

DUCT-M-HT

AKSIJALNI VENTILATOR ZA ODVOD DIMA

U SKLADU SA EN 12101-3

SMOKE EXHAUST DUCTED AXIAL FAN

ACCORDING TO EN 12101-3

F200

F300

F400



APLIKACIJE

Ventilatori linije DUCT-M-HT su dizajnirani za upotrebu u svim postrojenjima gde je propisana potreba za garantovanjem odvoda dima u okruženjima kao što su parkinzi, trgovački centri, bolnice, pozorišta, muzeji, zgrade itd.

DUCT-M-HT ventilatori su projektovani i proizvedeni u skladu sa evropskom direktivom EN 12101-3, uz dobijanje sertifikata od ovlašćenog autonomnog sertifikacionog tela. Ova linija je pogodna za kontinuirani rad na temperaturi od 40°C i u slučaju nužde (požara) na temperaturi od:

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

Ovaj koncept dvostrukog rada je tačno preveden terminom „dvostruka namena“ uvedenim u specifikaciju normom EN 12101-3.

DOMET

Ova linija se sastoji od 15 veličina sa prečnikom impelera od 310 do 1600 mm.

KARAKTERISTIKE

Linija DUCT-M-HT karakteriše se upotrebom posebnih komponenti (motor, impeler i kućište), različitih od standardne proizvodnje, pogodnih za garantovanje teške i osnovne upotrebe za koju su namenjene: da izdrže visoke temperature kako bi se garantovala mogućnost spasavanja ljudi u požaru.

KONSTRUKCIJA

- Kućište od čeličnog lima obojenog epoksidnom bojom.
- Impeler sa visoko efikasnim aerodinamičkim lopaticama, promenljivim uglom nagiba u mirnom položaju, od livenog aluminijuma. Balansiranje prema normi UNI ISO 21940-11.
- Asinhroni trofazni elektromotor, IP 55, montaža B3, konstrukcija u skladu sa IEC/EEC normama, pogodan i sertifikovan za rad na temperaturi od 40°C u kontinuiranom radu i 200°C, 300°C, 400°C tokom 120 minuta ili 300°C tokom 60 minuta u slučaju požara.
- Raspored 4 (impeler direktno spojen sa vratilom motora).

TEHNIČKE SPECIFIKACIJE

DUCTMHT

- Transporisana tečnost: čista ili blago prašnja, neabrazivna.
- Napon: trofazni (T) 400V - 3ph - 50Hz
- Smer tečnosti: od impelera do motora (B) FGM

VERZIJE

- DUCT-ML: dugo kućište. Sklop motora/impelera potpuno „uključen“ u dužinu kućišta.
- DUCT-Mm: srednje kućište. Motor blago viri iz kućišta, slobodan pristup za električno povezivanje.

PRIBOR

- Ulazna mlaznica (IN).
- Prigušivači (SIL-DU).
- Ravna zaštitna rešetka (FPG-DU) i konusni deo (CPG-DU) (Neophodno za upotrebu u otvorenom vazduhu).
- Fleksibilna veza (FC-DU-HT).
- AV nosači (AV).
- Kontrapribrubnica (CF-DU).
- Spoljna priključna kutija (OTB-HT).
- Nožice za fiksiranje (FF-DU).
- Kružne klapne za nadpritisak (GSC)

NA ZAHTEV

- Performanse koje se razlikuju od kataloga.
- Verzije sa protokom vazduha od motora do rotora, pozicija A(FMG).
- Kućište toplo pocinkovano.

APPLICATIONS

The fans of the DUCT-M-HT line have been designed to be employed in all the plants where it is prescribed the necessity to guarantee the smoke extraction in environments as car parks, commercial centers, hospitals, theatres, museums, buildings etc.

DUCT-M-HT fans have been designed and manufactured according to the European Directive EN 12101-3 obtaining the certification from an authorized autonomous certification body. This line is suitable to work in continuous at the temperature of 40°C and in case of emergency (fire) at the temperature of:

- 200°C for 120 minutes (F200)
- 300°C for 60 minutes (F300) - per 120 minuti (F300/120)
- 400°C for 120 minutes (F400)

This concept of double operation is exactly translated by the term “dual purpose” introduced in the specific by the EN 12101-3 norm.

RANGE

This line consists of 15 sizes with impeller diameter from 310 up to 1600 mm.

ADVANTAGES

DUCT-M-HT line is characterized by the use of special components (motor, impeller and casing), different from the standard production, suitable to guarantee the heavy and essential service for which they are designed: to withstand to the high temperatures to guarantee the possibility of salvation for the people involved in a fire.

COSTRUCTION

- Casing in epoxy painted steel sheet.
- Impeller with high efficiency airfoil blades, variable pitch angle in still position, in cast aluminum. Balancing according UNI ISO 21940-11 norm.
- Asynchronous three phase electric motor, IP 55, mounting B3, construction conformed to IEC/ EEC norms, suitable and certified to work at the temperature of 40°C in continuous service and 200°C, 300°C, 400°C for 120 minutes or 300°C for 60 minutes in case of fire emergency.
- Arrangement 4 (impeller directly coupled with motor shaft).

TECHNICAL SPECIFICATIONS

DUCT-M-HT

- Conveyed Fluid: clean or slightly dusty, not abrasive.
- Voltage: three phase (T) 400V - 3ph - 50Hz
- Fluid direction: from impeller to motor (B) FGM

VERSIONS

- DUCT-ML: long casing. Motor/ impeller assembly completely “included” in the length of the casing.
- DUCT-Mm: medium casing. Motor slightly protruding from the casing, free access for electrical connection.

ACCESSORIES

- Inlet nozzle (IN).
- Silencers (SIL-DU).
- Flat protection grid (FPG-DU) and conic (CPG-DU) (Necessary for use in free air).
- Flexible connection (FC-DU-HT).
- AV mounts (AV).
- Counter-flange (CF-DU).
- External terminal box (OTB-HT).
- Fixing feet (FF-DU).
- Overpressure circular dampers (GSC)

ON REQUEST

- Performances different from the catalogue.
- Versions with air flow from motor to impeller, position A (FMG).
- Hot dipped galvanized casing.

DUCT-M-HT

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.

Performance shown in the selection diagrams refer to the airflow from impeller 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)

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

Model Model	Portata Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))	Kg
312/A T	4.000	0,75	1,8	7180	69	28
352/A T	5.400	1,1	2,5	80	73	32
402/A T	6.150	1,1	2,5	80	78	35
402/B T	7.400	1,5	3,3	90	78	40
402/C T	9.600	2,2	4,4	90	79	45

4 POLA / POLES (1500 RPM)

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

Model Model	Portata Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))	Kg
314/A T	2.200	0,55	1,5	80	53	28
354/A T	3.150	0,55	1,5	80	57	32
404/A T	5.000	0,55	1,5	80	62	35
454/A T	7.100	0,55	1,5	80	66	38
504/A T	8.500	0,55	1,5	80	69	40
504/B T	10.500	0,75	2	80	70	44
564/A T	11.250	0,75	2	80	71	47
564/B T	12.500	1,1	2,5	90	72	53
634/A T	15.000	1,1	2,5	90	76	60
634/B T	17.000	2,2	4,6	100	76	72
714/A T	20.000	2,2	4,6	100	77	78
714/B T	21.500	3	6,5	100	79	82
804/A T	24.000	3	6,5	100	78	90
804/B T	29.000	4	8,2	112	79	105
804/C T	35.000	5,5	11	132	80	130
904/A T	38.000	5,5	11	132	85	165
904/B T	43.000	7,5	15	132	86	178
904/C T	47.000	7,5	15	132	86	178
1004/A T	41.000	5,5	11	132	88	184
1004/B T	50.000	7,5	15	132	89	195
1004/C T	59.000	11	21	160	89	250

6 POLA / POLES (1000 RPM)

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

Model Model	Portata Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp (dB(A))	Kg
506/A T	6.000	0,55	1,7	80	58	38
566/A T	7.900	0,55	1,7	80	62	45
636/A T	10.500	0,55	1,7	80	63	52
636/B T	12.700	0,75	2,2	90	65	60
716/A T	15.000	0,75	2,2	90	65	68
716/B T	16.500	1,1	3	90	66	72
806/A T	16.000	0,75	2,2	90	68	77
806/B T	19.000	1,1	3	90	69	80
806/C T	22.500	1,5	4	100	69	93
906/A T	25.000	1,5	4	100	75	125
906/B T	29.000	2,2	5	112	75	140
906/C T	32.000	2,2	5	112	75	140
1006/A T	27.000	1,5	4	100	79	145
1006/B T	33.000	2,2	5	112	79	158
1006/C T	41.000	3	7	132	80	185
1126/A T	36.000	3	7	132	82	195
1126/B T	45.000	4	9	132	83	205
1126/C T	54.000	5,5	12	132	83	210
1256/A T	46.000	5,5	12	132	86	230
1256/B T	57.000	7,5	15	160	87	330
1256/C T	69.000	11	22	160	88	350

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

PAŽNJA: nivo zvučnog pritiska meren je u slobodnom polju na 3 m od ventilatora, pri maksimalnoj efikasnosti sa kanalizovanim ulazom i izlazom.

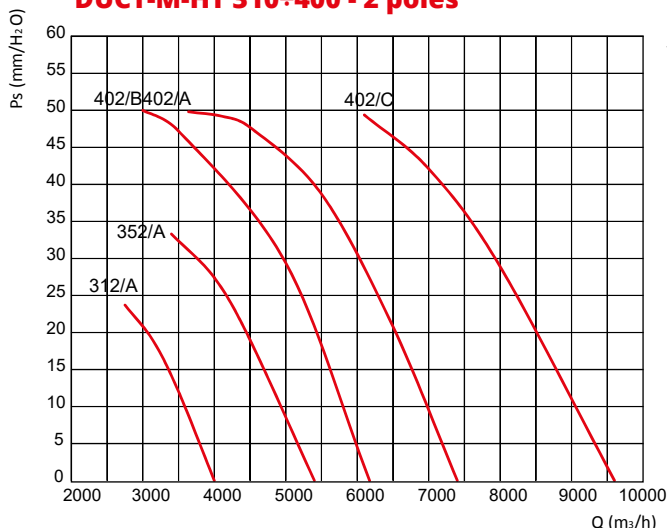
TOLERANCES: performances and sound power levels within the tolerances allowed by the DIN 24166 standard for Class 2.

ATTENTION: sound pressure level is measured in free field at 3 m from the fan, at maximum efficiency with ducted inlet and outlet.

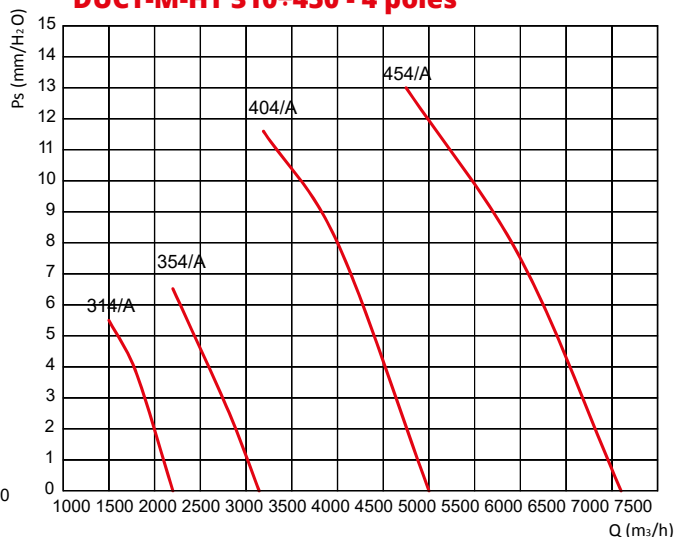
PERFORMANSE VEZANE SA VERZIJAMA F200 I F300

PERFORMANCES RELATED TO F200 AND F300 VERSIONS

DUCT-M-HT 310÷400 - 2 poles



DUCT-M-HT 310÷450 - 4 poles



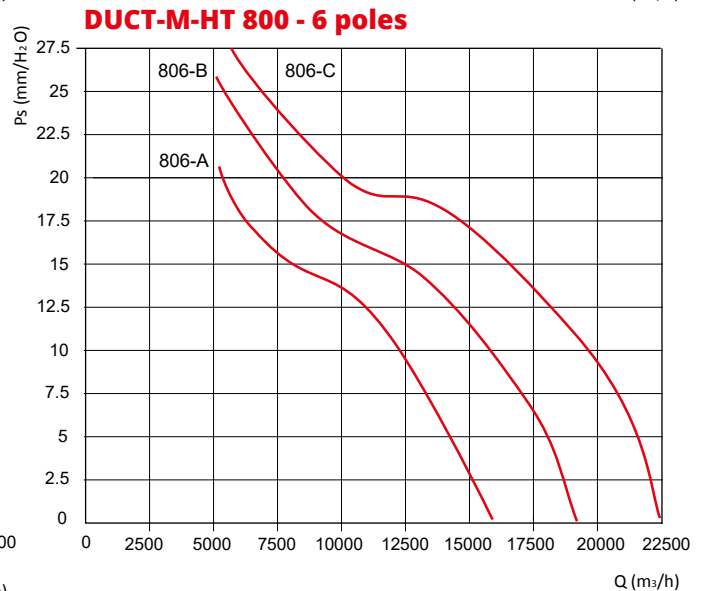
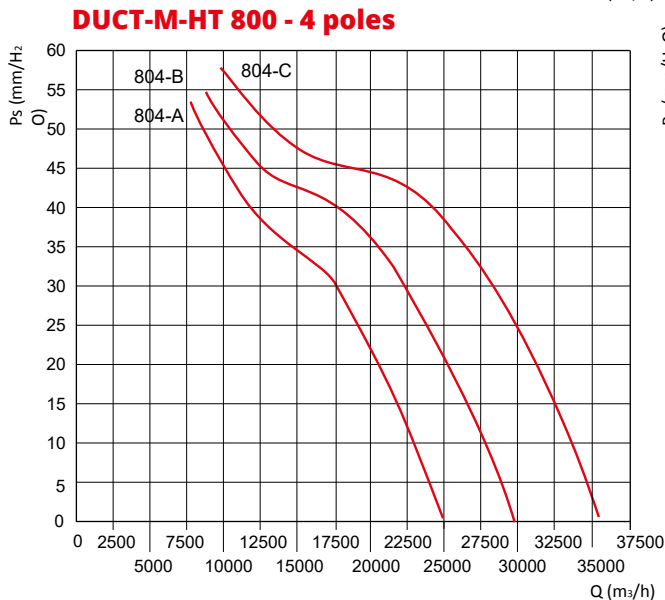
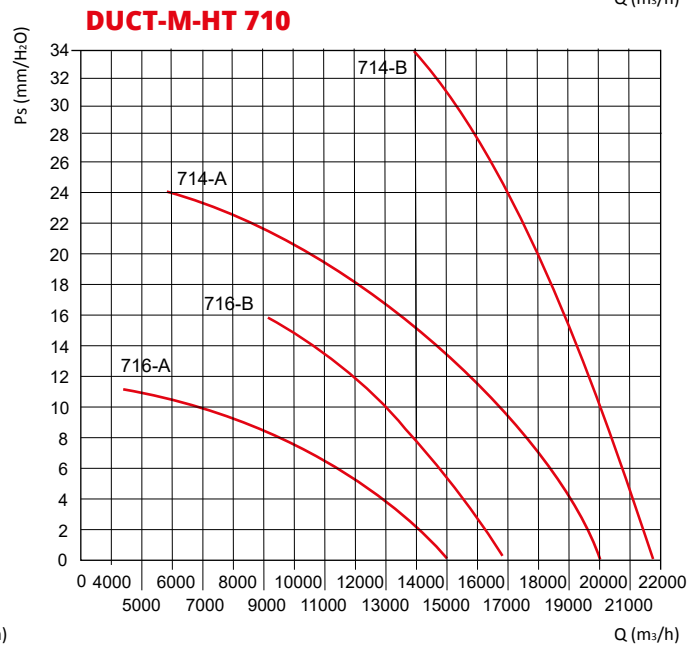
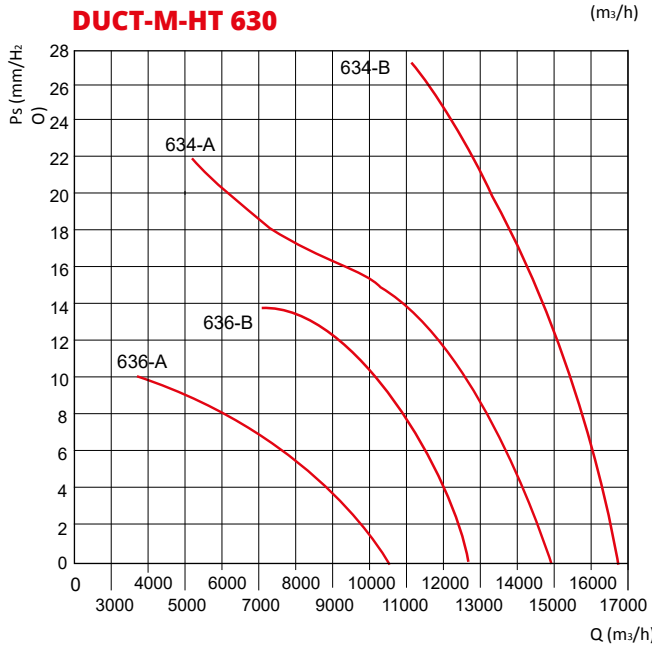
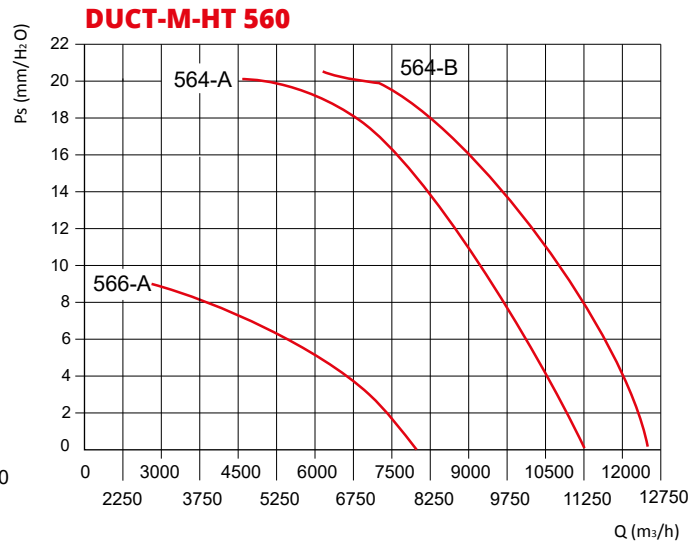
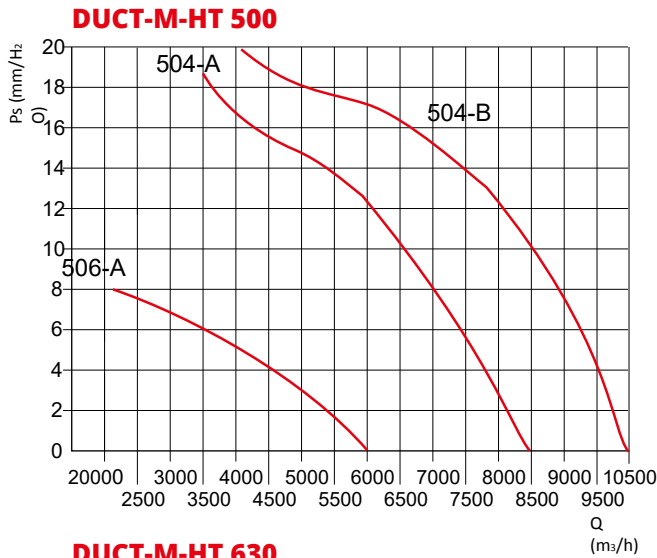
DUCT-M-HT

PERFORMANSE - PERFORMANCES

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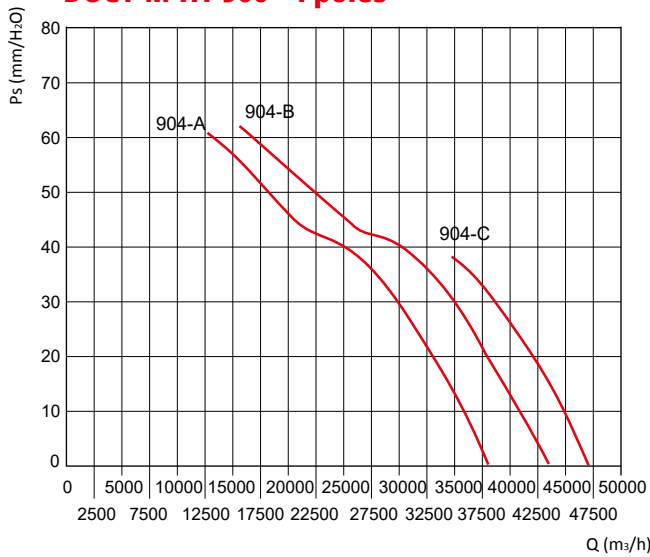
PERFORMANSE - PERFORMANCES

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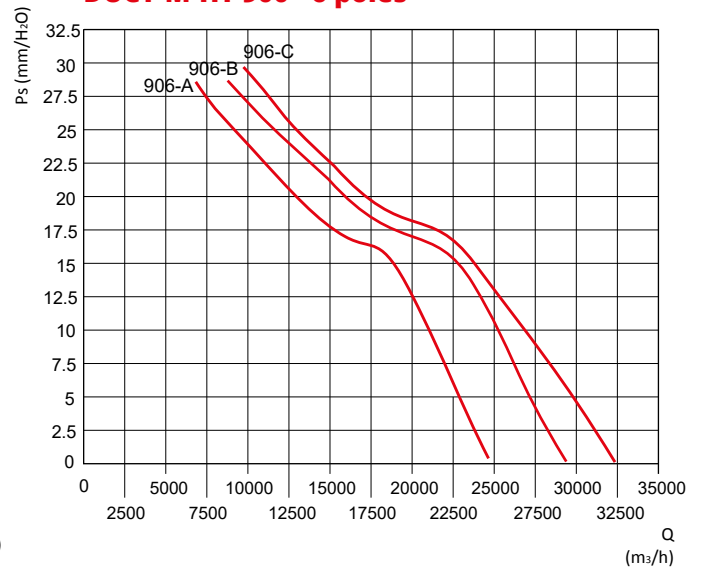
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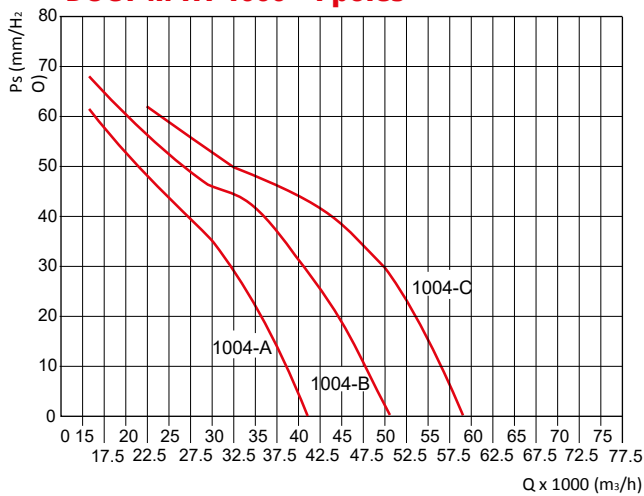
DUCT-M-HT 900 - 4 poles



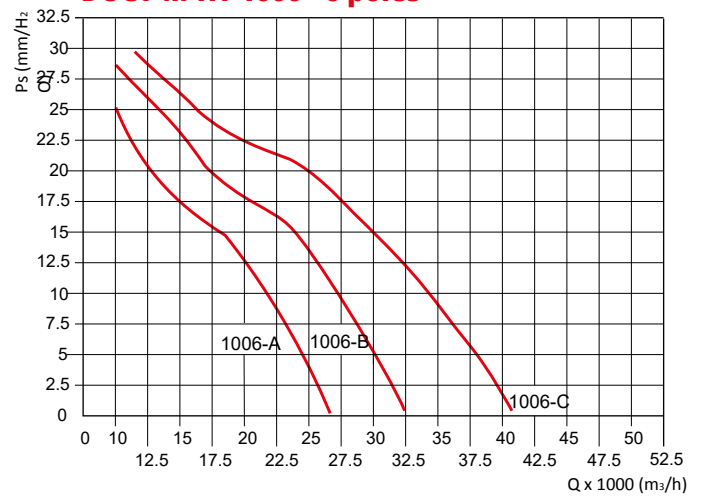
DUCT-M-HT 900 - 6 poles



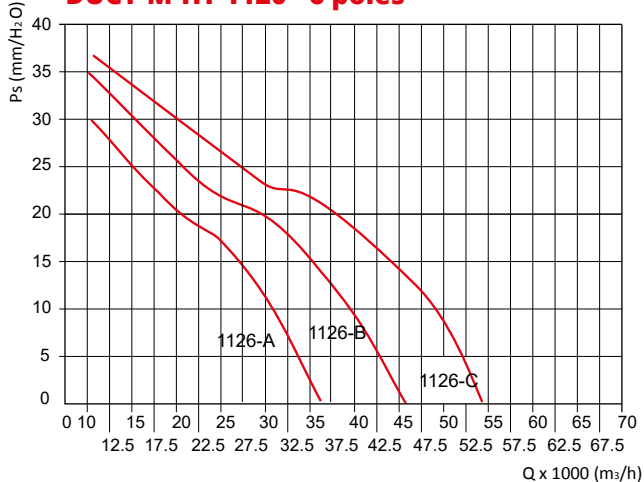
DUCT-M-HT 1000 - 4 poles



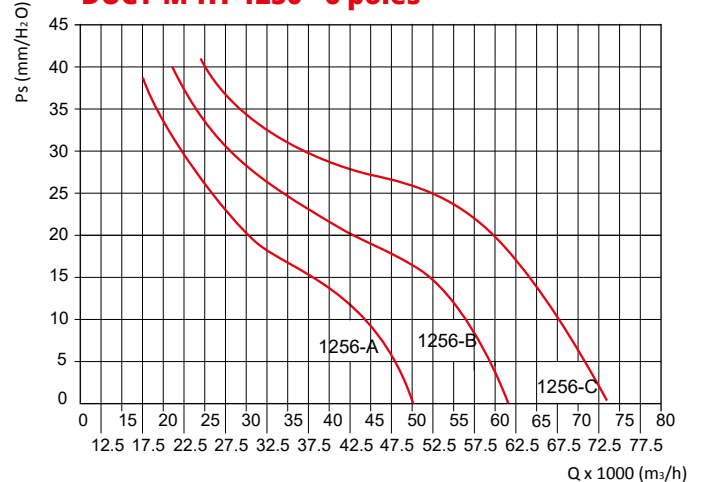
DUCT-M-HT 1000 - 6 poles



DUCT-M-HT 1120 - 6 poles

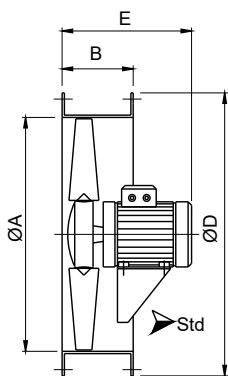


DUCT-M-HT 1250 - 6 poles

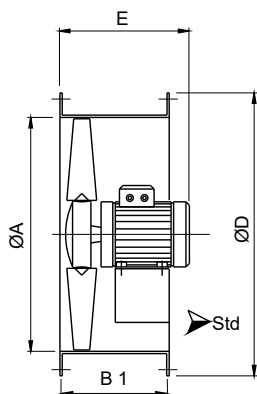


DIMENZIJE - DIMENSIONS

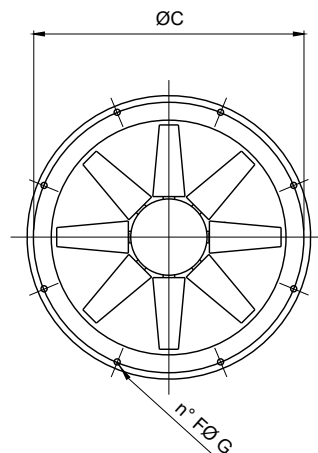
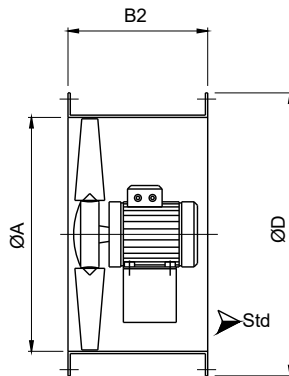
DUCT-Ms-HT



DUCT-Mm-HT

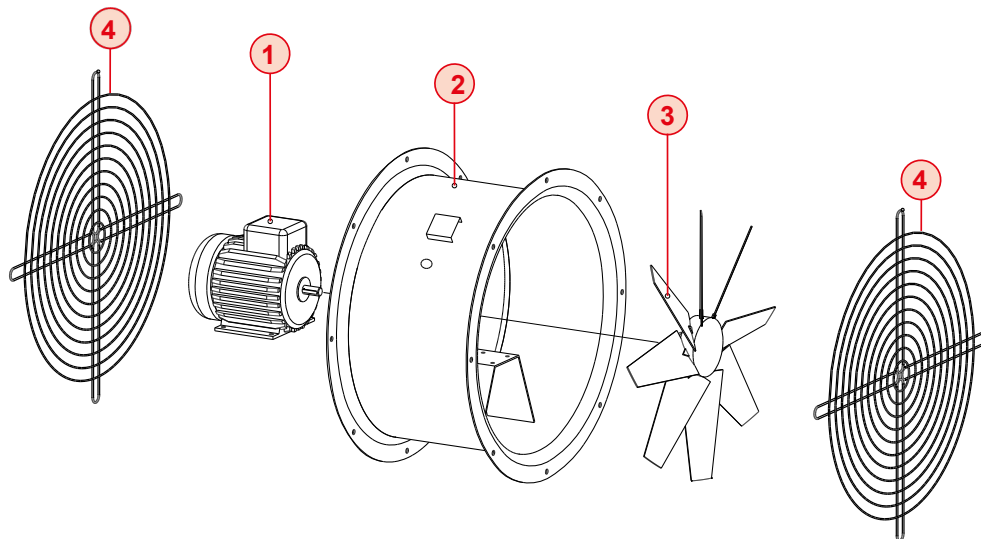


DUCT-MI-HT



Model Model	A	Mot. Mot. (H)	B (Ms)	B1 (Mm)	B2 (MI)	C	D	E (Ms)	E (Mm)	F	G
31	310	5663	260	260	400	355	390	420	315	8	10
35	360	5671	260	260	400	395	430	420	315	8	10
40	410	6380	260	260	400	450	490	420	320	8	12
45	460	7180	260	260	450	500	540	380	330	8	12
50	510	7180	260	260	450	560	595	390	330	12	12
56	570	7190	260	260	450	620	655	400	360	12	12
63	640	90100	260	350	500	690	725	420	420	12	12
71	710	90112	260	350	600	770	805	430	430	16	12
80	810	90132	350	450	600	860	900	550	530	16	12
90	910	100132	350	450	700	970	1010	550	530	16	16
100	1010	100160		560	800	1070	1110		670	16	16
		180		800	900				770		
112	1130	132		800	800	1190	1230		640	20	16
		160200			900				800		
		225			1000						
		250									
125	1260	132		800	800	1320	1360		650	20	16
		160200			900				800		
		225			1000				900		
		250			1150						
		280									
140	1400	160225			1000	1470	1520			20	16
		250280			1150						
160	1610	160225			1000	1680	1730			24	20
		250280			1150						

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



- 1 Motor - Motor
- 2 Kućište - Casing
- 3 Imper - Impeller
- 4 Dodatak za rešetku (obavezno za slobodan vazduh) - Grid "accessory" (mandatory for free air)