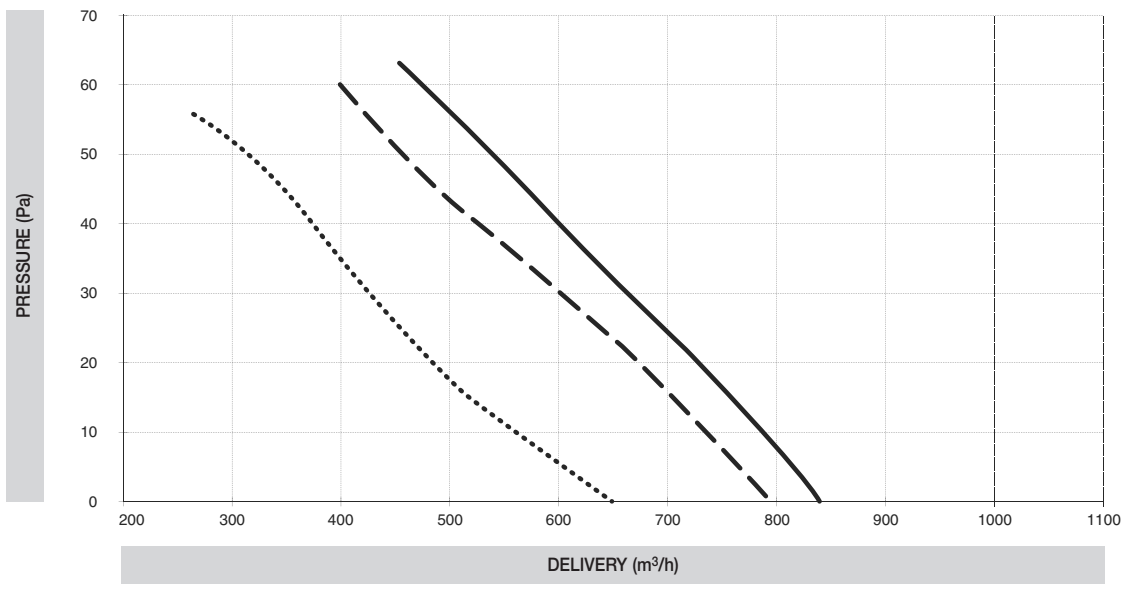


**CHARACTERISTIC CURVE C**



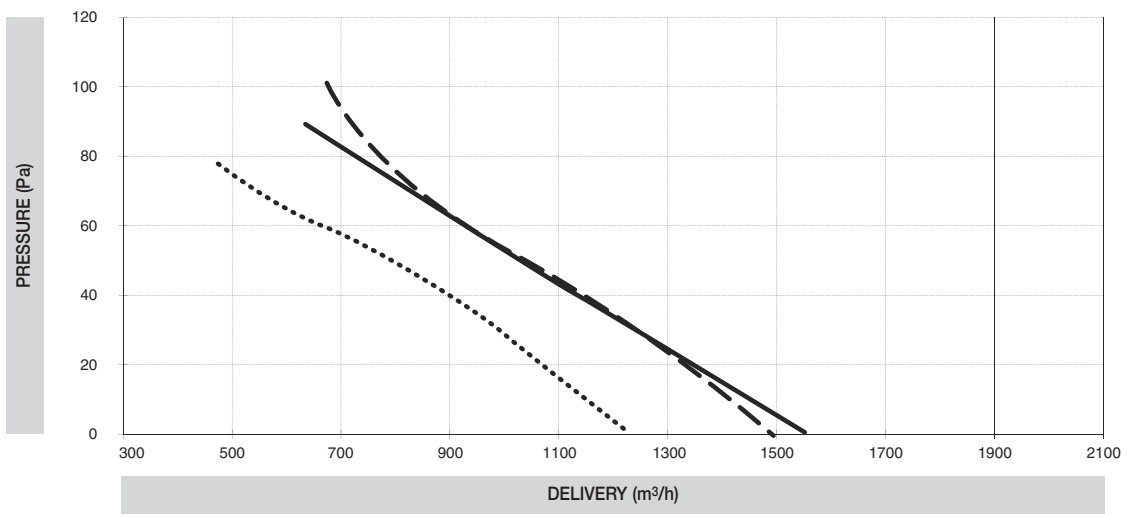
CHARACTERISTIC CURVE D

..... D1      - - - D2      — D3

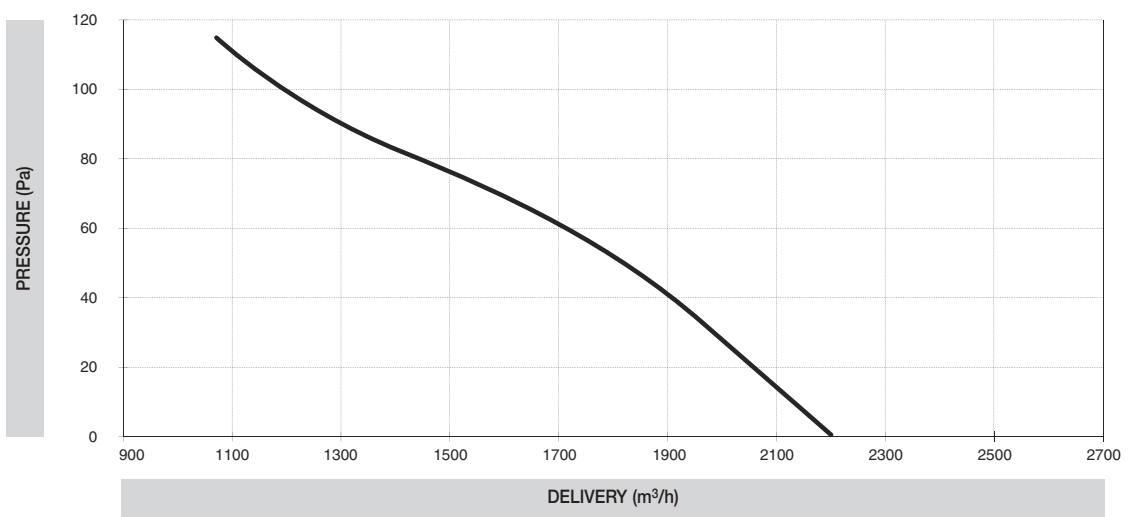


CHARACTERISTIC CURVE E

..... E1      - - - E2      — E3



CHARACTERISTIC CURVE F



Test performed without inlet bell.



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