

Specifiche costruttive

Convogliatore circolare ad anello ad ampio raggio, è realizzabile in quattro diversi materiali: **in acciaio al carbonio, in acciaio INOX AISI 304 e 316 ed in alluminio.**

La rete antinfortunistica, lato motore e lato girante, è in acciaio al carbonio o acciaio INOX AISI 304, ed è costruita nel rispetto delle norme vigenti UNI EN ISO 12499.

Le giranti, ad alto rendimento e a profilo alare, sono in materiale plastico (polipropilene o nylon vetro) o in alluminio. L'equilibratura viene eseguita secondo le norme vigenti UNI ISO 1940.

In esecuzione standard, il motore elettrico fornito presenta protezione IP 55, isolamento CL F, rendimento EFF2, servizio S 1, tropicalizzati, tutti costruiti secondo le norme vigenti IEC / EEC (UNELMEC).

Con i suddetti motori, sono disponibili le esecuzioni 4 e 5.

Construction specifications

*Large-scale round ring-shaped conveyor is available **in carbon steel, stainless steel AISI 304 and 316 and aluminium.***

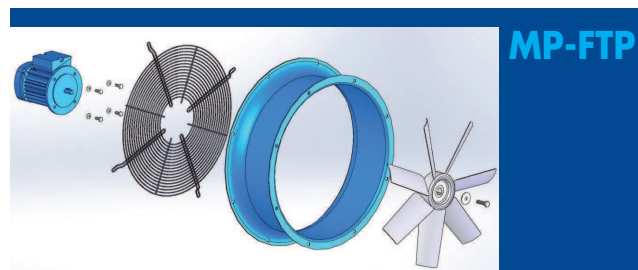
Protection net, motor and impeller side, is made of carbon steel or stainless steel AISI 304, it's built according to UNI EN ISO 12499.

High efficiency and iron profile impellers are made of plastic (polypropylene, glass filled nylon) or aluminium.

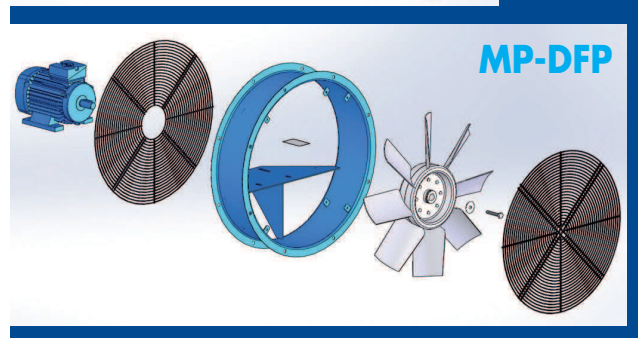
Balance's done according to UNI ISO 1940 regulation.

For standard execution the electromotor has IP 55 protection, CL F insulation, EFF2 efficiency, S 1 service, tropicalized, each one built according to IEC / EEC (UNELMEC) laws.

Executions 4 and 5 are available with motors above said.



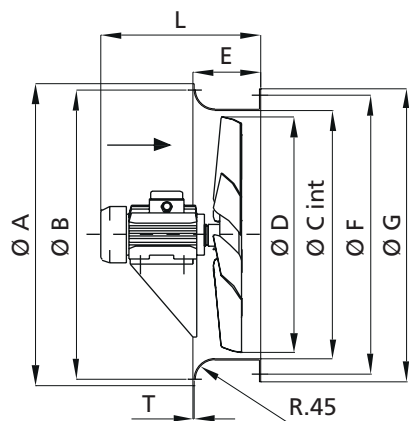
MP-FTP



MP-DFP

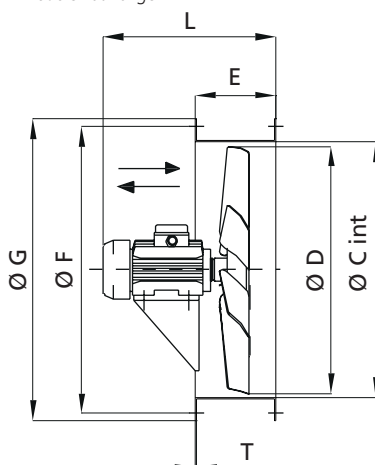
MP - FTP

Flangia tonda lato motore - Flangia piana lato girante
Round flange on motor size - Flat flange on fan wheel size



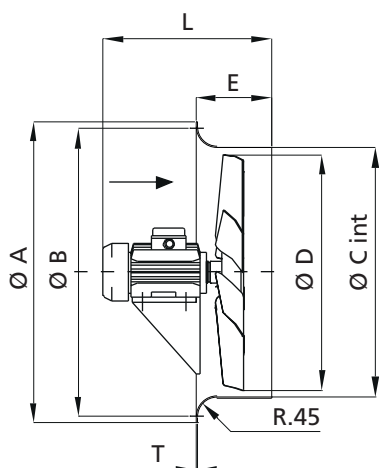
MP - DFP

Doppia flangia piana
Double flat flange



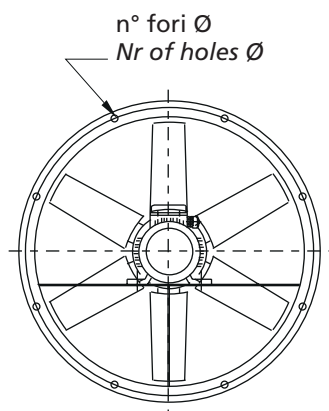
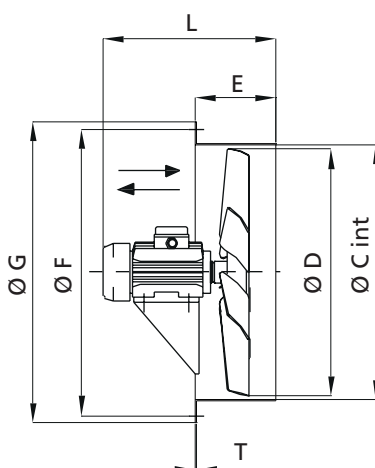
MP - FTM

Flangia tonda lato motore
Round flange on motor size



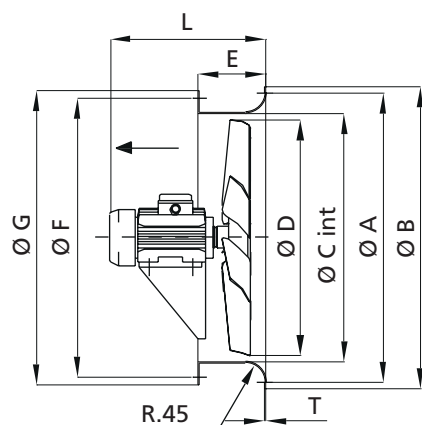
MP - FPM

Flangia piana lato motore
Flat flange on motor size



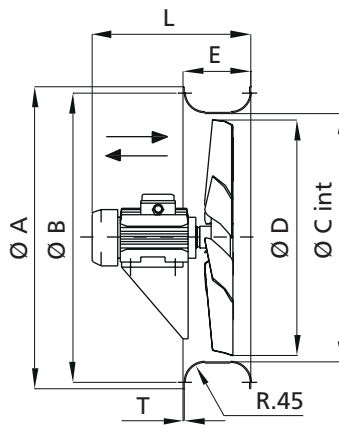
MP - FPT

Flangia piana lato motore - Flangia tonda lato girante
Flat flange on motor size - Round flange on fan wheel size

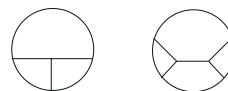


MP - DFT

Doppia flangia tonda
Double round flange



Sella motore
Saddle types



Modello Type	Dimensioni Dimensions												Peso Weight
	Motore Motor	A	B	C	D	E	F	G	L	T	n°	Ø	
MP 300	63	390	370	315	305	150	348	378	380	1,5	6	11	8
	71	390	370	315	305	150	348	378	400	1,5	6	11	10
MP 350	63	465	430	360	350	150	400	423	380	1,5	6	11	6
	80	465	430	360	350	150	400	423	430	1,5	6	11	10
MP 400	63	507	480	410	400	150	448	473	390	1,5	6	11	11
	71	507	480	410	400	150	448	473	400	1,5	6	11	11
	80	507	480	410	400	150	448	473	430	1,5	6	11	26
	90	507	480	410	400	150	448	473	460	1,5	6	11	10
MP 450	71	557	530	460	450	150	495	523	400	1,5	6	11	12
	80	557	530	460	450	150	495	523	430	1,5	6	11	17
	100	557	530	460	450	150	495	523	520	1,5	6	11	28
MP 500	71	617	590	510	500	150	545	573	410	1,5	8	11	18
	80	617	590	510	500	150	545	573	430	1,5	8	11	22
	112	617	590	510	500	150	545	573	550	1,5	8	11	58
MP 560	80	665	640	570	560	150	605	633	430	1,5	8	11	22
	90	665	640	570	560	150	605	633	510	1,5	8	11	22
	132	665	640	570	560	150	605	633	630	1,5	8	11	62
MP 630	80	745	720	640	630	180	675	704	490	2	8	11	24
	90	745	720	640	630	180	675	704	530	2	8	11	32
	100	745	720	640	630	180	675	704	580	2	8	11	39
	132	745	720	640	630	180	675	704	650	2	8	11	77
MP 710	90	816	780	710	700	200	745	774	530	2	12	14	48
	100	816	780	710	700	200	745	774	560	2	12	14	52
	112	816	780	710	700	200	745	774	580	2	12	14	57
MP 800	90	915	880	810	800	200	855	884	530	2	12	14	51
	100	915	880	810	800	200	855	884	580	2	12	14	56
	112	915	880	810	800	200	855	884	580	2	12	14	66
	132	915	880	810	800	200	855	884	680	2	12	14	80
MP 900	90	1015	980	910	900	250	955	1004	600	3	16	14	76
	100	1015	980	910	900	250	955	1004	620	3	16	14	76
	112	1015	980	910	900	250	955	1004	630	3	16	14	96
	132	1015	980	910	900	250	955	1004	730	3	16	14	96
	160	1015	980	910	900	250	955	1004	780	3	16	14	145
MP 1000	100	1120	1090	1010	1000	250	1070	1104	620	3	16	14	70
	112	1120	1090	1010	1000	250	1070	1104	630	3	16	14	95
	132	1120	1090	1010	1000	250	1070	1104	730	3	16	14	130
	160	1120	1090	1010	1000	250	1070	1104	780	3	16	14	160
MP 1120	132	1255	1220	1130	1120	300	1185	1240	730	3	20	16	130
	160	1255	1220	1130	1120	300	1185	1240	830	3	20	16	190
	180	1255	1220	1130	1120	300	1185	1240	880	3	20	16	265
MP 1250	132	1370	1335	1260	1238	300	1320	1370	800	3	20	16	142
	160	1370	1335	1260	1238	300	1320	1370	880	3	20	16	212
MP 1400	180	1516	1480	1407	1380	400	1465	1520	880	3	20	16	283
	200	1516	1480	1407	1380	400	1465	1520	980	3	20	16	349
	250	1516	1480	1407	1380	400	1465	1520	1130	3	20	16	507

					Portata <i>Airflow</i> m3/h											Pressione statica <i>Static pressure</i> HS [Pa]
Modello <i>Type</i>	Motore <i>Motor</i>			dB(A)	10	50	100	150	200	300	400	500	600	700	800	
	rpm	kW	Size													
312A	2800	0,55	71	71	4400	4250	4000	3750	3350	2700						
314A	1400	0,12	63	58	2700	2000										
352A	2800	1,1	80	74	5750	5600	5440	5250	5000	4500	3740					
354A	1400	0,12	63	60	3100	2600										
354B	1400	0,18	63	60	3700	3100	2200									
402A	2800	1,1	80	75	7320	7200	7000	6750	6540	6000	5300	4100				
402B	2800	2,2	90	82	9950	9780	9500	9150	8800	8140	7500	6200				
404A	1400	0,25	71	64	4900	4300	3600									
404B	1400	0,37	71	63	6100	5280	4500									
406A	900	0,12	63	58	3800											
452A	2900	3	100	82	13500	13000	12700	12250	11800	10750	9600	8150				
454A	1400	0,37	71	64	6700	6150	5300									
454B	1400	0,55	80	69	8350	7550	6600									
456A	900	0,18	71	61	5300	4100										
502A	2900	4	112	86	16300	16000	15800	15100	14650	14000	13000	11700	10000	7500		
504A	1400	0,55	80	69	9400	8300	7000									
504B	1400	0,75	80	71	10000	9200	8140	6800								
506A	900	0,25	71	62	7200	5750										
562A	2900	5,5	132	84	22000	21500	21000	20400	20000	18800	17800	16400	15000	13000	10000	
564A	1400	0,75	80	64	11400	10400	9450	7800								
564B	1400	1,1	90	69	14500	13400	12100	10700								
566A	900	0,37	80	60	9900	8200										
568A	700	0,18	80	60	7250	5250										
632A	2900	7,5	132	89	28100	27500	27000	26200	26000	24800	23000	21400	20000	17600	15100	
634A	1400	1,1	90	69	16300	15000	13000	10400	5100							
634B	1400	1,5	90	74	17000	16000	14800	13000	10400							
634C	1400	2,2	100	76	18700	17800	16600	15300	13600							
636A	900	0,37	80	64	10200	9000	6000									
636B	900	0,75	90	69	12600	11200	8800									
638A	700	0,18	80	58	9000	6100										
714A	1400	2,2	100	75	25100	23700	22300	20000	17700							
714B	1400	3	100	79	26500	25100	23700	22600	21300	16300						
714C	1400	4	112	83	30500	29100	28000	27100	25000	20000						
716A	900	0,75	90	69	16300	14000	10000									
716B	900	1,1	90	73	19900	17800	15000									
718A	700	0,37	90	65	12900	9600										
804A	1400	3	100	79	29100	27800	27000	25000	23200	19000	12400					
804B	1400	4	112	81	33800	32500	31300	30000	27800	22800	13600					
804C	1400	5,5	132	84	38200	37200	36000	34000	32600	28200	23300					
804D	1400	7,5	132	80	43100	42000	40000	38600	37500	32500	26000					
806A	900	1,1	90	68	21500	18800	16200	8300								
806B	900	1,5	100	72	24400	22500	20000	16200								
808A	700	0,55	90	64	17500	14400										
808B	700	0,75	100	67	21100	17600										

				Portata <i>Airflow</i> m3/h												Pressione statica <i>Static pressure</i> HS [Pa]	
Modello <i>Type</i>	Motore <i>Motor</i>			dB(A)	10	50	100	150	200	300	400	500	600	700	800		
	rpm	kW	Size														
904A	1400	4	112	83	39700	37500	36200	34000	32200	26100	17500	12500					
904B	1400	5,5	132	83	45000	44000	42400	40000	37500	32200	22000	16300					
904C	1400	11	160	86	52000	51300	50000	48800	47500	44000	39000	32500	25000				
906A	900	1,1	90	74	25400	22500	19000	12500	7800								
906B	900	2,2	112	73	31000	28000	27000	24000	18800								
906C	900	4	132	79	37800	35000	32500	30000	25000								
908A	700	0,75	100	66	23000	18800	11000										
908B	700	1,1	100	69	25100	22500	17500										
1004A	1400	5,5	132	81	45500	44200	42500	41000	37800	32500	23000	16600	11300				
1004B	1400	7,5	132	84	54100	52300	50000	47800	42600	40000	30000	21000	15000				
1004C	1400	11	160	86	63200	61000	60000	58300	56000	51800	46000	35000	25000				
1006A	900	2,2	112	75	38300	35000	31400	26300	16200								
1006B	900	3	132	76	43000	40000	36200	31200	20000								
1006C	900	5,5	132	80	49300	47500	45000	41200	37000								
1008A	700	1,1	100	72	30000	26000	18800										
1008B	700	2,2	132	74	36300	32500	27300										
1124A	1400	11	160	86	63600	62000	60000	58700	57000	53000	50000	45000	36200	27500			
1124B	1400	15	160	90	77600	75000	73300	72000	70000	65200	61000	55500	50000	37500			
1124C	1400	22	180	91	90000	88500	87000	84300	83000	78000	75000	67800	61000	45000			
1126A	900	3	132	77	44800	42300	38100	35000	31000	15000							
1126B	900	4	132	80	47700	45000	42600	39800	35000	21000							
1126C	900	5,5	132	82	56100	53800	50000	47200	42600	27100							
1128A	700	2,2	132	76	39100	36000	32000	25000									
1128B	700	4	160	78	54400	50000	43400	35000									
1256A	700	5,5	132	81	63800	60000	55300	51500	46700	32500							
1256B	700	7,5	160	83	74000	70000	65000	61000	51000	42500							
1256C	700	11	160	86	80900	78000	75000	70000	65000	56100							
1258A	700	4	160	78	60300	55000	48800	40000									
1258B	700	5,5	160	76	68700	62000	55000	40000									
1406A	900	15	180	88	108000	105000	100000	96000	91000	80000	64000						
1406B	900	22	200	90	120000	115000	110000	106000	100000	90000	70000						
1406C	900	37	250	91	147000	144000	141000	138000	135000	128000	120000						
1408A	700	5,5	160	82	75500	70000	65000	58000	50000								
1408B	700	7,5	160	83	89000	83000	76000	70000	60000								
1408C	700	11	180	85	100000	94000	86000	78000	52000								

Esecuzioni su richiesta
fino a Ø 2000 mm

Competenza a tutto campo

The utmost competence

La **Pressione Totale** di un ventilatore è divisa in due parti: la **pressione dinamica**, che rappresenta la misura dell'energia cinetica all'uscita del ventilatore, la **pressione statica**, che rappresenta il lavoro svolto in compressione e pienamente disponibile, mentre solo una parte della pressione dinamica può essere utilizzata a causa delle perdite per conversione.

In caso di funzionamento del ventilatore a **bocca libera** la pressione statica sarà nulla corrispondente al punto finale della curva di prestazione con portata massima, condizione per cui:

$$P_t = P_d$$

In caso di funzionamento a **bocca chiusa** la pressione dinamica sarà nulla, condizione per cui:

$$P_t = P_s$$

La **Portata Volumica** di un fluido è il volume del fluido che passa nell'unità di tempo attraverso il ventilatore, sintetizzata dalla seguente formula:

$$Q = v \times A \times 3600 \text{ [m}^3/\text{h]}$$

dove:

v = velocità fluido [m/s]

A = area sezione condotto [m²]

La **Potenza Assorbita** rappresenta la misurazione effettuata all'asse della girante e sintetizzata dalla seguente formula:

$$\text{Pass.} = \frac{Q \times P_t \times 100}{E_f\%}$$

dove:

Q = Portata Volumica [m³/s]

P_t = Pressione Totale [Pa]

E_f = Efficienza Totale

Aria in Condizioni Standard:

Densità = 1.225 [kg/m³]

Temperatura = 15°C

P_{atm} = 1013 mBar al livello del mare

The fan **Total Pressure** is divided in two parts: the **dynamic pressure**, which is a measure of the kinetic energy at the fan outlet, the **static pressure**, which represents the work done in compression and fully available at the user, whereas only part of dynamic pressure can be utilized due to conversion losses.

In case of **free inlet** operation the static pressure will equal zero corresponding to the end point of the performance curve with maximum airflow, by this condition:

$$P_t = P_d$$

In case of **closed inlet** the dynamic pressure will equal zero, by this condition:

$$P_t = P_s$$

The **Volume Flow** of a fluid is the fluid volume which passes through the fan in the time unit, by this condition:

$$Q = v \times A \times 3600 \text{ [m}^3/\text{h]}$$

where:

v = fluid speed [m/s]

A = duct section area [m²]

The **Absorbed Power** represents the measurement made to the axis of the impeller, by this condition:

$$\text{Pass.} = \frac{Q \times P_t \times 100}{E_f\%}$$

where:

Q = Volume Flow [m³/s]

P_t = Total Pressure [Pa]

E_f = Total Efficiency

Air Standard Condition is defined as:

Density = 1.225 [kg/m³]

Temperature = 15°C

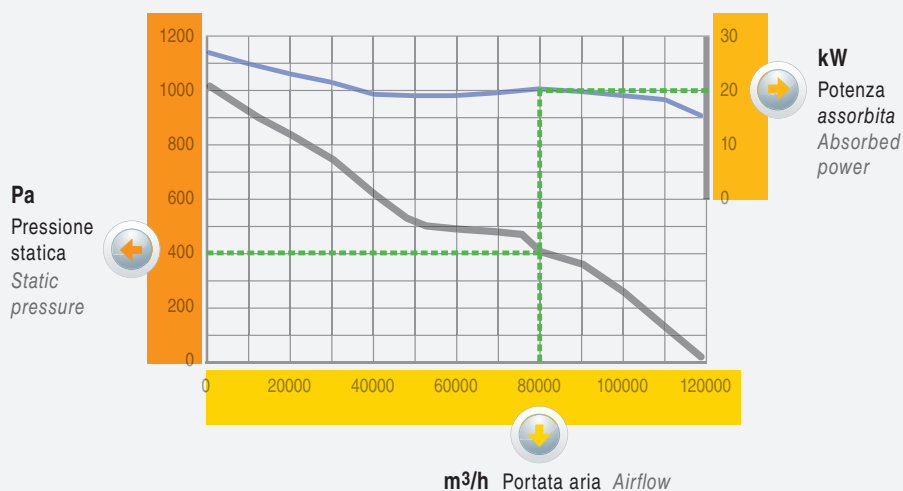
P_{atm} = 1013 mBar at sea level

esempio di lettura reading example

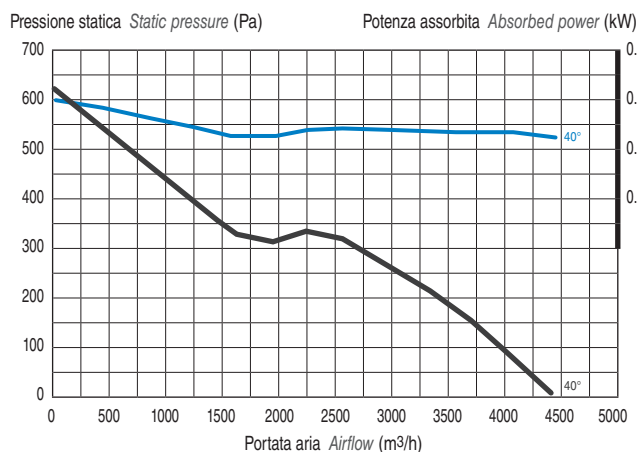
- Pressione statica *Static pressure*
H_{st} = 400 Pa

- Portata aria *Airflow*
Q = 80000 m³/h

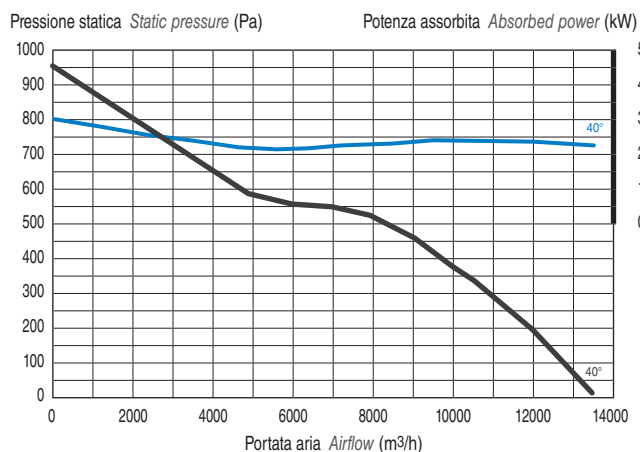
- Potenza assorbita *Absorbed power*
P = 20 kW



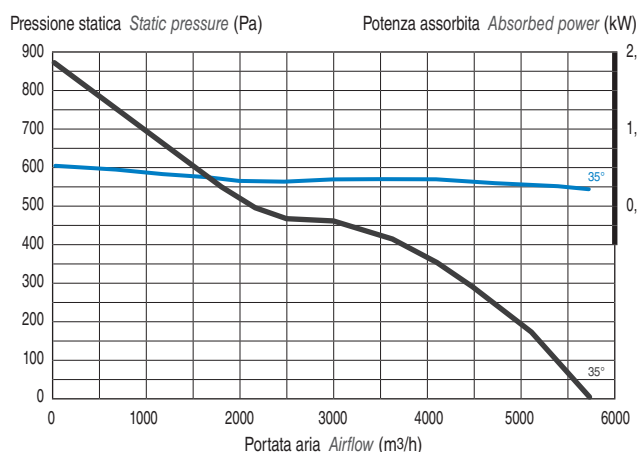
mod. 312/A • 0,55 kW Potenza installata Motor power



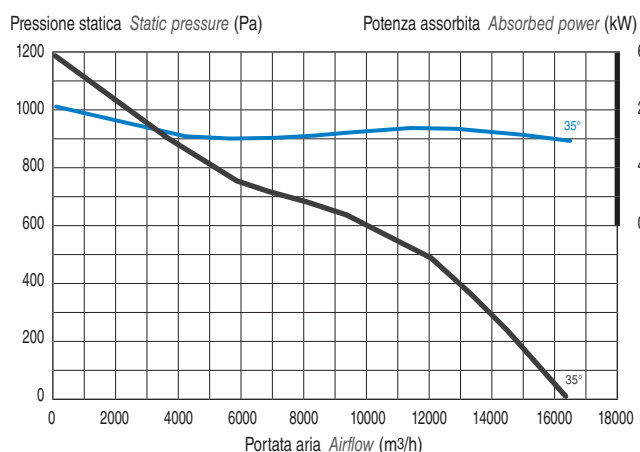
mod. 452/A • 3 kW Potenza installata Motor power



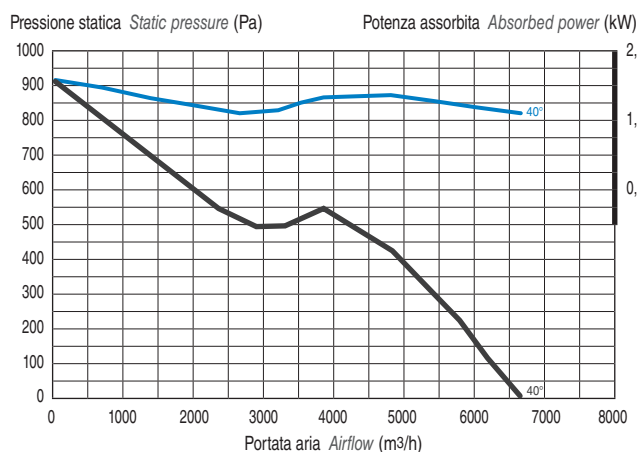
mod. 352/A • 1,1 kW Potenza installata Motor power



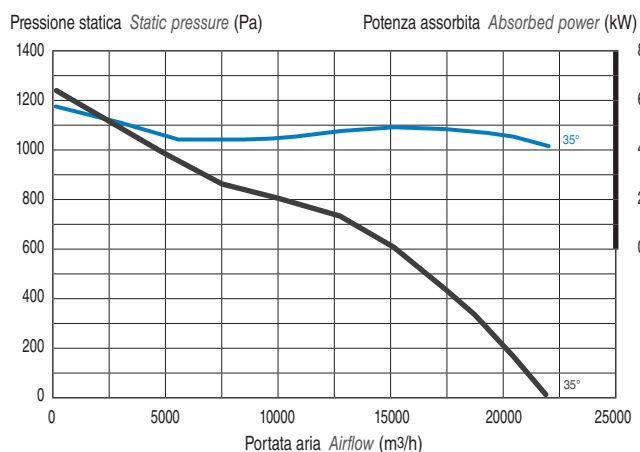
mod. 502/A • 4 kW Potenza installata Motor power



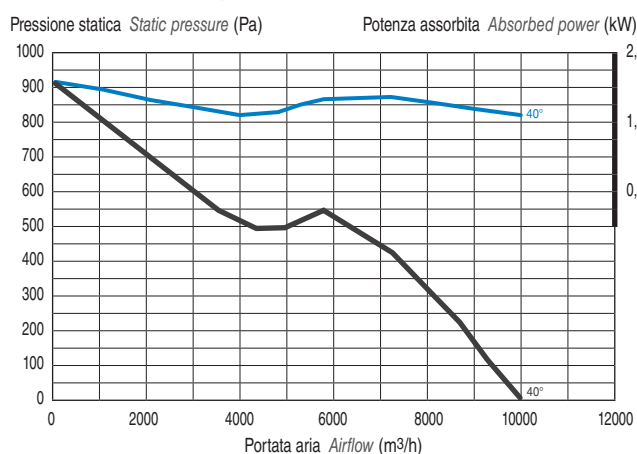
mod. 402/A • 1,1 kW Potenza installata Motor power



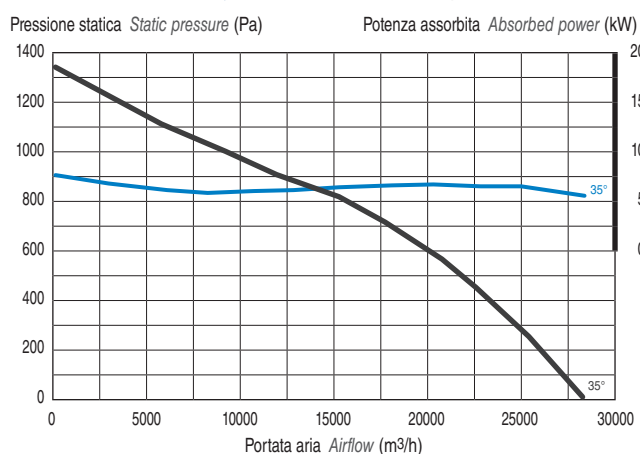
mod. 562/A • 5,5 kW Potenza installata Motor power



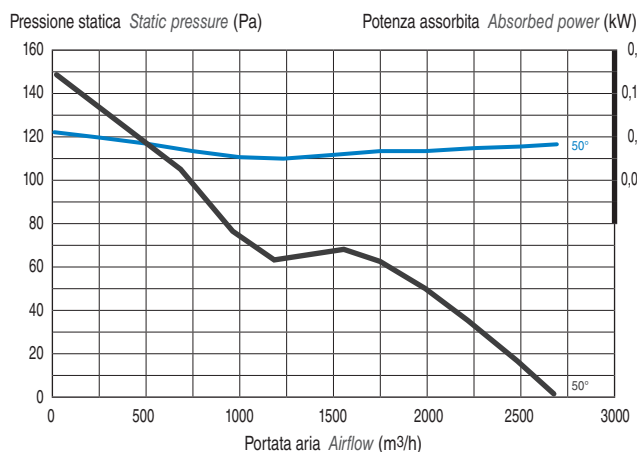
mod. 402/B • 2,2 kW Potenza installata Motor power



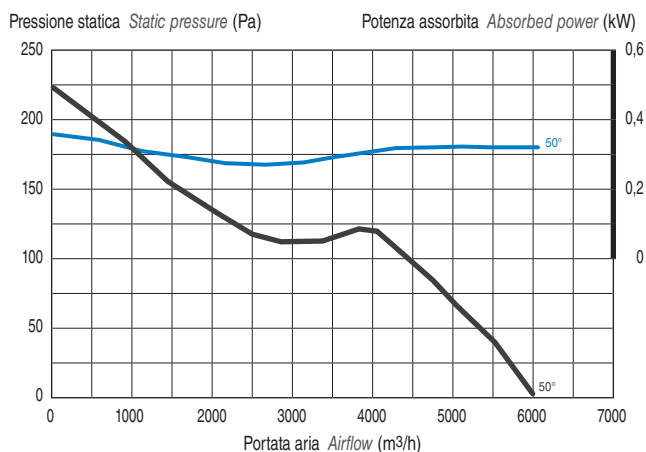
mod. 632/A • 7,5 kW Potenza installata Motor power



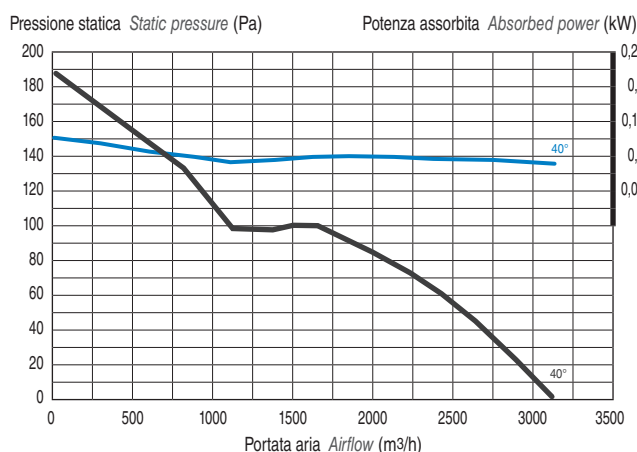
mod. 314/A • 0,12 kW Potenza installata Motor power



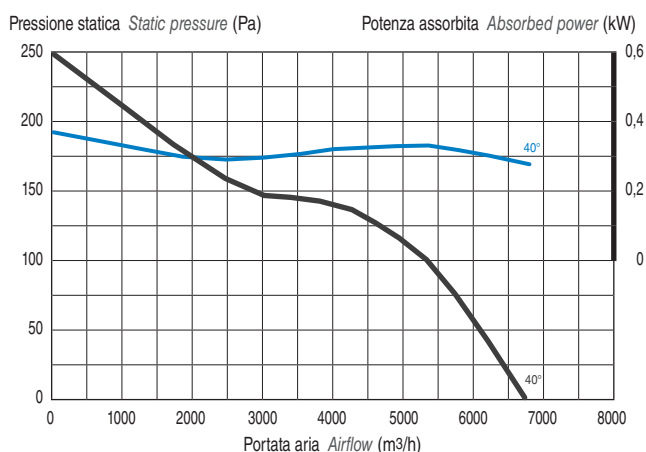
mod. 404/B • 0,37 kW Potenza installata Motor power



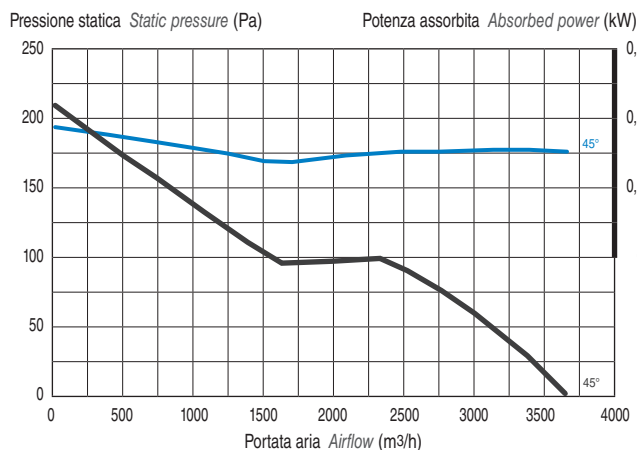
mod. 354/A • 0,12 kW Potenza installata Motor power



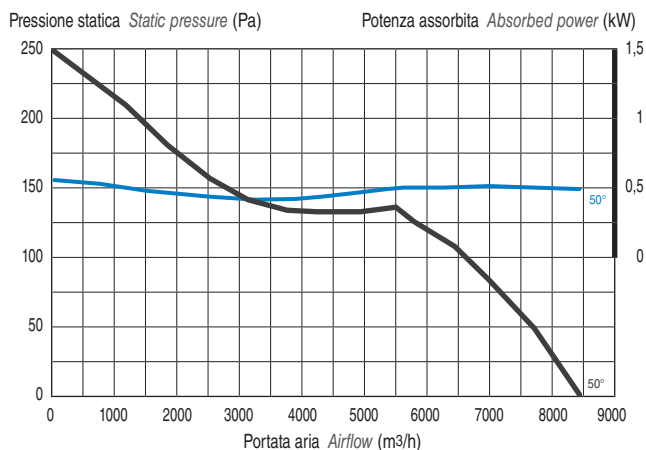
mod. 454/A • 0,37 kW Potenza installata Motor power



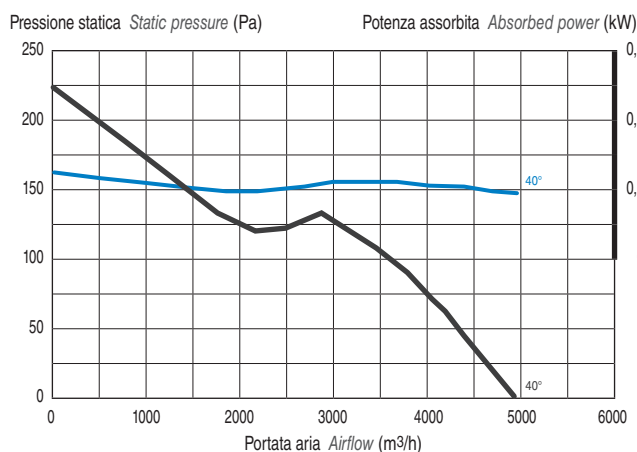
mod. 354/B • 0,12 kW Potenza installata Motor power



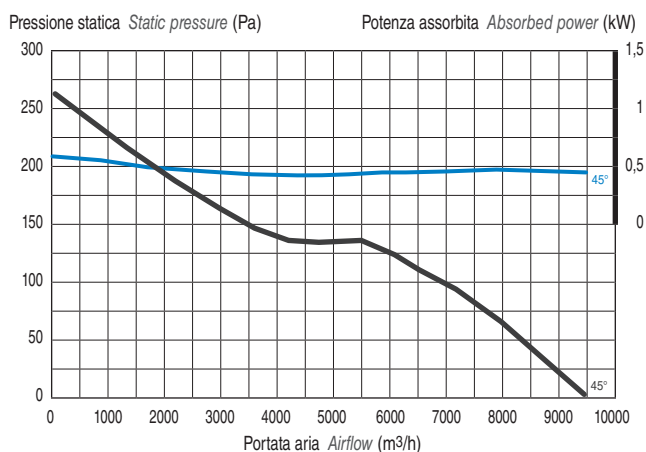
mod. 454/B • 0,55 kW Potenza installata Motor power



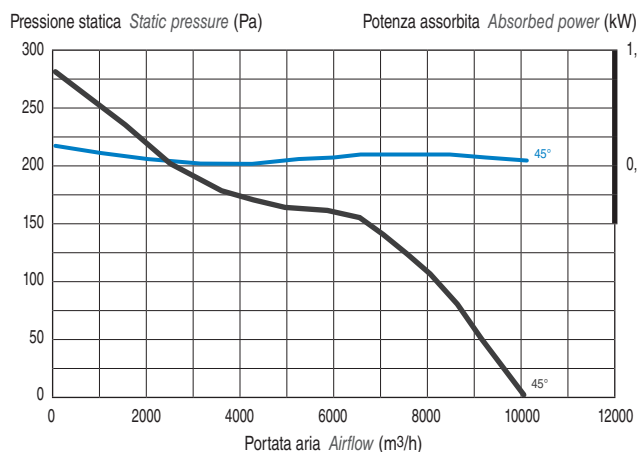
mod. 404/A • 0,25 kW Potenza installata Motor power



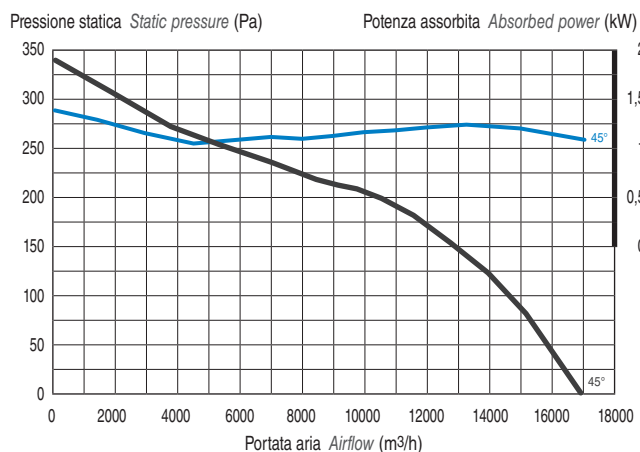
mod. 504/A • 0,55 kW Potenza installata Motor power



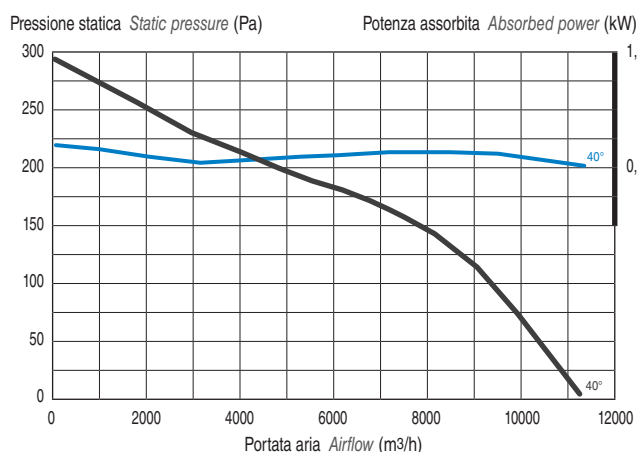
mod. 504/B • 0,75 kW Potenza installata Motor power



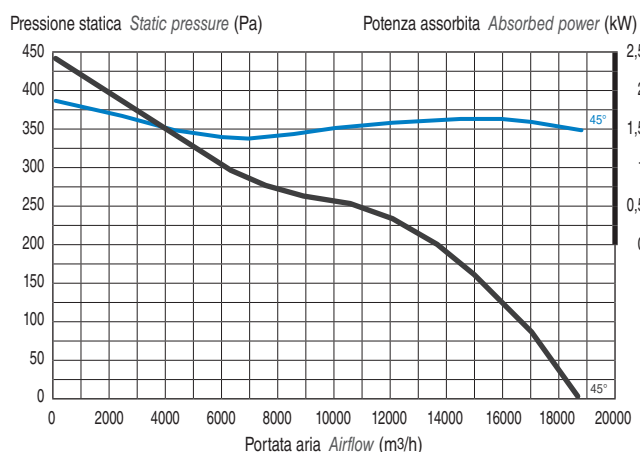
mod. 634/B • 1,5 kW Potenza installata Motor power



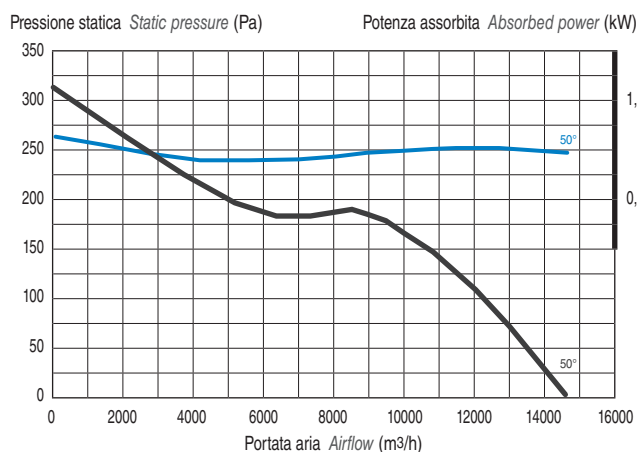
mod. 564/A • 0,75 kW Potenza installata Motor power



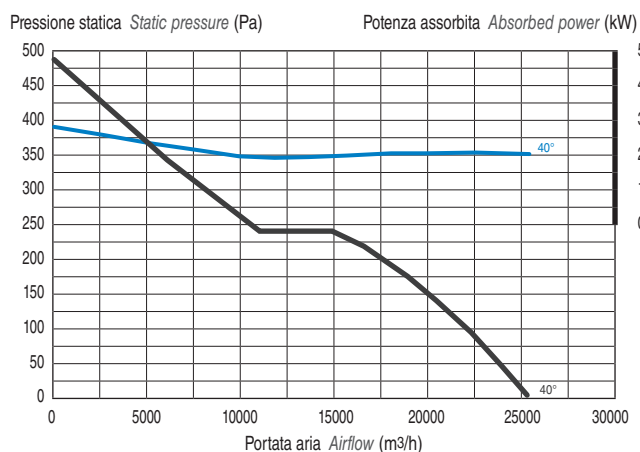
mod. 634/C • 2,2 kW Potenza installata Motor power



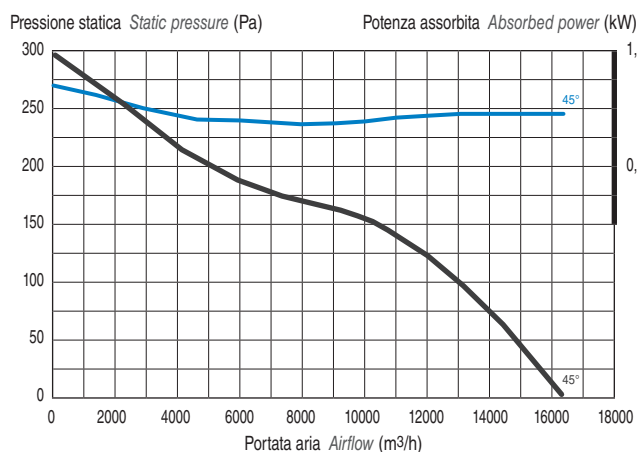
mod. 564/B • 1,1 kW Potenza installata Motor power



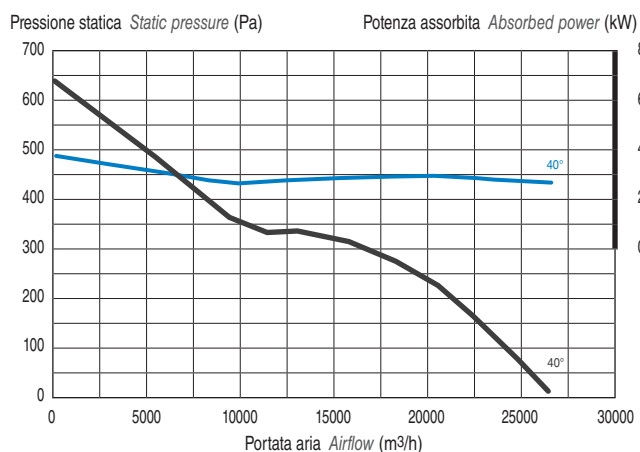
mod. 714/A • 2,2 kW Potenza installata Motor power



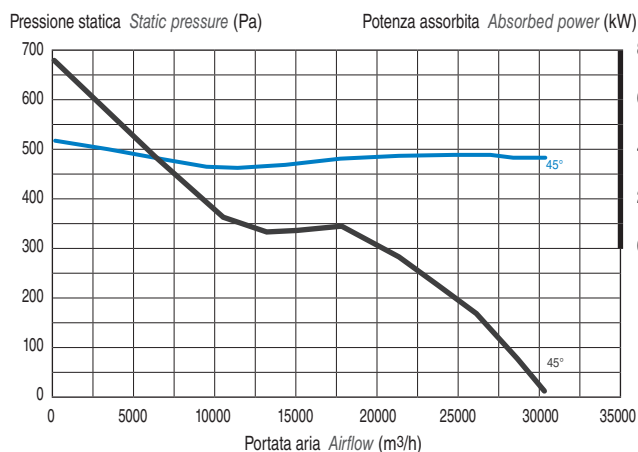
mod. 634/A • 1,1 kW Potenza installata Motor power



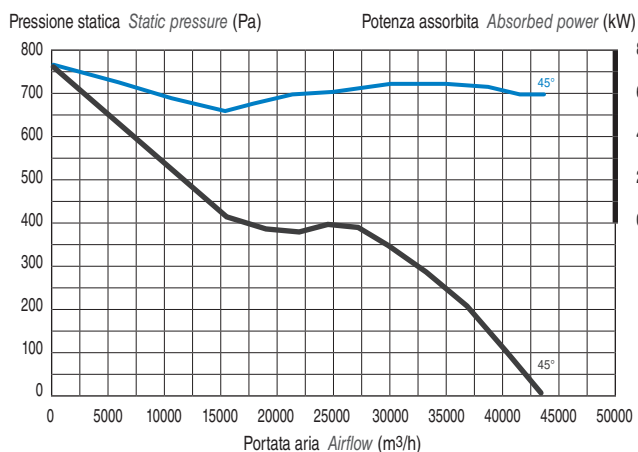
mod. 714/B • 3 kW Potenza installata Motor power



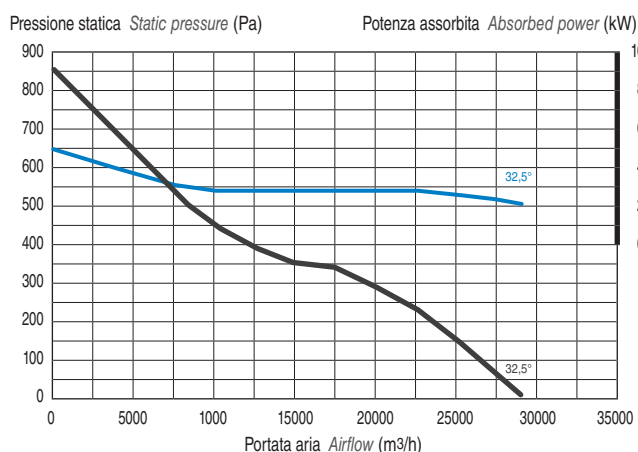
mod. 714/C · 4 kW Potenza installata Motor power



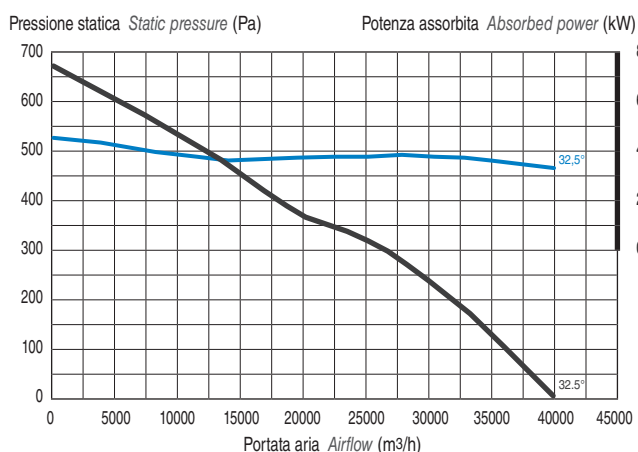
mod. 804/D · 7,5 kW Potenza installata Motor power



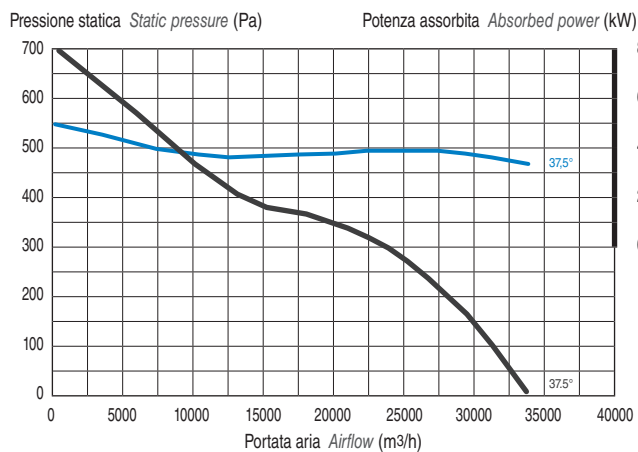
mod. 804/A · 3 kW Potenza installata Motor power



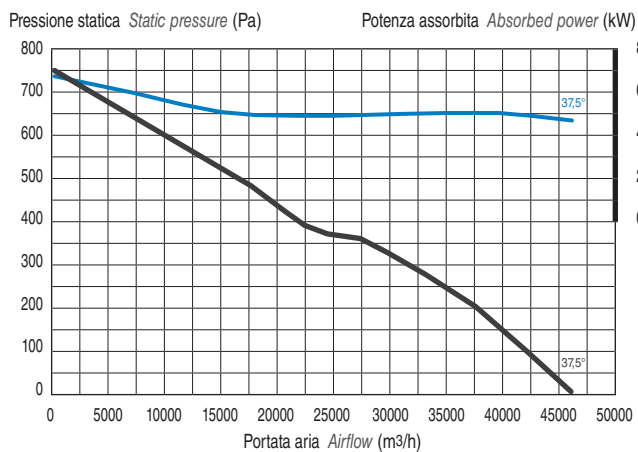
mod. 904/A · 4 kW Potenza installata Motor power



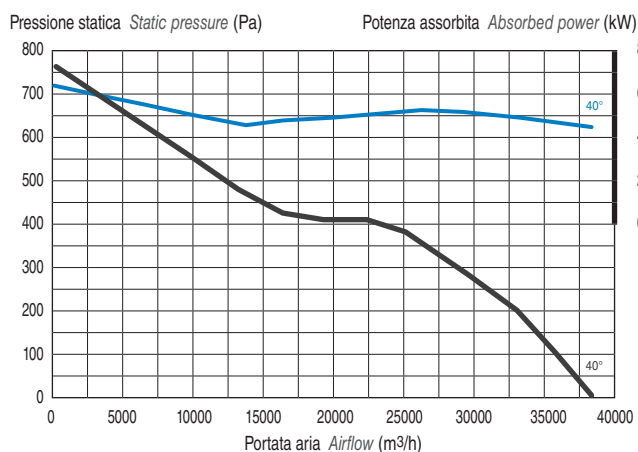
mod. 804/B · 4 kW Potenza installata Motor power



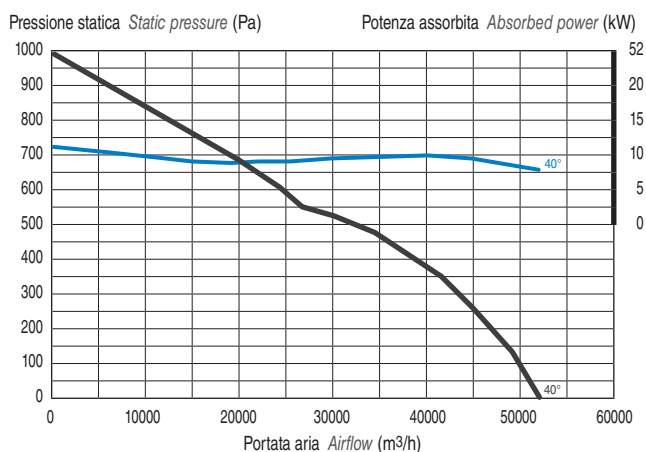
mod. 904/B · 5,5 kW Potenza installata Motor power



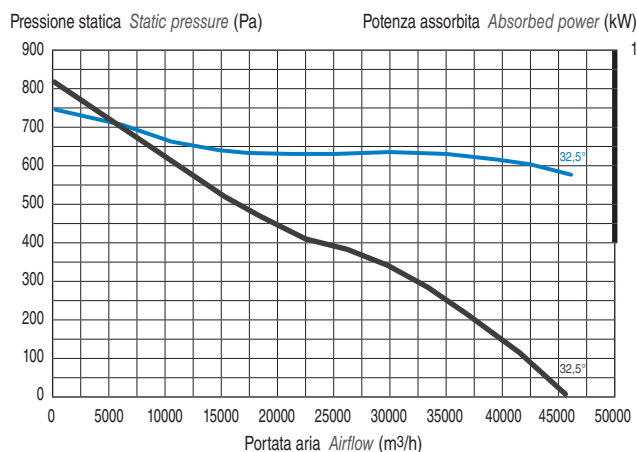
mod. 804/C · 5,5 kW Potenza installata Motor power



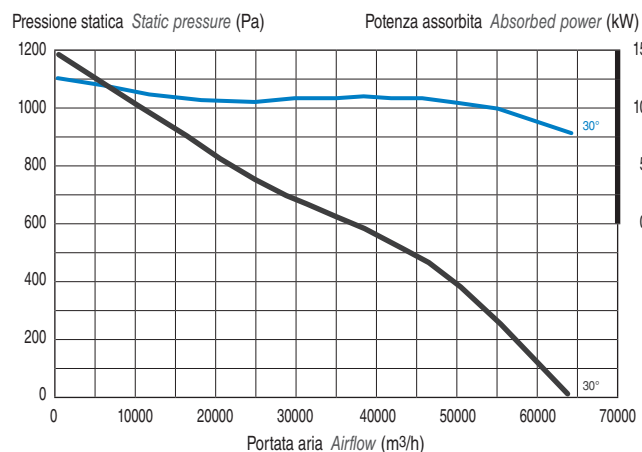
mod. 904/C · 11 kW Potenza installata Motor power



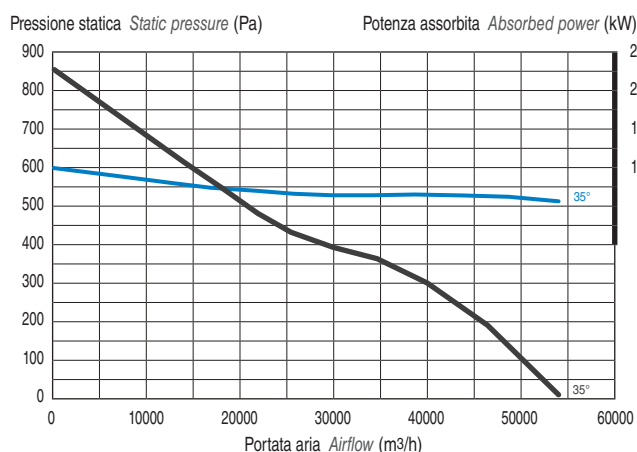
mod. 1004/A • 5,5 kW Potenza installata Motor power



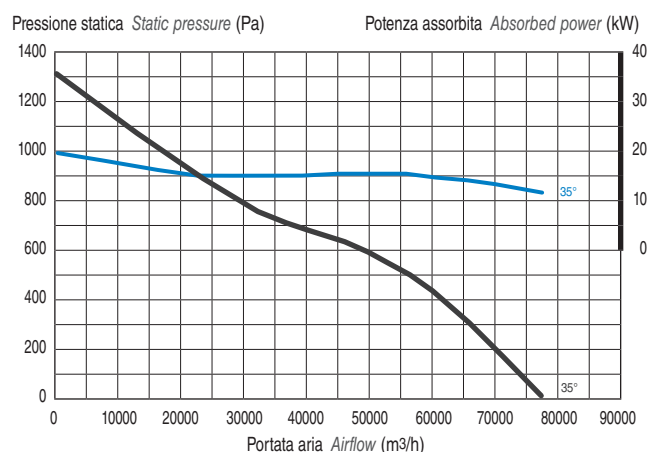
mod. 1124/A • 11 kW Potenza installata Motor power



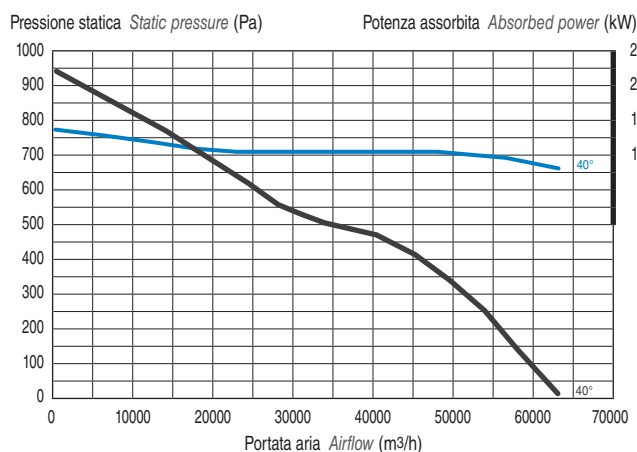
mod. 1004/B • 7,5 kW Potenza installata Motor power



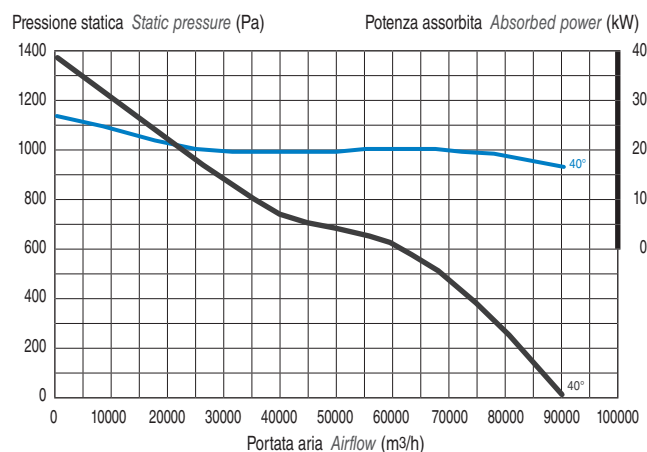
mod. 1124/B • 15 kW Potenza installata Motor power



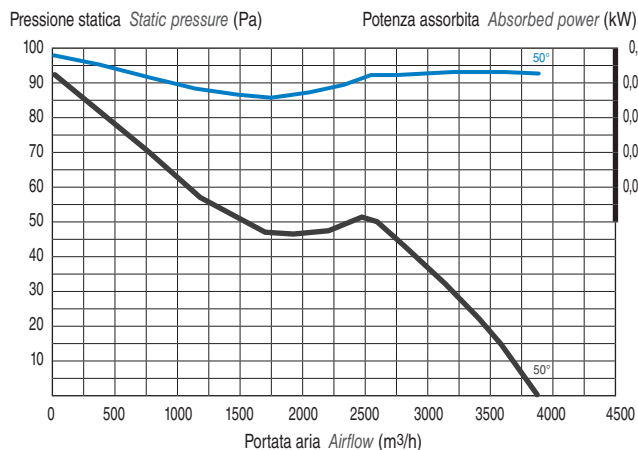
mod. 1004/C • 11 kW Potenza installata Motor power



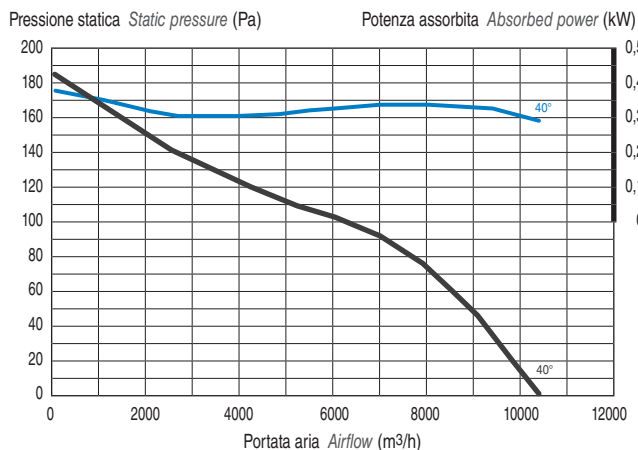
mod. 1124/C • 22 kW Potenza installata Motor power



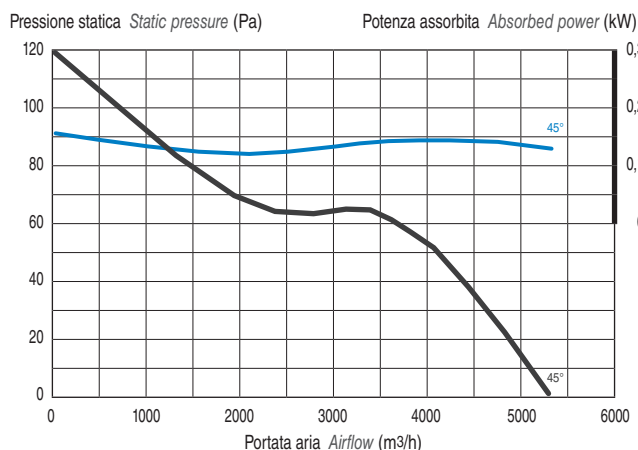
mod. 406/A • 0,12 kW Potenza installata Motor power



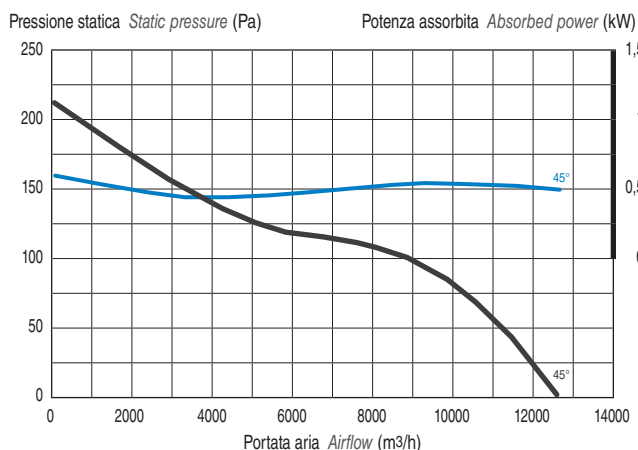
mod. 636/A • 0,37 kW Potenza installata Motor power



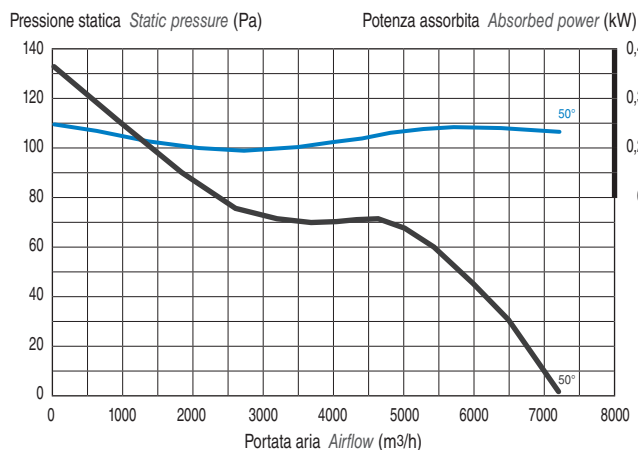
mod. 456/A • 0,18 kW Potenza installata Motor power



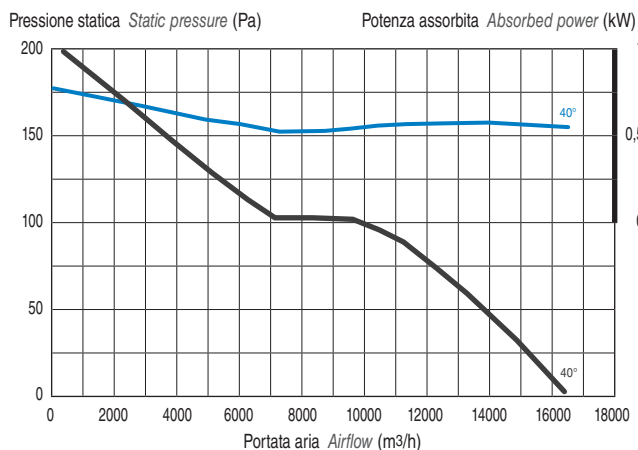
mod. 636/B • 0,75 kW Potenza installata Motor power



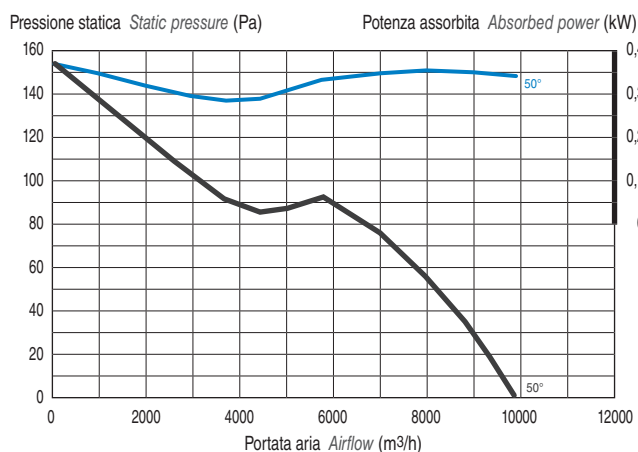
mod. 506/A • 0,25 kW Potenza installata Motor power



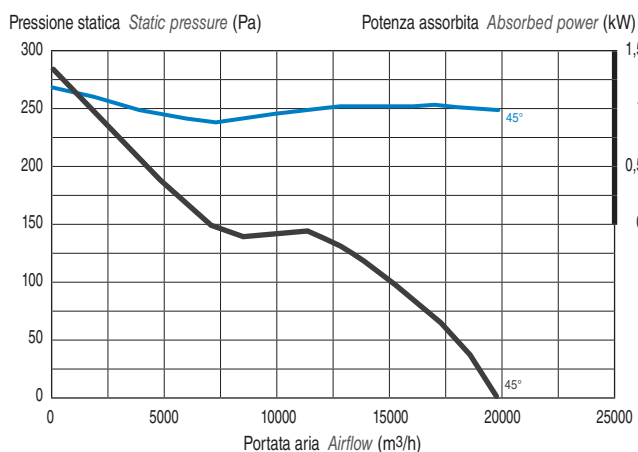
mod. 716/A • 0,75 kW Potenza installata Motor power



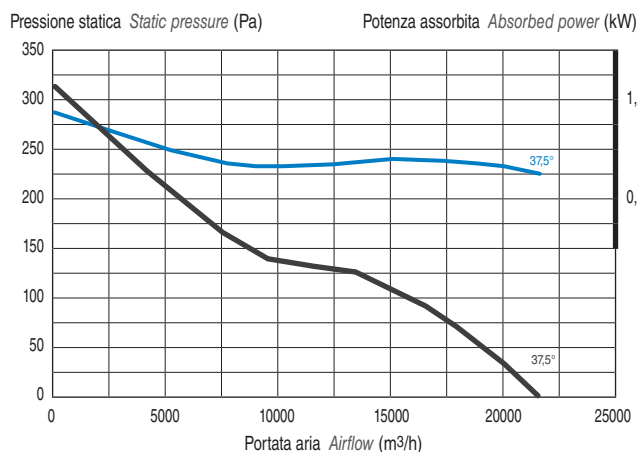
mod. 566/A • 0,37 kW Potenza installata Motor power



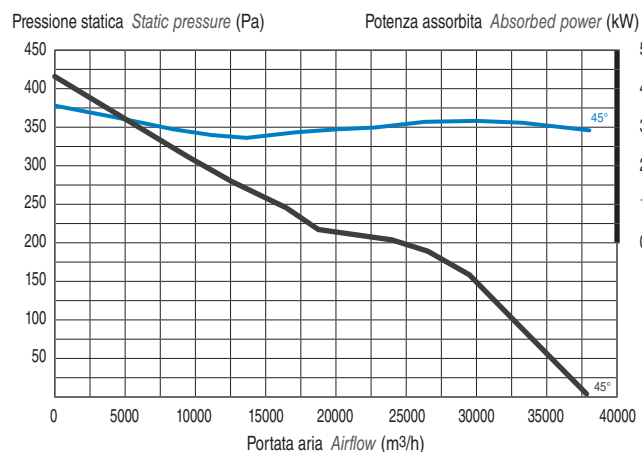
mod. 716/B • 1,1 kW Potenza installata Motor power



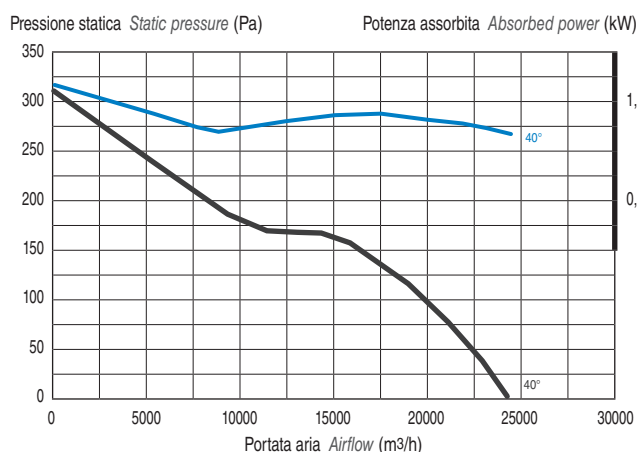
mod. 806/A · 1,1 kW Potenza installata Motor power



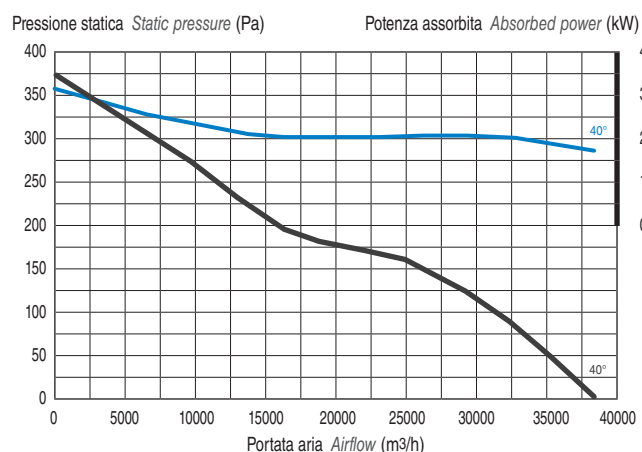
mod. 906/C · 4 kW Potenza installata Motor power



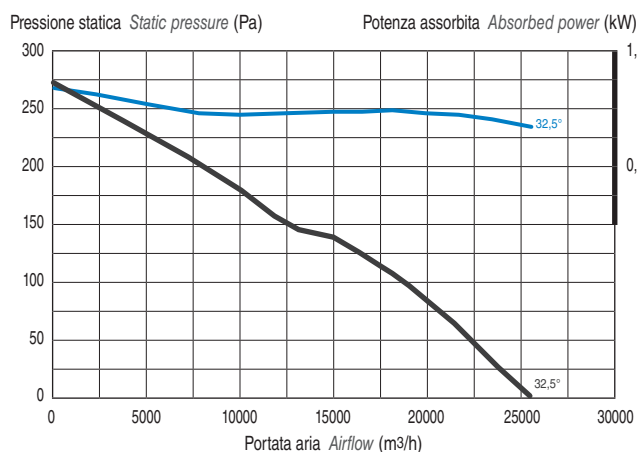
mod. 806/B · 1,5 kW Potenza installata Motor power



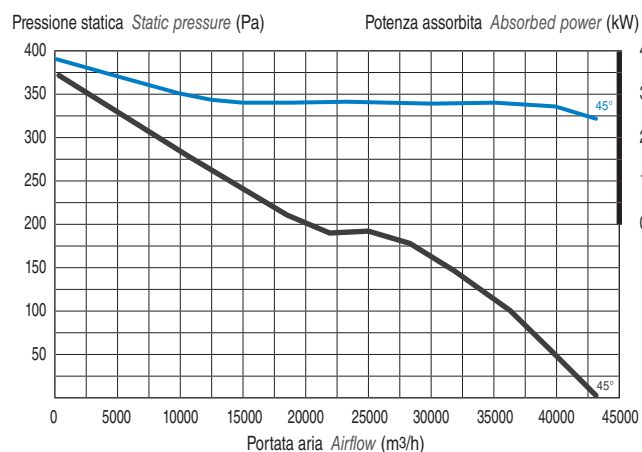
mod. 1006/A · 2,2 kW Potenza installata Motor power



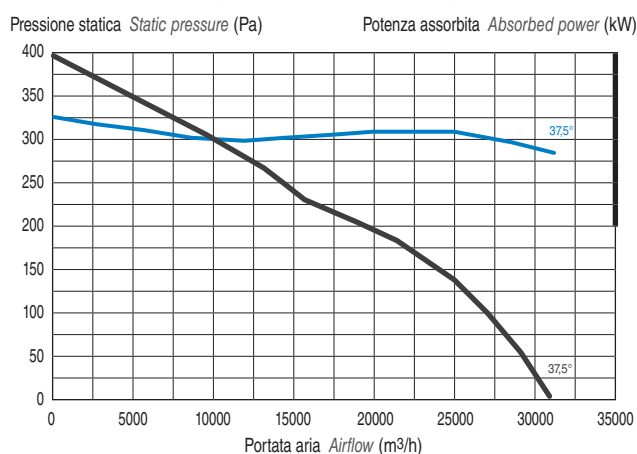
mod. 906/A · 1,1 kW Potenza installata Motor power



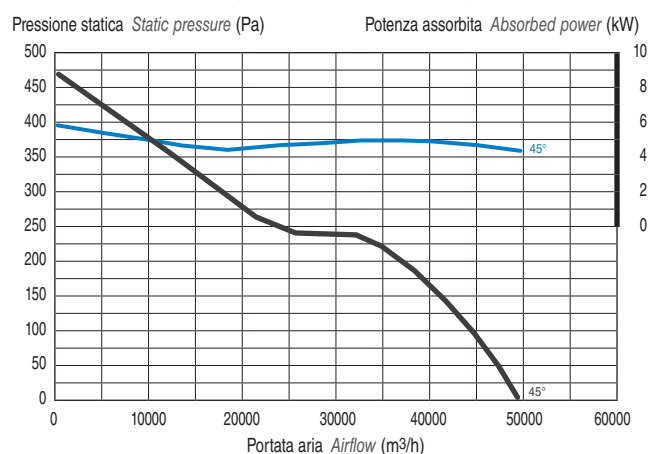
mod. 1006/B · 3 kW Potenza installata Motor power



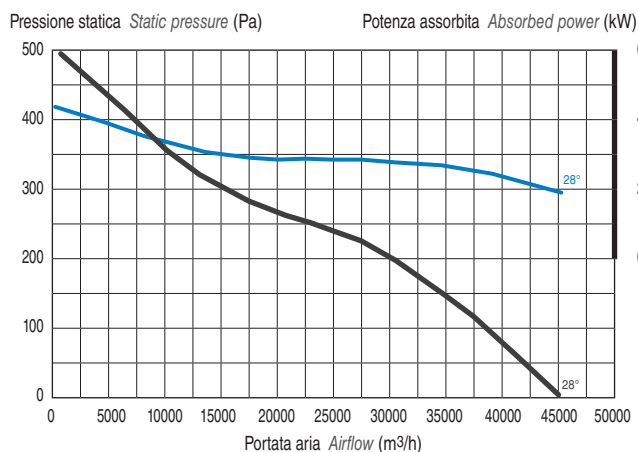
mod. 906/B · 2,2 kW Potenza installata Motor power



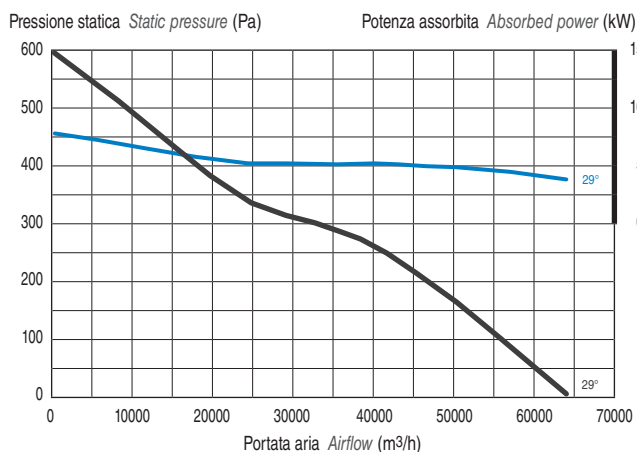
mod. 1006/C · 5,5 kW Potenza installata Motor power



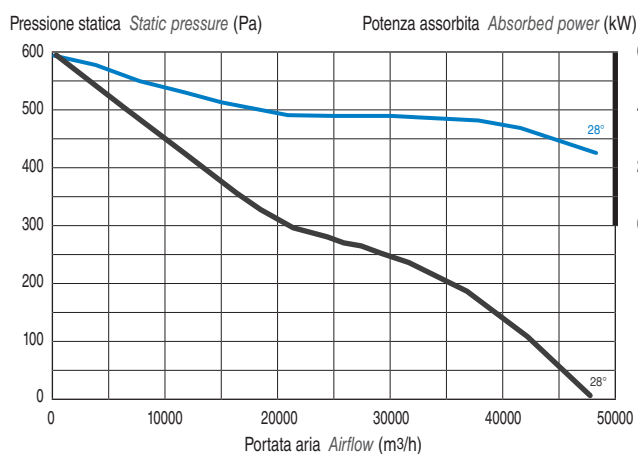
mod. 1126/A • 3 kW Potenza installata *Motor power*



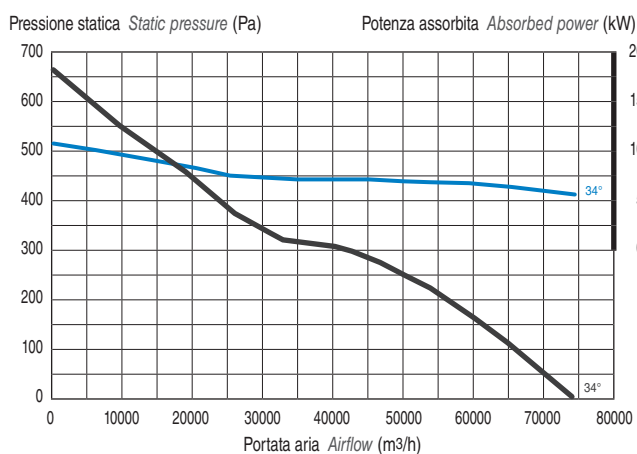
mod. 1256/A • 5,5 kW Potenza installata *Motor power*



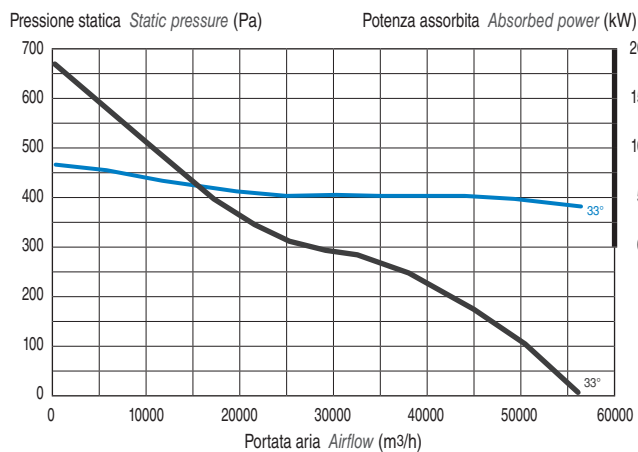
mod. 1126/B • 4 kW Potenza installata *Motor power*



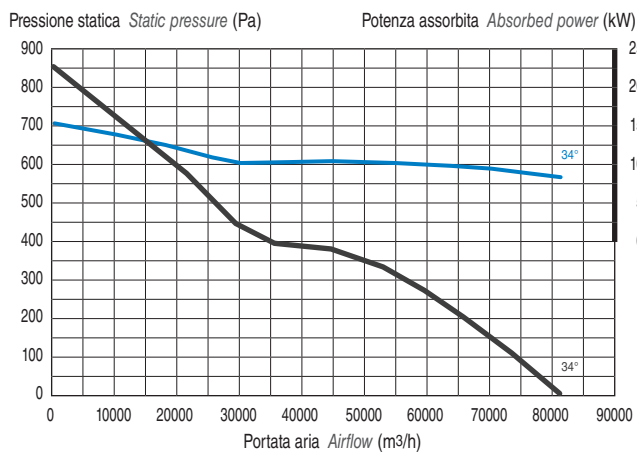
mod. 1256/B • 7,5 kW Potenza installata *Motor power*



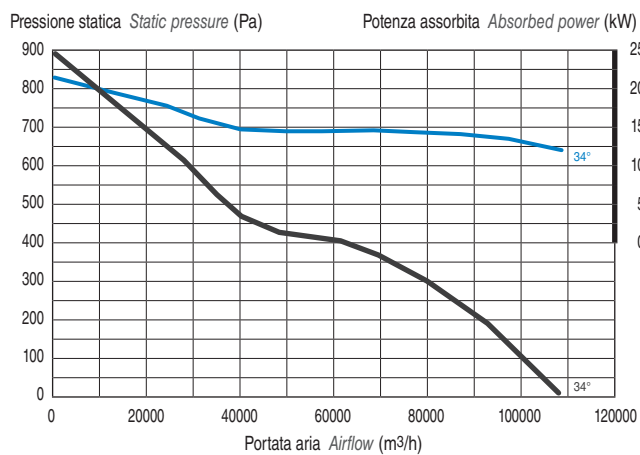
mod. 1126/C • 5,5 kW Potenza installata *Motor power*



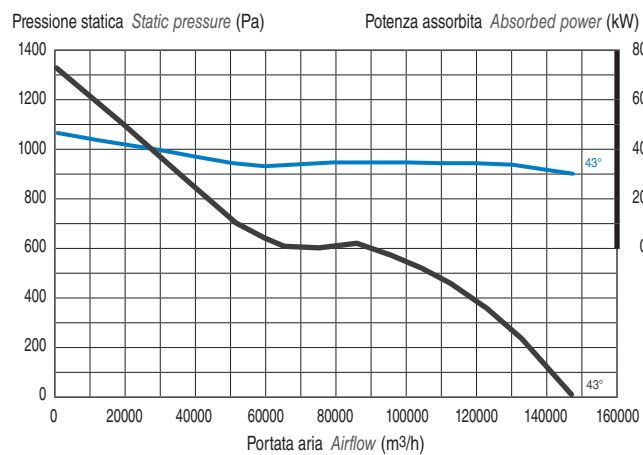
mod. 1256/C • 11 kW Potenza installata *Motor power*



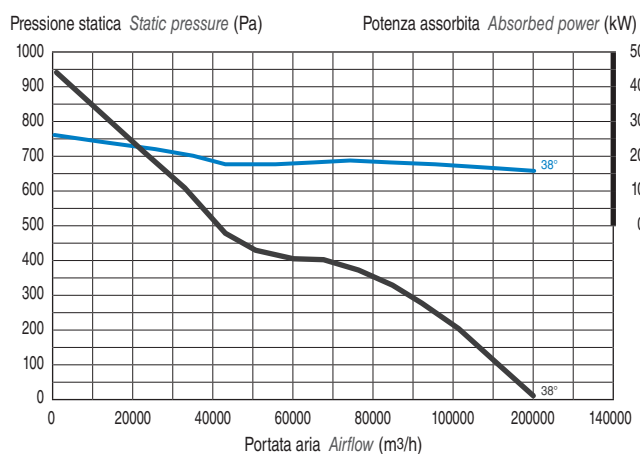
mod. 1406/A • 15 kW Potenza installata Motor power



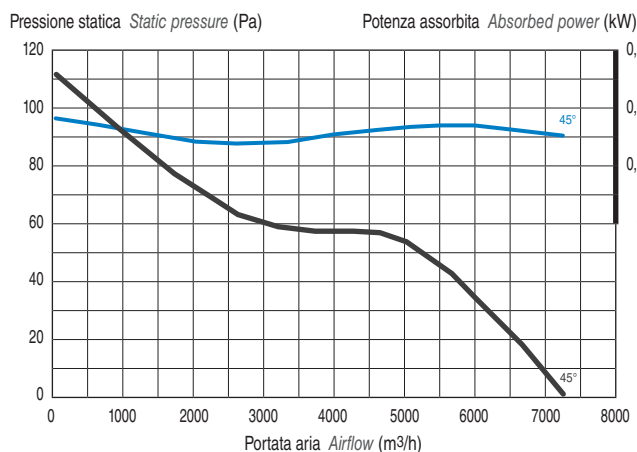
mod. 1406/C • 37 kW Potenza installata Motor power



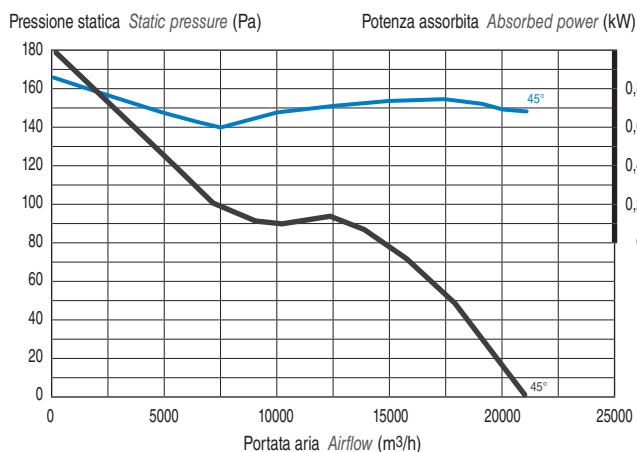
mod. 1406/B • 22 kW Potenza installata Motor power



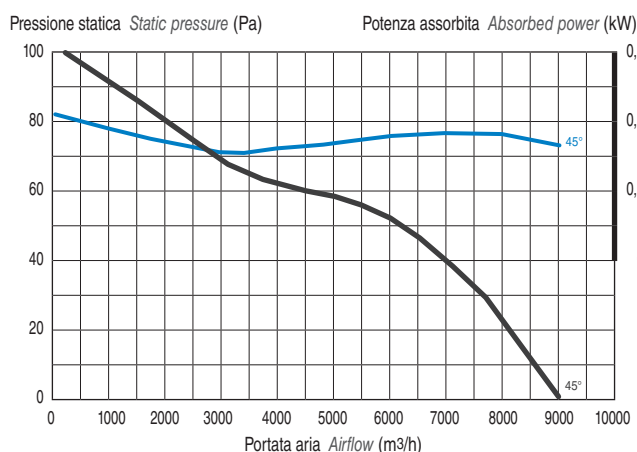
mod. 568/A • 0,18 kW Potenza installata Motor power



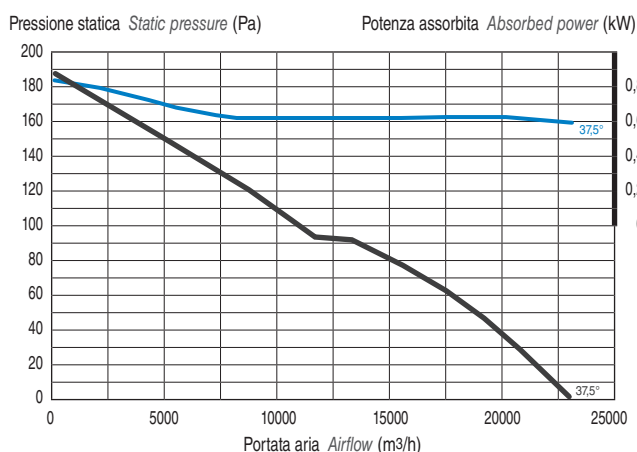
mod. 808/B • 0,75 kW Potenza installata Motor power



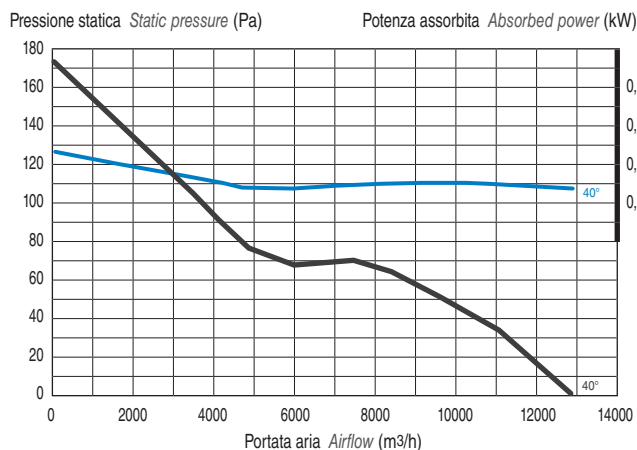
mod. 638/A • 0,18 kW Potenza installata Motor power



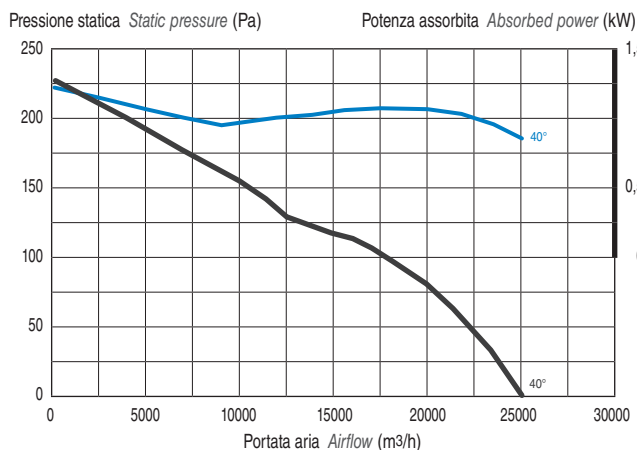
mod. 908/A • 0,75 kW Potenza installata Motor power



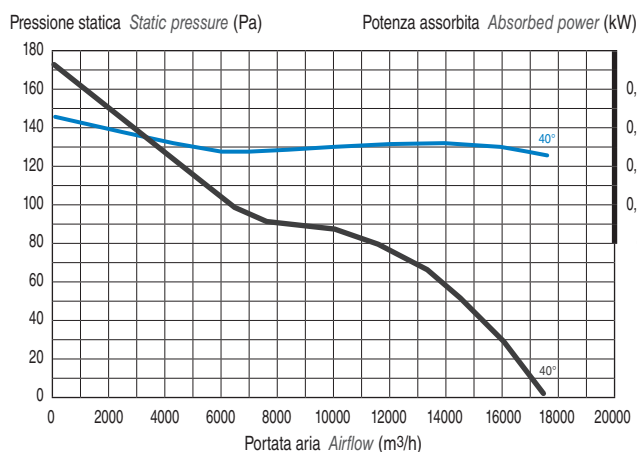
mod. 718/A • 0,37 kW Potenza installata Motor power



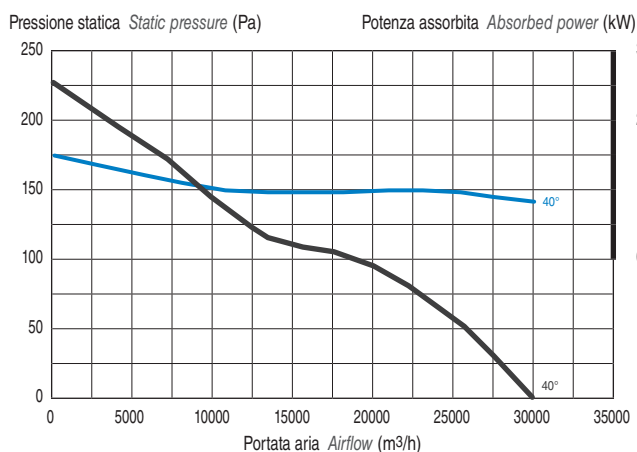
mod. 908/B • 1,1 kW Potenza installata Motor power



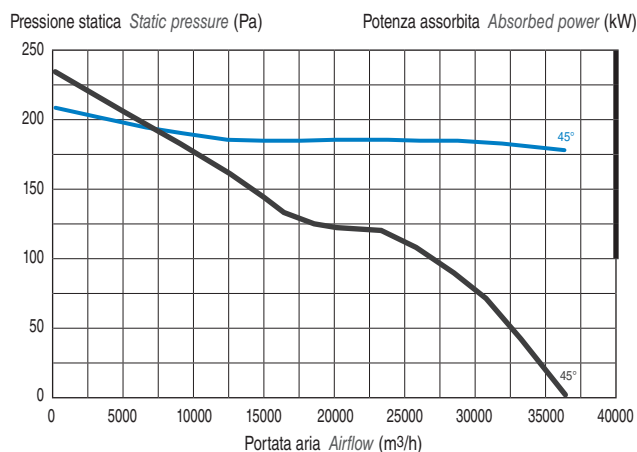
mod. 808/A • 0,55 kW Potenza installata Motor power



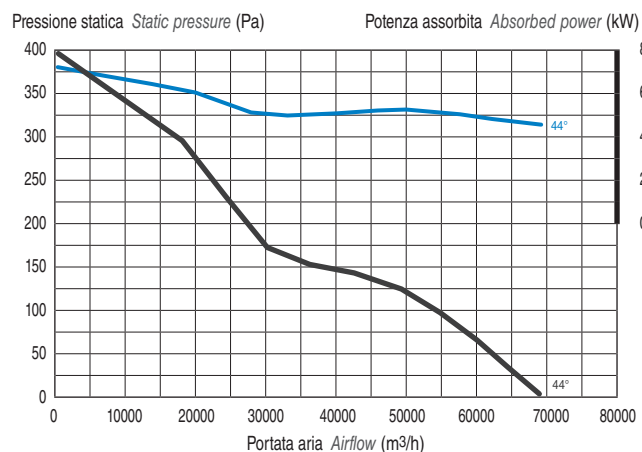
mod. 1008/A • 1,1 kW Potenza installata Motor power



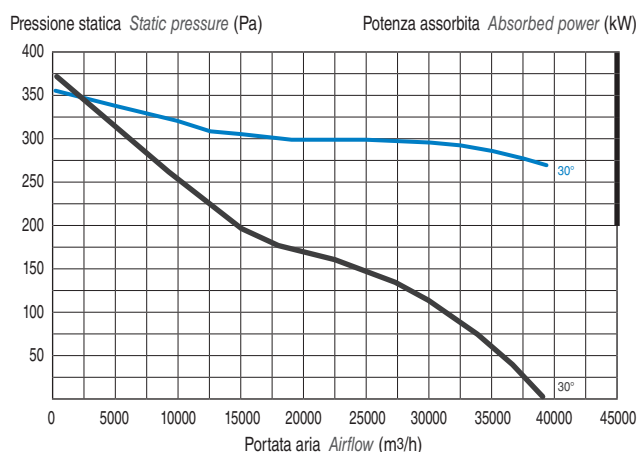
mod. 1008/B • 2,2 kW Potenza installata Motor power



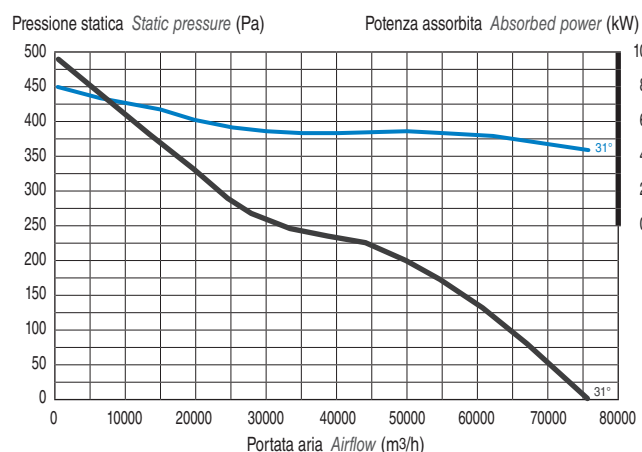
mod. 1258/A • 5,5 kW Potenza installata Motor power



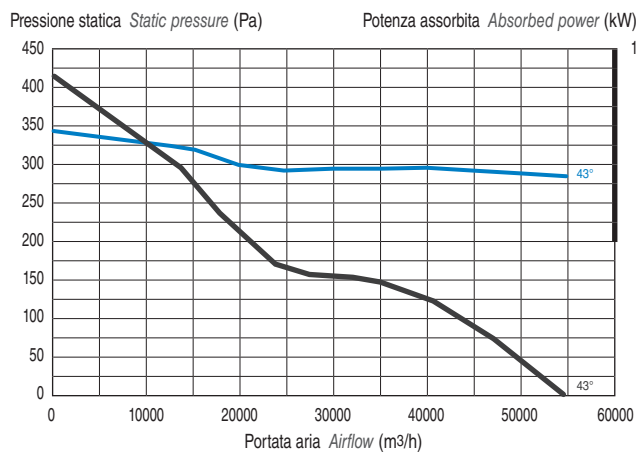
mod. 1128/A • 2,2 kW Potenza installata Motor power



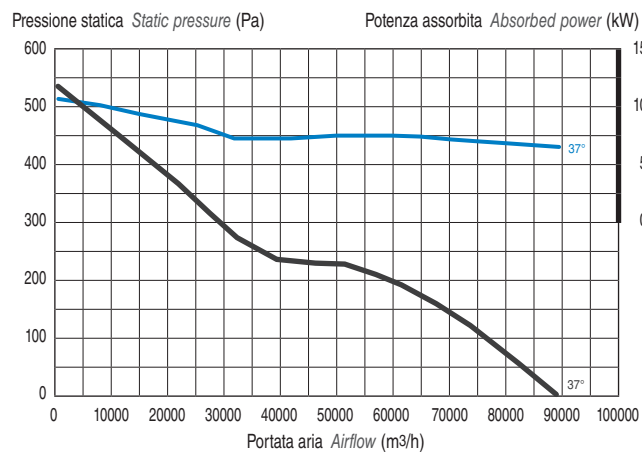
mod. 1408/A • 5,5 kW Potenza installata Motor power



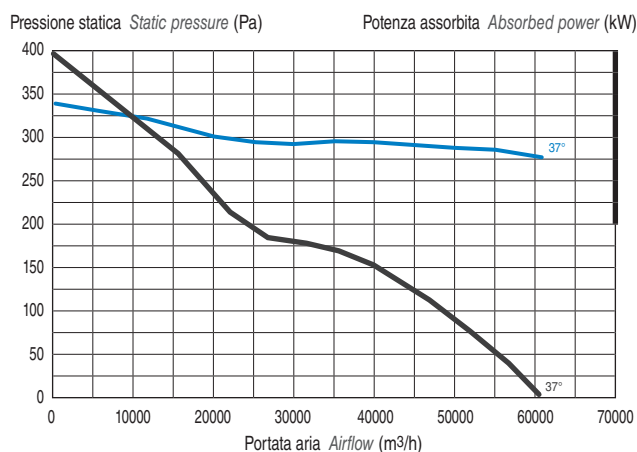
mod. 1128/B • 4 kW Potenza installata Motor power



mod. 1408/B • 7,5 kW Potenza installata Motor power



mod. 1258/A • 4 kW Potenza installata Motor power



mod. 1408/C • 11 kW Potenza installata Motor power

