Приточно-вытяжные вентиляторы MAGMA
Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Уфа (347)229-48-12
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сайт: www.ciat.nt-rt.ru|| эл. почта: cta@nt-rt.ru

Smoke ventilators
F400/120

MAGMA

Smoke and air ventilator
F 400/120 approved (400°C – 120 min.)
High-performance fan with forward- or backward-curved blades
Robust single unit
Removable construction in galvanised steel

SMOKE EXTRACTION

Air flow: 1 000 to 75 000 m³/h

Use

- This ventilator is designed for drawing air out of commercial and industrial premises and commercial kitchens. Ideal for smoke control in establishments open to the public and highrise buildings.
- The ventilator has received F400/120 smoke control approval (400°C – 2 hrs) by CTICM* as per standard NF EN-3.

  CE Marking: No.1812 CPD 0134 (MP model)
  CE Marking: No. 1812 CPD 0135 (BP model

Description and Design

- Ventilation box that can be used for air extraction in tertiary and industrial premises as well as professional kitchens. They are particularly suitable for smoke extraction in EOPs and high-rise buildings. Numerous motors available.
- The ventilator has received F400/120 smoke control approval (400°C – 2 hrs) by CTICM* as per standard NF EN-3.
  - CE Marking: No.1812 CPD 0134 (MP model)
  - CE Marking: No. 1812 CPD 0135 (BP model
- 20 models available in 2 versions
  - Comfort: 1,000 to 50,000 m^3/h.
  - Smoke control: up to 75,000 m^3/h.
  - Pressure: 120 to 2,000 Pa.
- Horizontal or vertical discharge
- 2 impeller technologies : forward-curved blades (low pressure) or backward-curved blades (medium pressure)

Double-inlet fan wheel with galvanised steel forward-curved blades.

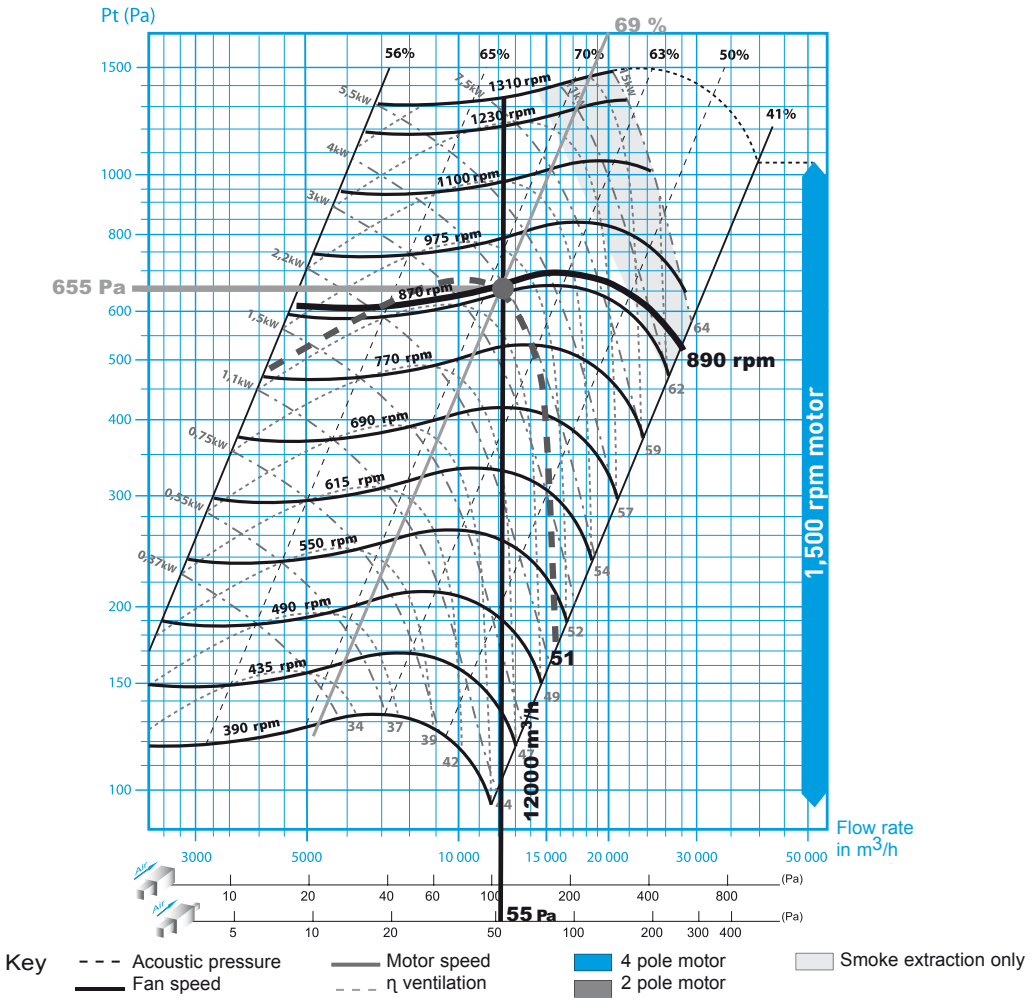
Double-inlet fan wheel with galvanised steel backward-curved blades.

- Left access to drive pulleys/trapezoidal belt
- Motor placed outside air stream and assembled on a sliding mount for adjustment of belt tension

Options and Accessories

ASSEMBLY	ELECTRICAL
▲ Anti-vibration mounts.	▲ Proximity switch fitted and wired
▲ Rain guard for vertical or horizontal discharge.	▲ Pressure drop switch fitted and wired
▲ Flexible connection on suction and discharge.	▲ Variable frequency drive.
▲ Rectangular connection on suction and round connection on discharge.	▲ CONTROLVENT relay unit.
▲ Dual skin option – F400/120 approved.	
▲ Epoxy paint.	

SELECTION GUIDE



SPECIFICATIONS AND REQUIRED VALUES

Capacity: 12,000 m³/h Static pressure: Pst = 600 Pa Ducted discharge

SELECTION METHOD

1 / Locate the desired flow rate on the flow rate scale: **12.000 m³/h.**

2 / This line will cut, along the bottom of the curves, ONLY ONE dynamic pressure graduation (pdyn).

3 / The dynamic pressure must be taken into account according to whether the casing is connected to the discharge or not.

Ducted discharge =

Open-end discharge =

For this example, the total dynamic pressure will therefore be: **55 Pa**

4 / The total pressure for our example will therefore be: (Pt = Pstat + Pdyn) Pt = 600 + 55 = **655 Pa**

Place this value on the pressure scale.

The point where the flow rate and pressure lines intersect is **X**.

5 / Using this point (X), the following information can be determined for our example:

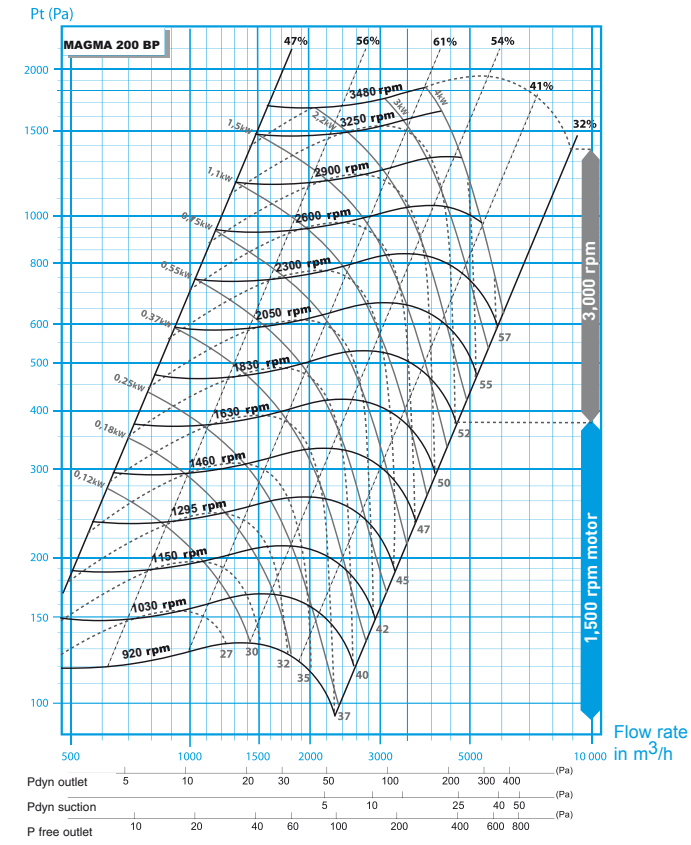
- Impeller rotation speed: **890 rpm**
- Sound pressure: **51 dBA**
- Power input: **4 kW**
- Total air handling capacity: **69%**

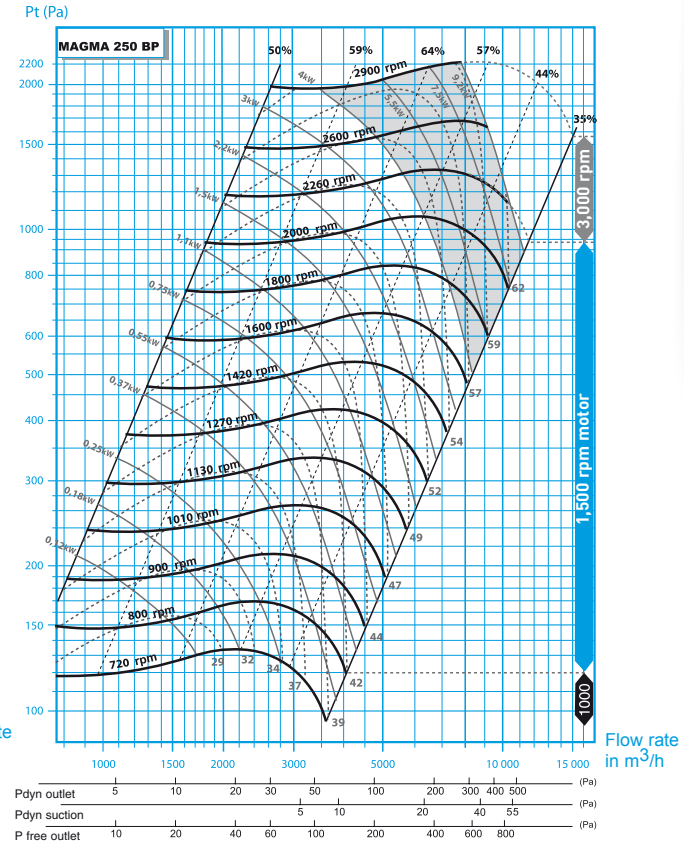
6 / To determine the appropriate motor power for your system, choose a motor with reserve power of between 10 and 20%.

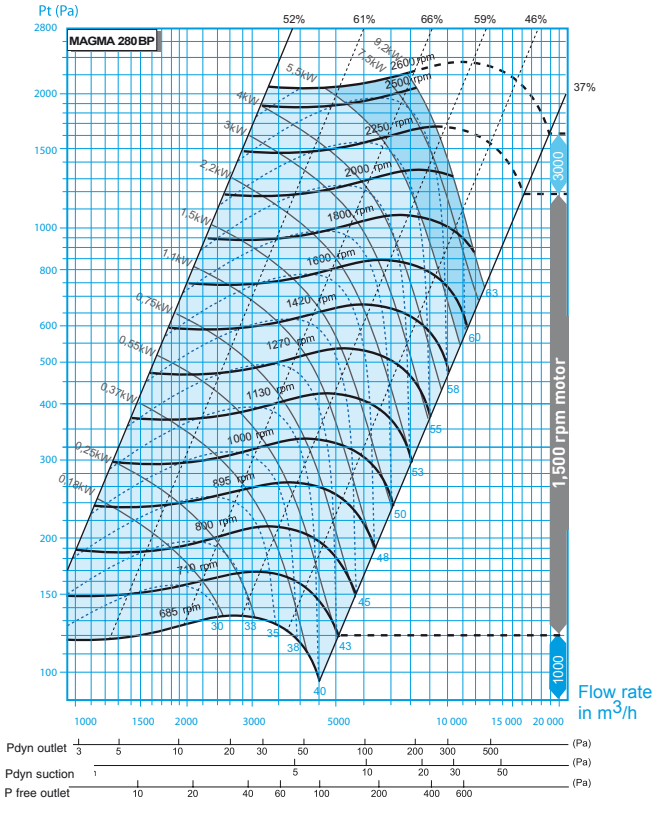
For our example: 4 x 1.15 = 4.6 ⇨standard motor: **5.5 kW**

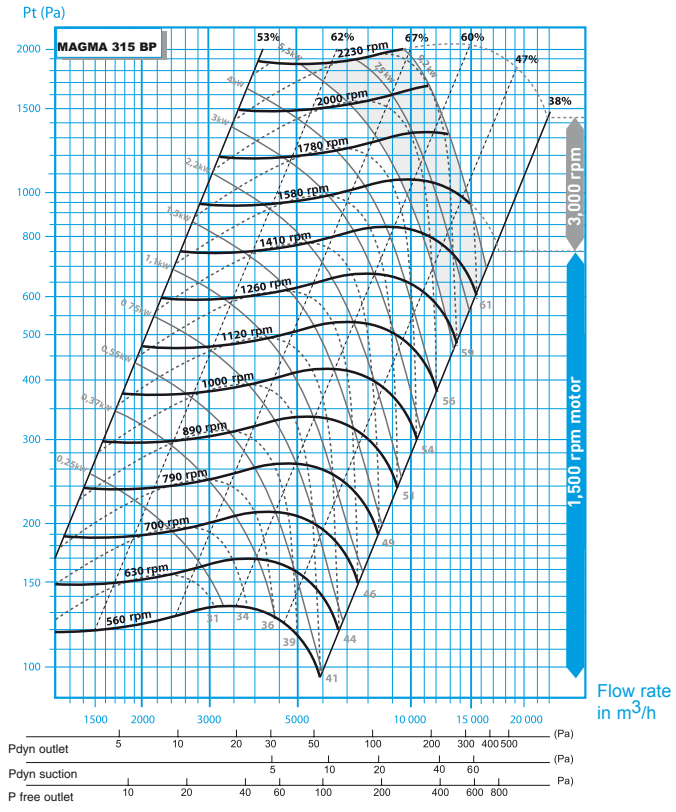
VENTILATION STANDARD SPECIFICATIONS: FORWARD-CURVED IMPELLER

Meets ISO 5801, 1.2 kg/m^3 air density.
Sound pressure level measured in a hemispherical free field along a reflective surface 6 m from the connected noise source. Unit with ducted suction and discharge, Lp in dB(A).

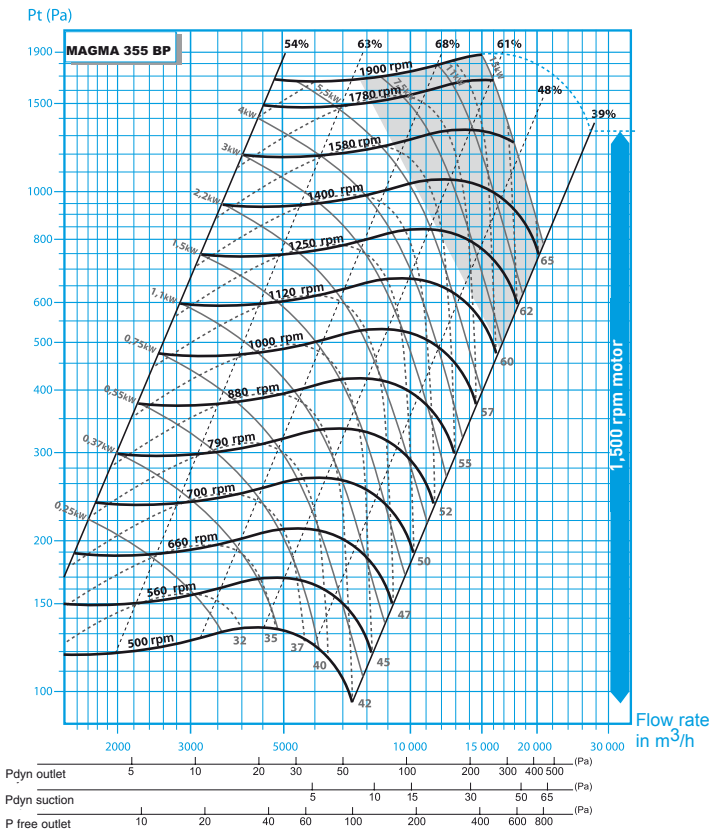


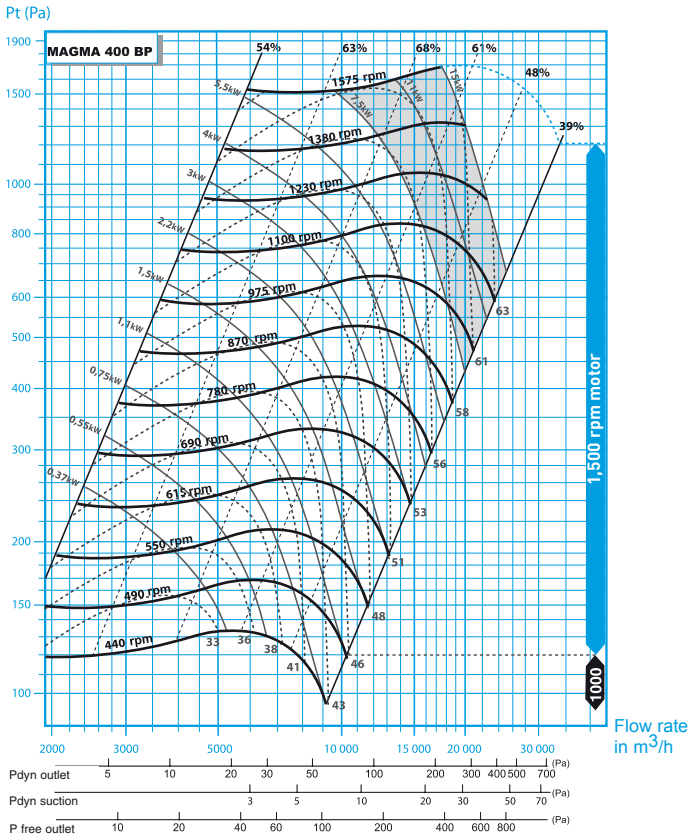


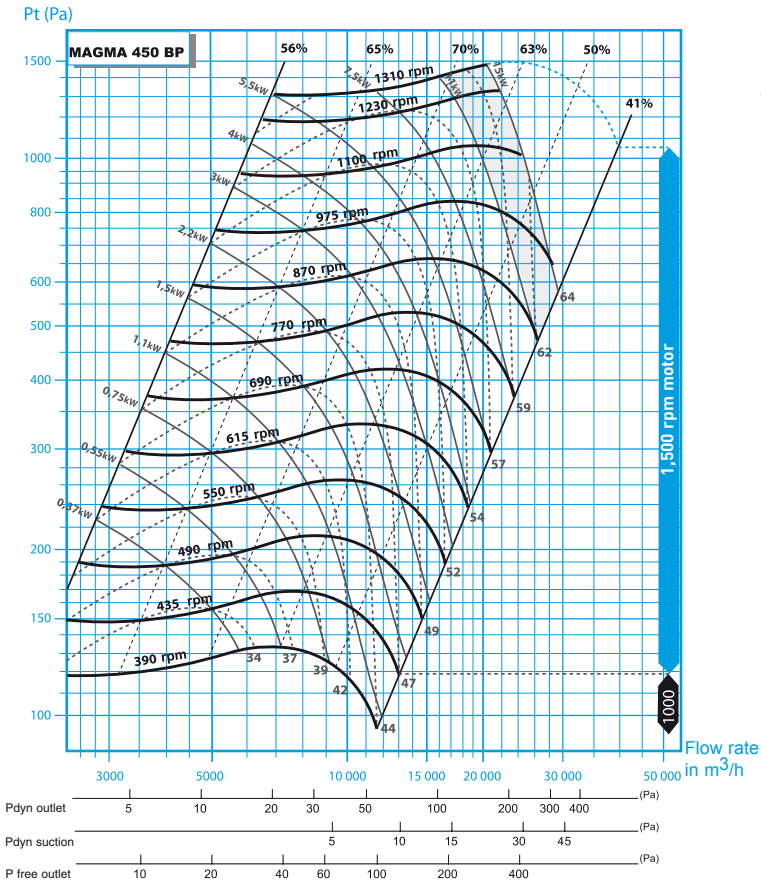


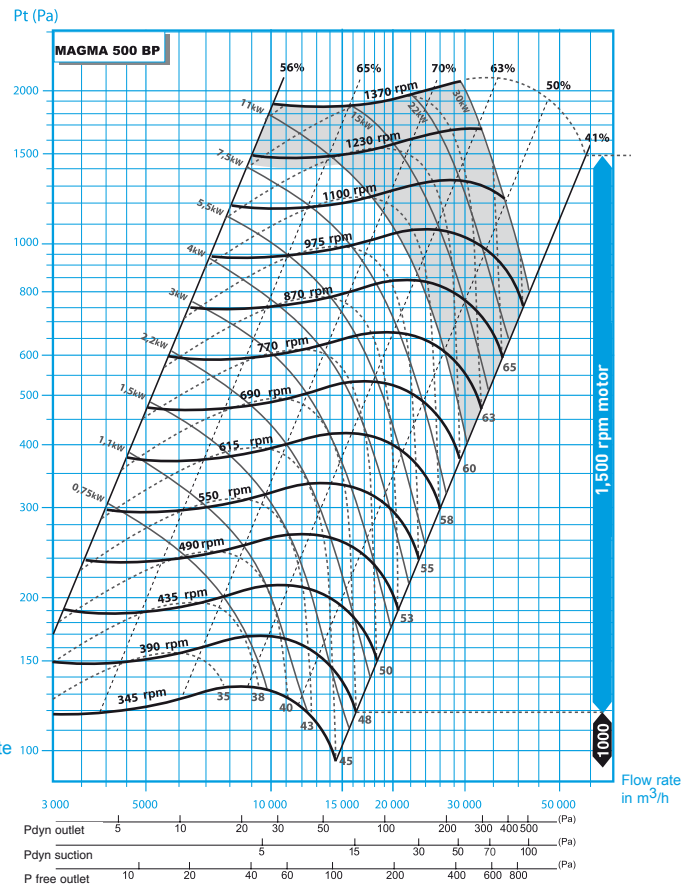


Key
- - - Acoustic pressure
—— Fan speed
—— Motor speed
- - - η ventilation
4 pole motor
2 pole motor
Smoke extraction only

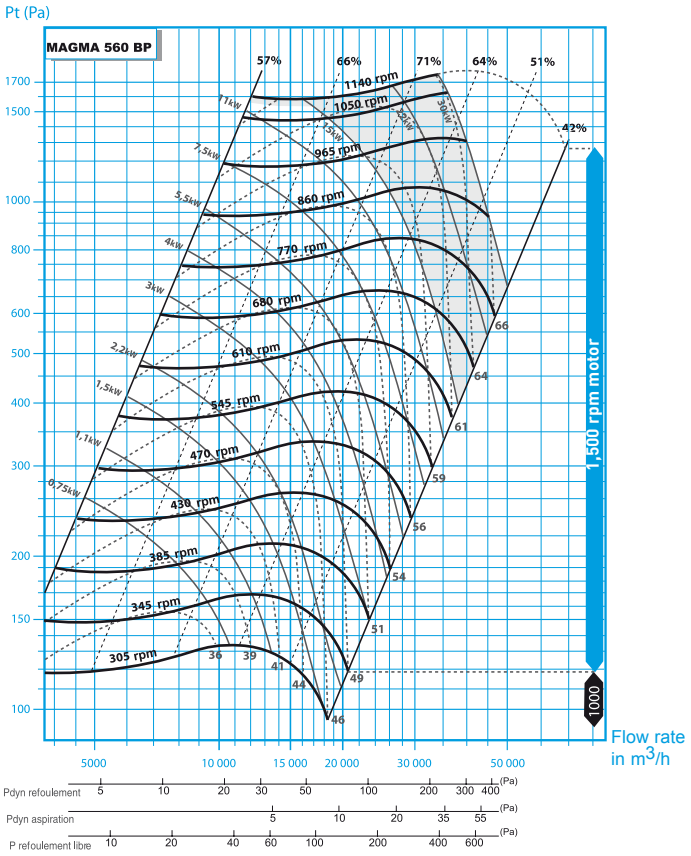


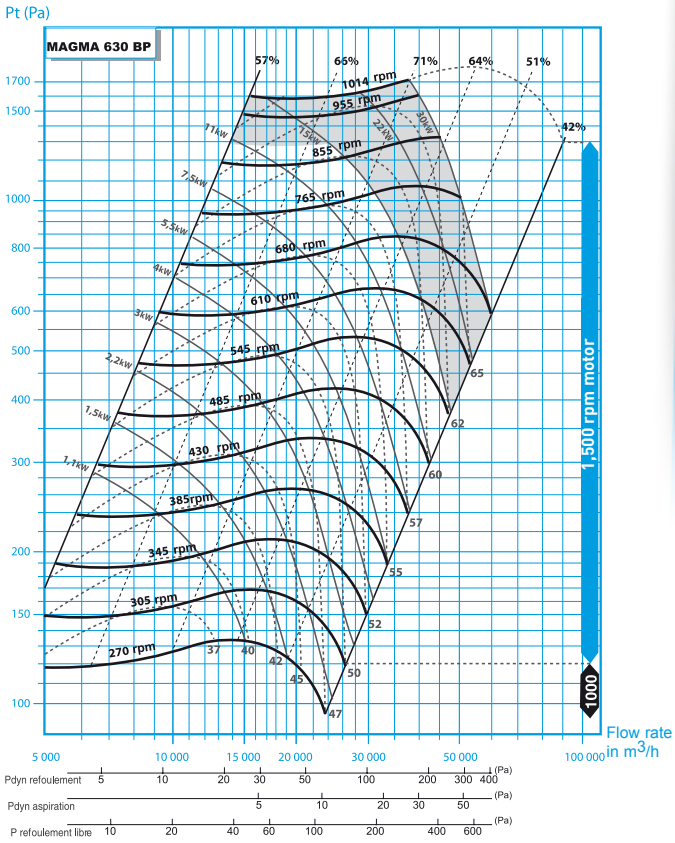


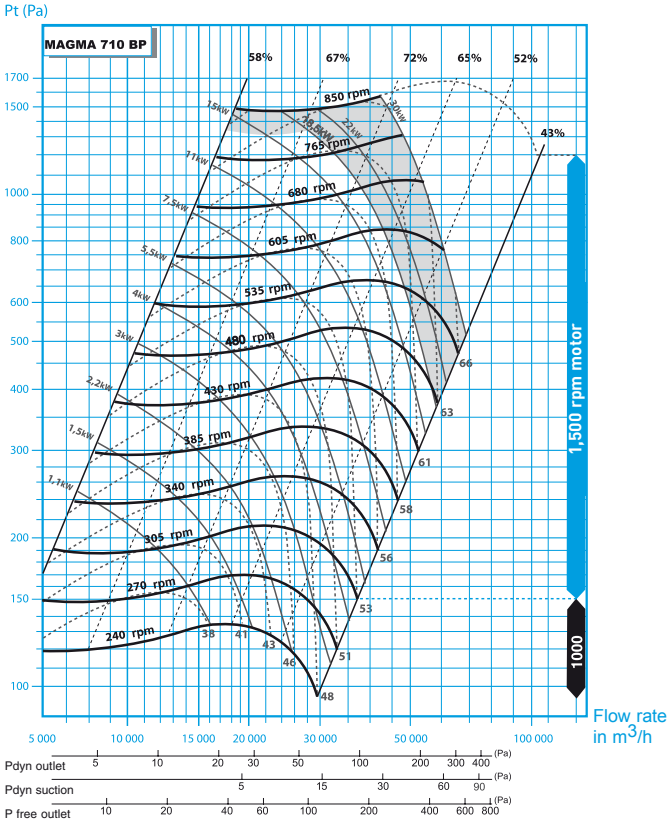




Key — Acoustic pressure — Fan speed — Motor speed — η ventilation — 4 pole motor — 2 pole motor — Smoke extraction only





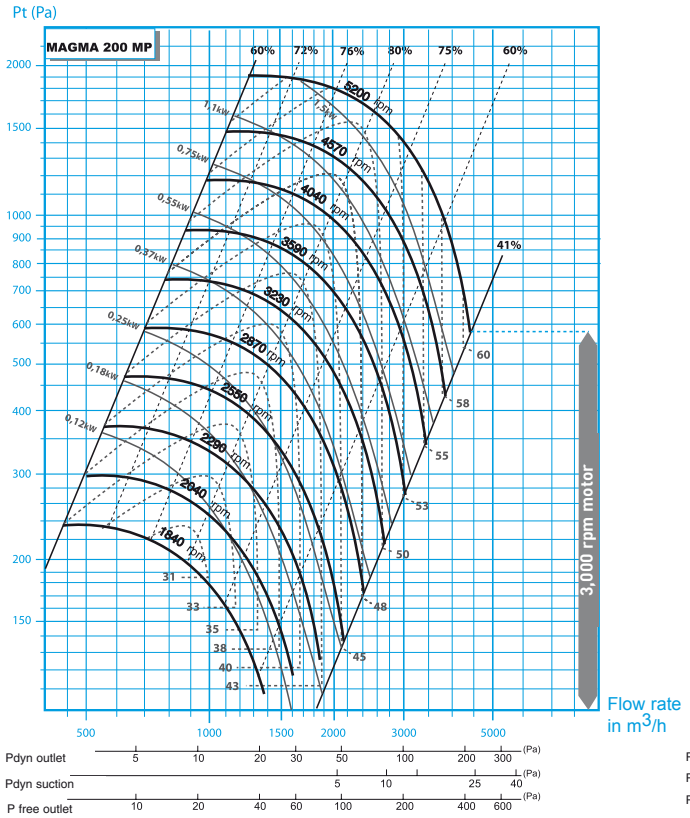


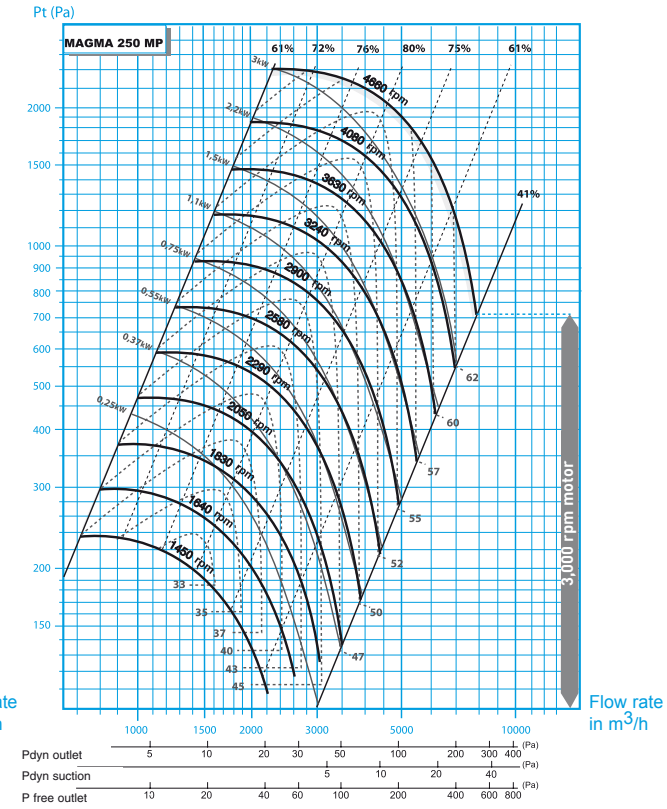
Key

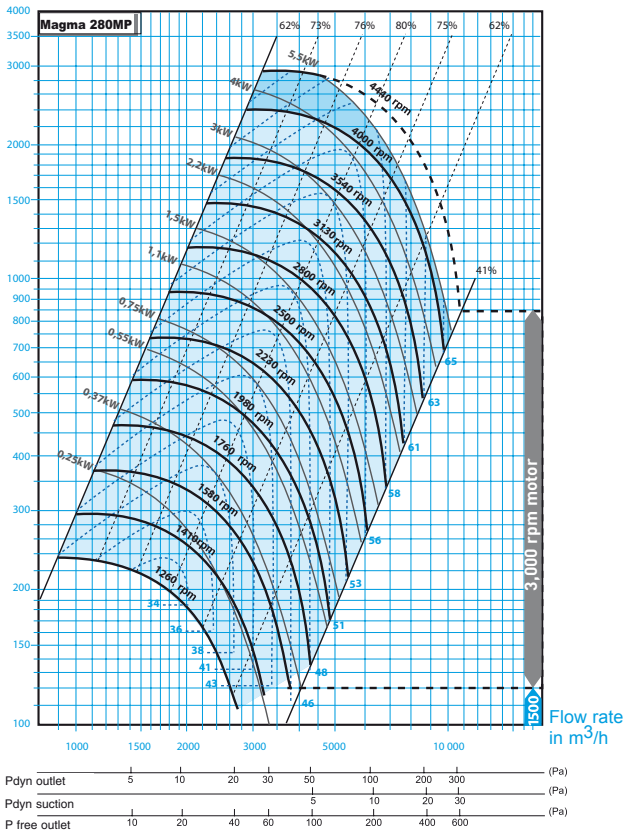
- - - Acoustic pressure
——— Fan speed
——— Motor speed
- - - η ventilation
4 pole motor
2 pole motor
Smoke extraction only

VENTILATION STANDARD SPECIFICATIONS: BACKWARD-CURVED IMPELLER

Meets ISO 5801, 1.2 kg/m^3 air density.
Sound pressure level measured in a hemispherical free field along a reflective surface 6 m from the connected noise source.
Unit with ducted suction and discharge, Lp in dB(A).







Key
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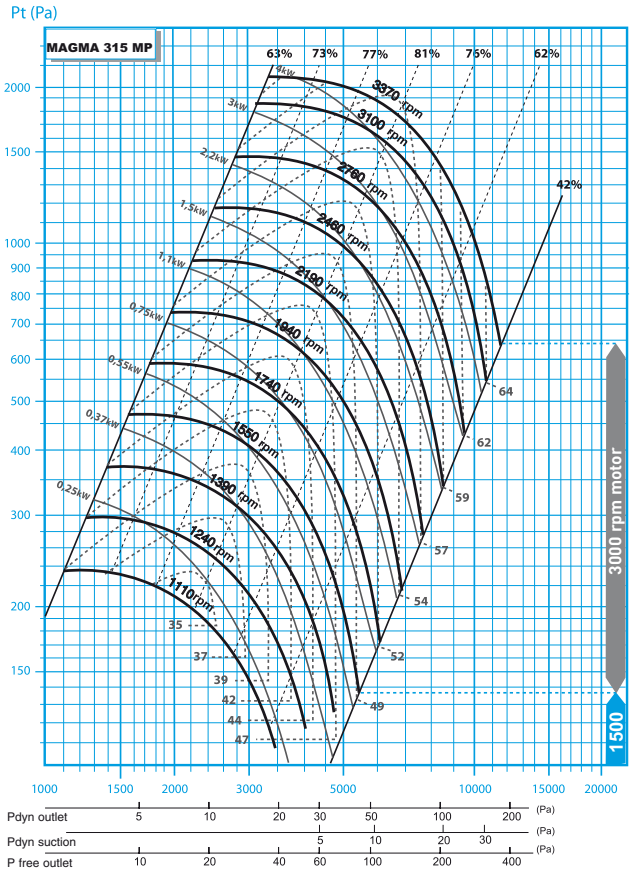
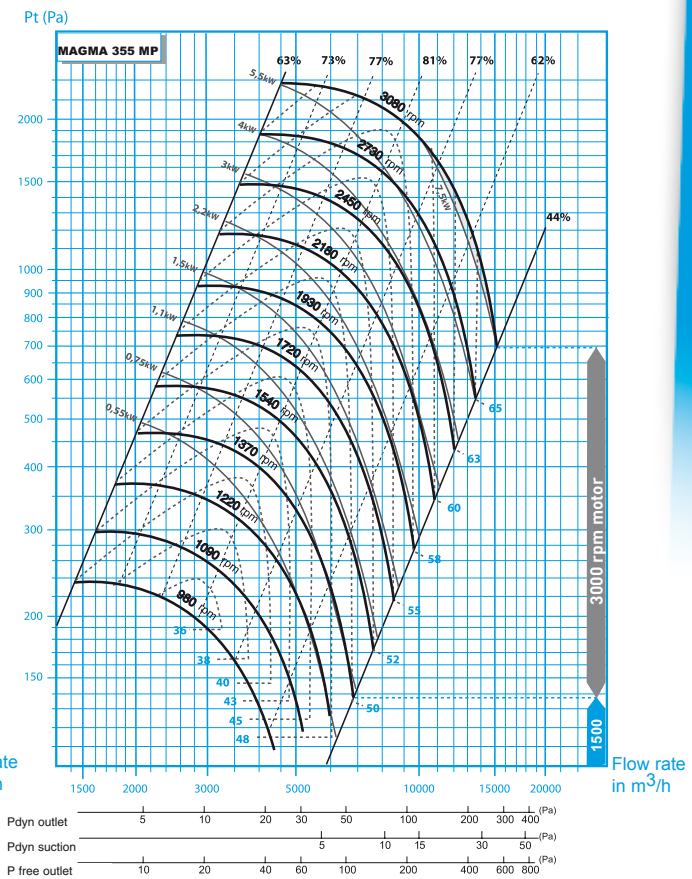
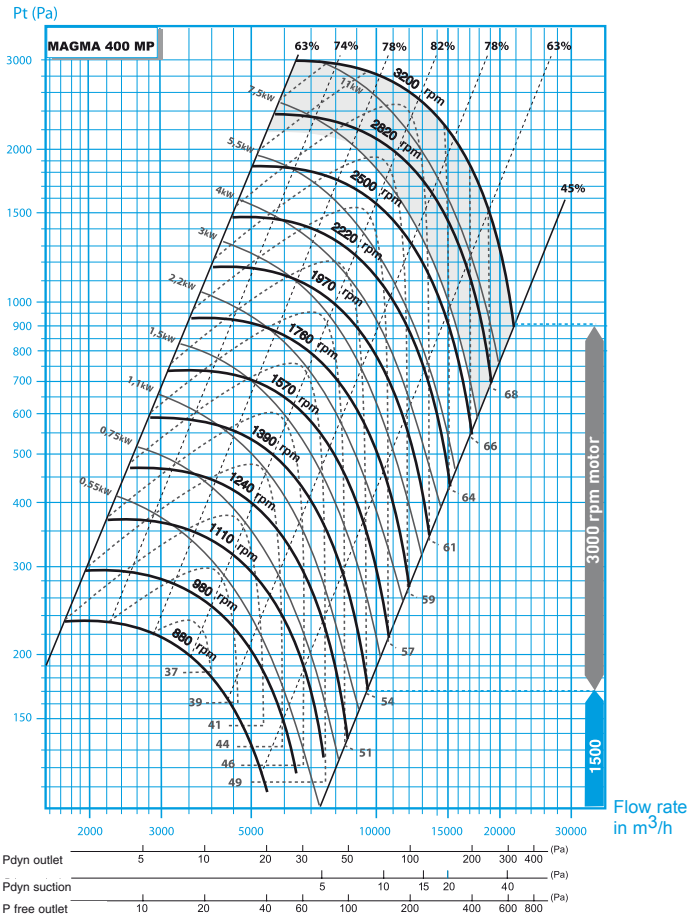
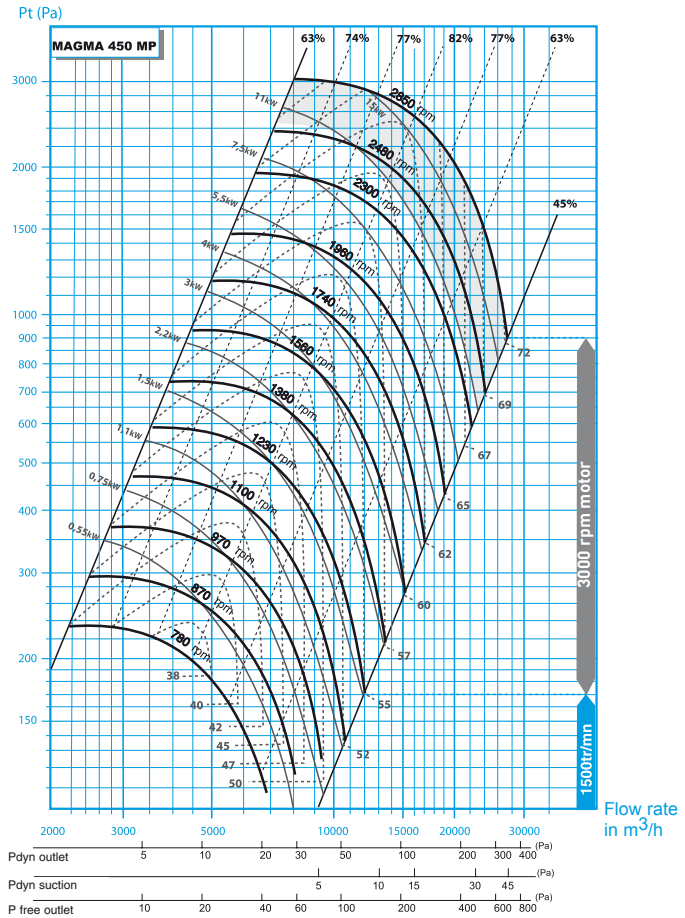
- Motor speed
- η ventilation
- 4 pole motor
- 2 pole motor
- Smoke extraction only









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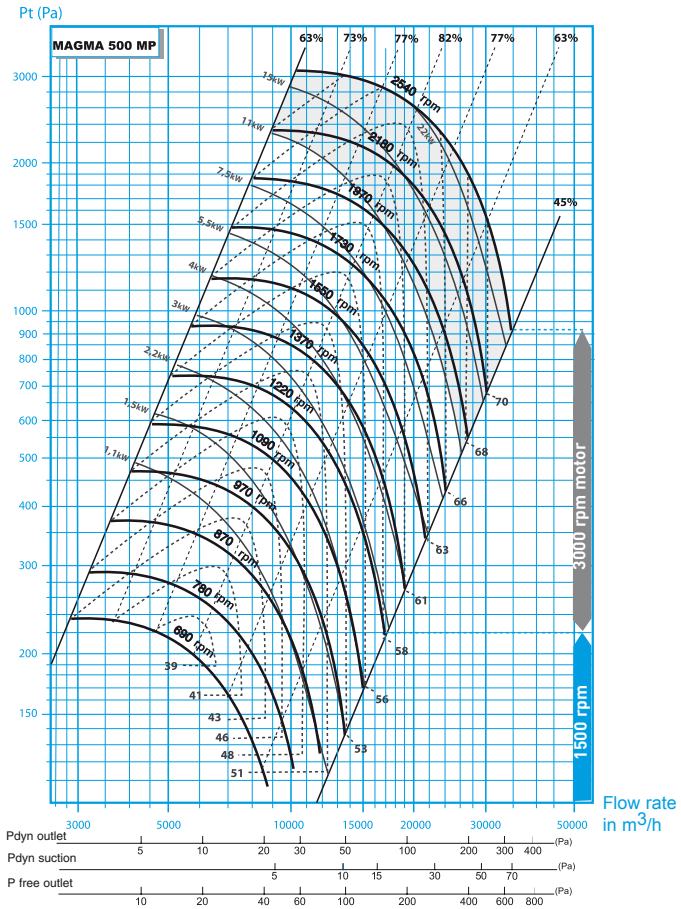
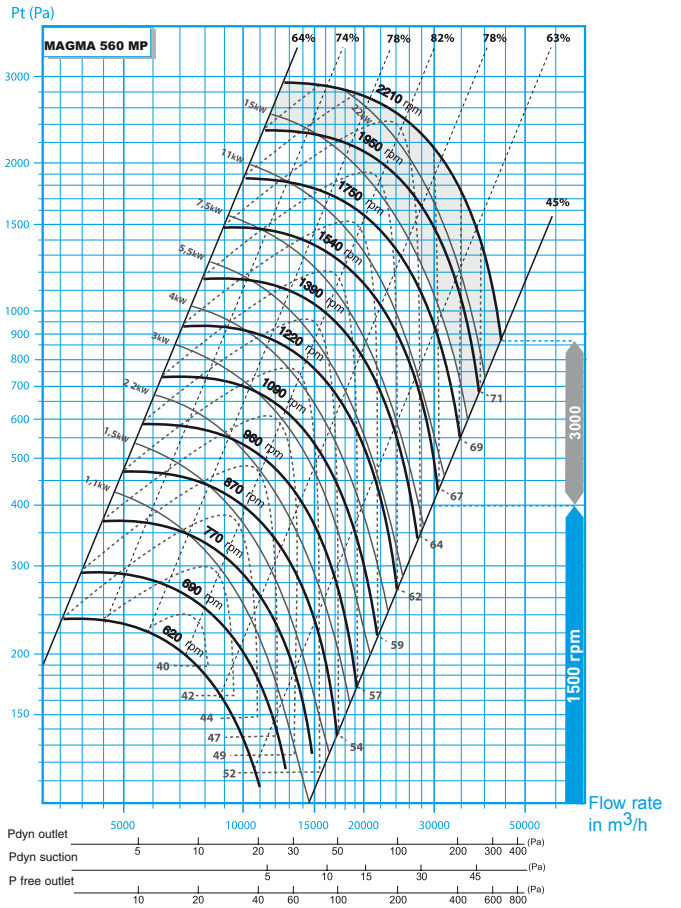
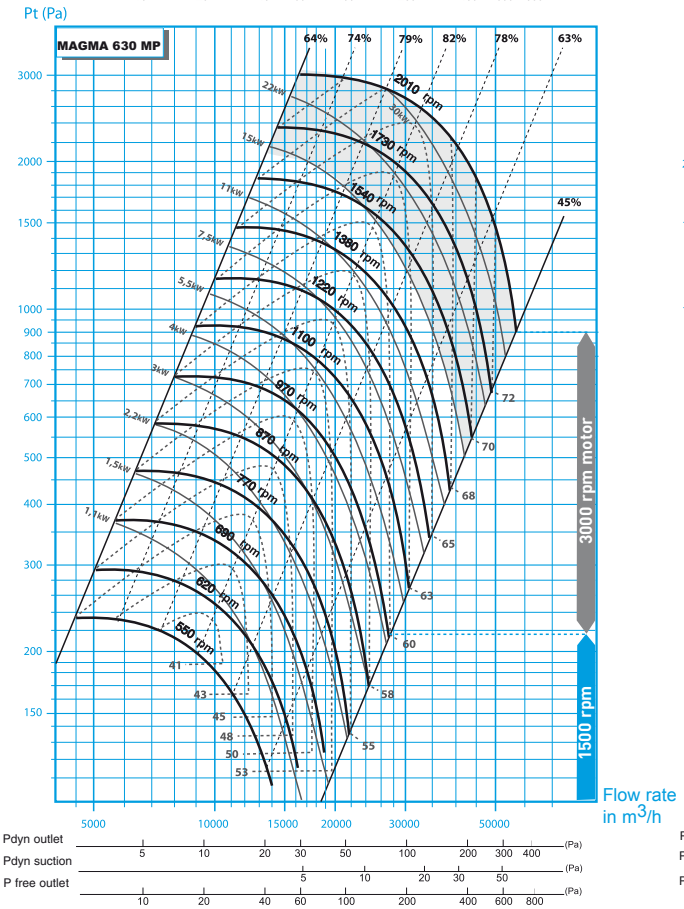
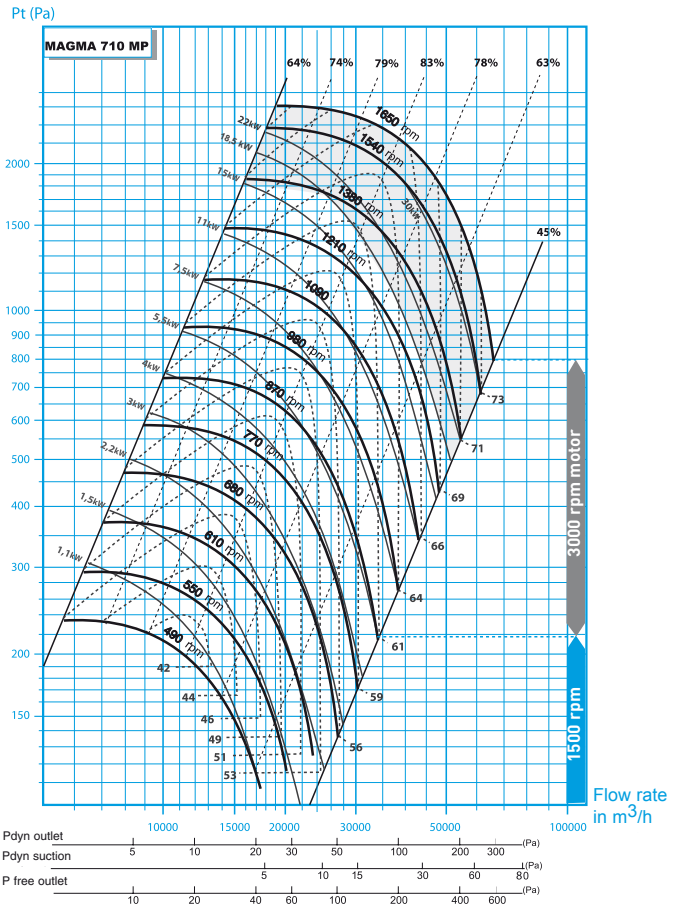
MAGMA









Key
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- - - η ventilation
4 pole motor
2 pole motor
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CASINGS AND DRIVES

Range	Model	Horizontal casing Code	Vertical casing Code
BACKWARD-CURVED IMPELLER	200BP	7340500	7340522
	250BP	7340501	7340523
	280BP	7340502	7340524
	315BP	7340503	7340525
	355BP	7340504	7340526
	400BP	7340505	7340527
	450BP	7340506	7340528
	500BP	7340507	7340529
	560BP	7340508	7340530
	630BP	7340509	7340531
	710BP	7340510	7340532

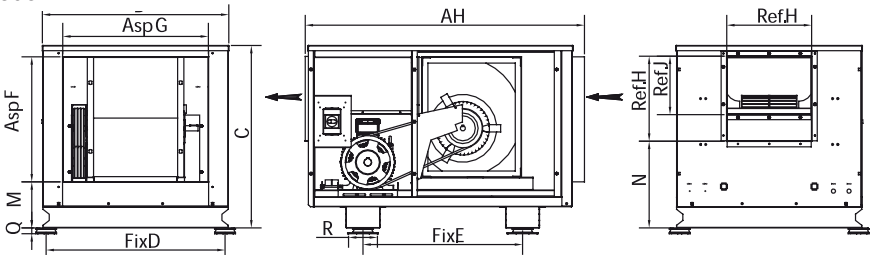
Range	Model	Horizontal casing Code	Vertical casing Code
FORWARD-CURVED IMPELLER	200MP	7340511	7340533
	250MP	7340512	7340534
	280MP	7340513	7340535
	315MP	7340514	7340536
	355MP	7340515	7340537
	400MP	7340516	7340538
	450MP	7340517	7340539
	500MP	7340518	7340540
	560MP	7340519	7340541
	630MP	7340520	7340542
	710MP	7340521	7340543

MOTORS

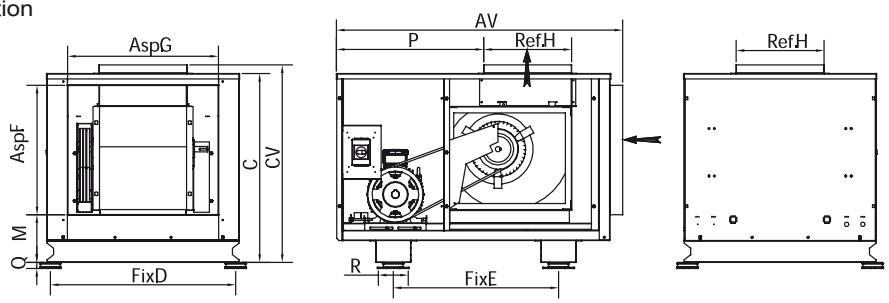
1 SPEED MOTOR						2 SPEED MOTOR					
Capacity	Max speed	N° of poles	Intensity	Code	Motor weight	Capacity	Max speed	N° of poles	Intensité	Code	Motor weight
0.12 kW	1500 rpm	4	0.44 A	7340566	4	0.55 kW	3000 rpm	2/4	1.32 A	7340623	9
0.18 kW	1500 rpm	4	0.58 A	7340567	4.6	0.6 kW	1500 rpm	4/8	1.87 A	7340659	12
0.25 kW	3000 rpm	2	0.66 A	7340546	4.5	0.8 kW	3000 rpm	2/4	2.08 A	7340624	11
0.25 kW	1500 rpm	4	0.71 A	7340568	5.7	0.8 kW	1500 rpm	4/8	2 A	7340660	12
0.37 kW	3000 rpm	2	0.85 A	7340547	5.1	1.1 kW	3000 rpm	2/4	2.51 A	7340625	11
0.37 kW	1500 rpm	4	1.04 A	7340569	6.7	1.2 kW	1500 rpm	4/8	2.94 A	7340661	18
0.55 kW	3000 rpm	2	1.23 A	7340548	7.2	1.5 kW	3000 rpm	2/4	3.78 A	7340626	16
0.55 kW	1500 rpm	4	1.36 A	7340570	9.2	1.6 kW	1500 rpm	4/8	4.05 A	7340662	20
0.75 kW	3000 rpm	2	1.57 A	7340549	12.5	2.2 kW	3000 rpm	2/4	4.91 A	7340627	18
0.75 kW	1500 rpm	4	1.71 A	7340571	13.5	2.2 kW	1500 rpm	4/8	4.9 A	7340663	25
1.1 kW	3000 rpm	2	2.32 A	7340550	14	2.5 kW	3000 rpm	2/4	5.18 A	7340628	23
1.1 kW	1500 rpm	4	2.53 A	7340572	19	2.8 kW	1500 rpm	4/8	6.11 A	7340664	27
1.5 kW	3000 rpm	2	3.01 A	7340551	17.5	3.1 kW	3000 rpm	2/4	6.33 A	7340629	26
1.5 kW	1500 rpm	4	3.19 A	7340573	22	3.8 kW	1500 rpm	4/8	8.2 A	7340665	40
2.2 kW	3000 rpm	2	4.48 A	7340552	21	4.4 kW	3000 rpm	2/4	8.94 A	7340630	39
2.2 kW	1500 rpm	4	4.61 A	7340574	30.5	5 kW	1500 rpm	4/8	10.4 A	7340666	58
3 kW	3000 rpm	2	5.75 A	7340553	28.5	6 kW	3000 rpm	2/4	11.5 A	7340631	55
3 kW	1500 rpm	4	5.94 A	7340575	33	7.2 kW	1500 rpm	4/8	15.3 A	7340667	62
4 kW	3000 rpm	2	7.55 A	7340554	38	8 kW	3000 rpm	2/4	15.1 A	7340632	60
4 kW	1500 rpm	4	7.62 A	7340576	42	11 kW	1500 rpm	4/8	22.5 A	7340668	114
5.5 kW	3000 rpm	2	10.3 A	7340555	60	12 kW	3000 rpm	2/4	23.1 A	7340633	112
5.5 kW	1500 rpm	4	10.6 A	7340577	63	14 kW	1500 rpm	4/8	27.4 A	7340669	134
7.5 kW	3000 rpm	2	13.6 A	7340556	63	16 kW	3000 rpm	2/4	30.7 A	7340634	131
7.5 kW	1500 rpm	4	14.2 A	7340578	72	17 kW	1500 rpm	4/8	33.4 A	7340670	162
9.2 kW	3000 rpm	2	17 A	7340557	70	20 kW	1500 rpm	4/8	38.6 A	7340671	184
9.2 kW	1500 rpm	4	17.7 A	7340579	75	20 kW	3000 rpm	2/4	36.9 A	7340635	181
11 kW	3000 rpm	2	20 A	7340558	104	25 kW	3000 rpm	2/4	45.9 A	7340636	189
11 kW	1500 rpm	4	21 A	7340580	96	28 kW	1500 rpm	4/8	50.6 A	7340672	265
15 kW	3000 rpm	2	27 A	7340559	112	33 kW	3000 rpm	2/4	62.9 A	7340637	251
15 kW	1500 rpm	4	28.4 A	7340581	105	35 kW	1500 rpm	4/8	66.5 A	7340673	265
18.5 kW	1500 rpm	4	34.5 A	7340582	124	37 kW	1500 rpm	4/8	69.5 A	7340674	380
18.5 kW	3000 rpm	2	33.1 A	7340560	164	37 kW	3000 rpm	2/4	66.1 A	7340638	357
22 kW	1500 rpm	4	41.4 A	7340583	164	44 kW	1500 rpm	4/8	82.1 A	7340675	393
22 kW	3000 rpm	2	38.7 A	7340561	186						
30 kW	1500 rpm	4	54.8 A	7340584	226						
30 kW	3000 rpm	2	53.1 A	7340562	222						
37 kW	1500 rpm	4	65.4 A	7340585	255						
37 kW	3000 rpm	2	65.3 A	7340563	342						
45 kW	1500 rpm	4	78.9 A	7340586	356						

DIMENSIONS

Horizontal configuration



Vertical configuration

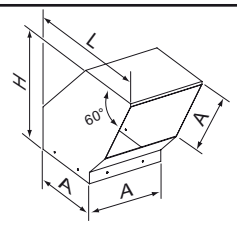


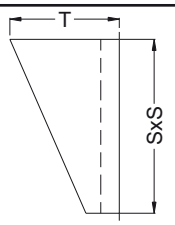
Model	AH	AV	B	C	CV	D	E	F	G	H	J	M	N	P	Q	R	Motor shaft length	Weight (kg)*	
																		Bpmax	Mpmax
200	993	981	595	703	742	555	680	400	500	258	182	249	392	500	28	125	112	73	73
250	1130	1118	727	784	824	679	766	500	600	324	209	221	411	569	28	125	132	77	77
280	1177	1168	824	776	816	780	777	600	700	362	230	146	379	609,5	28	125	132	101	104
315	1342	1329	896	876	916	860	767	600	700	408	281	221	416	683,5	28	125	132	134	134
355	1453	1439	1006	990	1030	966	897	700	800	457	321	221	476	744	28	125	160	175	175
400	1558	1547	1120	1036	1078	1071	926	800	900	509	353	184	471	753	28	125	160	247	247
450	1720	1719	1191	1119	1162	1143	1130	900	1000	570	381	184	486	825	39	182	180	275	275
500	1883	1873	1387	1222	1264	1340	1180	900	1000	640	467	249	521	964	39	182	200	342	347
560	1883	1873	1387	1269	1310	1340	1180	1000	1100	718	505	189	492	999	39	182	200	360	372
630	2113	2104	1575	1464	1473	1507	1016	1200	1300	806	566	177	567	1070	44	240	200	515	531
710	2273	2264	1765	1614	1623	1697	1176	1200	1400	900	661	286	617	1125	44	240	200	619	639

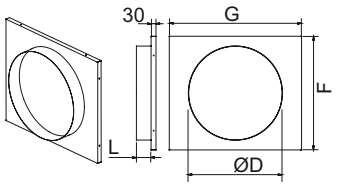
Dimensions in mm

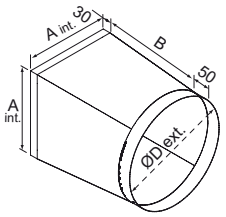
* Fan weight without motor, with drive

ACCESSORIES









BP/MP Type	Vertical rain guard			Horizontal rain guard		Metal connection					
						Intake			dia. D	Discharge	
	A	H	L	S	T	F	G	L		A	B
200	260	387	492	258	211	402	502	80	355	260	355
250	326	473	615	324	242	502	602	80	400	326	400
280	260	387	492	362	260	602	702	80	500	364	500
315	410	587	778	362	260	602	702	80	500	410	500
355	459	653	873	408	281	702	802	80	560	459	560
400	511	720	969	457	304	802	902	65	630	511	630
450	572	800	1083	5090	328	902	1002	100	710	572	710
500	642	893	1217	570	356	902	1002	100	800	642	800
560	720	1000	1370	640	388	1102	1202	100	900	720	900
630	808	1113	1532	718	425	1202	1302	100	1000	808	1000
710	902	1240	1714	806	466	1202	1402	80	1250	902	1250

Dimensions in mm

ASSEMBLY ACCESSORIES AND OPTIONS

Product name		Code	200	250	280	315	355	400	450	500	560	630	710
Anti-vibration mounts		Code	7340762						7340763			7340764	
M0 flexible connection - W: 160 mm - ROUND		Code	7340752	7340753	7340754	7340754	7340755	7340756	7340757	7340758	7340759	7340760	7340761
M0 flexible connection - W: 160 mm - INTAKE side		Code	7340733	7340734	7340735	7340735	7340736	7340737	7340738		7340739	7340740	7340741
M0 flexible connection - W: 160 mm - DISCHARGE side		Code	7340742	7340743	7341318	7340744	7340745	7340746	7340747	7340748	7340749	7340750	7340751
Round connection - INTAKE		Code	7340765	7340766	7340767	7340767	7340768	7340769	7340770	7340771	7340772	7340773	7340774
Round connection - DISCHARGE		Code	7340775	7340776	7341319	7340777	7340778	7340779	7340780	7340781	7340782	7340783	7340784
Rain guard with bird screen for HORIZONTAL motors		Code	7340711	7340712	7340713	7340714	7340715	7340716	7340717	7340718	7340719	7340720	7340721
Rain guard with bird screen for VERTICAL motors		Code	7340722	7340723	7340724	7340725	7340726	7340727	7340728	7340729	7340730	7340731	7340732
Dual-skin insulation		Code	7340796	7340797	7340798	7340799	7340800	7340801	7340802	7340803	7340804	7340805	7340806
Epoxy paint		Code	7340807	7340808	7340809	7340810	7340811	7340812	7340813	7340814	7340815	7340816	7340817
Sealed casing with drain port and inspection hatch - For kitchen use		Code	7340785	7340786	7340787	7340788	7340789	7340790	7340791	7340792	7340793	7340794	7340795

Product name	Max. current	Motor	Codes
 Padlockable proximity switch, not assembled	20 A	1 speed	7348127
	40 A	1 speed	7348128
	63 A	1 speed	7348129
	80 A	1 speed	7348130
	125 A	1 speed	7348131
	20 A	2 speeds	7348132
	40 A	2 speeds	7348133
	63 A	2 speeds	7348134
	80 A	2 speeds	7348135
	125 A	2 speeds	7348136

Product name	Range	Codes
	from 40 to 300 Pa	7348124
	from 100 to 1 000 Pa	7348125
Fitted pressure-drop switch	from 1 000 to 5 000 Pa	7348126

	Product name	Current	Motor	Codes
	Frequency inverter NXL	1.1 kW 3.3A	3-ph 380/500 V IP 54	7256189
		1.5 kW 4.3A		7256190
		2.2 kW 5.6A		7256191
		3 kW 7.6A		7256192
		4 kW 9A		7256193
		5.5 kW 12A		7256194
		7.5 kW 16A		7256195
		11 kW 23A		7256196
		15 kW 31A		7256197
		18.5 kW 38A		7256198
		22 kW 46A		7256199
		30 kW 61A		7256201

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