

PLASTIC

CENTRIFUGALNI VENTILATOR SA LOPATICAMA UNAZAD OD PLASTIČNOG MATERIJALA

BACKWARD CURVED BLADE CENTRIFUGAL FAN IN PLASTIC MATERIAL



APLIKACIJE

Ovi jednostavni ulazni ventilatori sa obrtnim kolom sa obrnutim lopaticama, zbog njihove konstrukcije u potpunosti od plastičnog materijala, koriste se u galvanskoj industriji, baterijama ili gde je potrebno eliminisati korozivne pare ili pare (kiseline, soli, vodena para).

DOMET

Seriya se sastoji od 10 veličina sa prečnikom radnog kola od 200 do 630 mm.

KARAKTERISTIKE

Glavne karakteristike PLASTIC serije su niska potrošnja energije i visoka tišina, a obe su posledica upotrebe lopatica sa pozadinskim lopaticom visokih performansi.

Još jedna prednost predstavlja mogućnost variranja orijentacije od 45° do 45° bez ikakvih ometanja stolice za podršku ventilatora.

KONSTRUKCIJA

- Radno kolo zakrivljeno unazad od oblikovanog polipropilena (PP).
- Vijak od livenog polietilena (PE).
- Nosač ventilatora od čeličnog lima tretiranog epoksidnim prahom.
- Vijci od nerđajućeg čelika.
- Asinhroni elektromotor, S1 servis, naizmjenična struja, IP 55
- zaštitna klasa F izolacija, oblik B5, konstrukcija u skladu sa IEC/EEC (UNEL-MEC) standardima
- Izvedba 5 (direktna spojnica sa konzolnim radnim kolom)

TEHNIČKE SPECIFIKACIJE

PLASTIC standard

- Preneti vazduh: korozivno (sa izuzetkom nekih supstanci) ali ne abrazivno.
- Temperatura transportovanog vazduha: - 20 ° C / + 60 ° C
- Napon:
 - Trofazna verzija (T) 400V-50Hz.
 - Monofazna verzija (M) 230V-50Hz.
- Standardna orijentacija: LG 270°

PRIBOR

- Antivibracioni spojevi: FC-PL
- Gravitacioni zatvarač: GS-PL
- Amortizer sa ručnim upravljanjem: MAN-PL
- Zaštitne mreže: PG-PL (neophodne za upotrebu sa slobodnim ustima)

NA ZAHTEV

- Verzije sa šrafo od antistatičkog i vatrostalnog polietilena AST.
- Verzije sa polipropilenskim zavrtnjem: PP
- Verzije sa stolicom od nerđajućeg čelika: PLASTIC-S INOKS
- Verzije otporne na eksploziju ATEX 3G.

NAPOMENA

PLASTIČNI proizvodi nisu pogodeni ERP direktivom 2009/125/EZ. PLASTIČNI vod mora uvek biti povezan sa kanalima ili komponentama čiji padovi pritiska smanjuju protok, tako da vrednosti potrošnje struje (A) budu u granicama naznačenim na natpisnoj pločici motora.

APPLICATIONS

These single inlet centrifugal fans with backward curved blade impeller, thanks to their construction completely made in plastic material are used in chemical or galvanic industries or whenever there is necessity to exhaust corrosive smoke and vapours (acid, salt, etc).

RANGE

This line consists of 10 sizes with impeller diameter from 200 to 630 mm.

ADVANTAGES

The main features of PLASTIC line are the very low electrical consumption and the reduced noise level, due to the high efficiency of the backward curved blade impellers. Another advantage is the possibility to adjust the discharge position in steps of 45° each (without any contact with the fan support).

CONSTRUCTION

- Backward curved blade impeller in moulded polypropylene (PP).
- Casing in moulded polyethylene (PE) .
- Fan support in epoxy painted steel sheet.
- Screws in stainless steel.
- Asynchronous electric motor, protection IP55, insulation class F, service S1, mounting type B5, construction in conformity to IEC/EEC (UNEL-MEC).
- Arrangement 5 (impeller directly coupled to motor shaft).

TECHNICAL SPECIFICATIONS

PLASTIC standard

- Conveyed air: corrosive (except for few substances) not abrasive.
- Temperature of conveyed air: -20°C/+60°C
- Voltage:
 - Three phase version (T) 400V-50Hz.
 - Mono-phase version (M) 230V-50Hz.
- Standard discharge angle: LG 270°.

ACCESSORIES

- Inlet and out let flexible connections: FC-PL.
- Gravity shutter: GS-PL.
- Manual setting shutter: MAN-PL.
- Protection guards: PG-PL (Necessary for use in free air).

ON REQUEST

- Versions with casing in antistatic and self extinguishing polyethylene AST.
- Versions with casing in polypropylene: PP.
- Versions with fan support in stainless steel: PLASTIC-S INOX.
- Explosion proof ATEX 3G versions.

NOTES

PLASTIC are not affected by ERP Directive 2009/125/EC. PLASTIC line must always be operated connected to ducts or components whose pressure drops reduce the flow rate so that the current consumption values (A) are within the limits indicated on the motor nameplate

PLASTIC

SMERNICE -
DISCHARGE ANGLES

RD	RD 0	RD 45	RD 90	RD 135	RD 180	RD 225	RD 270	RD 315
LG	LG 0	LG 45	LG 90	LG 135	LG 180	LG 225	LG 270	LG 315

PLASTIC

PERFORMANSE - PERFORMANCES

1 Mm H₂O = 9,8 Pa

Performanse prikazane na dijagramima odnose se na vazduh na temperaturi od 15 °C i nadmorskoj visini od 0 m., a dobijeni su u instalacijama tipa "D" u nedostatku mreže i pribora.

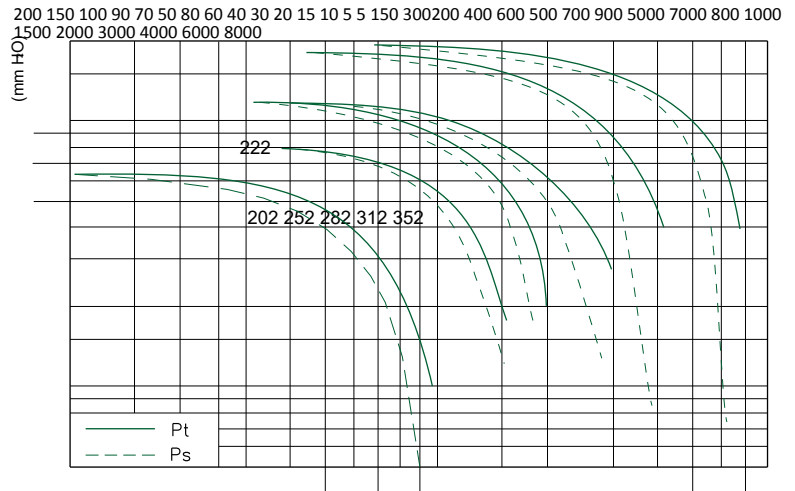
Performances shown in the selection diagrams refer to air at 15°C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

2 POLA / POLES (3000 RPM)

M: MONOFAZNO / SINGLE-PHASE (1Ph-230V-50Hz)

T: TROFAZNO / THREE-PHASE (3Ph-400V-50Hz)

Model Model	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))
202 M	0,18	1,65	63	62
202 T	0,18	0,55	63	62
222 M	0,25	1,85	63	68
222 T	0,25	0,65	63	68
252 M	0,37	3,1	71	71
252 T	0,37	1	71	71
282 M	0,75	5,2	80	75
282 T	0,75	1,9	80	75
312 M	1,5	9,5	90	79
312 T	1,5	3,2	90	79
352 T	2,2	4,7	90	80

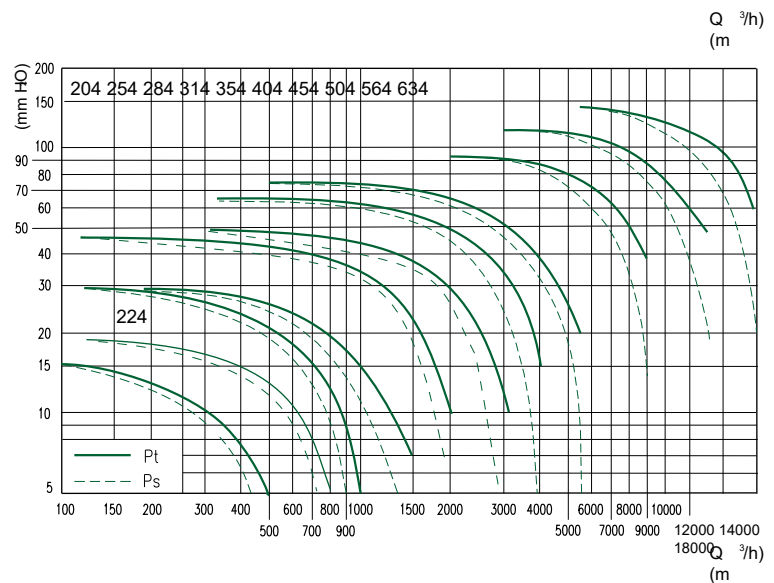


4 POLA / POLES (1500 RPM)

M: MONOFAZNO / SINGLE-PHASE (1Ph-230V-50Hz)

T: TROFAZNO / THREE-PHASE (3Ph-400V-50Hz)

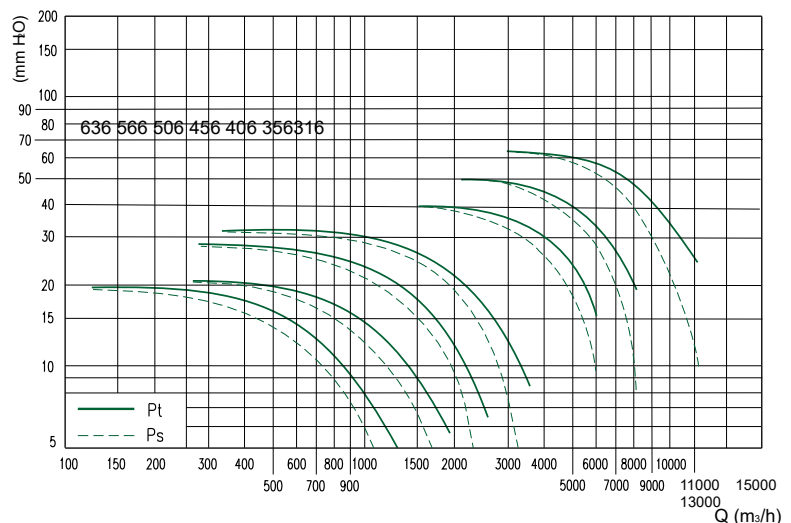
Model Model	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))
204 M	0,12	1,1	63	51
204 T	0,12	0,4	63	51
224 M	0,12	1,1	63	51
224 T	0,12	0,4	63	51
254 M	0,12	1,1	63	54
254 T	0,12	0,4	63	54
284 M	0,18	1,65	63	55
284 T	0,18	0,6	63	55
314 M	0,25	2,5	71	59
314 T	0,25	0,85	71	59
354 M	0,37	3,3	71	62
354 T	0,37	1,1	71	62
404 M	0,55	4,4	80	65
404 T	0,55	1,5	80	65
454 T	1,1	2,6	90	67
504 T	2,2	4,8	100	69
564 T	4	8,3	112	72
634 T	5,5	11	132	79



6 POLA / POLES (1000 RPM)

T: TROFAZNO / THREE-PHASE (3Ph-400V-50Hz)

Model Model	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))
316 T	0,18	0,7	71	52
356 T	0,18	0,7	71	53
406 T	0,25	0,95	71	56
456 T	0,37	1,25	80	57
506 T	0,55	1,8	80	59
566 T	1,1	2,9	90	63
636 T	2,2	4,8	112	69



Rpm = Nazivna brzina motora

Pm = Snaga motora

In = Potrošnja struje

Lp = nivo zvučnog pritiska u slobodnom polju na 1,5 m od ventilatora sa kanalnim otvorima.

Rpm = Nominal motor speed

Pm = Motor power

In = Absorbed current

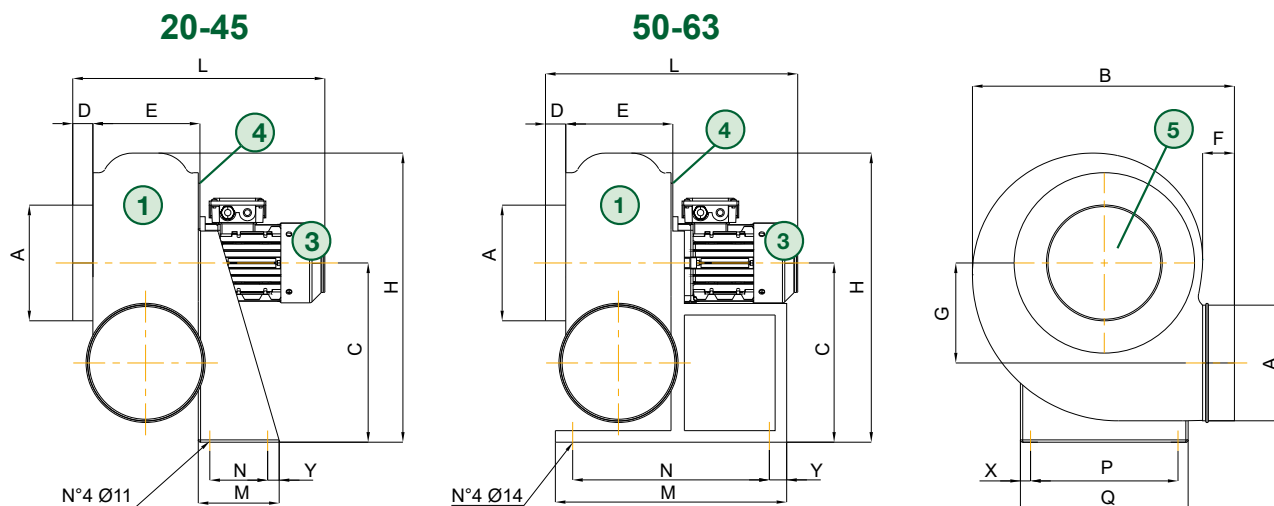
Lp = Sound pressure level in free field at 1.5 m distance from the fan, with ducted inlet and outlet.

Tolerancije: aerodinamičke performanse i buka su unutar tolerancija navedenih u DIN 24166, klasa 2

TOLERANCES: performances and sound power levels within the tolerances allowed by the DIN 24166 standard for Class 2.

PLASTIC

DIMENZIJE - DIMENSIONS



Model Model	AØ	B	C	D	E	F	G	H	L	M	N	Y	P	Q	X	Kg
20	160	373	250	35	160	55	140	400	390	140	100	20	200	235	17,5	9
22/25	200	453	310	35	185	55	173	500	430	140	100	20	255	290	17,5	1013
28	225	515	350	40	195	70	208	560	475	190	120	35	280	316	18	1419
31	250	560	410	40	200	70	240	640	530	230	150	40	320	355	17,5	1926
35	280	597	445	40	237	55	260	715	567	230	150	40	355	390	17,5	2332
40	315	675	495	40	252	55	290	790	532	250	170	40	325	365	20	3033
45	355	750	550	40	287	55	324	880	617	250	170	40	370	410	20	3740
50	400	840	630	50	355	60	360	1025	729	640	577	25	289	325	18	6270
56	450	930	710	50	365	60	410	1120	760	695	647	25	289	325	18	87110
63	500	1100	800	50	415	60	450	1300	852	740	697	25	337	372	18	102112

- 1 Kućište - Casing
- 2 Podrška za ventilator - Fan support
- 3 Motor - Motor
- 4 Disk za zatvaranje sa zaptivkom - Closing back disc with gasket
- 5 Impler - Impeller

Dimenzionalne tolerancije u ± 5 mm - Dimensional tolerances ± 5 mm

PLASTIC

PRIBOR - ACCESSORIES

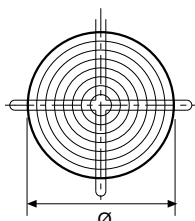
MAN-PL

Ručna kontrola amortizera
Manual setting shutter



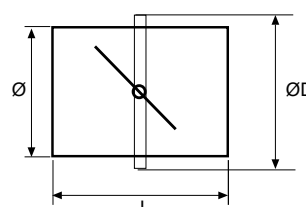
PG-PL

Zaštitna rešetka (obavezna za slobodan vazduh)
Protection grid (mandatory for free air)



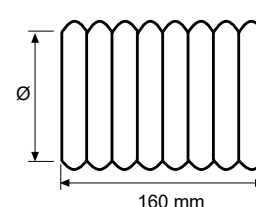
GS-PL

Gravitacioni zatvarač
Gravity shutter



FC-PL

Antivibracioni spoj
Flexible connections



Model Model	20	22/25	28	31	35	40	45	50	56	63
Ø	160	200	225	250	280	315	355	400	450	500
L	120	120	120	120	140	140	140	140	440	480
D	240	280	305	330	360	435	475	520	570	620
M	200	200	200	200	200	210	210	210	210	210