

# PLASTIC-ROOF

## CENTRIFUGALNI KROVNI VENTILATOR SA UNAZAD ZAKRIVLJENIM LOPTICAMA OD PLASTIKE

## CENTRIFUGAL ROOF FAN BACKWARD CURVED BLADE IN PLASTIC MATERIAL



### APLIKACIJE

Ovi centrifugalni ventilatori sa jednim usisom i unazad zakrivljenim lopaticama, zahvaljujući svojoj konstrukciji u potpunosti napravljenoj od plastičnog materijala, koriste se u hemijskoj ili galvanjskoj industriji ili kad god je potrebno usisavanje korozivnog dima i isparenja (kiselina, so, itd.).

### DOMET

Ova linija se sastoji od 8 veličina sa prečnikom radnog kola od 200 do 450 mm.

### KARAKTERISTIKE

Glavne karakteristike linije PLASTIC-ROOF su veoma niska potrošnja električne energije i smanjen nivo buke, zbog visoke efikasnosti radnog kola sa unazad zakrivljenim lopaticama.

### KONSTRUKCIJA

- Ravno zakrivljeno radno kolo od livenog polipropilena (PP).
- Kućište od livenog polietilena (PE).
- Nosač ventilatora od čeličnog lima obojenog epoksidnom bojom.
- Vijci od nerđajućeg čelika.
- Asinhroni elektromotor, zaštita IP55, klasa izolacije F, servis S1, tip montaže B5, konstrukcija u skladu sa IEC/EEC (UNEL-MEC).
- Raspored 5 (impeler direktno spojen sa vratilom motora).

### TEHNIČKE SPECIFIKACIJE

PLASTICROOF standard

Transportovani vazduh: korozivan (osim za nekoliko supstanci) nije abrazivan.

– Temperatura transportovanog vazduha: -20°C/+60°C.

– Napon:

Trofazna verzija (T) 400V-50Hz.

Monofazna verzija (M) 230V-50Hz.

### PRIBOR

- Ulazni i izlazni fleksibilni priključci: FC-PL.
- Gravitacioni zatvarač: GS-PL.
- Ručno podešavanje zatvarača: MAN-PL.
- Zaštitni štitnici: PG-PL (Neophodni za upotrebu na otvorenom vazduhu).

### NA ZAHTEV

- Verzije sa kućištem od antistatičkog i samogasivog polietilena AST.
- Verzije sa kućištem od polipropilena: PP.
- Eksploziona otporne ATEX 3G verzije.

### NAPOMENA

PLASTIC-ROOF su nije pogodeno ERP direktivom 2009/125/CE

### 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 8 sizes with impeller diameter from 200 to 450 mm.*

### ADVANTAGES

*The main features of PLASTIC-ROOF line are the very low electrical consumption and the reduced noise level, due to the high efficiency of the backward curved blade impellers.*

### 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-ROOF 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.

### 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.
- Explosion proof ATEX 3G versions.

### NOTE

PLASTIC-ROOF are not affected by ERP Directive 2009/125/CE.

# PLASTIC-ROOF

## PERFORMANSE - PERFORMANCES

1 Mm H<sub>2</sub>O = 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.

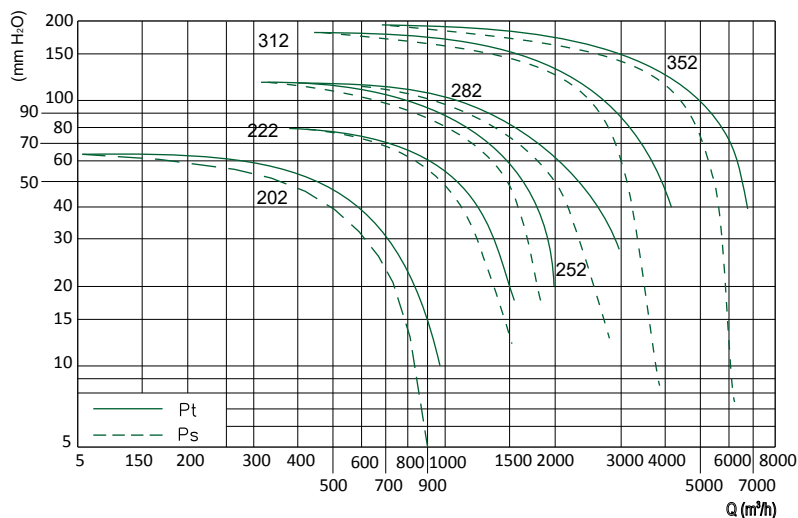
Performances shown in the selection diagrams refer to air at 15°C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

### 2 POLAC/ 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

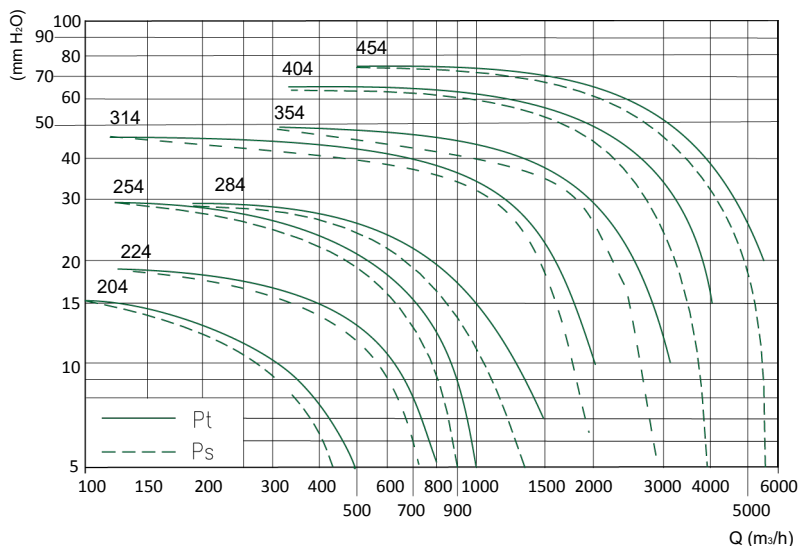


### 4 POLA / POLES (1500 RPM)

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

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

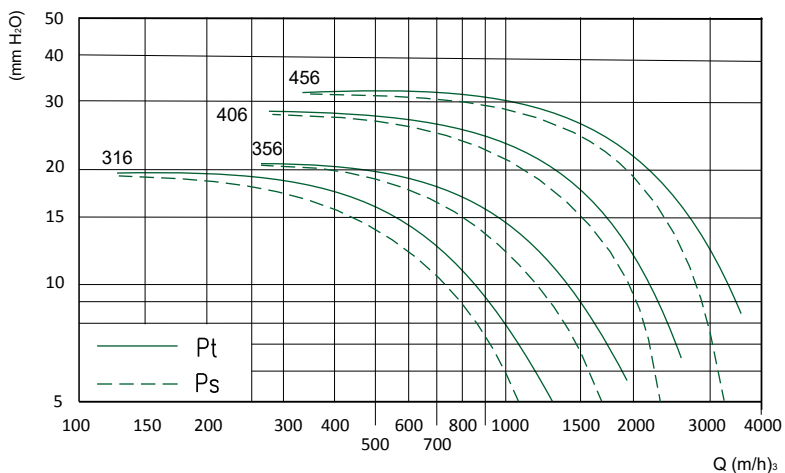
Model Model	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))
204 M	0,12	1,1	63	51
204 T	0,12	0,4	63	51
224 M	0,12	1,1	63	51
224 T	0,12	0,4	63	51
254 M	0,12	1,1	63	54
254 T	0,12	0,4	63	54
284 M	0,18	1,65	63	55
284 T	0,18	0,6	63	55
314 M	0,25	2,5	71	59
314 T	0,25	0,85	71	59
354 M	0,37	3,3	71	62
354 T	0,37	1,1	71	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



### 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



Rpm = Nominalna brzina motora

Pm = Snaga motora

In = Apsorbovana struja

Lp = Nivo zvučnog pritiska u slobodnom polju na udaljenosti od 1,5 m od ventilatora, sa ulazom i izlazom u kanalu.

Rpm = Nominal motor speed

Pm = Motor power

In = Absorbed current

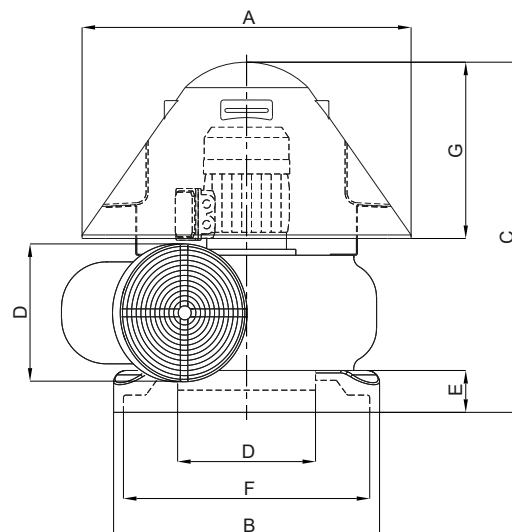
Lp = Sound pressure level in free field at 1.5 m distance from the fan, with ducted inlet and outlet.

**TOLERANCIJE:** performanse i nivoi zvučne snage u okviru tolerancija dozvoljenih standardom DIN 24166 za klasu 2.

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

**PLASTIC-ROOF****DIMENZIJE - DIMENSIONS**

Model Model	Gr.	kW	rpm	AxA	BxB	C	ØD	e	FxF	G	Kg*	Kg**
202	63	0,18	2750	570	540	550	160	85	500	320	15	23
204	63	0,12	1450	570	540	550	160	85	500	320	15	23
222	63	0,25	2800	570	540	580	200	85	500	320	19	26
224	63	0,12	1370	570	540	580	200	85	500	320	16	24
252	71	0,37	2800	570	540	580	200	85	500	320	19	26
254	63	0,12	1370	570	540	580	200	85	500	320	16	24
282	80	0,75	2850	570	540	600	225	85	500	320	25	39
284	63	0,18	1370	570	540	600	225	85	500	320	20	29
312	90	1,5	2850	670	540	610	250	85	500	360	32	51
314	71	0,25	1400	670	540	610	250	85	500	360	25	36
316	71	0,18	930	670	540	610	250	85	500	360	25	36
352	90	2,2	2870	670	540	640	280	85	500	360	38	57
354	71	0,37	1400	670	540	640	280	85	500	360	29	40
356	71	0,18	930	670	540	640	280	85	500	360	29	40
404	80	0,55	1410	670	750	685	315	100	700	360	42	56
406	71	0,25	920	670	750	685	315	100	700	360	39	50
454	90	1,1	1410	670	750	710	315	100	700	360	49	70
456	80	0,37	920	670	750	710	315	100	700	360	46	60



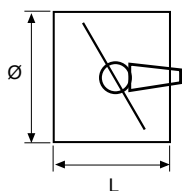
- 1 Kućište - Casing
- 2 Podrška navijača - Fan support
- 3 Motor - Motor
- 4 Zatvarajući zadnji disk sa zaptivkom - Closing back disc with gasket
- 5 Imper - Impeller

Standardna izvedba / \*\*ATEX izvedba. - \*Standard execution / \*\*ATEX execution.

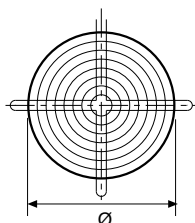
Dimenzionalne tolerancije u  $\pm 5$  mm - Dimensional tolerances  $\pm 5$  mm

**PLASTIC-ROOF****ACCESSORI - ACCESSORIES****MAN-PL**

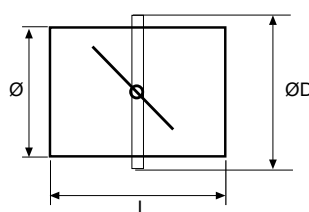
Ručno podešavanje zatvarača  
Manual setting shutter

**PG-PL**

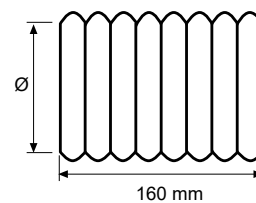
Zaštitna rešetka (obavezna za slobodan vazduh)  
Protection grid (mandatory for free air)

**GS-PL**

Gravitacioni zatvarač  
Gravity shutter

**FC-PL**

Fleksibilne veze  
Flexible connections



Model Model	20	22/25	28	31	35	40	45
Ø	160	200	225	250	280	315	355
L	120	120	120	120	140	140	140
D	240	280	305	330	360	435	475
M	200	200	200	200	200	210	210