



OSNOVNI PODACI :

Centrifugalni ventilatori serije DIC su dizajnirani za transport korozivnog dima do maksimalne temperature od 80°C. Ugrađuju se u industrijske objekte, gdje je zahtev "manja vazдушna zapremina uz ograničeni vazdušni pritisak". Motor je direktno spregnut. Kućište se lako okreće, u položaju od 45°, 180° i 225°.

KONSTRUKCIJA :

- Spiralno kućište od AISI304 nerđajuće čelične ploče.
- Jedan ulazni otvor, radno kolo sa unapred zakrivljenim lopaticama, od nerđajućeg čelika AISI304 sa konstantnom debljinom.
- Izvedba 5 (direktno spajanje sa rotorom pomoću okvira motora) rotacija LG270°.
- Trofazni ili monofazni asinhroni motor koji odgovara propisima IEC34-IEC72 i 89/392EEC-89/336EEC-73/23EEC, sa oznakom kvaliteta CE. Kalup B3, IP55, klase F. DIC 100 T i M, motor sa kalupom B14, klase B. Pogodni su za S1 režim (neprekidan rad pri stalnom opterećenju).

DODATNI DELOVI :

- Zaštitna rešetka na ulaznom otvoru odgovara propisu UNI9219-DIN31001, od AISI304 nerđajućeg čelika.
- Zaštitna rešetka na izlaznom otvoru odgovara propisu UNI9219DIN31001, od AISI304 nerđajućeg čelika.
- Staljak motora od čelične ploče za zaštitu protiv atmosferskih agenasa.

NA ZAHTEV :

- DIC 100 sa trofaznim ili monofaznim asinhronim motorom odgovara internacionalnim propisima IEC34-IEC72 i 89/392EEC-89/336EEC-73/23EEC i ima oznaku CE. Kalup B3/5, IP55, klase F (DIC 100 MEC-INOX).
- Verzija sa eksplozivnom zaštitom sa trofaznim ili monofaznim asinhronim motorom tipa EEx-d IIB T3, odgovara internacionalnim propisima IEC34-IEC72 i 89/392EEC-89/336EEC-73/23EEC, sa sertifikatom CESI I oznakom CE, IP55, klase F (DIC-ATEX).

INSTALACIJA :

Centrifugalni ventilatori sa unapred zakrivljenim lopaticama i sa radijalnim lopaticama, uvek moraju biti povezani na kanalni sistem, koji preko prigušivača ili svojom otpornošću mogu ograničiti protok vazduha da bi dostigli usisno strujanje nominalne vrednosti motora. Kod pravilno dizajniranog sistema takav način rada se uspostavlja u radnoj tački.

GENERAL DESCRIPTION

The centrifugal fans of the DIC series are designed for conveyance of corrosive smoke, up to maximum temperature of 80°C. They are installed in all the industrial applications where little air volumes and limited pressures are required. The motor is directly coupled. The case is easily revolving, also at site, by 45° steps, 180° and 225° included.

CONSTRUCTION

- Volute in folded stainless steel AISI304 sheet.
- Single inlet forward bladed impeller (sirocco), in stainless steel AISI304, with constant width.
- Execution 5 (direct coupling with impeller protruding on flanged motor), rotation LG270°.
- Three-phase or mono-phase asynchronous motor according to IEC34-IEC72 and 89/392EEC-89/336EEC-73/23EEC standards, CE marked. Form B3/5, IP55, class F. DIC 100 T e M with motor form B14, IP44, class B. All suitable for S1 service (continuous working at constant load).

ACCESSORIES

- Inlet protection guard according to UNI9219-DIN31001 standard, in stainless steel AISI304.
- Outlet protection guard according to UNI9219-DIN31001 standard, in stainless steel AISI304.
- Motor support in steel sheet protected against atmospheric agents.

UPON REQUEST

- DIC 100 with three-phase or mono-phase asynchronous motor according to international standards IEC34-IEC72 and 89/392EEC-89/336EEC-73/23EEC and marked CE. Form B3/5, IP55, class F (DIC 100 MEC-INOX).
- Explosion proof version, with three-phase or mono-phase asynchronous motor type EEx-d IIB T3, according to international standards IEC34-IEC72-IEC79 and 89/392EEC-89/336EEC-73/23EEC, with CESI certificate and marked CE. IP55, class F (DIC-ATEX).

INSTALLATION

The centrifugal fans with forward curved blades and radial blades must always be connected to ducts, or systems, which, with their own resistance or through dampers, can limit the air flow to reach the absorbed current values rated on the motor plate. In a system correctly designed such condition corresponds to the working point.

UGLOVI ISPUŠTANJA / DISCHARGE ANGLES

ROTACIJA Rotation RD								
Forma/Form	0°	45°	90°	135°	180°	225°	270°	315°
ROTACIJA Rotation LG								

Važno : standard ugla ispuštanja LG270°/ Note: standard discharge angles

Frekvencija 50 Hz - Temperatura vazduha 15°C – Barometarski pritisak 760 mm Hg – Specifična težina vazduha 1,22 Kg/m³
 Frequency 50Hz – Air temperature 15°C – Barometric pressure 760 mm Hg – Air specific weight 1,22 Kg/m³

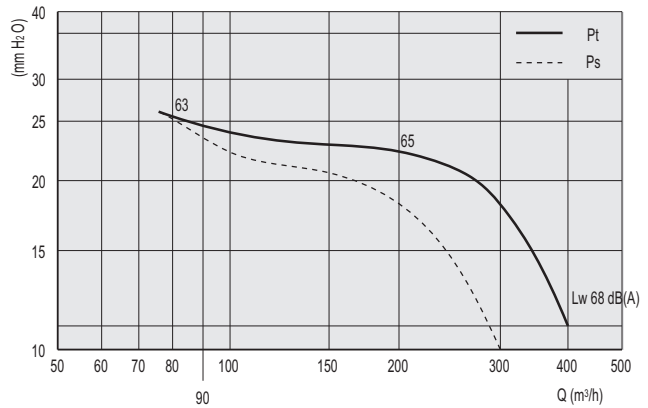
DIC-INOX 100

Tip Type	Model Model	U	P	Pm (kW)	In max (A)	IP/CL	Lp dB(A)
DIC-INOX	100/2	T	2	0,05	0,17	44/B	54
DIC-INOX	100/2	M	2	0,05	0,36	44/B	54

OPERATIVNI LIMIT / OPERATIONAL LIMITS

Tip Type	Model Model	Q max (m ³ /h)	Pt min. (mm H ₂ O)	C max (m/s)	S (m ²)	Pd ² (Kg m ²)	Mot. (Gr)
DIC-INOX	100/2	400	11	17,4	0,0064	0,0016	50

$$Pd = 0,06218 \times (Q/22,98)^2 = \text{mm H}_2\text{O}$$



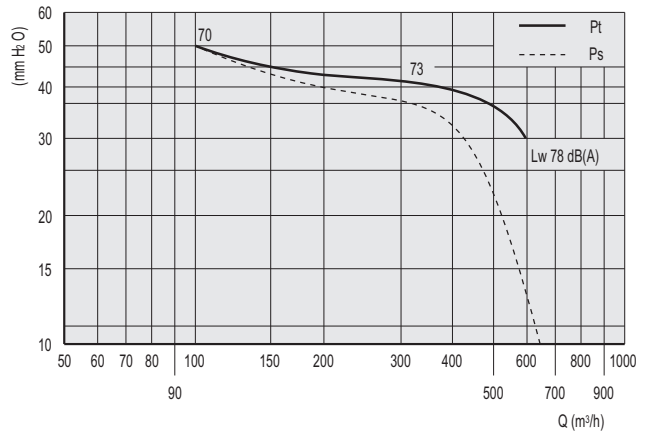
DIC-INOX 120

Tip Type	Model Model	U	P	Pm (kW)	In max (A)	IP/CL	Lp dB(A)
DIC-INOX	120/2	T	2	0,25	0,78	55/F	63
DIC-INOX	120/2	M	2	0,25	1,7	55/F	63

OPERATIVNI LIMIT / OPERATIONAL LIMITS

Tip Type	Model Model	Q max (m ³ /h)	Pt min. (mm H ₂ O)	C max (m/s)	S (m ²)	Pd ² (Kg m ²)	Mot. (Gr)
DIC-INOX	120/2	600	30	16	0,0104	0,0036	63

$$Pd = 0,06218 \times (Q/37,45)^2 = \text{mm H}_2\text{O}$$



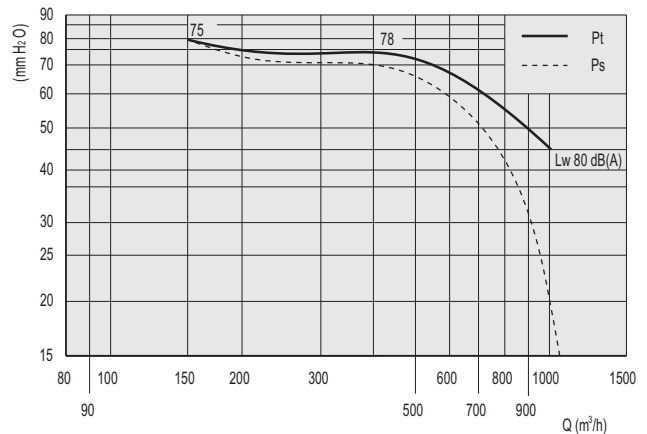
DIC-INOX 140

Tip Type	Model Model	U	P	Pm (kW)	In max (A)	IP/CL	Lp dB(A)
DIC-INOX	140/2	T	2	0,37	1	55/F	68
DIC-INOX	140/2	M	2	0,37	4	55/F	68

OPERATIVNI LIMIT / OPERATIONAL LIMITS

Tip Type	Model Model	Q max (m ³ /h)	Pt min. (mm H ₂ O)	C max (m/s)	S (m ²)	Pd ² (Kg m ²)	Mot. (Gr)
DIC-INOX	140/2	1000	45	19,9	0,014	0,0064	71

$$Pd = 0,06218 \times (Q/50,13)^2 = \text{mm H}_2\text{O}$$



Frekvencija 50 Hz - Temperatura vazduha 15°C – Barometarski pritisak 760 mm Hg – Specifična težina vazduha 1,22 Kg/m³
 Frequency 50Hz – Air temperature 15°C – Barometric pressure 760 mm Hg – Air specific weight 1,22 Kg/m³

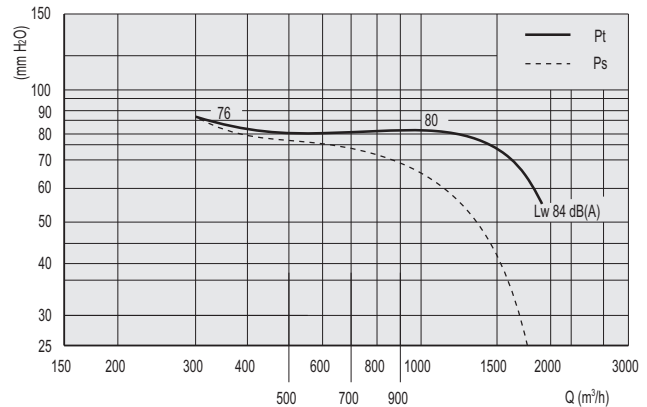
DIC-INOX 160

Tip Type	Model Model	U	P	Pm (kW)	In max (A)	IP/CL	Lp dB(A)
DIC-INOX	160/2	T	2	0,75	1,9	55/F	70
DIC-INOX	160/2	M	2	0,75	7,1	55/F	70

OPERATIVNI LIMIT / OPERATIONAL LIMITS

Tip Type	Model Model	Q max (m ³ /h)	Pt min. (mm H ₂ O)	C max (m/s)	S (m ²)	Pd ² (Kg m ²)	Mot. (Gr)
DIC-INOX	160/2	1800	55	27,4	0,018	0,0104	80

$$Pd = 0,06218 \times (Q/65,61)^2 = \text{mm H}_2\text{O}$$



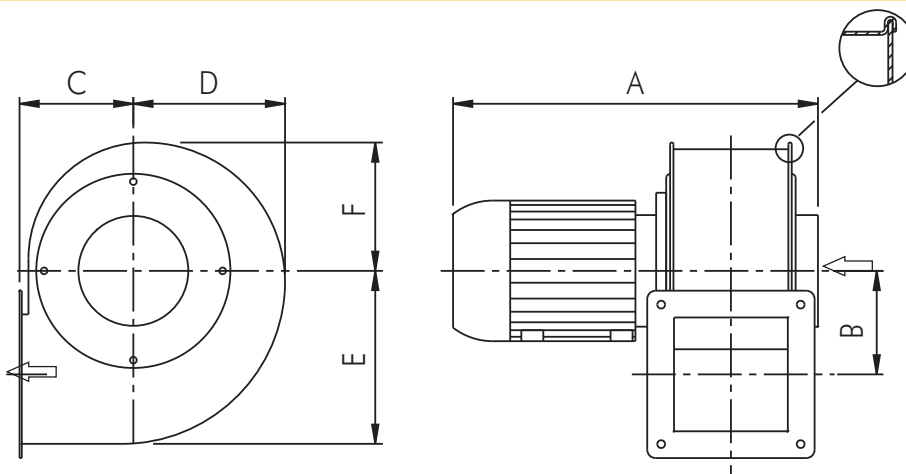
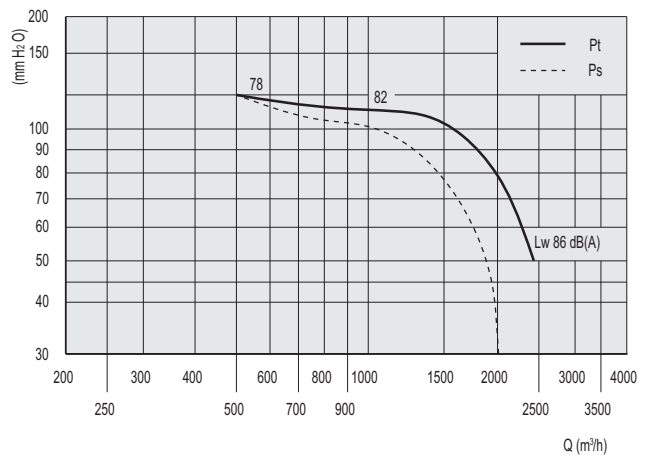
DIC-INOX 180

Tip Type	Model Model	U	P	Pm (kW)	In max (A)	IP/CL	Lp dB(A)
DIC-INOX	180/2	T	2	1,1	2,8	55/F	72
DIC-INOX	180/2	M	2	1,1	7,9	55/F	72

OPERATIVNI LIMIT / OPERATIONAL LIMITS

Tip Type	Model Model	Q max (m ³ /h)	Pt min. (mm H ₂ O)	C max (m/s)	S (m ²)	Pd ² (Kg m ²)	Mot. (Gr)
DIC-INOX	180/2	2400	60	30,4	0,022	0,02	80

$$Pd = 0,06218 \times (Q/78,85)^2 = \text{mm H}_2\text{O}$$

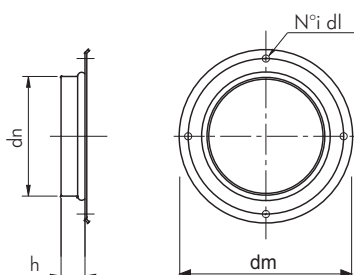


Tip/Type	A	B	C	D	E	F	Kg
DIC-INOX 100	285	82	89	112	130	99	4
DIC-INOX 120	325	97	102	137	156	116	7
DIC-INOX 140	350	115	123	158	184	136	8
DIC-INOX 160	425	132	143	175	207	148	15
DIC-INOX 180	445	140	152	200	227	171	18

Dimenzije u mm/Dimensions in mm

Važno: DIC 100 standard ne zahteva podršku motora , u slučaju potrebe koristiti IC 100 MEC.
 Note: DIC 100 standard doesn't foresee the motor support, in case of necessity use DIC 100 MEC.

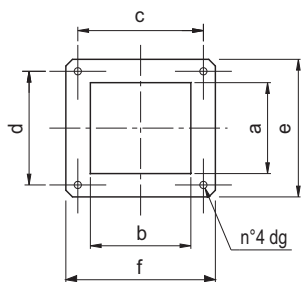
ULAZNI OTVOR / INLET



Tip/Type	dn	h	dm	di	l
100	100	20	130	4	6
120	125	20	160	4	6
140	125	30	180	4	6
160	160	40	222	8	6
180	160	40	222	8	6

Dimenzije u mm/Dimensions in mm

IZLAZNI OTVOR / OUTLET

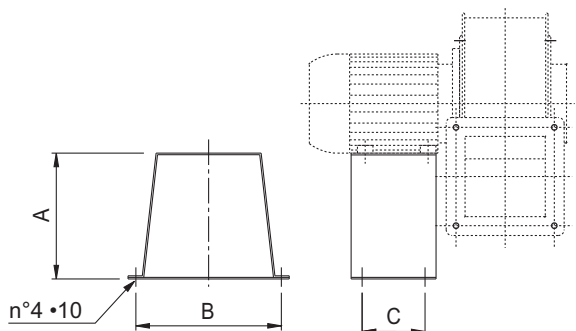


Tip/Type	a	b	c	d	e	f	dg
100	76	84	105	95	115	125	6
120	102	102	125	125	150	150	7
140	118	118	148	148	175	175	8
160	135	135	165	165	195	195	8
180	148	148	180	180	210	210	8

Dimenzije u mm/Dimensions in mm

DODATNI DELOVI / ACCESSORIES

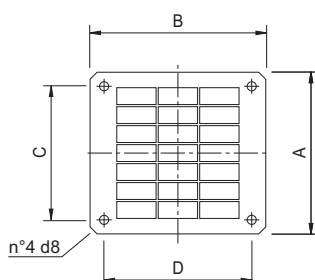
STALAK MOTORA / MOTOR SUPPORT



Tip/Type	A	B	C	Kg
100	120	140	71	1
120	160	185	80	1,3
140	160	185	80	2
160-180	180	230	100	2,5

Dimenzije u mm/Dimensions in mm

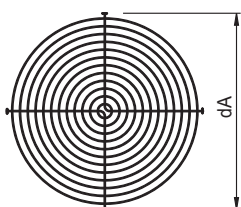
REŠETKA NA ULAZOM OTVORU / INLET GUARD



Tip/Type	A	B	C	D	Kg
100	115	125	95	105	0,06
120	150	150	125	125	0,12
140	175	175	148	148	0,13
160	195	195	165	165	0,15
180	210	210	180	180	0,2

Dimenzije u mm/Dimensions in mm

REŠETKA NA IZLAZOM OTVORU / OUTLET GUARD



Tip/Type	dA	Kg
100	100	0,04
120-140	125	0,06
160-180	160	0,07

Dimenzije u mm/Dimensions in mm

ČINILAC / AGENT	Materijal / Material			
	PVC	PE	PP	AISI 304
Aceton/Acetone	3	2	3	1
Sirćetna kiselina/Acetic acid	2	1	1	1
Limunska kiselina/Citric acid	1	1	1	1
Hromska kiselina/Chromic acid	1	1	1	3
Mlečna kiselina/Lactic acid	2	1	1	2
Fosforna kiselina/Phosphoric acid	1	2	1	2
Vinska kiselina/Tartaric acid	2	1	1	n.d.
H ₂ O	1	1	1	1
Etil alkohol/Alcohol ethylic	2	3	3	1
Alluminijum/Aluminium				
Hlorid/Chloride	1	1	n.d.	1
Sulfat/Sulphate	1	1	1	1
Hidroksid/Hydroxide	1	n.d.	n.d.	1
Amonijak/Ammoniac				
Hlorid/Chloride	1	1	n.d.	3
Sulfat/Sulphate	1	1	1	1
Hidroksid/Hydroxide	1	n.d.	n.d.	1
Srebro/Argent				
Nitrat/Nitrate	2	1	1	1
Barium/Barium				
Hlorid/Chloride	1	1	1	1
Sulfat/Sulphate	1	1	1	1
Hidroksid/Hydroxide	1	1	1	n.d.
Benzen /Benzene	3	3	3	1
Benzin/Gasoline	1	1	3	1
Brom /Bromine liquid	3	3	3	3
Kalcium/Calcium				
Hlorid/Chloride	1	1	n.d.	2
Carbonat/Carbonate	1	1	1	1
Karbonio/Carbon				
Monoksid/Monossido	1	1	1	1
Tetrachlorid/Tetrachloride	3	3	3	3
Hlor/Chlorine				
Gas/Gas dry	3	n.d.	3	3
Gas- tečno stanje/Gas moist	2	n.d.	3	3
Hlorbenzol/Chlorobenzene	3	n.d.	3	1
Fenol/Phenol	2	1	1	1
Gvožđe/Iron				
Nitrat/Nitrate	1	1	n.d.	2
Sulfat/Sulphate	1	1	n.d.	2

ČINILAC / AGENT	Materijal/Material			
	PVC	PE	PP	AISI 304
Formaldehid/Formaldehyde	2	1	1	1
Furfural/Furfural	3	2	2	1
Hydrogen/Hydrogen				
Peroxid/Peroxide	1	2	2	2
Surfur/Sulphur	2	1	1	1
Magnijum/Magnesium				
Klor/Chloride	1	1	1	1
Karbonat/Carbonate	1	n.d.	1	1
Nitrat/Nitrate	1	1	1	1
Nafta/Naphtha	3	3	3	1
Nikel/Nickel				
Hlorid/Chloride	1	1	1	2
Sulfat/Sulphate	1	2	1	1
Nitrat/Nitrate	1	1	1	1
Kalijum/Potassium				
Hlorid/Chloride	1	1	1	1
Cianid/Cyanide	1	1	1	1
Nitrat/Nitrate	1	1	1	1
Sulfat/Sulphate	1	1	1	1
Bakar/Copper				
Cianid/Cyanide	3	n.d.	1	1
Hlorid/Chloride	1	1	1	3
Nitrat/Nitrate	2	1	1	1
Sulfat/Sulphate	1	1	3	1
Natrijum/Sodium				
Acetat/Acetate	1	1	1	1
Carbonat/Carbonate	1	1	1	1
Hlorid/Chloride	2	1	1	2
Hlorid/Chlorate	1	1	1	1
Fosfat/Phosphate	1	1	1	1
Flurid/Fluoride	1	1	n.d.	2
Nitrat/Nitrate	1	1	1	1
Sulfat/Sulphate	1	1	1	1
Cink/Zinc				
Hlorid/Chloride	1	1	1	3
Nitrat/Nitrate	1	n.d.	1	n.d.
Sulfat/Sulphate	1	1	1	1

PAŽNJA: U tabeli date indikacije treba uzeti kao vodeću smernicu za brzi uvid istih, ne uzimajući u obzir koncentraciju vodenog rastvora hemijskih agenasa (u slučaju da je i agens u vodenom rastvoru) i temperaturu rada.
 1: otpor DOBAR - 2: otpor OGRANIČEN - 3: otpor NIKAKAV n.d.: NEPOZNAT

ATTENTION: the indications in the table have to be considered as guideline for immediate reading of the same, without taking into consideration the concentration of the watery solution of the chemical agent (in case the agent can be also in a solution) and the working temperature.
 1: resistance "GOOD" - 2: resistance "LIMITED" - 3: resistance "NONE" - n.d.: unknown