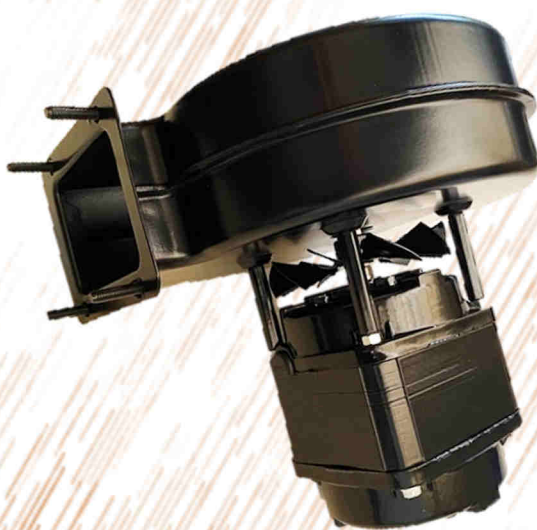


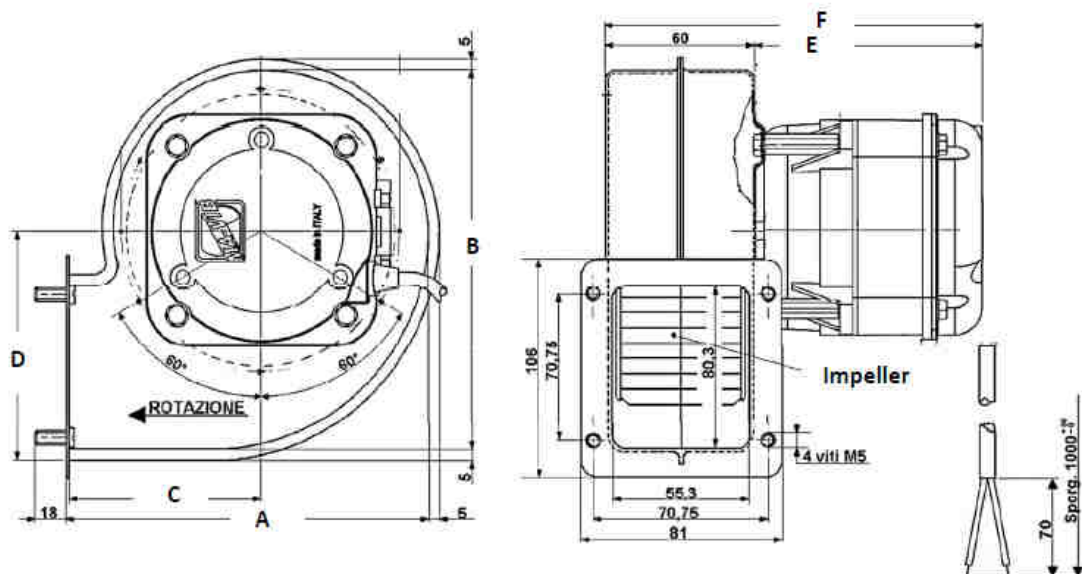
Centrifugal ECM blowers



Centrifugal ECM blowers

Ø 108mm ÷ Ø 133mm

Serie OS ECM



Electronic Commutated Motor 15 / 21 - 230 V – 50/60Hz (on demand 100V-240V - 50/60Hz universal power supply)

Operation mode	S1	IP protection	44 (on demand 55)	Standard of ref.
Mounting position	All	Marking	CE + (*)	EN 60335-1/A15 /2-24 /2-89 (*) Gas IIA
Motor bearing	Ball	Ambient temp.	-40°C ÷ +50°C	60034-1(REM) 60529(IP) 60079-15(*)
Motor protection	Electronically (1)	Max. intake air	+ 50°C	(*) Ex II 3G Ex nA IIA T6
Locked rotor protec.	Yes	Max *C. storage	-40°C ÷ +80°C	2006/42/CE(Mac.) 2014/35/UE(Low V.)
Insulation	B	Expect. life Ball Bear.	Over 60.000 h	2014/30/UE(EMC) 2015/863(RoHS3)

(1) Safety protection automatically reduces rpm if exceed W.in limit, reached min. rpm fan stop/restart 3 time and stop working after safe try time

Serie OS-EB ; 2 Speed (on demand different rpm)

CODE	Label data					Dimensions						Impeller	
	rpm	A.	W.in Free air	W.in Max. Pa	Prot.	A	B	C	D	E	F	Ø	H
OSX108B15EB0.	3100 / 2700	0,3	12	30	Electr.	143	133	77	84	78	138	108	50
OSX120B21EB0.	2900 / 2500	0,4	19	48		186	182	93	104	98	158	120	50
OSX133B21EB0.	2900 / 2500	0,4	19	48		186	182	93	104	98	158	133	50

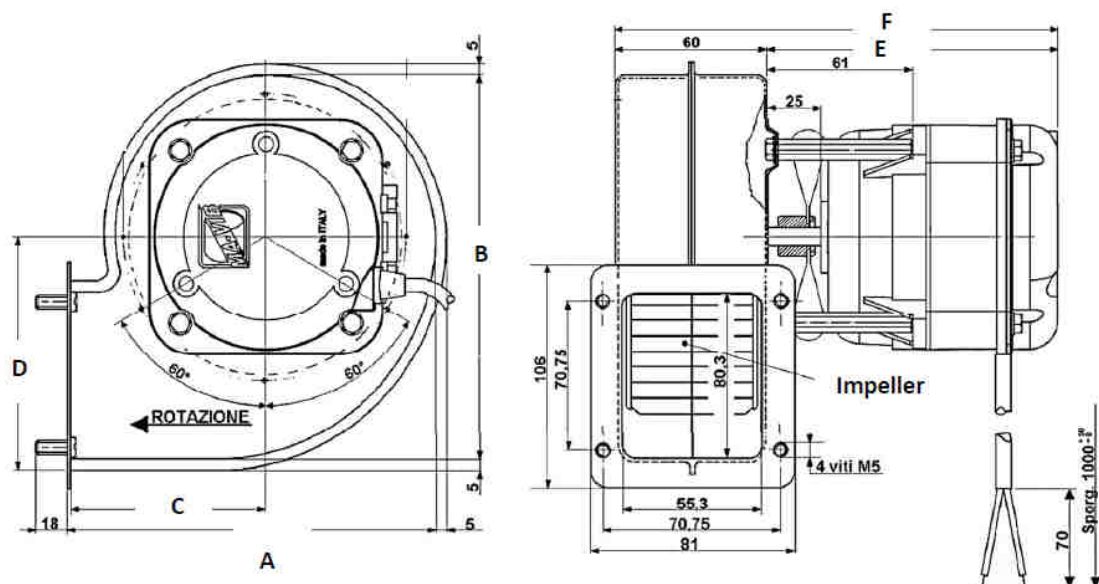
Serie OS-EC ; Variable speed by electrically isolated signal PWM or 0÷10Vdc

CODE	Label data				Dimensions						Impeller		
	rpm	A.	W.in Free air	W.in Max. Pa	Prot.	A	B	C	D	E	F	Ø	H
OSX108B15EC0.	3100 ÷ 1900	0,3	7	30	Electr.	143	133	77	84	78	138	108	50
OSX120B21EC0.	2900 ÷ 1900	0,4	11	48		186	182	93	104	98	158	120	50
OSX133B21EC0.	2900 ÷ 1900	0,4	11	48		186	182	93	104	98	158	133	50

High temperature ECM exhaust blowers

Ø 108mm ÷ Ø 133mm

Serie OS ECM



Electronic Commutated Motor 15 / 21 - 230 V – 50/60Hz (on demand 100V-240V - 50/60Hz universal power supply)

Operation mode	S1	IP protection	44 (on demand 55)	Standard of ref.
Mounting position	All	Marking	CE + (*)	EN 60335-1/A15 /2-24 /2-89 (*) Gas IIA
Motor bearing	Ball	Ambient temp.	-40°C ÷ +50°C	60034-1(REM) 60529(IP) 60079-15(*)
Motor protection	Electronically (1)	Max. intake air	+ 190°C	(*) Ex II 3G Ex nA IIA T6
Locked rotor protec.	Yes	Max *C. storage	-40°C ÷ +80°C	2006/42/CE(Mac.) 2014/35/UE(Low V.)
Insulation	B	Expect. life Ball Bear.	Over 60.000 h	2014/30/UE(EMC) 2015/863(RoHS3)

(1) Safety protection automatically reduces rpm if exceed W.in limit, reached min. rpm fan stop/restart 3 time and stop working after safe try time

Serie OS-EB ; 2 Speed (on demand different rpm)

CODE	Label data					Dimensions						Impeller	
	rpm	A.	W.in Free air	W.in Max. Pa	Prot.	A	B	C	D	E	F	Ø	H
OSX108B15EB5.	3100 / 2700	0,3	12	30	Electr.	143	133	77	84	98	158	108	50
OSX120B21EB5.	2900 / 2500	0,4	19	48		186	182	93	104	118	178	120	50
OSX133B21EB5.	2900 / 2500	0,4	19	48		186	182	93	104	118	178	133	50

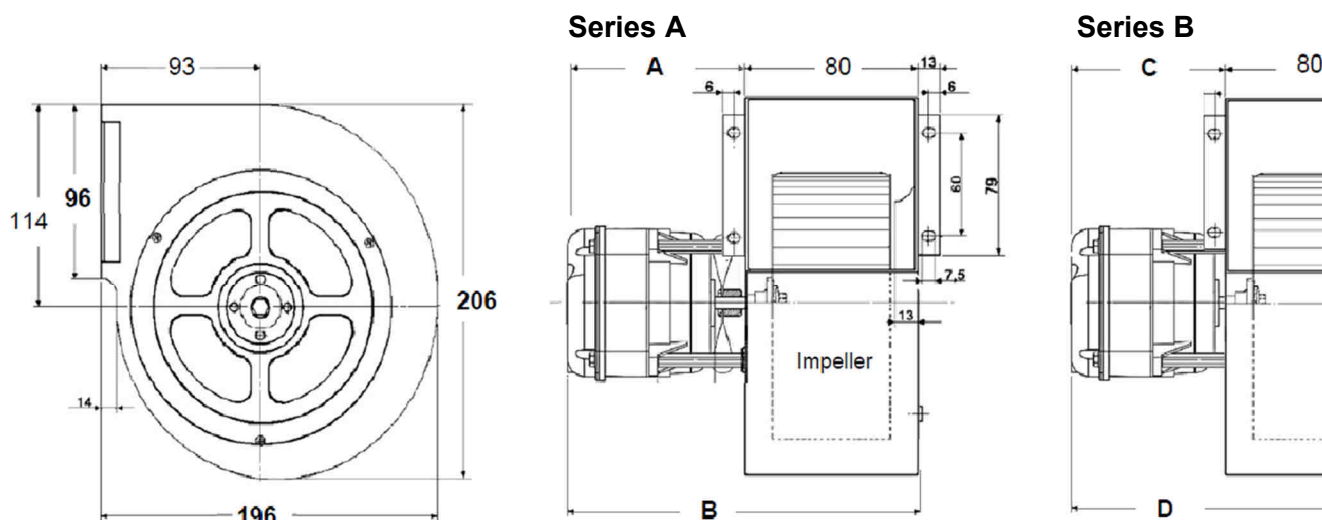
Serie OS-EC ; Variable speed by electrically isolated signal PWM or 0÷10Vdc

CODE	Label data					Dimensions						Impeller	
	rpm	A.	W.in Free air	W.in Max. Pa	Prot.	A	B	C	D	E	F	Ø	H
OSX108B15EC5.	3100 ÷ 1900	0,3	7	30	Electr.	143	133	77	84	98	158	108	50
OSX120B21EC5.	2900 ÷ 1900	0,4	11	48		186	182	93	104	118	178	120	50
OSX133B21EC5.	2900 ÷ 1900	0,4	11	48		186	182	93	104	118	178	133	50

High temperature ECM exhaust blowers

Ø 145 mm

Serie OS ECM



Electronic Commutated Motor 230 V – 50/60Hz (on demand 100V-240V - 50/60Hz universal power supply)				
Operation mode	S1	IP protection	44 (on demand 55)	Standard of ref.
Mounting position	All	Marking	CE + (*)	EN 60335-1/A15 /2-24 /2-89 (*) Gas IIA
Motor bearing	Ball	Ambient temp.	-40°C ÷ +50°C	60034-1(REM) 60529(IP) 60079-15(*)
Motor protection	Electronically (1)	Max. intake air	+ 50°C(B)/+ 190°C(A)	(*) II 3G Ex nA IIA T6
Locked rotor protec.	Yes	Max *C. storage	-40°C ÷ +80°C	2006/42/CE(Mac.) 2014/35/UE(Low V.)
Insulation	B	Expect. life Ball Bear.	Over 60.000 h	2014/30/UE(EMC) 2015/863(RoHS3)

(1) Safety protection automatically reduces rpm if exceed W.in limit, reached min. rpm fan stop/restart 3 time and stop working after safe try time

Serie OS-EB ; 2 Speed (on demand different rpm)

CODE	Label data				Dimensions							Impeller	
	rpm	A.	W.in Free air	W.in Max. Pa	Prot.	A	B	C	D	E	Max intake air °C	Ø	H
OSX145B21EB5.	2700 / 2300	0,5	18	51	Electr.	118	198				+190	145	50
OSX145B21EB0.	2700 / 2300	0,5	18	51				98	178		+50	145	50

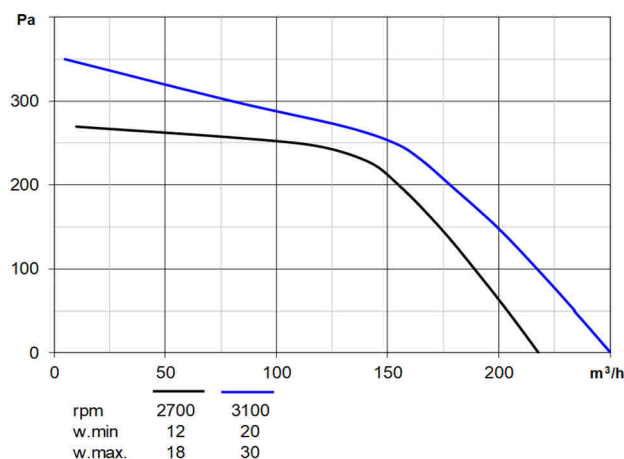
Serie OS-EC ; Variable speed by electrically isolated signal PWM or 0÷10Vdc

CODE	Label data				Dimensions							Impeller	
	rpm	A.	W.in	W.in	Prot.	A	B	C	D	E	Max intake air °C	Ø	H
			Free air	Max. Pa									
OSX145B21EC5.	2700 ÷ 1700	0,5	18	51	Electr.	118	198				+190	145	50
OSX145B21EC0.	2700 ÷ 1700	0,5	18	51				98	178		+50	145	50

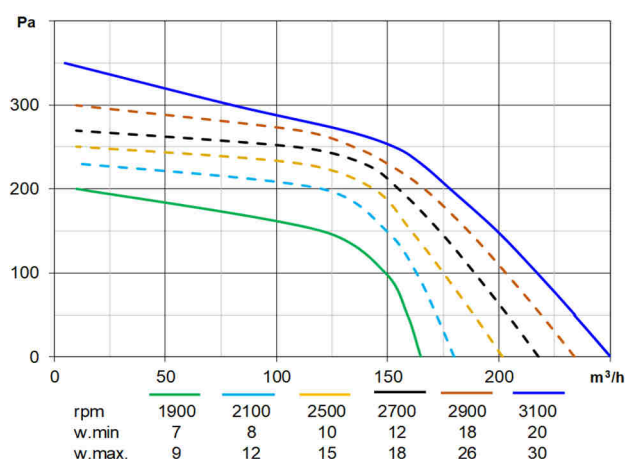
Performances curves

Centrifugal OS ECM $\varnothing 108 \div 133\text{mm}$ blowers

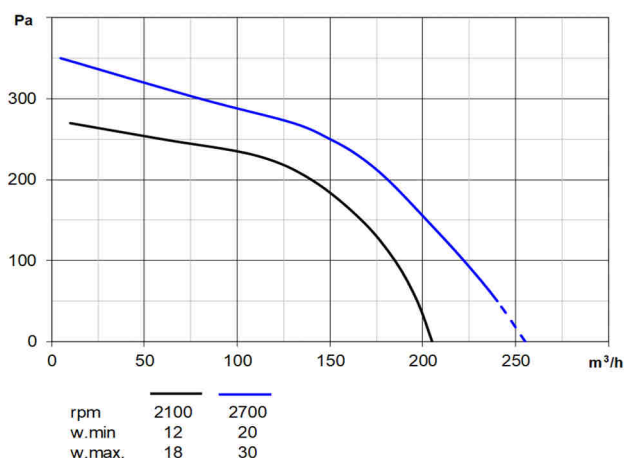
OSX(D)108B.15EB.. 3100/2700rpm



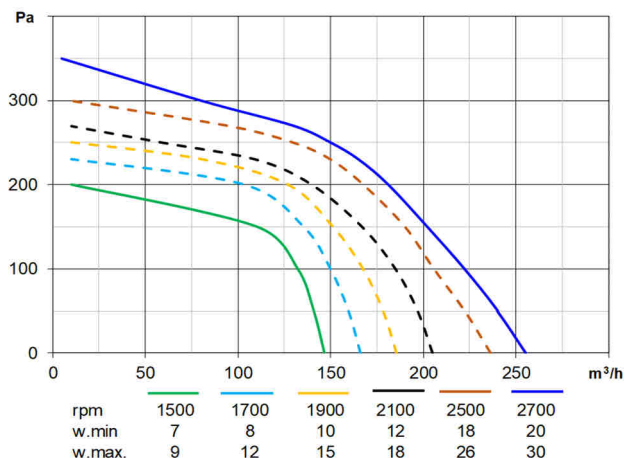
OSX(D)108B.15EC.. 3100÷1900rpm



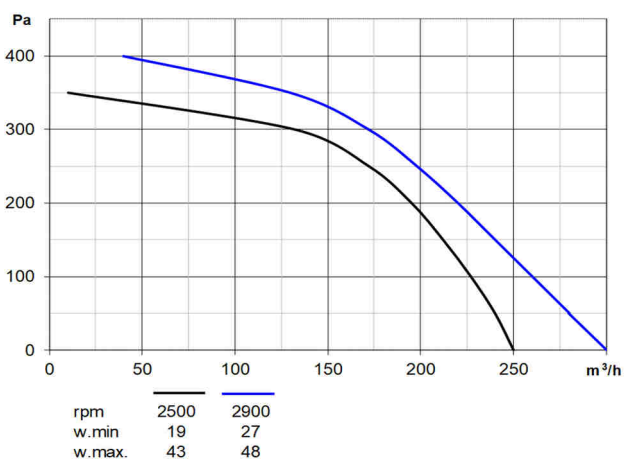
OSX(D)120B.15EB.. 2700/2100rpm



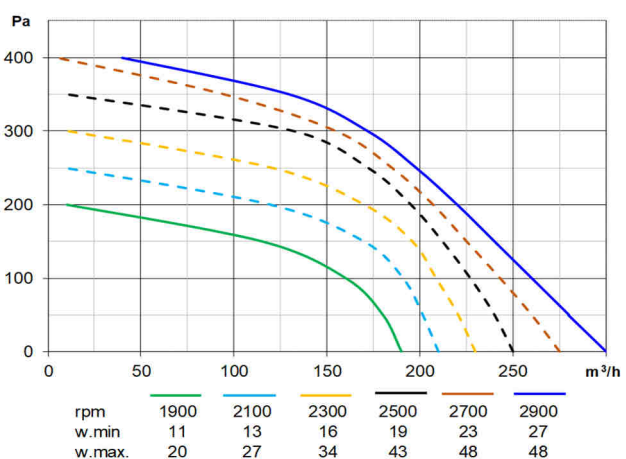
OSX(D)120B.15EC.. 2700÷1500rpm



OSX(D)133B.21EB.. 2900/2500rpm



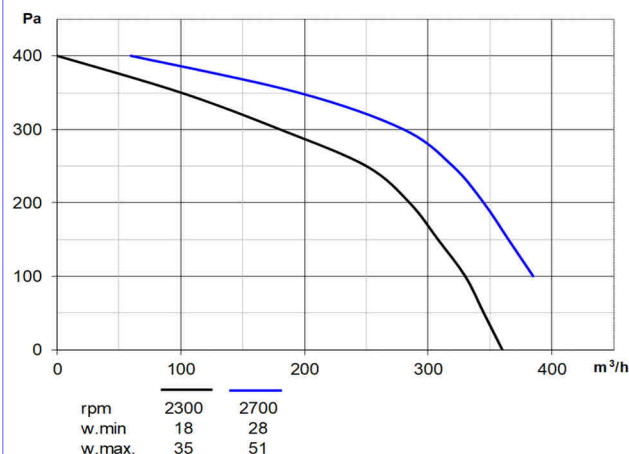
OSX(D)133B.21EC.. 2900÷1900rpm



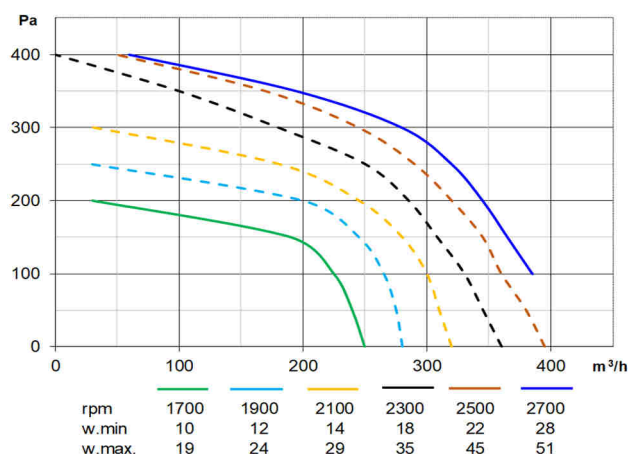
Performances curves

Centrifugal OSX & OS ECM Ø145mm blowers

OSX(D)145B.21EB.. 2700/2300rpm

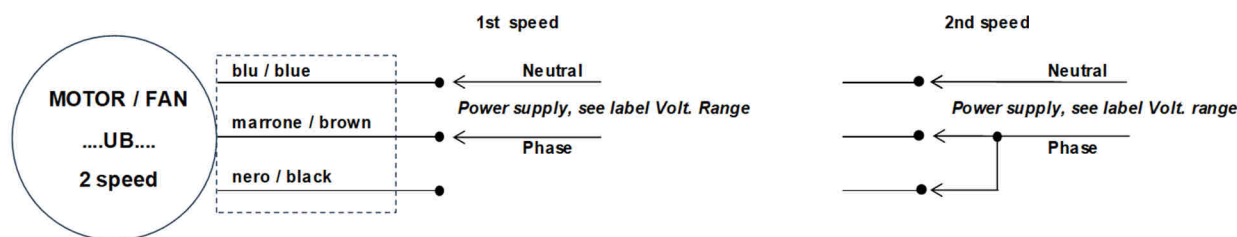


OSX(D)145B.21EC.. 2700÷1700rpm



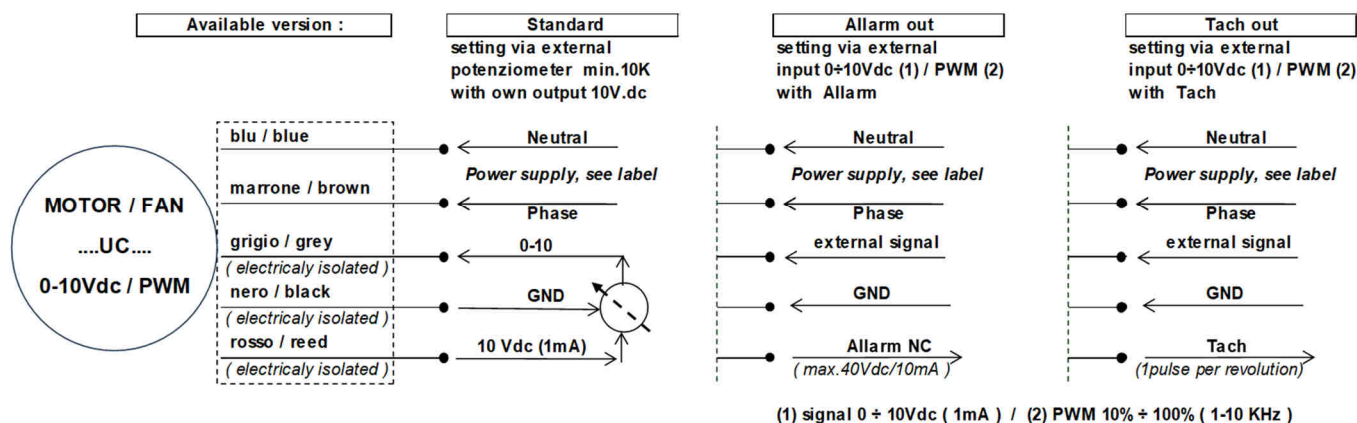
Serie EB 2 speed

connection



Serie EC variable speed

connection



ECM Centrifugal Fan Blowers **FAD145x196-220-240 with motor 15-21W**



..EB.. = 2 speeds – 1200 / 1000 rpm

..EC.. = variable speed 1500÷400 rpm by external signal
PWM or 0-10Vdc electrically isolated



MA-VIB SpA

Via Castel Rozzone, 15 - 24050 Lurano (BG) – ITALY

Tel. +39.029547403 – Fax +39.029549825

Internet Web Site: www.mavib.com

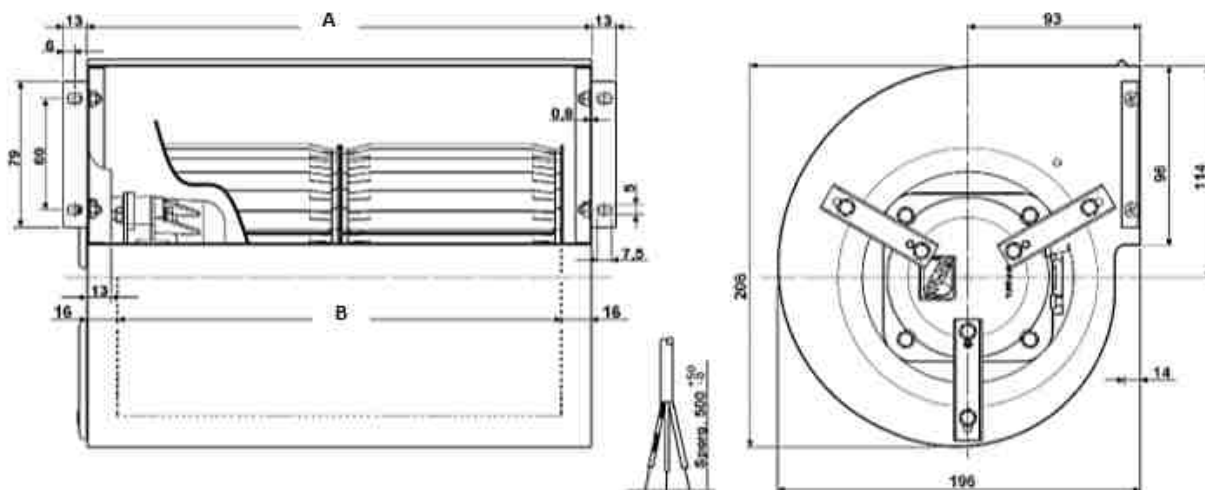
Sales Office: Italy = ita@mavib.com Export = expo@mavib.com



Single ECM fan-deck blowers

Ø 145 mm

Serie FAN-COIL ECM



Electronic Commutated Motor 15 / 21 - 230 V – 50/60Hz (on demand 100V-240V - 50/60Hz universal power supply)

Operation mode	S1	IP protection	44 (on demand 55)	Standard of ref.
Mounting position	All	Marking	CE + (*)	EN 60335-1/A15 /2-24 /2-89 (*) Gas IIA
Motor bearing	Ball	Ambient temp.	-40°C ÷ +50°C	60034-1(REM) 60529(IP) 60079-15(*)
Motor protection	Electronically (1)	Max. intake air	+ 50°C	(*) II 3G Ex nA IIA T6
Locked rotor protec.	Yes	Max *C. storage	-40°C ÷ +80°C	2006/42/CE(Mac.) 2014/35/UE(Low V.)
Insulation	B	Expect. life Ball Bear.	Over 60.000 h	2014/30/UE(EMC) 2015/863(RoHS3)

(1) Safety protection automatically reduces rpm if exceed W.in limit, reached min. rpm fan stop/restart 3 time and stop working after safe try time

Serie EB ; 2 Speed (on demand different rpm)

CODE	Note Speed	Label data					Dimensions					Impeller	
		rpm	A.	W.in Free air	W.in Max . Pa	Prot.	A	B	C	D	E	Ø	H
FAS145M21EB...	(1)	2000 / 1600	0,5	26	55	Electr.	208	176				145	176
FAS145N21EB...	(1)	1800 / 1400	0,5	18	60		228	196				145	196
FAS145Q21EB...	(1)	1600 / 1200	0,5	10	65		272	240				145	240
FAS145N15EB...	(2)	1200 / 1000	0,3	8	37		228	196				145	196
FAS145P15EB...	(2)	1200 / 1000	0,3	6	37		252	220				145	220
FAS145Q15EB...	(2)	1200 / 1000	0,4	6	38		272	240				145	240

Serie EC ; Variable speed by electrically isolated signal PWM or 0÷10Vdc

CODE	Note Speed	Label data					Dimensions					Impeller	
		rpm	A.	W.in Free air	W.in Max . Pa	Prot.	A	B	C	D	E	Ø	H
FAS145M21EC...	(1)	2000 ÷ 800	0,5	26	55	Electr.	208	176				145	176
FAS145N21EC...	(1)	1800 ÷ 600	0,5	18	60		228	196				145	196
FAS145Q21EC...	(1)	1600 ÷ 400	0,5	10	65		272	240				145	240
FAS145N15EC...	(2)	1200 ÷ 400	0,3	8	37		228	196				145	196
FAS145P15EC...	(2)	1200 ÷ 400	0,3	6	37		252	220				145	220
FAS145Q15EC...	(2)	1200 ÷ 400	0,4	6	38		272	240				145	240

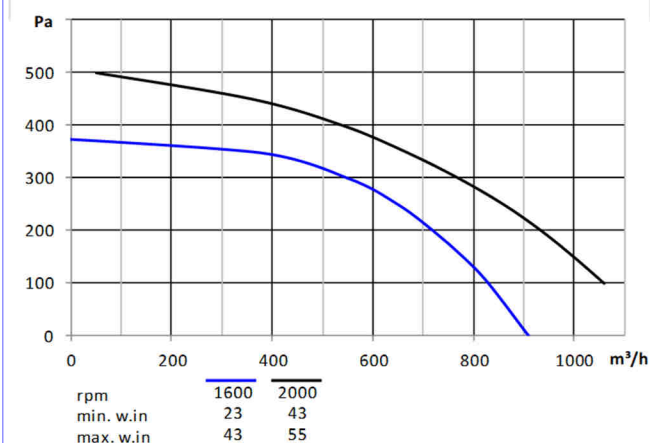
(1) Speed increasing from label rpm in function of Pa increasing until (2)

(2) Safety protection automatically reduces rpm if exceed W.in limit, reached min. rpm fan stop/restart 3 time and stop working after safe try time

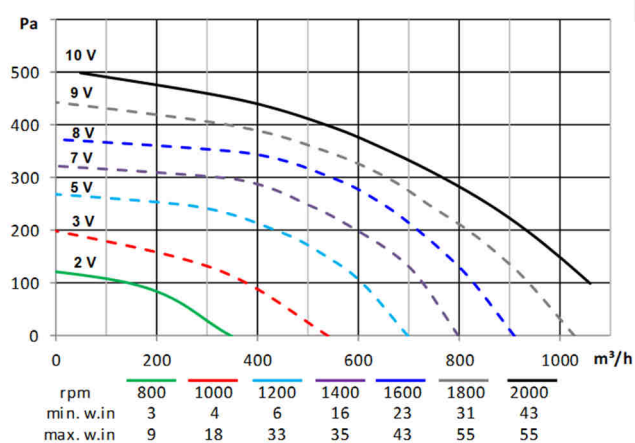
Performances curves

Single ECM fan-deck Ø 145mm blowers

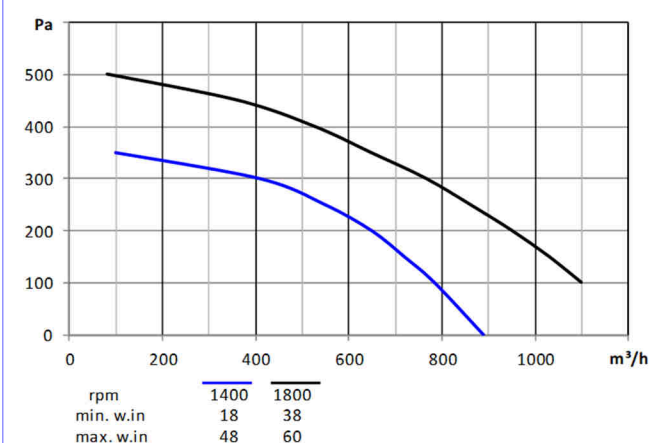
FAS145M.21EB.. 2000 / 1600rpm



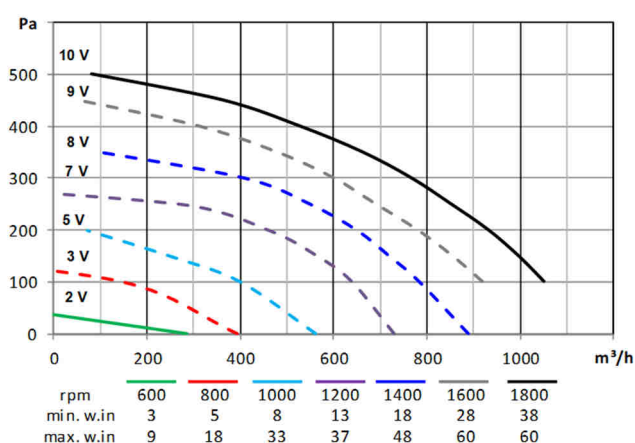
FAS145M.21EC.. 2000 ÷ 800rpm



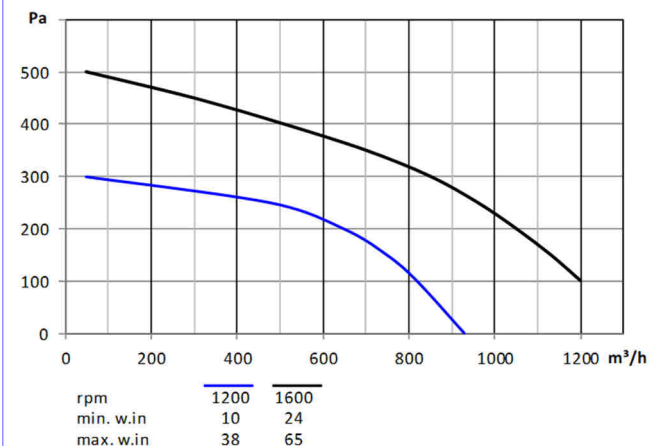
FAS145N.21EB.. 1800 / 1400rpm



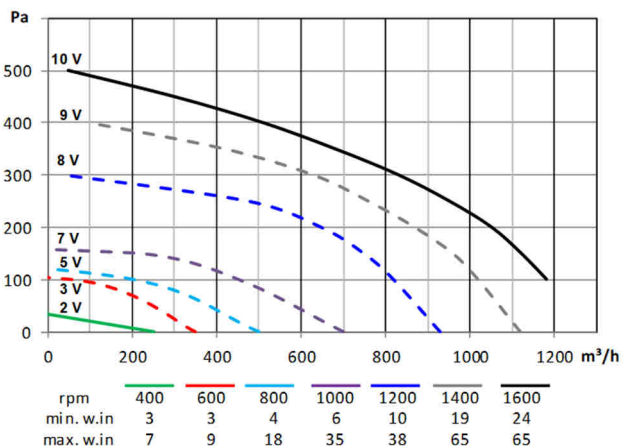
FAS145N.21EC.. 1800 ÷ 600rpm



FAS145Q.21EB.. 1600 / 1200rpm



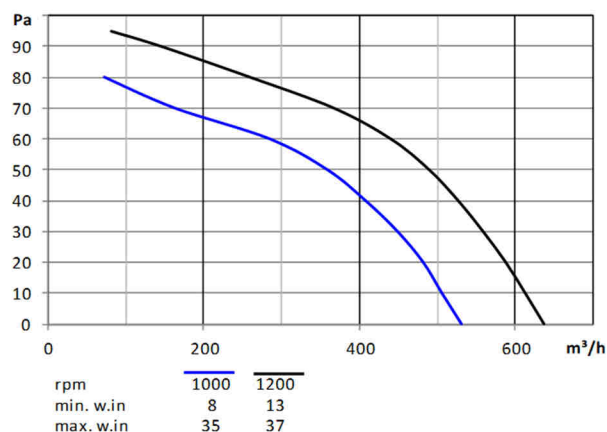
FAS145Q.21EC.. 1600 ÷ 400rpm



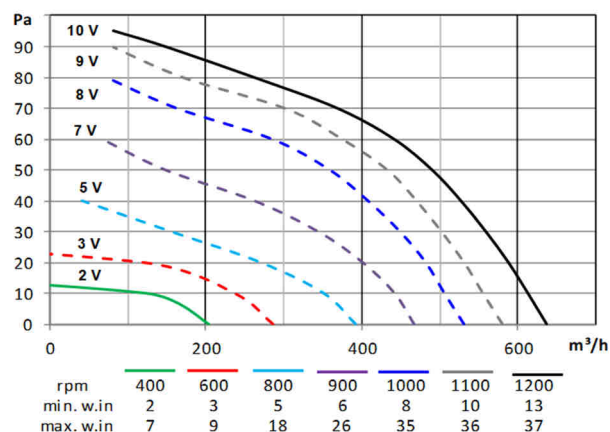
Performances curves

Single ECM fan-deck Ø 145mm blowers

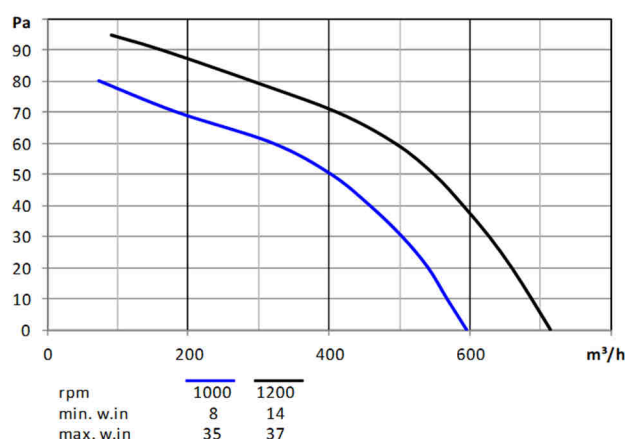
FAS145N.15EB.. 1200 / 1000rpm



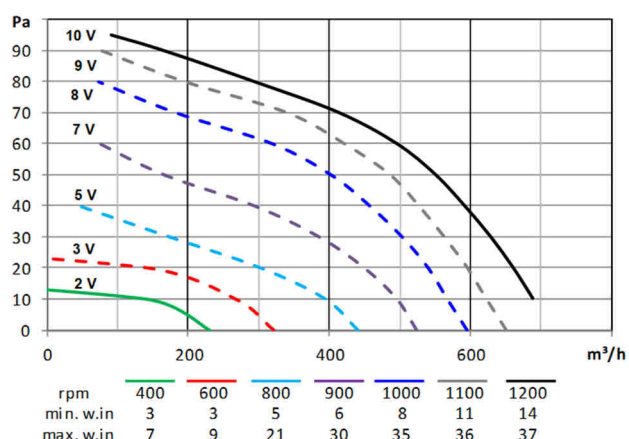
FAS145N.15EC.. 1200 ÷ 400rpm



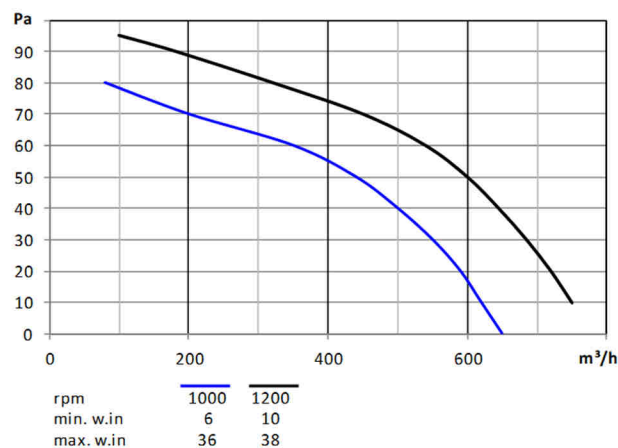
FAS145P.15EB.. 1200 / 1000rpm



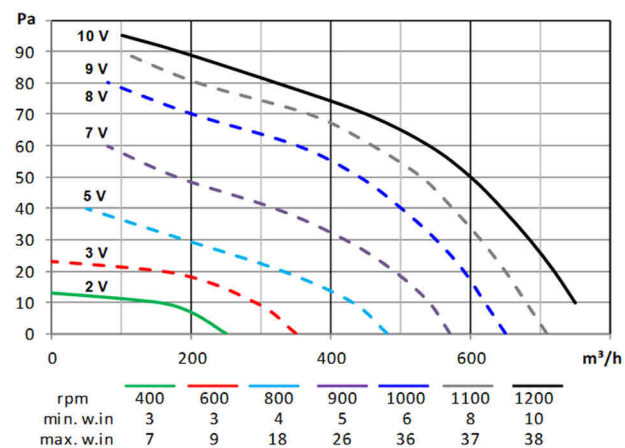
FAS145P.15EC.. 1200 ÷ 400rpm



FAS145Q.15EB.. 1200 / 1000rpm



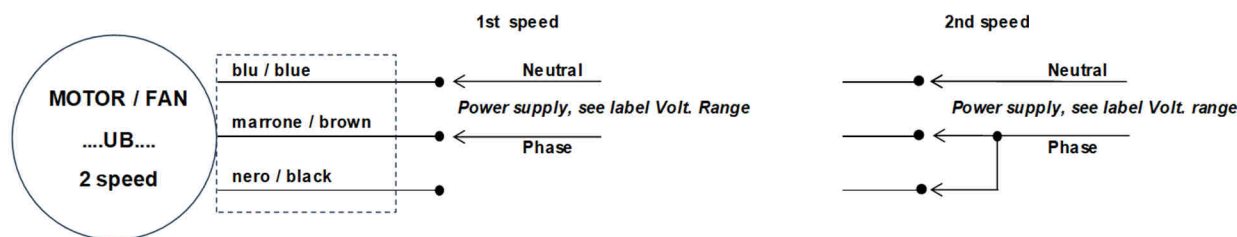
FAS145Q.15EC.. 1200 ÷ 400rpm



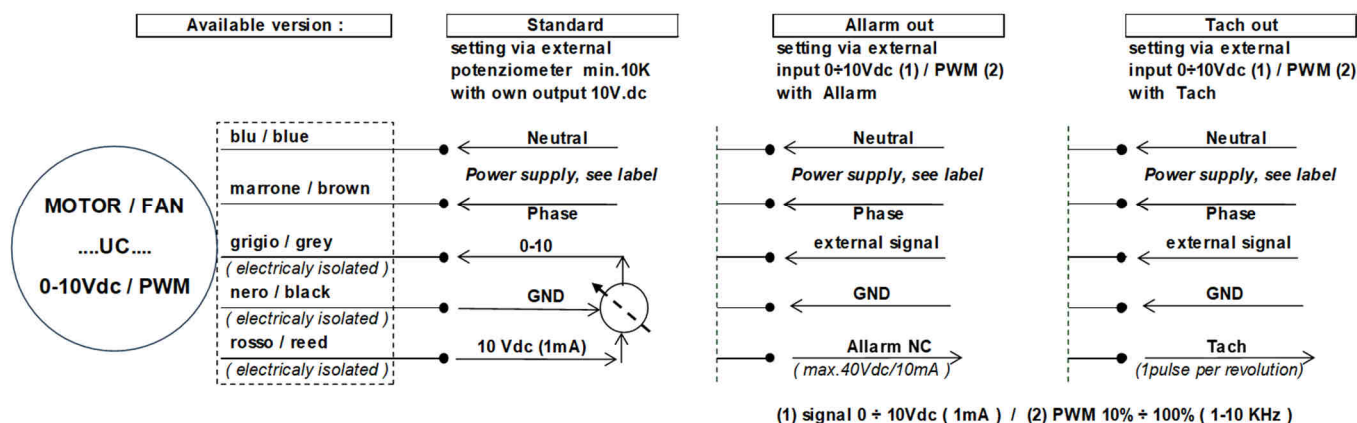
Electric connetion & accessories

Centrifugal fan-deck ECM Ø 145mm blowers

Serie EB.. 2 speed



Serie EC.. Variable speed



Multi assembling

