

ДО:

ОТ: инж. Мариана Такова

ФИРМА: „АЕЦ КОЗЛОДУЙ“ ЕАД

ФИРМА: „АТАРО Клима“ ЕООД

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ОФЕРТА № 2.19.39245 / 30.06.2023 г.

Относно: Доставка на вентилатори.

Обект: „АЕЦ КОЗЛОДУЙ“ ЕАД, гр. Козлодуй.

No	Наименование	Мярка	Колич.	Ед.цена лева	Обща цена лева
1	Доставка на аксиален вентилатор RING-sr 1004-A/T с дебит – 35000 м3/ч.; напор - 200 Pa Параметри според приложената селекция	бр.	2	4 532,85 лв.	9 065,70 лв.
2	Доставка на аксиален вентилатор RING-sr 634-C/ T с дебит - 14500 м3/ч.; напор - 110 Pa. Параметри според приложената селекция	бр.	2	2 505,30 лв.	5 010,60 лв.

СУМА ОБЩА :	14 076,30 лв.
СУМА ОБЩА EURO :	7 197,10 €
ДДС 20% :	2 815,26 лв.
ВСИЧКО :	16 891,56 лв.

ЗАБЕЛЕЖКИ:

- Цените в офертата са на база централен курс на **БНБ 1€=1,95583лв.**
При промяна на същия, единичните цени запазват еуровата си стойност, спрямо курс **1€=1,95583лв.**, както и в сила влиза стойността на офертата в полето "**СУМА ОБЩА EURO**"
- Цената е в лева с включен **ДДС 20 %**
- Начин на плащане: 80% аванс, 20% при доставка.
- Цената е франко база „Атаро Клима“, гр. София.
- Срок за доставка: 6-8 седмици, след превеждане на аванс, без м.Август.
- Срок на валидност на офертата: 25 дни.
- Гаранционен срок: 12 месеца след доставка.
- Настоящата оферта е съставена в отговор на покана за пазарна консултация №51365 и предоставена техническа спецификация.
- В цената на съоръженията са включени само елементи описани по позиции. Цената не включва разходи по подемна техника, монтаж, укрепваща конструкция, както и допълнителни аксесоари към вентилаторите.

БАНКА ДСК АД – Пловдив, IBAN: BG22STSA93001525685922; BIC: STSABGSF;

Уникредит Булбанк АД - Пловдив, IBAN: BG 36 UNCR 7630 1043 9917 74,

BIC: UNCRBGSF.

Атаро Клима ЕООД, Пловдив 4003, бул. "В.Левски"№272

За допълнителни въпроси и уточнения сме на Ваше разположение.

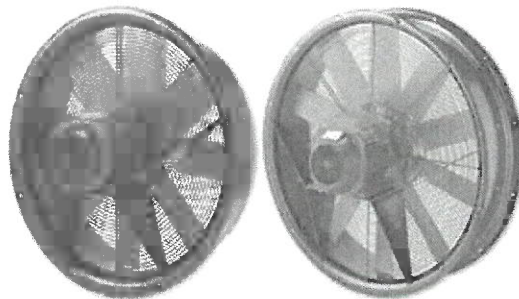
Инвеститор:

Съставили :

инж. Мариана Такова

RING

ERP



Ventilatore assiale ad anello Ring axial fan

APPLICAZIONI

I ventilatori serie RING sono ideali quando sono richieste grandi portate d'aria e pressioni relativamente modeste, in applicazioni con fissaggio a parete, struttura portante o canale in posizione terminale. Ad esempio: ventilazione di stabilimenti, parcheggi, allevamenti, nel raffreddamento d'apparecchiature elettriche e frigorifere.

GAMMA

La serie è costituita da 13 grandezze con diametro girante da 300 a 1250.

PECULIARITÀ

La serie RING è caratterizzata da un'estrema robustezza dovuta alla costruzione rinforzata del telaio portante, costruito con spessori maggiori rispetto a quelli dei normali pannelli quadrati. Inoltre la presenza d'imbobbi ad ampio raggio di curvatura realizzati direttamente dalla virola, garantiscono massima silenziosità e rendimenti aeraulici che possono essere raggiunti da un assiale intubato solo con l'aggiunta di un bocchaglio aspirante. Questa costruzione abbinata alla nostra girante reversibile a profilo simmetrico permette di ottimizzare esigenze di reversibilità del flusso. Infatti generalmente i ventilatori assiali permettono la reversibilità semplicemente invertendo due linee di fase sull'alimentazione elettrica, o assemblando il 50% delle pale con flusso premente ed il 50% delle altre con flusso aspirante; in entrambi i casi con rendimenti aeraulici bassissimi. L'utilizzo della serie RING con girante tipo reversibile a profilo simmetrico permette invece di ottenere le stesse prestazioni sia in aspirazione come in mandata con rendimenti elevati.

COSTRUZIONE

- Convogliatore ad anello, con bocchaglio ad ampio raggio, in lamiera d'acciaio protetto con verniciatura epossipoliestirica.
- Rete antinfortunistica lato motore, realizzata a norme UNI EN ISO 12499, in filo d'acciaio e protetta contro gli agenti atmosferici.
- Girante ad alto rendimento con pale a profilo alare ad angolo di calettamento variabile da fermo, in tecnopolimero oppure in alluminio, mozzo in fusione d'alluminio. Equilibratura secondo norme UNI ISO 21940-11.
- Motore elettrico, protezione IP 55, isolamento CI F, servizio S1, costruzione conforme alle specifiche norme IEC/EEC (UNEL-MEC).
- Esecuzione 4 (accoppiamento diretto con girante a sbalzo).

SPECIFICHE TECNICHE

RING standard

- Aria convogliata: pulita o leggermente polverosa, non abrasiva.
- Temperatura aria convogliata: -20°C / +50°C.
- Alimentazione versione: trifase (T) 400V-3Ph - 50Hz. monofase (M) 230V-1ph-50Hz.
- Flusso dell'aria da motore a girante, posizione A (FMG).

VERSIONI

RING dr: convogliatore a doppio bordo raggato.
RING sr: convogliatore semplice bordo raggato.

ACCESSORI

- Rete antinfortunistica lato girante (PG-P/RI sr - FPG/RI dr). (Necessaria nell'utilizzo a bocca libera)
- Serranda con chiusura a gravità (SG e SG-HP)
- Morsettiere esterna (OTB).
- Interruttore di servizio (SW).
- Pannello quadrato (SQ).
- Piedi di fissaggio (FF-RI).

A RICHIESTA

- Versioni senza rete lato motore.
- Prestazioni diverse da quelle rappresentate
- Versione con girante completamente in fusione d'alluminio.
- Versione con flusso dell'aria "effettivamente" reversibile (RING-rev).
- Versione con convogliatore in acciaio inossidabile o alluminio.
- Versione con convogliatore a doppio bordo, raggato e lato girante piano, (RING drp-g) oppure lato motore piano (Ring drp-m)
- Versione ATEX (RING-Atex).
- Versione con flusso dell'aria da girante a motore, posizione B (FGM).
- Versione con motore in forma B5, fissato al convogliatore tramite rete.

APPLICAZIONI

RING line is ideal when large air capacities are required; in applications for wall, panel or duct fixing. For instance: ventilation of industrial buildings, car parks, stock farms, cooling of electric and refrigerating equipments etc.

RANGE

This line consists of 13 sizes with impeller diameter from 300 up to 1250 mm.

ADVANTAGES

RING line is characterized by the extreme sturdiness due to the strengthened construction of the casing manufactured with thickness higher than the standard PLATE fans. The wide round shaped cones directly drawn on the casing guarantee maximum silent and efficiencies normally obtained only in axial fan with bell mouth. This construction together with our fully reversible symmetrical profile impellers allows getting the 100% reversibility of the airflow. Normally the axial fans allow the reversibility of the airflow by switching two lines of phase of the electric supply and assembling 50% of the blades for intake and the other 50% for exhaust; in both cases with very low efficiencies. The use of the RING line with the fully reversible symmetrical profile impeller, consents to obtain the same performances in both the airflow directions with high efficiencies.

CONSTRUCTION

- RING casing, with wide round shaped nozzle, in epoxy painted steel sheet.
- Motor side protection grid, manufactured according to UNI EN ISO 12499, and protected against the atmospheric agents.
- Impeller with high efficiency airfoil blades, in plastic material or in die-cast aluminum alloy; hub is in die-cast aluminum alloy. Balancing according to UNI ISO 21940-11. Variable pitch angle in still position.
- Electric motor, protection IP 55, class F insulated, service S1, construction according to IEC/EEC (UNEL-MEC).
- Arrangement 4 (impeller directly coupled to motor shaft):

TECHNICAL SPECIFICATIONS

RING standard

- Conveyed air: clean, not abrasive.
- Temperature of conveyed air: -20°C / +50°C.
- Voltage: three-phase version (T) 400V-3Ph - 50Hz
single-phase version (M) 230V-1Ph-50Hz
- Air flow from motor to impeller, position A (FMG).

VERSIONS

RING dr: casing with two round shaped nozzles.
RING sr: casing with round shaped nozzle only on inlet.

ACCESSORIES

- Protection grid, impeller side (PG-P/RI sr - FPG/RI dr).
- Gravity shutter (SG and SG-HP). (Necessary for use in free air)
- Outer terminal box (OTB).
- Service switch (SW).
- Square panel (SQ).
- Fixing feet (FF-RI).

ON REQUEST

- Version without motor side grid.
- Performances differing from standard
- Version with die-cast aluminum blades.
- Version with true reversible air flow direction (RING-rev)
- Version with casing in stainless steel, aluminum or hot dip galvanised steel.
- Version with casing with one round shaped inlet and one flat, impeller side (RING drp-g) or motor side (Ring drp-m).
- Explosion proof version (RING-Atex).
- Version with air flow from impeller to motor, position B (FGM).
- Version with B5 motor mounting type, fixed to the casing through a grid.

Le prestazioni indicate nei diagrammi si riferiscono al funzionamento con flusso aria da girante a motore alla temperatura di 15°C ed all'altitudine di 0 mt s.l.m., e sono state ottenute in installazioni di tipo "D" in assenza di reti e accessori./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 poli/poles (3000 rpm) - monofase/single-phase (1Ph-230V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
312/A M	3.500	0,25	1,7	63	70
352/A M *	5.100	0,55	4	71	74
402/A M *	8.200	1,1	8	80	79

2 poli/poles (3000 rpm) - trifase/three-phase (3Ph-400V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
312/A T	3.500	0,25	0,7	63	70
352/A T	5.100	0,55	1,6	71	74
402/A T	8.200	1,1	2,6	80	79

4 poli/poles (1500 rpm) - mono fase/single-phase (1Ph-230V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
314/A M	2.300	0,09	1	56	52
354/A M	3.200	0,09	1	56	56
404/A M *	4.000	0,12	1,1	63	61
404/B M *	5.200	0,18	1,4	63	62
454/A M *	6.500	0,25	1,8	71	65
454/B M *	7.600	0,37	3,3	71	66

4 poli/poles (1500 rpm) - trifase/three-phase (3Ph-400V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
314/A T	2.300	0,09	0,4	56	52
354/A T	3.200	0,09	0,4	56	56
404/A T *	4.000	0,12	0,5	63	61
404/B T	5.200	0,18	0,6	63	62
454/A T	6.500	0,25	0,8	71	65
454/B T	7.600	0,37	1,2	71	66
504/A T *	8.000	0,37	1,2	71	68
504/B T	9.000	0,55	1,6	80	69
564/A T *	10.000	0,55	1,6	80	71
564/B T	12.500	0,75	2	80	72
634/A T	13.000	0,75	2	80	75
634/B T	16.000	1,1	2,8	90	76
634/C T	17.000	2,2	5	100	76
714/A T	17.000	1,5	3,5	90	77
714/B T	20.500	2,2	5	100	77
714/C T	18.500	2,2	5	100	77
714/D T	23.500	3	6,5	100	79
804/A T	24.000	3	6,5	100	78
804/B T	29.000	4	8,2	112	79
804/C T	35.000	5,5	11	132	80
804/D T	40.000	7,5	15	132	80
904/A T	38.000	5,5	11	132	85
904/B T	43.000	7,5	15	132	86
904/C T	47.000	7,5	15	132	86
904/D T	52.500	9,2	18	132	86
1004/A T	41.000	5,5	11	132	88
1004/B T	50.000	7,5	15	132	89
1004/C T	59.000	11	21	160	89

6 poli/poles (1000 rpm) - trifase/three-phase (3Ph-400V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
506/A T *	6.000	0,18	0,7	71	58
566/A T	8.500	0,25	1	71	62
636/A T	12.000	0,37	1,3	80	66
636/B T	14.000	0,75	2,2	90	65
716/A T	16.000	0,75	2,2	90	67
716/B T	17.000	1,1	3	90	66
806/A T	16.000	0,75	2,2	90	68
806/B T	19.000	1,1	3	90	68
806/C T	22.500	1,5	4	100	69
906/A T	25.000	1,5	4	100	74
906/B T	29.000	2,2	5	112	75
906/C T	32.000	2,2	5	112	75
1006/A T	27.000	1,5	4	100	79
1006/B T	33.000	2,2	5	112	79
1006/C T	41.000	3	7	132	80
1126/B T	45.000	4	9	132	83
1126/C T	54.000	5,5	12	132	83
1256/B T	55.000	7,5	15	160	87
1256/C T	70.000	11	22	160	88

8 poli/poles (750 rpm) - trifase/three-phase (3Ph-400V 50Hz)

Modello Model	Portata - Flow rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
568/A T	6.000	0,12	0,7	71	56
638/A T *	8.000	0,18	0,8	80	60
718/A T *	11.000	0,37	1,5	90	61
808/A T *	10.000	0,37	1,5	90	61
808/B T *	13.000	0,37	1,5	90	62
908/A T	17.000	0,75	2,3	100	69
908/B T	20.500	0,75	2,3	100	74
1008/A T	20.500	0,75	2,3	100	74
1008/B T	25.000	1,1	3,4	100	74
1128/C T	40.500	2,2	5,5	132	77
1258/A T	34.500	2,2	5,5	132	81
1258/B T	43.000	3	7,3	132	81
1258/C T	52.000	4	9,3	160	82

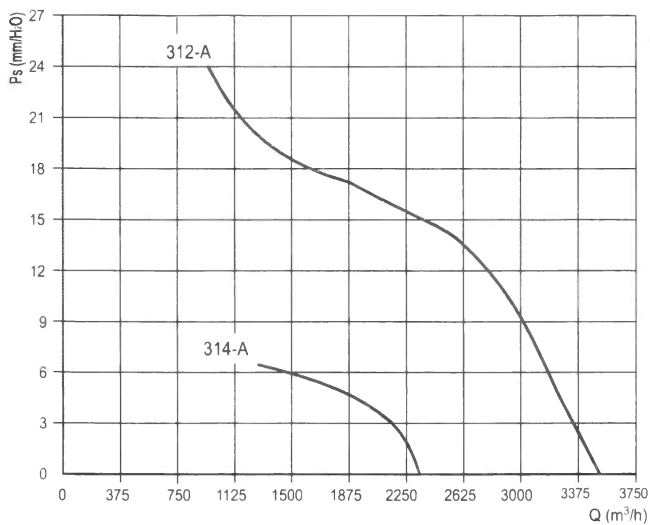
Tolleranze: prestazioni aeruliche e rumorosità rientrano nelle tolleranze indicate nella norma DIN 24166, Classe 2.

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

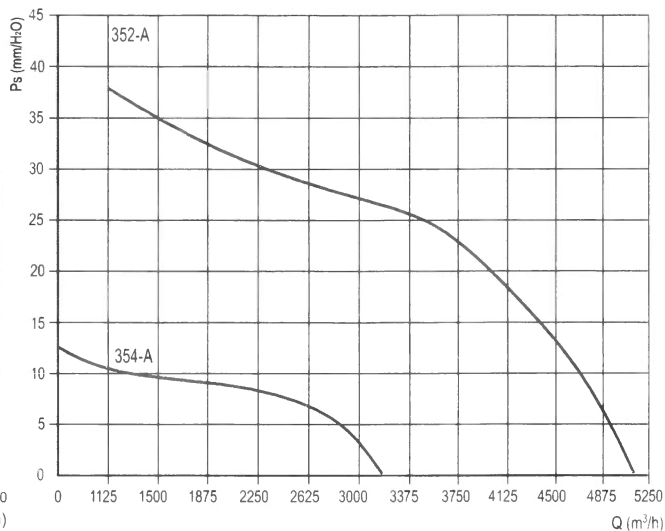
* Solo per installazione extra U.E. - * Only for-non European market

Le prestazioni indicate nei diagrammi si riferiscono al funzionamento con flusso aria da girante a motore alla temperatura di 15°C ed all'altitudine di 0 mt s.l.m., e sono state ottenute in installazioni di tipo "D" in assenza di reti e accessori./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.

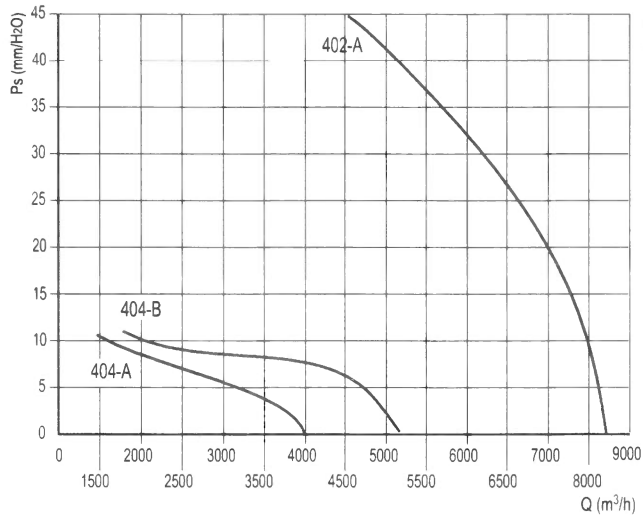
RING 310



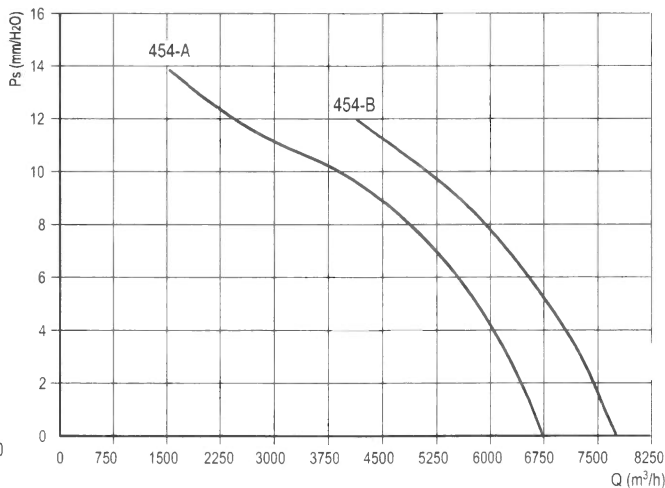
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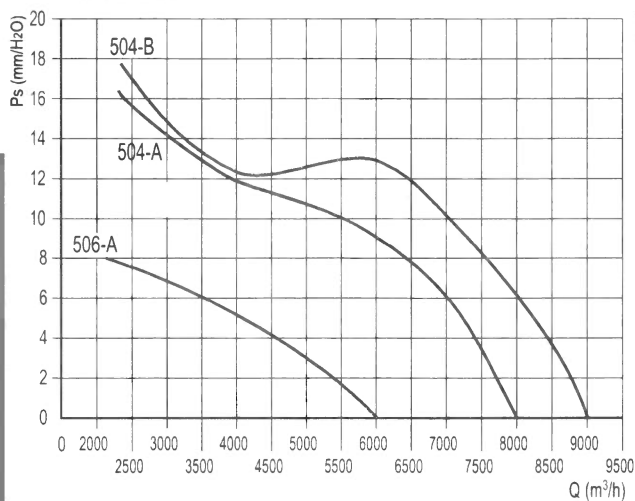
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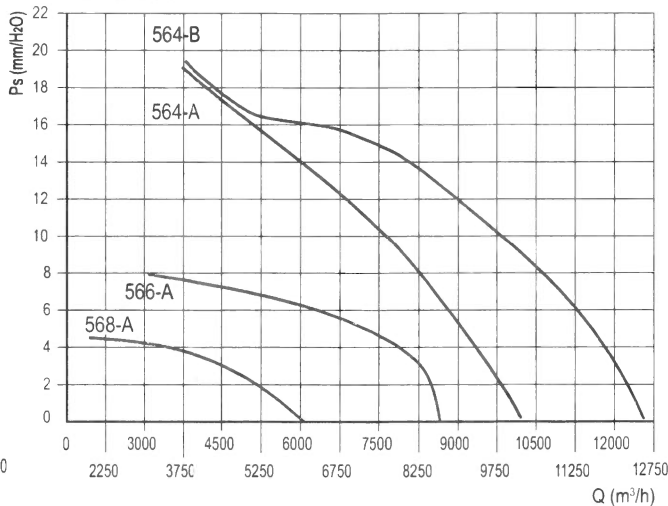
RING 450



RING 500

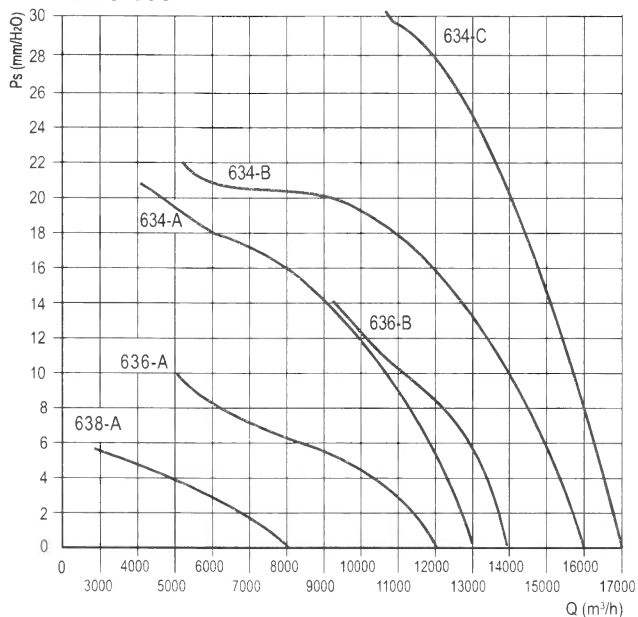


RING 560

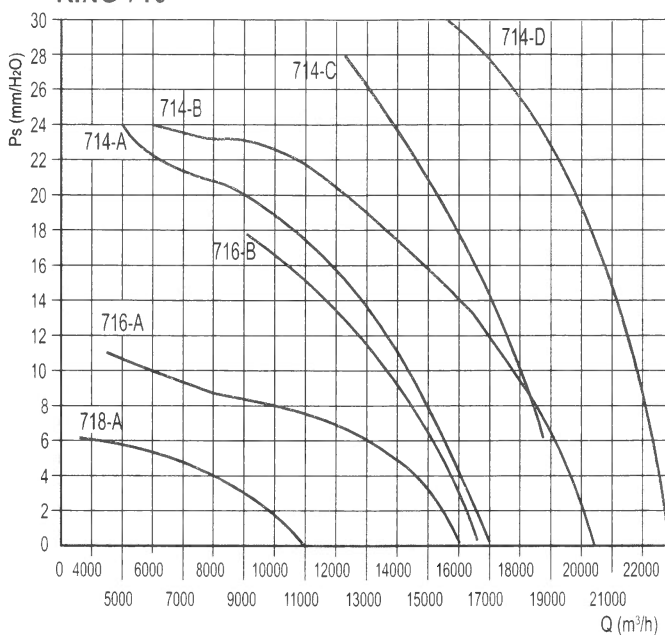


Le prestazioni indicate nei diagrammi si riferiscono al funzionamento con flusso aria da girante a motore alla temperatura di 15°C ed all'altitudine di 0 mt s.l.m., e sono state ottenute in installazioni di tipo "D" in assenza di reti e accessori. / Performance shown in the selection diagrams refer to 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.

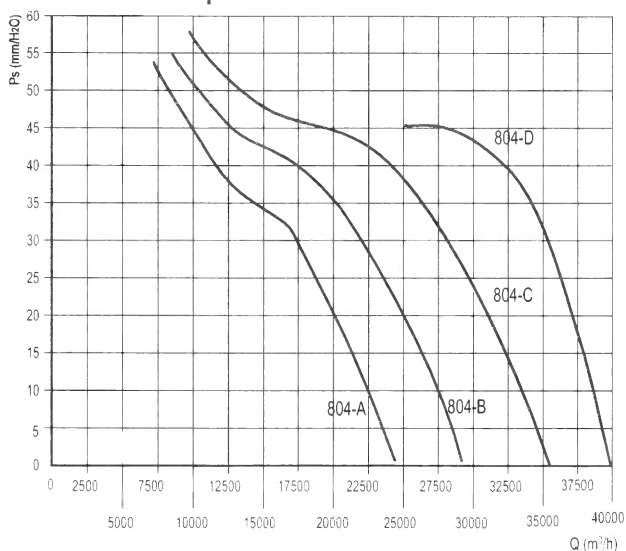
RING 630



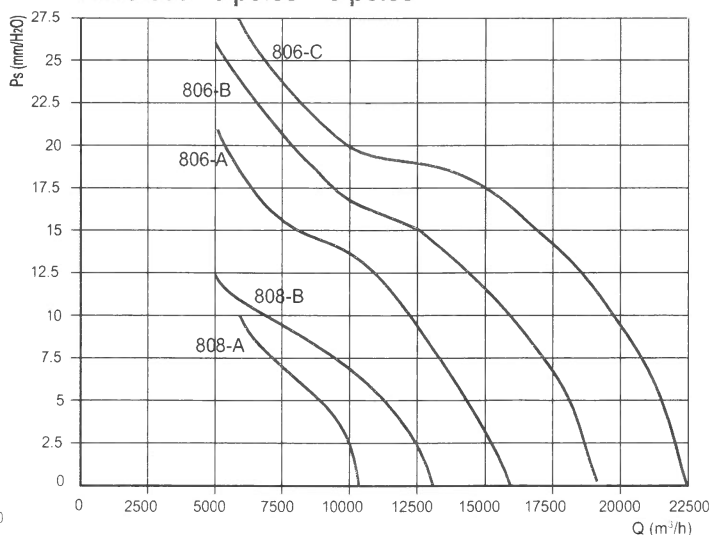
RING 710



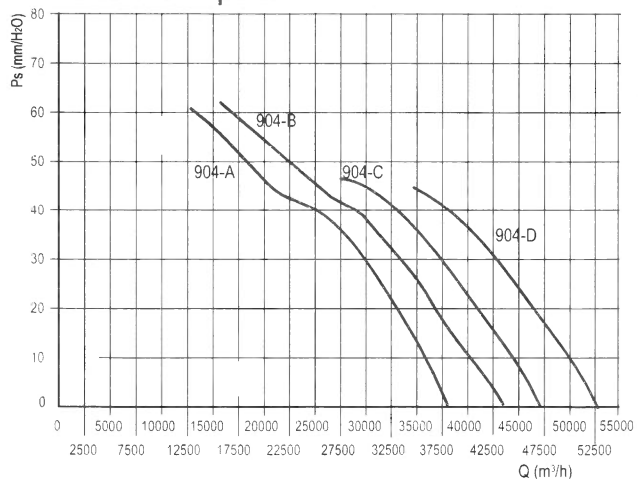
RING 800 - 4 poles



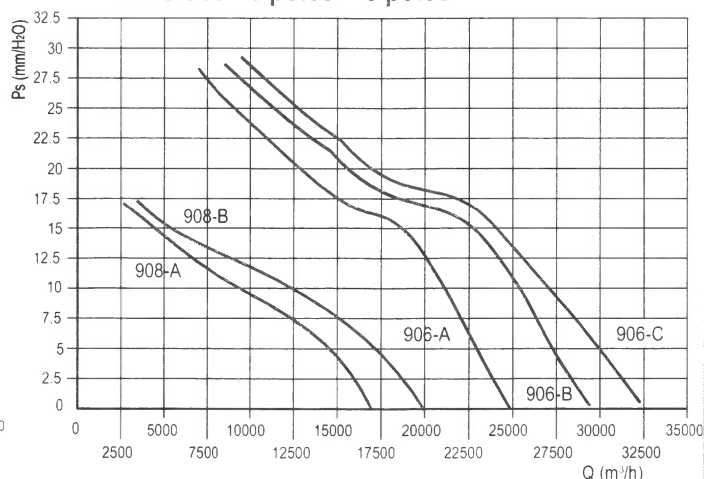
RING 800 - 6 poles - 8 poles



RING 900 - 4 poles

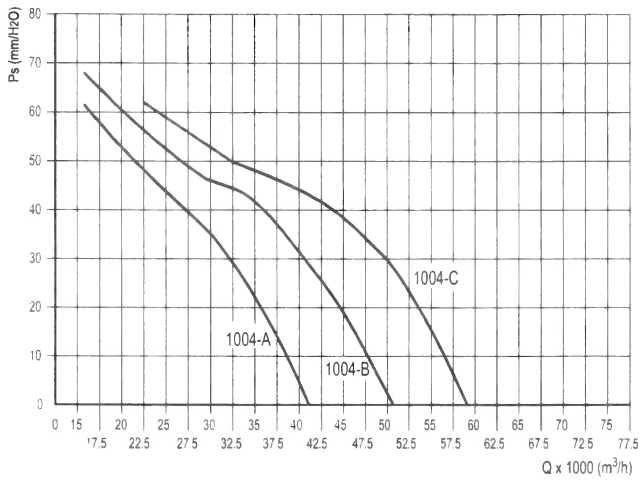


RING 900 - 6 poles - 8 poles

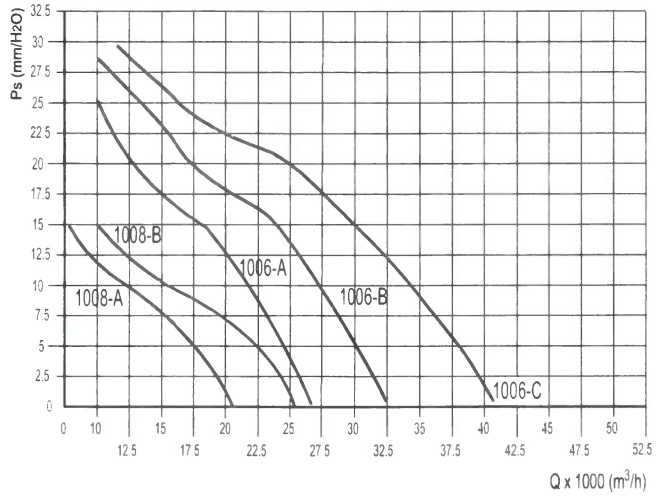


Le prestazioni indicate nei diagrammi si riferiscono al funzionamento con flusso aria da girante a motore alla temperatura di 15°C ed all'altitudine di 0 mt s.l.m., e sono state ottenute in installazioni di tipo "D" in assenza di reti e accessori./Performance shown in the selection diagrams refer to 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.

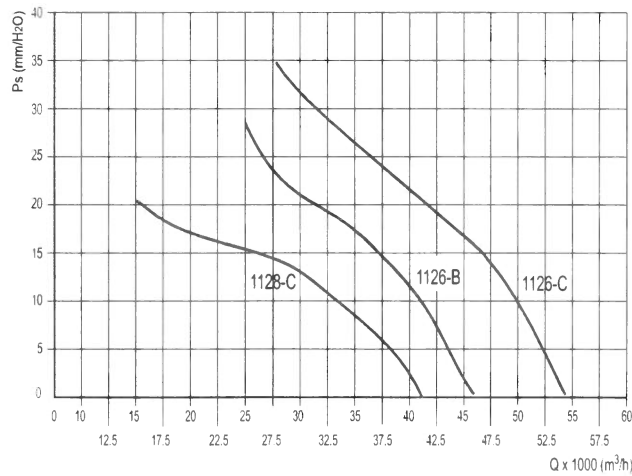
RING 1000 - 4 poles



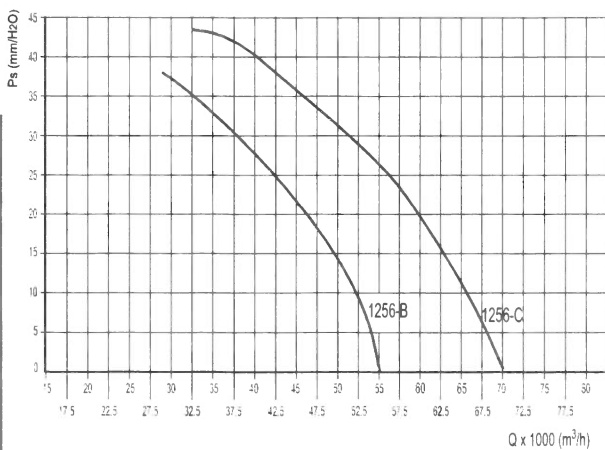
RING 1000 - 6 poles - 8 poles



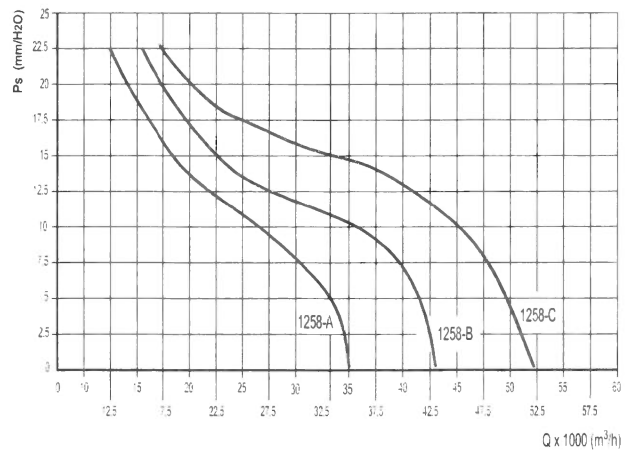
RING 1120 - 6 poles - 8 poles



RING 1250 - 6 poles



RING 1250 - 8 poles

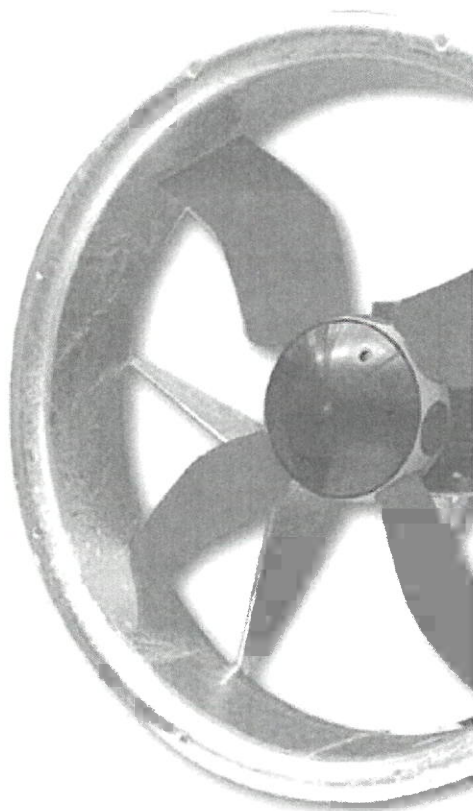


2 Poli/Poles

Model Ring	Hz								Total
	63	125	250	500	1k	2k	4k	8k	
312/A - 0,25 kW	52	61	63	64	65	62	56	47	70
352/A - 0,55 kW	56	65	67	67	68	66	60	51	74
402/A - 1,1 kW	61	70	72	72	73	70	65	56	79

4 Poli/Poles

Model Ring	Hz								Total
	63	125	250	500	1k	2k	4k	8k	
314/A - 0,12 kW	34	43	45	46	47	44	38	29	52
354/A - 0,12 kW	38	47	49	50	51	48	42	33	56
404/A - 0,12 kW	43	52	54	55	56	53	47	38	61
404/B - 0,18 kW	44	53	55	55	56	53	48	38	62
454/A - 0,25 kW	47	56	58	59	60	57	51	42	65
454/B - 0,37 kW	48	57	59	59	60	57	52	42	66
504/A - 0,37 kW	50	59	61	61	63	59	54	44	68
504/B - 0,55 kW	51	60	62	62	63	60	55	45	69
564/A - 0,55 kW	54	62	64	65	66	63	57	48	71
564/B - 0,75 kW	54	63	65	66	67	64	58	49	72
634/A - 0,75 kW	57	66	68	69	70	67	61	52	75
634/B - 1,1 kW	57	65	68	68	69	66	61	51	76
634/C - 2,2 kW	58	66	69	69	70	67	62	52	76
714/A - 1,5 kW	59	68	70	70	71	68	63	53	77
714/B - 2,2 kW	60	68	70	71	72	69	63	54	77
714/C - 2,2 kW	59	68	70	70	71	68	63	53	77
714/D - 3 kW	59	68	70	71	72	69	63	54	77
804/A - 3 kW	60	70	71	72	73	70	64	55	78
804/B - 4 kW	60	70	71	72	73	70	64	55	79
804/C - 5,5 kW	61	70	72	73	74	71	65	56	80
804/D - 7,5 kW	61	70	72	73	74	71	65	56	80
904/A - 5,5 kW	67	76	78	79	80	77	71	62	85
904/B - 7,5 kW	68	77	79	79	80	77	72	62	86
904/C - 7,5 kW	68	77	79	79	80	77	72	62	86
904/D - 9,2 kW	68	77	79	79	80	77	72	62	86
1004/A - 5,5 kW	70	79	82	82	83	80	74	65	88
1004/B - 7,5 kW	71	80	82	83	84	81	75	66	89
1004/C - 11 kW	71	80	82	83	84	81	75	66	89



6 Poli/Poles

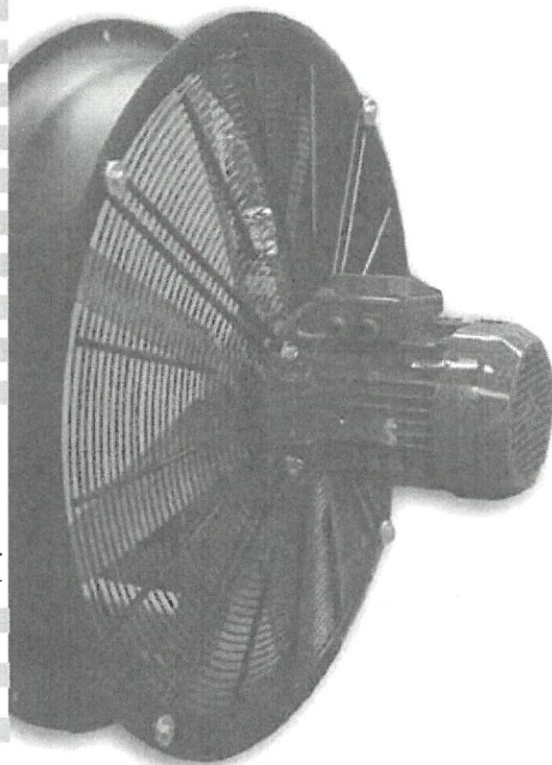
Hz

Model Ring	63	125	250	500	1k	2k	4k	8k	Total
506/A - 0,18 kW	40	49	51	52	53	50	44	35	58
566/A - 0,25 kW	44	53	55	55	46	54	48	39	62
636/A - 0,37 kW	48	57	59	59	69	57	52	42	66
636/B - 0,75 kW	47	56	58	59	60	57	51	42	65
716/A - 0,75 kW	49	58	60	60	61	58	53	43	67
716/B - 1,1 kW	48	57	59	60	61	58	52	43	66
806/A - 0,75 kW	50	59	61	61	62	59	54	44	68
806/B - 1,1 kW	50	59	61	61	62	59	54	44	68
806/C - 1,5 kW	50	59	61	62	63	60	54	45	69
906/A - 1,5 kW	56	65	67	68	69	66	60	51	74
906/B - 2,2 kW	57	66	68	68	69	66	61	51	74
906/C - 2,2 kW	57	66	67	68	69	66	61	51	75
1006/A - 1,5 kW	61	70	72	72	73	70	65	55	79
1006/B - 2,2 kW	61	70	72	72	73	71	65	56	79
1006/C - 3 kW	61	70	73	73	74	71	65	56	80
1126/B - 4 kW	65	74	76	76	77	74	69	60	83
1126/C - 5,5 kW	65	74	76	77	78	75	69	60	83
1256/B - 7,5 kW	69	78	80	80	81	78	73	63	87
1256/C - 11 kW	70	78	80	81	82	79	73	64	88

8 Poli/Poles

Hz

Model Ring	63	125	250	500	1k	2k	4k	8k	Total
568/A - 0,12 kW	38	47	49	49	50	48	42	33	56
638/A - 0,18 kW	42	51	53	53	54	51	46	36	60
718/A - 0,37 kW	43	52	54	54	55	52	47	37	61
808/A - 0,37 kW	44	52	54	54	55	53	47	38	61
808/B - 0,37 kW	44	53	55	55	56	53	48	38	62
908/A - 0,75 kW	51	60	62	63	64	61	55	46	69
908/B - 0,75 kW	51	60	62	63	64	61	55	46	69
1008/A - 0,75 kW	55	64	66	67	68	65	60	50	74
1008/B - 1,1 kW	56	64	67	67	68	65	60	50	74
1128/C - 2,2 kW	59	68	70	71	72	69	63	54	77
1258/A - 2,2 kW	63	72	74	75	76	73	67	58	81
1258/B - 3 kW	63	72	74	75	76	73	67	58	81
1258/C - 4 kW	63	72	75	75	76	73	68	58	82

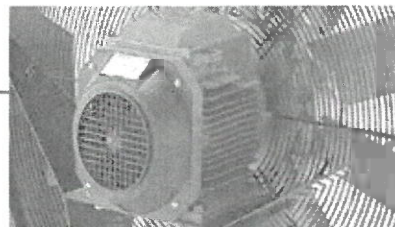


Attenzione: il livello di pressione sonora è riferito ad una misurazione onnidirezionale in campo libero a 3 m dal ventilatore con aspirazione e mandata canalizzate.

Attention: sound pressure level is measured in free field at 3 m from the fan, in any direction, with ducted inlet and outlet

RING Dimensioni

Dimensions

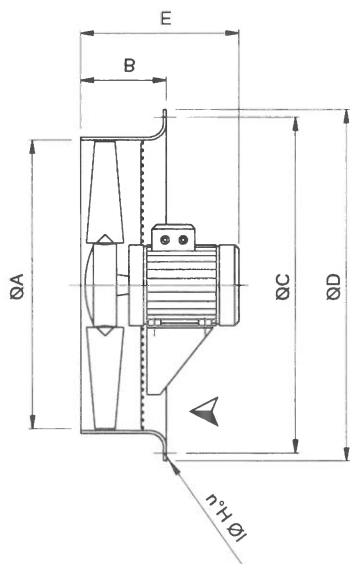


Modello	ØA	B(sr)	B(dr)	B(drp)	ØC	ØD	E(*)	ØF	ØG	n°H	ØI	n°L	ØM	Kg
25	250	135	150	-	310	320	300	-	-	4	8	-	-	9/13
31	310	135	150	150	365	390	330	-	-	4	8	-	-	9/14
35	360	135	150	150	430	455	350	-	-	4	8	-	-	13/19
40	410	135	150	150	480	510	370	450	480	4	10	8	12	14/26
45	460	150	150	150	535	560	370	500	530	4	10	8	12	20/30
50	510	150	150	150	590	620	370	560	595	8	10	12	12	21/36
56	570	180	180	180	645	680	400	620	655	8	10	12	12	24/40
60	610	180	180	180	680	720	430	640	670	8	10	12	12	31/53
63	640	180	180	180	720	750	440	690	725	8	10	12	12	32/54
71	710	180	180	180	780	816	480	770	805	8	12	16	12	39/90
80	810	200	200	200	880	915	610	860	900	8	12	16	12	44/115
90	910	250	250	250	980	1015	660	970	1010	16	12	16	16	65/190
100	1010	250	250	250	1080	1115	790	1070	1110	16	12	16	16	95/230
112	1130	250	250	250	1226	1250	720	1190	1230	16	12	20	16	110/295
125	1260	250	250	250	1350	1380	790	1320	1360	16	12	20	16	133/305

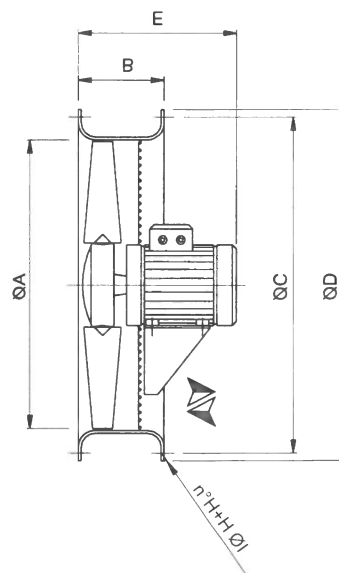
Dimensioni in mm/Dimensions in mm

(*) Indicativa/Indicative

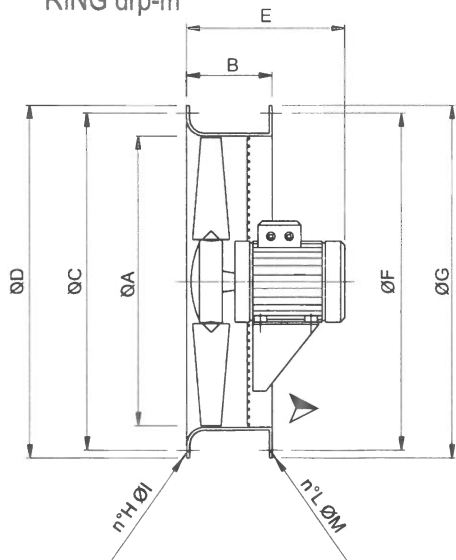
RING sr



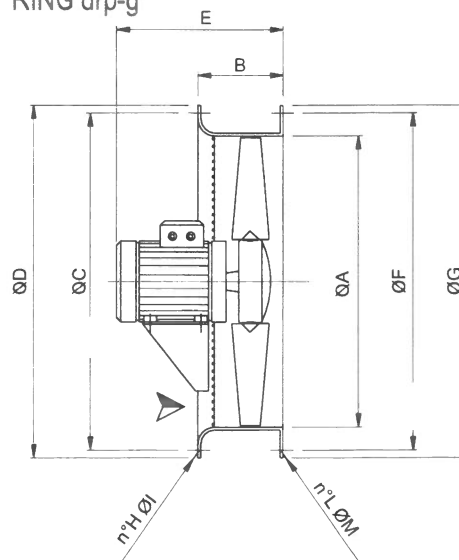
RING dr

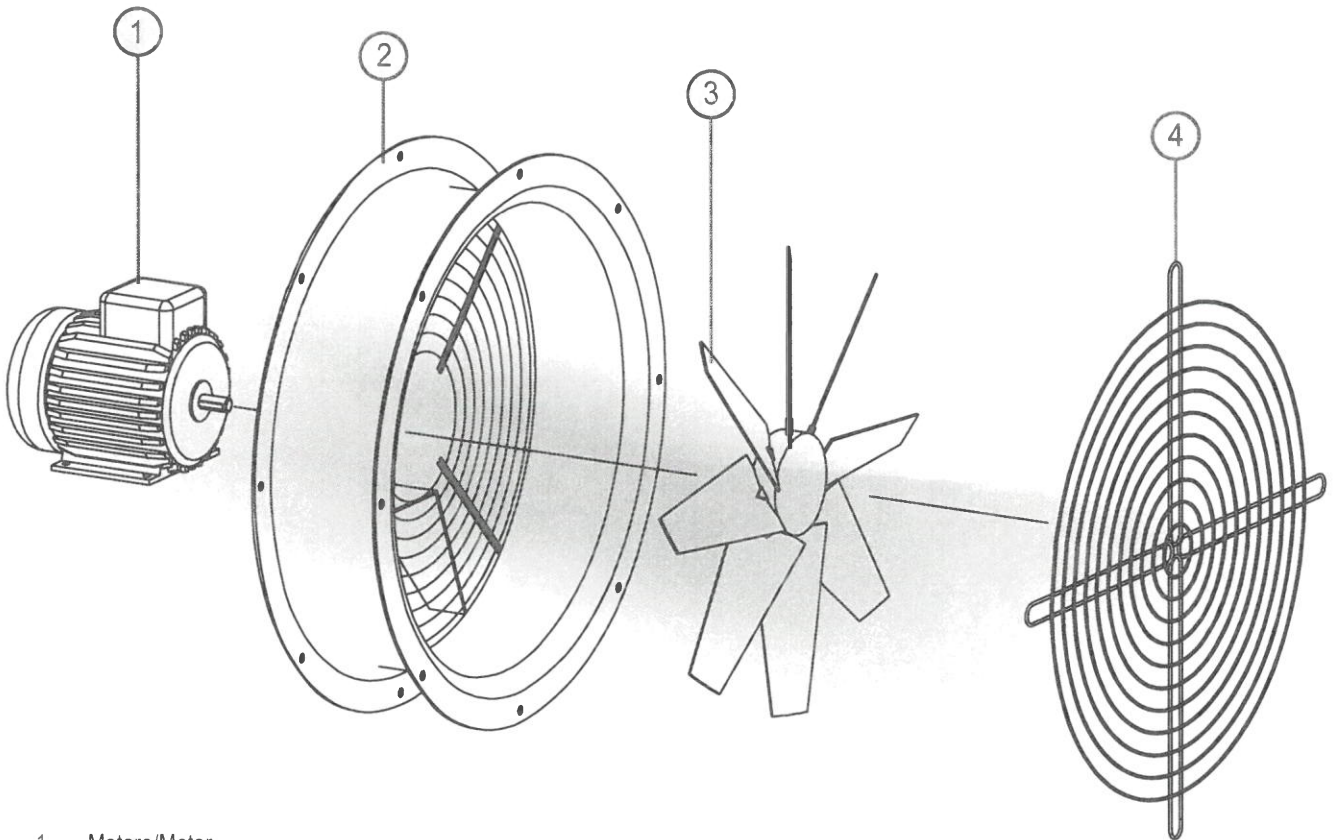
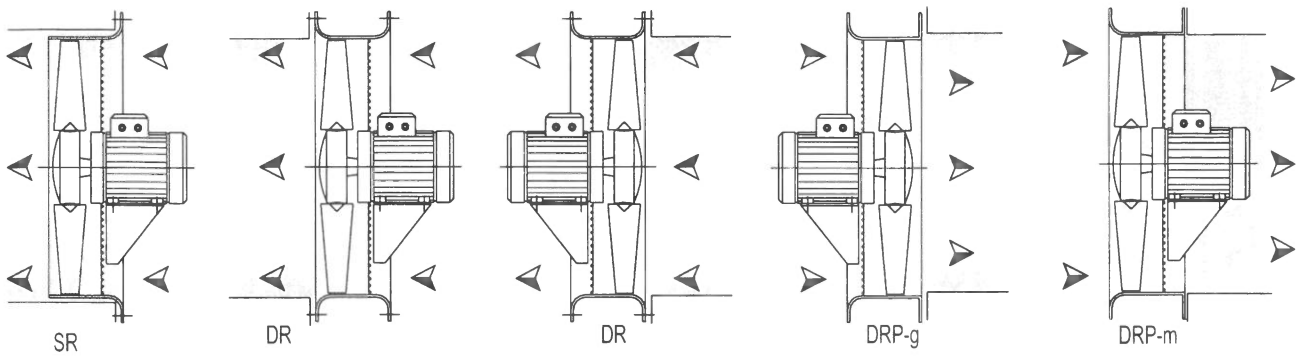


RING drp-m



RING drp-g

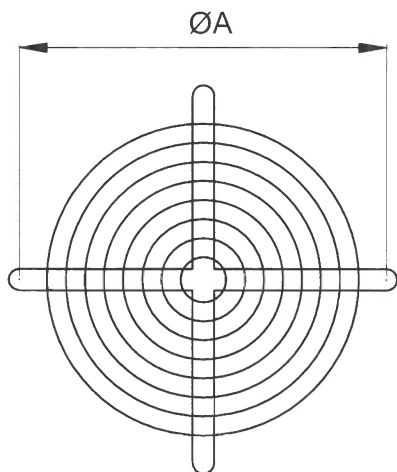




- 1 - Motore/Motor
- 2 - Convogliatore con rete lato motore
Casing with motor side grid
- 3 - Girante/Impeller
- 4 - Rete lato girante "accessorio"
(obbligatoria per l'utilizzo a bocca libera)
Grid impeller side "accessory"
(mandatory for free air)

RETE LATO GIRANTE: FPG-RI

Serve ad evitare l'intrusione, dal lato girante, di volatili, roditori ed impedire il contatto accidentale con la girante in rotazione. Realizzata in filo d'acciaio elettrosaldato, nel rispetto della normativa antinfortunistica. Va specificato se per RING-sr (PG-P/RI sr) o RING-dr (FPG-RI dr). (Necessaria nell'utilizzo a bocca libera)



IMPELLER SIDE PROTECTION GUARD: FPG-RI

To be used to avoid the intrusion, from the impeller side, of birds or rats and to preserve from the casual contact with the rotating impeller. It is manufactured in steel rod according to the actual safety directive. Shall be specified if required for RING-sr (PG-P/RI sr) or RING-dr (FPG-RI dr). (Necessary for use in free air)

Model	ØA	kg
FPG-RI 31	355	0,6
FPG-RI 35	395	0,7
FPG-RI 40	450	0,9
FPG-RI 45	500	1
FPG-RI 50	560	1,3
FPG-RI 56	620	1,5
FPG-RI 63	690	1,8
FPG-RI 71	770	2,5
FPG-RI 80	860	3
FPG-RI 90	970	4
FPG-RI 100	1070	5
FPG-RI 112	1190	8
FPG-RI 125	1320	10
FPG-RI 140	1580	14
FPG-RI 160	1810	20

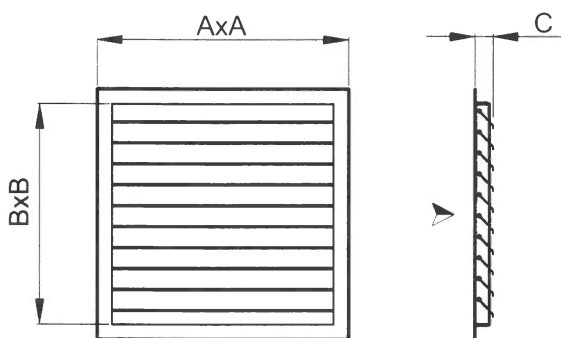
SERRANDA: SG e SG-HP

SG - SG-HP - Le alette della serranda si aprono con il movimento dell'aria a ventilatore acceso e si richiudono per gravità al suo spegnimento, evitando dispersioni di calore, l'entrata di pioggia, vento e volatili. Costruite interamente in materiale plastico (SG) o in lamiera e materiale plastico (SG-HP)

GRAVITY SHUTTER: SG and SG-HP

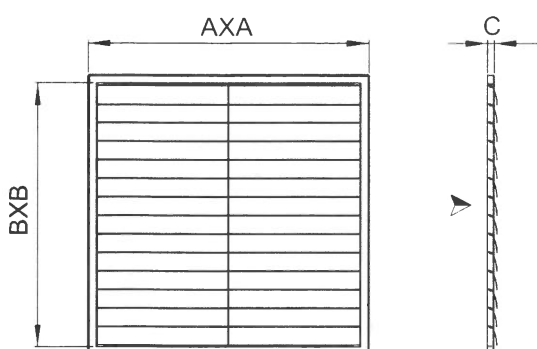
The fins of the shutter are opened by the air movement when the fan is operating and they shutdown by gravity when it is switched off, avoiding heat dispersions, the intrusion of rain, wind and birds. Made in plastic material (SG) or steel sheet and plastic material (SG-HP).

SERRANDA/GRAVITY SHUTTER: SG



Model	A	B	C	kg	* V Max
SG 31	370	300	35	0,6	20
SG 35	440	370	35	0,8	18
SG 40-45	510	440	35	1	15
SG 50	580	510	35	1,2	13
SG 56	650	580	35	1,6	11
SG 63	720	650	35	2,6	9
SG 71	785	715	35	3	8,7

SERRANDA/GRAVITY SHUTTER: SG-HP

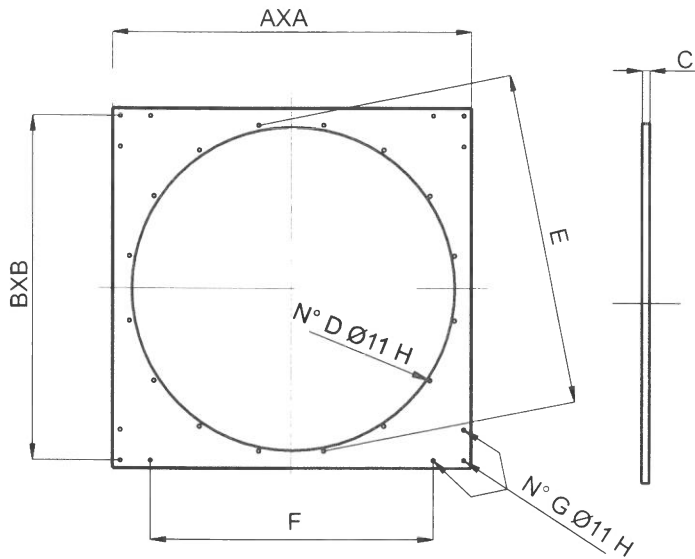


Model	A	B	C	kg	* V Max
SG-HP 63	720	650	35	3,2	25
SG-HP 71	785	715	35	3,6	22
SG-HP 80	920	850	25	6,8	19
SG-HP 90	960	900	25	9	19
SG-HP 100	1060	1000	25	11	17

* **ATTENZIONE:** non superare la velocità dell'aria in m/s indicata

* **WARNING:** don't exceed the indicated air speed (m/s)

PANNELLO QUADRATO/SQUARE PANEL: SQ



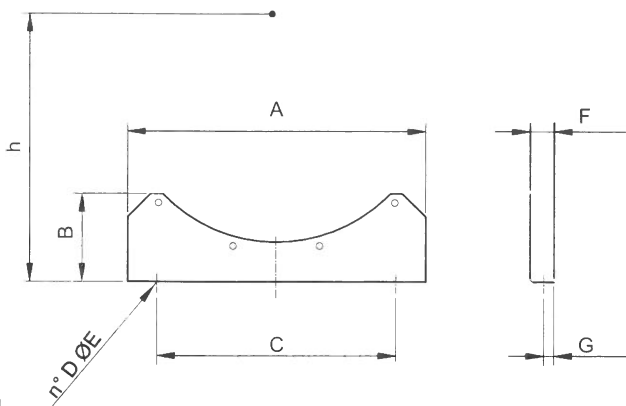
Model	A	B	C	D	E	F	G	H	kg
SQ 80	970	910	15	8	880	-	4	11	7
SQ 90	1080	1030	25	16	980	830	12	11	13
SQ 100	1170	1120	25	16	1080	920	12	11	14
SQ 112	1360	1300	30	16	1226	1000	12	11	15
SQ 125	1440	1380	30	16	1350	1080	12	11	20
SQ 140	1700	1640	45	16	1580	1100	12	16	35
SQ 160	1920	1860	45	24	1810	1200	12	16	50

PIEDI DI FISSAGGIO (FF-RI)

Consentono l'ancoraggio del ventilatore. Realizzate in lamiera d'acciaio e protette contro gli agenti atmosferici.

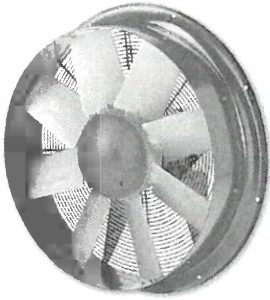
FIXING FEET (FF-RI)

They allow the fan fixing. Manufactured in steel sheet and protected against the atmospheric agents.



Model	A	B	C	D	ØE	h	F	G	kg
FF-RI 31	350	125	250	2	10	235	40	16	2
FF-RI 35	350	125	250	2	10	268	40	16	2
FF-RI 40	450	145	250	2	10	285	40	16	3
FF-RI 45	450	145	250	2	10	310	40	16	3
FF-RI 50	500	160	200	3	12	380	40	16	3.6
FF-RI 56	560	170	230	3	12	410	40	16	5
FF-RI 63	630	170	240	3	12	450	40	16	6
FF-RI 71	710	180	275	3	12	490	40	16	6.2
FF-RI 80	800	200	330	3	12	540	40	16	7.6
FF-RI 90	900	340	370	3	12	600	40	16	12
FF-RI 100	900	370	370	3	12	650	40	16	12.8
FF-RI 112	1120	380	380	3	12	710	50	20	19
FF-RI 125	1250	420	420	3	12	770	50	20	21.2
FF-RI 140	1400	360	400	4	16	870	70	25	37.6
FF-RI 160	1600	470	500	4	20	980	70	25	44

RINGsr 634/C T



APPLICATIONS

RINGSR line is ideal when large air capacities are required; in applications for wall, panel or duct fixing. For instance: ventilation of industrial buildings, car parks, stock farms, cooling of electric and refrigerating equipments etc.

RANGE

This line consists of 13 sizes with impeller diameter from 300 up to 1250 mm.

ADVANTAGES

RINGSR line is characterized by the extreme sturdiness due to the strengthened construction of the casing manufactured with thickness higher than the standard PLATE fans. The wide round shaped cones directly drawn on the casing guarantee maximum silent and efficiencies normally obtained only in axial fan with bell mouth. This construction together with our fully reversible symmetrical profile impellers allows getting the 100% reversibility of the airflow. Normally the axial fans allow the reversibility of the airflow by switching two lines of phase of the electric supply and assembling 50% of the blades for intake and the other 50% for exhaust; in both cases with very low efficiencies. The use of the RINGSR line with the fully reversible symmetrical profile impeller, consents to obtain the same performances in both the airflow directions with high efficiencies.

CONSTRUCTION

- RINGSR casing, with wide round shaped nozzle, in epoxy painted steel sheet.
- Motor side protection grid, manufactured according to UNI EN ISO 12499, and protected against the atmospheric agents. Impeller with high efficiency airfoil blades, in plastic material or in die-cast aluminum alloy; hub is in die-cast aluminum alloy. Balancing according to UNI ISO 1940. Variable pitch angle in still position.
- Electric motor, protection IP 55, class F insulated, service S1, construction according to IEC/EEC (UNEL-MEC).
- Arrangement 4 (impeller directly coupled to motor shaft):

TECHNICAL SPECIFICATIONS

- Conveyed air: clean, not abrasive.
- Temperature of conveyed air: -20°C / +50°C.
- Voltage: three-phase version (T) 400V-3Ph - 50Hz
- single-phase version (M) 230V-1Ph-50Hz
- Air flow from motor to impeller, position A (FMG).

ON REQUEST

- Version without motor side grid.
- Performances different from standard
- Version with die-cast aluminum blades.
- Version with true reversible air flow direction (RINGSR-rev)
- Version with casing in stainless steel, aluminum or hot dip galvanised steel.
- Version with casing with one round shaped inlet and one flat, impeller side (RINGSR drp-g) or motor side (RINGSR drp-m).
- Explosion proof version (RINGSR-Atex).
- Version with air flow from impeller to motor, position B (FGM).
- Version with B5 motor mounting type, fixed to the casing through a grid

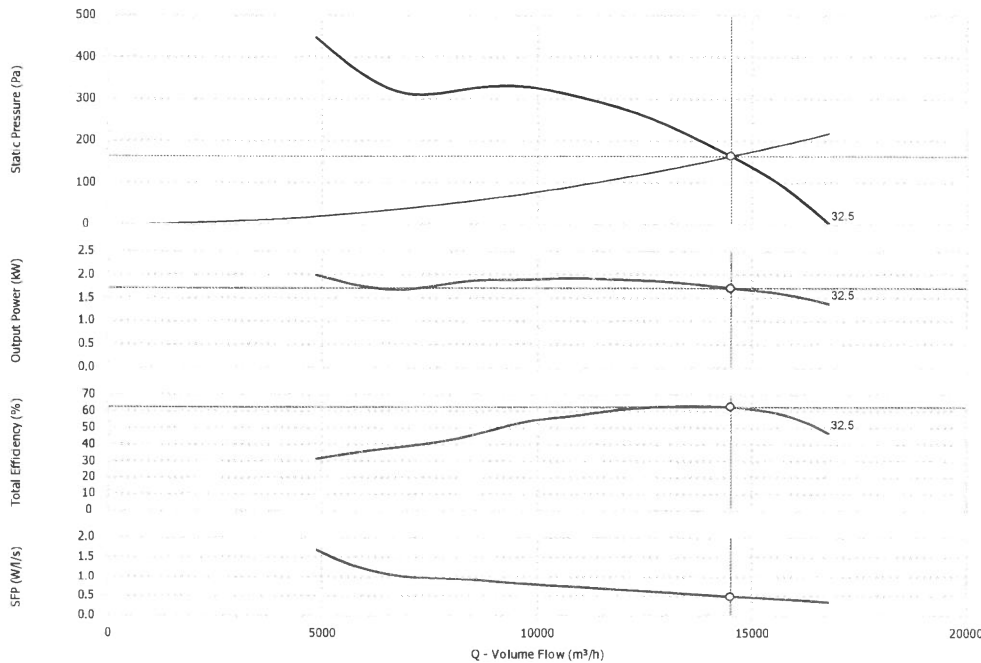


Date: юни 27 2023
 Company: -
 Contact: -
 Project: -
 Reference: -

Elektrovent S.r.l.
 Via Delle Pozzette 18
 Soiano del Lago, BS Italy 25080
 Tel. +39 0365 671051
 Fax +39 0365 671048

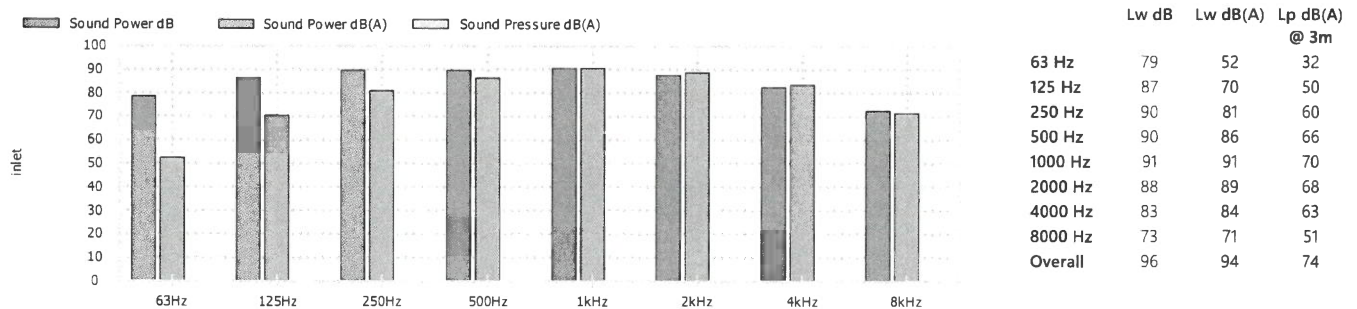
RINGsr 634/C T

FAN PERFORMANCE



Requested Point	
Q	14 500 m ³ /h
Ps	162 Pa
Selected Point	
Q	14 515 m ³ /h
Ps	163 Pa
Pd	102 Pa
Pt	265 Pa
Fan Speed	1430 rpm
Conditions	
	15 °C @ 0 m
	1.22 kg/m ³
Temperature	-20°C / +50°C
Outlet Velocity	12.93 m/s
SFP	0.49 W/l/s
Output Power	1.71 kW

PERFORMANCE MODELS ARE PREPARED WITH GREAT CARE AND THE DATA ARE CHECKED FOR CORRECTNESS. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.



AIR PERFORMANCE AND SOUND POWER LEVELS ARE WITHIN THE TOLERANCES ALLOWED BY THE DIN 24166 STANDARD FOR CLASS 2. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.

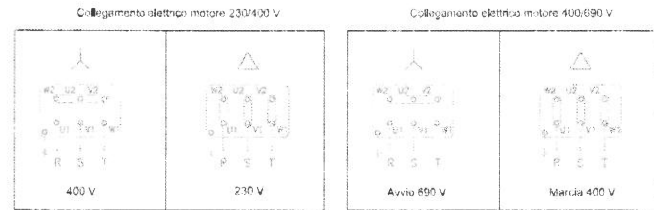
TECHNICAL INFORMATION

Product Code	900RG063.027	Impeller Type	Group-RingAx
Impeller Name	EK 630/224 8	Air Volume	14 500 (14 515) m ³ /h
Static Pressure	162 (163) Pa	Total Pressure	265 Pa
Outlet Velocity	12.93 m/s	Fan Total Efficiency	62.5 %
Fan Static Efficiency	38.4 %	Fan Output Power	1.71 kW
SFP	0.49 W/l/s	Air Density	15 °C @ 0 m 1.22 kg/m ³
Temperature Range	-20°C / +50°C		
ERP INFORMATION			
Optimal Efficiency	54.20%	Installation Type	B
Efficiency Category	Total	N	59
Variable Speed Drive	False	Manufacturer	Elektrovent
Reference	RINGsr 634/C T	Optimal Power	2.04 kW
Optimal Airflow	14 040 m ³ /h	Optimal Pressure	284 Pa
Optimal Speed	1430rpm	ERP Compliance	2015

RINGsr 634/C T

MOTOR INFORMATION

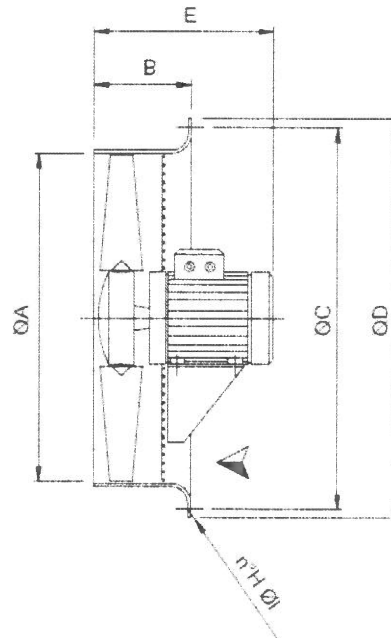
Electrical Supply	400/3/50
Motor Rating	2.2 kW
Energy Class	IE3
Full Load Current	4.5 A
Frame Size	100
Motor Poles	4
Motor Speed	1450 rpm



Questo collegamento necessita di un commutatore stella triangolo
 The above wiring needs a delta-star switch

DRAWING AND DIMENSIONS

Key	ØA	B(sr)	B(dr)	B(drp)	ØC	ØD	E(*)	ØF	ØG	n°H	ØI	n°L	ØM	Kg
Value	640	180	180	180	720	750	440	690	725	8	10	12	12	32/54



PERFORMANCE MODELS ARE PREPARED WITH GREAT CARE AND THE DATA ARE CHECKED FOR CORRECTNESS. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.



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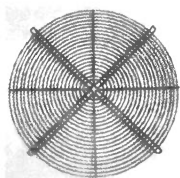
Elektrovent S.r.l.
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RINGsr 634/C T

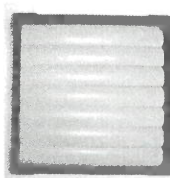
AVAILABLE ACCESSORIES

FREE CODE

FREE CODE



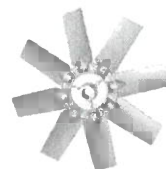
FPG/RIsr 630 RETE LATO
GIRANTE/ IMPELLER SIDE
GRID



SG-HP 630 SERRANDA/
SHUTTER

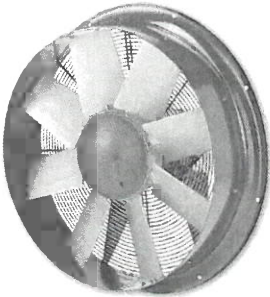


FF-RI PIEDI/ SUPPORT
FEET 630



EXTRA PALE IN
ALLUMINIO/ ALU BLADES
RING/ DUCT 630

RINGsr 1004/A T



APPLICATIONS

RINGSR line is ideal when large air capacities are required; in applications for wall, panel or duct fixing. For instance: ventilation of industrial buildings, car parks, stock farms, cooling of electric and refrigerating equipments etc.

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RINGSR line is characterized by the extreme sturdiness due to the strengthened construction of the casing manufactured with thickness higher than the standard PLATE fans. The wide round shaped cones directly drawn on the casing guarantee maximum silent and efficiencies normally obtained only in axial fan with bell mouth. This construction together with our fully reversible symmetrical profile impellers allows getting the 100% reversibility of the airflow. Normally the axial fans allow the reversibility of the airflow by switching two lines of phase of the electric supply and assembling 50% of the blades for intake and the other 50% for exhaust; in both cases with very low efficiencies. The use of the RINGSR line with the fully reversible symmetrical profile impeller, consents to obtain the same performances in both the airflow directions with high efficiencies.

CONSTRUCTION

- RINGSR casing, with wide round shaped nozzle, in epoxy painted steel sheet.
- Motor side protection grid, manufactured according to UNI EN ISO 12499, and protected against the atmospheric agents. Impeller with high efficiency airfoil blades, in plastic material or in die-cast aluminum alloy; hub is in die-cast aluminum alloy. Balancing according to UNI ISO 1940. Variable pitch angle in still position.
- Electric motor, protection IP 55, class F insulated, service S1, construction according to IEC/EEC (UNEL-MEC).
- Arrangement 4 (impeller directly coupled to motor shaft):

TECHNICAL SPECIFICATIONS

- Conveyed air: clean, not abrasive.
- Temperature of conveyed air: -20°C / +50°C.
- Voltage: three-phase version (T) 400V-3Ph - 50Hz
- single-phase version (M) 230V-1Ph-50Hz
- Air flow from motor to impeller, position A (FMG).

ON REQUEST

- Version without motor side grid.
- Performances different from standard
- Version with die-cast aluminum blades.
- Version with true reversible air flow direction (RINGSR-rev)
- Version with casing in stainless steel, aluminum or hot dip galvanised steel.
- Version with casing with one round shaped inlet and one flat, impeller side (RINGSR drp-g) or motor side (RINGSR drp-m).
- Explosion proof version (RINGSR-Atex).
- Version with air flow from impeller to motor, position B (FGM).
- Version with B5 motor mounting type, fixed to the casing through a grid

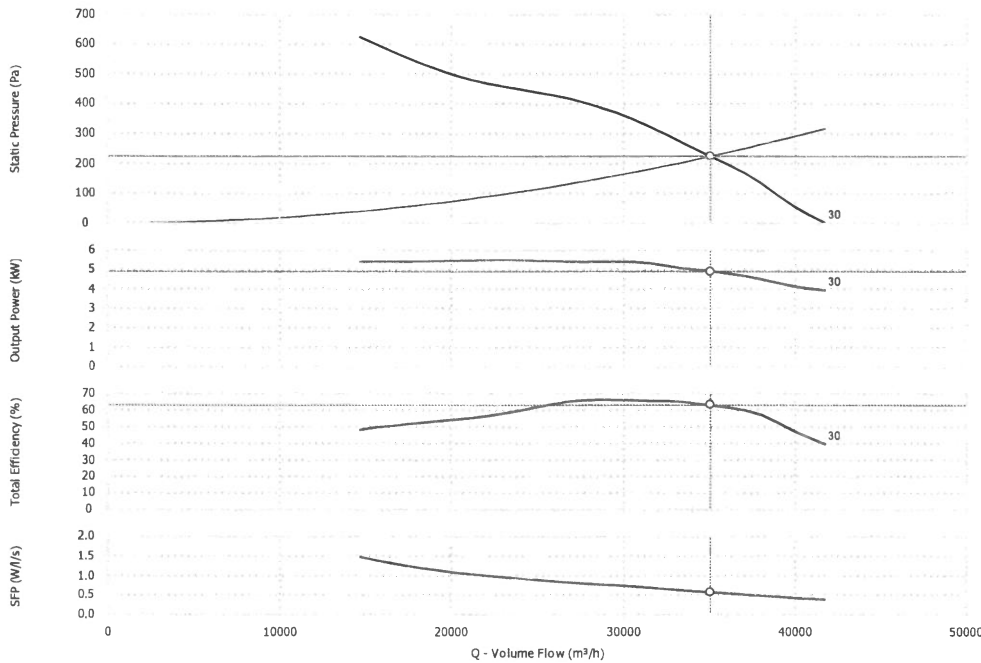


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 Reference: -

Elektrovent S.r.l.
 Via Delle Pozzette 18
 Soiano del Lago, BS Italy 25080
 Tel. +39 0365 671051
 Fax +39 0365 671048

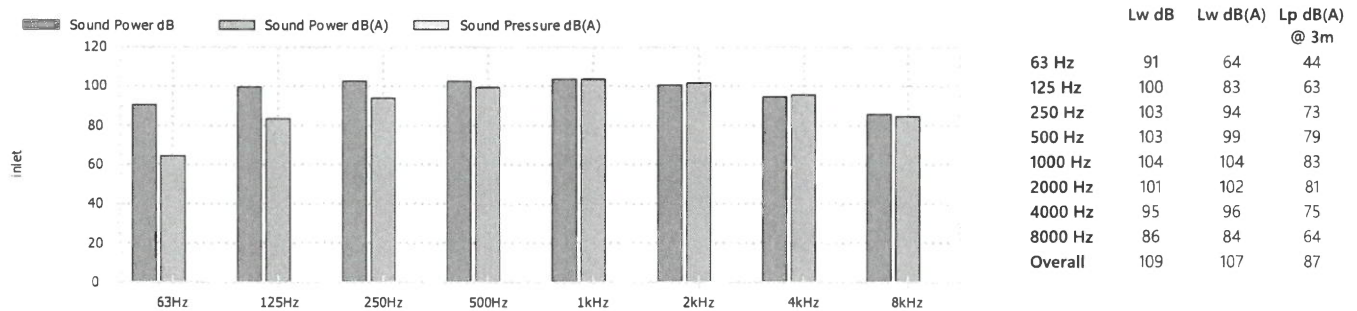
RINGsr 1004/A T

FAN PERFORMANCE



Requested Point	
Q	35 063 m ³ /h
Ps	224 Pa
Selected Point	
Q	35 045 m ³ /h
Ps	224 Pa
Pd	94 Pa
Pt	318 Pa
Fan Speed	1450 rpm
Conditions	15 °C @ 0 m 1.22 kg/m ³
Temperature	-20°C / +50°C
Outlet Velocity	12.39 m/s
SFP	0.56 W/l/s
Output Power	4.91 kW

PERFORMANCE MODELS ARE PREPARED WITH GREAT CARE AND THE DATA ARE CHECKED FOR CORRECTNESS. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.



AIR PERFORMANCE AND SOUND POWER LEVELS ARE WITHIN THE TOLERANCES ALLOWED BY THE DIN 24166 STANDARD FOR CLASS 2. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.

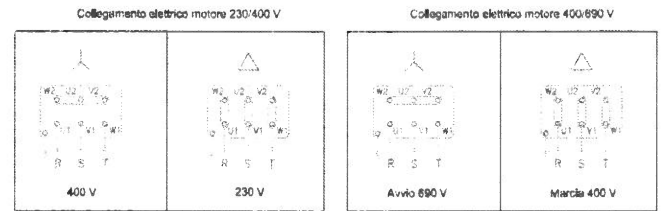
TECHNICAL INFORMATION

Product Code	900RG100.051	Impeller Type	Group-RingAx
Impeller Name	EK 1000/224 8	Air Volume	35 063 (35 045) m ³ /h
Static Pressure	224 (224) Pa	Total Pressure	318 Pa
Outlet Velocity	12.39 m/s	Fan Total Efficiency	63 %
Fan Static Efficiency	44.4 %	Fan Output Power	4.91 kW
SFP	0.56 W/l/s	Air Density	15 °C @ 0 m 1.22 kg/m ³
Temperature Range	-20°C / +50°C		
ERP INFORMATION			
Optimal Efficiency	58.54%	Installation Type	B
Efficiency Category	Total	N	61
Variable Speed Drive	False	Manufacturer	Elektrovent
Reference	RINGsr 1004/A T	Optimal Power	5.30 kW
Optimal Airflow	28 044 m ³ /h	Optimal Pressure	398 Pa
Optimal Speed	1450rpm	ERP Compliance	2015

RINGsr 1004/A T

MOTOR INFORMATION

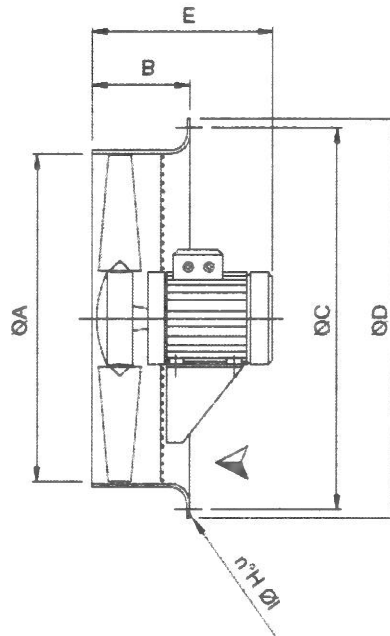
Electrical Supply	400/3/50
Motor Rating	5.5 kW
Energy Class	IE3
Full Load Current	10.6 A
Frame Size	132
Motor Poles	4
Motor Speed	1460 rpm



Questo collegamento necessita di un commutatore stella triangolo
 The above wiring needs a delta-star switch

DRAWING AND DIMENSIONS

Key	ØA	B(sr)	B(dr)	B(drp)	ØC	ØD	E(*)	ØF	ØG	n°H	ØI	n°L	ØM	Kg
Value	1010	250	250	250	1080	1115	790	1070	1110	16	12	16	16	95/230



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Date: юни 27 2023
Company: -
Contact: -
Project: -
Reference: -

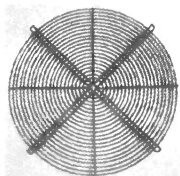
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RINGsr 1004/A T

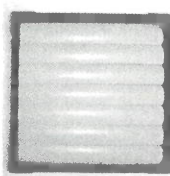
AVAILABLE ACCESSORIES

FREE CODE

FREE CODE



FPG/RIsr 1000 RETE LATO
GIRANTE/ IMPELLER SIDE
GRID



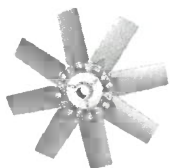
SG-HP 1000 SERRANDA/
SHUTTER



SQ 1000 PANNELLO
QUADRO/ SQUARE PANEL



FF-RI PIEDI/ SUPPORT
FEET 1000



EXTRA PALE IN
ALLUMINIO/ ALU BLADES
RING/ DUCT 1000