



## Aksijalni ventilator za parkirališta prema EN 12101-3 Axial fan for parking systems according to EN 12101-3

### APLIKACIJE I PREDNOSTI

Impulsni ventilatori JP-DUCT se koriste u prisilnoj ventilaciji podzemnih parkinga, za uklanjanje najčešćih zagađivača prisutnih u garažama (npr. CO), a u slučaju požara takođe mogu intervenisati da bi sprečili i ograničili štetu na imovini. I ljudi: stvorite puteve za bekstvo od toksičnih isparenja, izbegavajte širenje na susedna područja itd. Karakteristiku impulsnih ventilatora JP-DUCT daje odsustvo kanala što nudi niz prednosti, kao što su:

- Značajno smanjenje troškova i vremena ugradnje.
- Smanjenje operativnih troškova, zapravo je moguće provetravati ili izvlačiti čak i samo u nekim delovima podzemne garaže gde je to zaista neophodno.
- Veća lakoća uklanjanja i samim tim niži troškovi u slučaju modifikacije ili izmeštanja sistema.

JP-DUCT su dizajnirani i izgrađeni u skladu sa novim evropskim standardom EN 12101-3, dobijajući sertifikat od kvalifikovanog autonomnog tela. Serija je pogodna za kontinuirani rad na temperaturi od 40°C i u slučaju nužde (požar) na temperaturi od:

- 200 ° za 120 minuta (F200)
- 300 ° C tokom 60 minuta (F300) testirano 300 ° C / 120'
- 400 ° C 120 minuta (F400).

Ovaj koncept dvostrukog rada preveden je tačno terminom "dvostruka namena" koji je u ovom slučaju uveden standardom EN 12101-3.

### DOMET

Serija se sastoji od 3 veličine, sa prečnikom radnog kola: od 315 mm do 400 mm

- Motori su 2-polni jednobrzinski, 2/4-polni dvobrzinski dahlander sa jednim namotajem.

- Dostupne su u verziji:

jednosmerni (JP-DUCT / U)

potpuno reverzibilni protok (JP-DUCT / R), standard za kontinuirani rad u S1 do +40 °C požarna opasnost za S2 rad

na 200 ° C / 120' (F200) sa sertifikatom EN 12101-3.

na 300 ° C / 60' (F300) sertifikovano EN 12101-3 (testirano 300 ° C / 120')

na 400 ° C / 120' (F400) sertifikovano EN 12101-3.

### KONSTRUKCIJA

Osnovne komponente JP-DUCT su:

- Transporter od čeličnog lima zaštićen od atmosferskih uticaja.
- Radno kolo visokih performansi od livenog aluminijuma sa lopaticama od aeroprofila, sa promenljivim uglom nagiba kada miruje. Balansiranje prema UNI ISO 21940-11 standardima.
- Trofazni asinhroni elektromotor, IP 55, oblik B3, konstrukcija u skladu sa standardima IEC/EEC, pogodan i sertifikovan za rad na temperaturi od 40°C u neprekidnom radu i 200°C za 120' ili 300°C za 120' ili 400 ° C za 120' u slučaju nužde.
- Izvedba 4 (direktna spojnica sa konzolnim radnim kolom)
- 2 cilindrična prigušivača od pocinkovanog lima pričvršćena na krajeve ventilatora.
- Sistem za pričvršćivanje plafona.
- Usisna zaštitna mreža i deflektor za isporuku (JP-DUCT / U) ili 2 deflektora za reverzibilnu verziju (JP-DUCT / R).

### TEHNIČKE SPECIFIKACIJE

- Preneti vazduh: čist, neabrazivan
- Napon i frekvencija napajanja:
  - trofazni (T) 400V / 50 Hz.

### NA ZAHTEV

- Usnik za usisavanje.
- Servisni prekidač je povezan.
- Ožičeni spoljni terminalni blok.

### APPLICATIONS AND ADVANTAGES

Impulse fans JP-DUCT are used in the forced ventilation of car parks, to remove the most common pollutions (ex. CO) and in case of emergency (fire) it activates to prevent and restrict the damages to people and objects: creating escape routes from toxic smokes, preventing the propagation in the adjacent zones etc.

Impulse fan JP-DUCT has the main characteristic to be ductless, offering a series of advantages as:

- remarkable saving in times and costs of installation.
- saving in running costs, possibility to ventilate or extract only specific areas of the garage, where it is effectively required.
- Ease of removal with consequent lower costs of maintenance or displacement of the plant.

JP-DUCT have been designed and manufactured in accordance with the new European Directive EN 12101-3 obtaining the certification by an independent certification body.

This line is suitable to S1 service (continuous operation) at the temperature of 40°C and S2 service in case of emergency (fire) at the temperature of:

- 200°C for 120 minutes (F200)
- 300°C for 60 minutes (F300) tested 300°C/120'
- 400°C for 120 minutes (F400).

The notion of double operation is exactly translated by the term "dual purpose" introduced in this case by the Directive EN 12101-3.

### RANGE

This line consists of 3 sizes, impeller diameter : from 315 mm to 400 mm

- Motors are 2 poles single speed, 2/4 poles double polarity tapped winding.

- Available versions :

uni - directional (JP-DUCT/U )

reversible airflow (JP-DUCT/R) .

standard for operation S1 up to +40°C - Smoke exhaust operation S2 200°C/120' (F200) certified EN 12101-3.

300°C/60' (F300) certified EN 12101-3 (tested 300°C/120')

400°C/120' (F400) certified EN 12101-3.

### CONSTRUCTION

■ Casing in metal sheet protected against the atmospheric agents.

■ High efficiency impeller in die cast aluminum alloy with airfoil blades and variable pitch angle in still position. Balancing according to UNI ISO 21940-11.

■ Asynchronous three phase electrical motor, IP 55, mounting type B3, construction according to IEC/EEC directives, suitable and certified to operate in S1 service (continuous running) up to the maximum temperature of 40°C and S2 service in case of fire emergency for 200°C for 120 minutes or 300°C for 120' or 400°C for 120'.

■ Arrangement 4 (impeller directly coupled to the motor shaft)

■ N.2 cylindrical silencers in galvanized steel sheet directly flanged to the fan.

■ Ceiling fixing system.

■ Inlet protection grid and outlet deflector (JP-DUCT/U) or

n.2 deflectors for reversible (JP-DUCT/R).

### TECHICAL SPECIFICATIONS

■ Conveyed air: clean, not abrasive.

■ Voltage and frequency:

- three-phase (T) 400V/50 Hz.

### ON REQUEST

■ Inlet cone.

■ Service switch wired.

■ External terminal box wired.

# JP-DUCT Performanse

## Performances

Model	Potisak thrust (N)	Protok vazduha Flow rate (m <sup>3</sup> /h)	Snaga motora Pm mptpr (kW)	Brina vetra air speed (m/s)	In max (A)	Brzina speed rpm	Lp dB(A)	kg
JP-DUCT/U 312	27	4.600	0,75	17	1,5	2.820	62	67
JP-DUCT/U 312/4	27/6,7	4.600/2.300	0,8/0,2	17/8,5	2/0,6	2.820/1.400	62/44	67
JP-DUCT/U 352	35	6.000	1,1	17	2,3	2.820	66	75
JP-DUCT/U 352/4	35/8,7	6.000/3.000	1,1/0,25	17/8,5	2,4/0,7	2.810/1.400	66/48	75
JP-DUCT/U 402	61	9.000	1,5	20	3,5	2.850	69	90
JP-DUCT/U 402/4	61/15,30	9.000/4500	1,5/0,35	20/10	3,5/1,2	2.850/1.452	69/50	90
JP-DUCT/U 402	75	10.000	2,2	22	4,5	2.845	71	92
JP-DUCT/U 402/4	75/19	10.000/5.000	2,2/0,5	22/11	4,6/1,5	2.845/1.420	71/51	92
JP-DUCT/R 312	20	4.000	0,75	14,6	1,5	2.820	62	68
JP-DUCT/R 312/4	20/5	4.000/2.000	0,8/0,2	12/6,15	1,9/0,6	2.820/1.400	62/44	68
JP-DUCT/R 352	35	6.000	1,1	17	2,3	2.820	66	76
JP-DUCT/R 352/4	35/8,7	6.000/3.000	1,1/0,25	17/8,5	2,4/0,7	2.810/1.400	66/48	76
JP-DUCT/R 402	54	8.500	1,5	18,7	3,5	2.850	69	92
JP-DUCT/R 402/4	54/13,5	8.500/4.250	1,5/0,35	18,7/9,35	3,5/1,2	2.850/1.425	69/50	92
JP-DUCT/R 402	63	9.300	2,2	20	4,5	2.845	71	94
JP-DUCT/R 402/4	63/16	9.300/4.650	2,2/0,6	20/10	4,6/1,5	2.845/1.420	71/51	94

Performanse se odnose na verzije F200 i F300 / Performances related to F200 and F300 versions

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

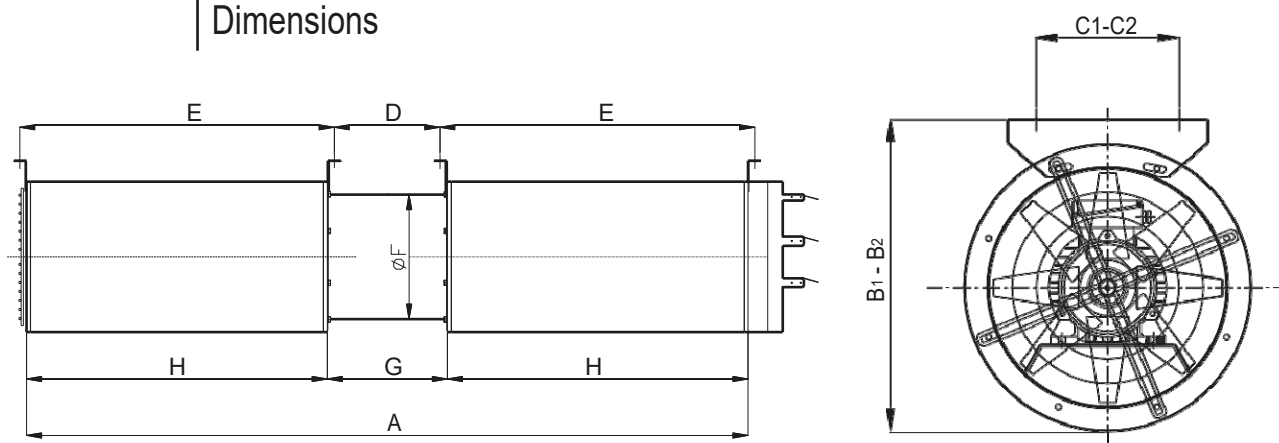
**Tolerances:** performances and sound power levels within the tolerances allowed by the DIN 24166 standard for Class 2.

**Upozorenje:** nivo zvučnog pritiska se odnosi na omnidirekciono merenje u slobodnom polju na 3 m od ventilatora.

**Attention:** sound pressure level is measured in free field at 3 m from the fan, in any direction.

# JP-DUCT Dimenzije

## Dimensions



Model	A	B1*	B2	C1*	C2	D	E	F	G	H	I
JP-DUCT 310	1.520	410	465	360	250	212	-	315	260	630	80
JP-DUCT 350	1.660	445	510	400	250	212	-	360	260	700	80
JP-DUCT 400	2.000	495	560	450	250	352	848	410	400	800	80

Dimenzije u mm/Dimensions in mm - Toleranza ± 5 mm/Tolerance ± 5 mm

\* Kompaktna verzija - Slim version

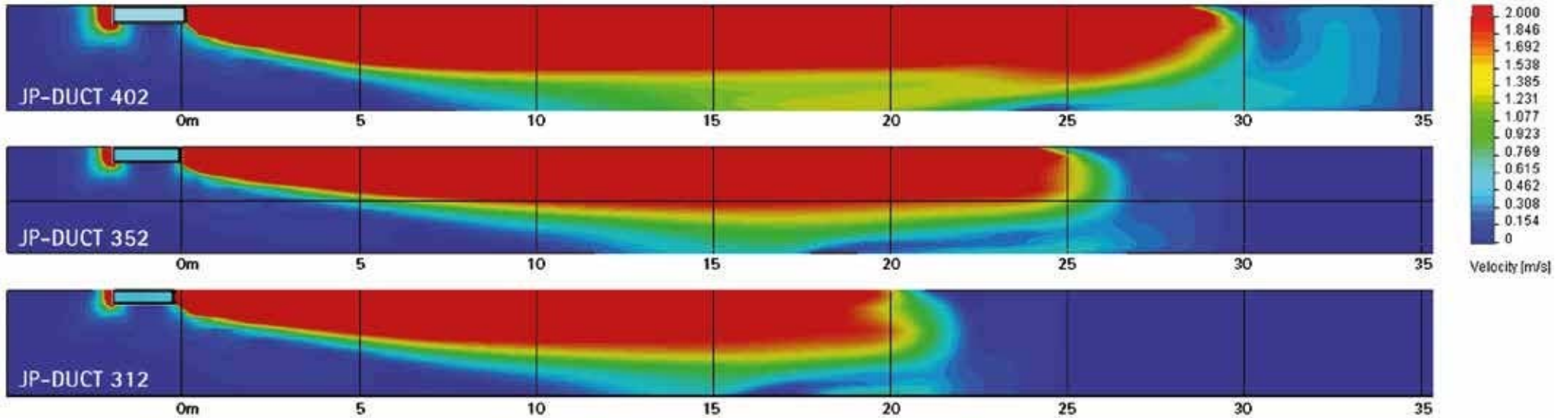
## JP-DUCT

## Profili brzine

## Discharge patterns

Dati ottenuti tramite Analisi CFD • Data are obtained by CFD Analysis

Max brzina vazduha: 2 m/s • Max Air speed: 2 m/s



Max brzina vazduha: 4 m/s • Max Air speed: 4 m/s

