CBI®

VR



VENTILATION PRODUCTS

cat. VR ita 2013 R03

Descrizione Generale

I ventilatori centrifughi direttamente accoppiati al motore elettrico della serie VR sono il risultato della nostra esperienza nel campo della progettazione e della costruzione di macchine per il trasporto di fluidi.

Versatilità ed affidabilità sono le caratteristiche principali di queste serie che trovano impiego in molteplici settori quali l'aspirazione di vapore, gli impianti di essicazione, le macchine di stampaggio delle materie plastiche ed in tutte quelle applicazioni dove è richiesta una piccola portata con pressione limitata.

Serie VR

La coclea è in alluminio pressofuso sabbiato, la girante in lamiera zincata, è del tipo a pale in avanti.
La serie è prodotta in 5 grandezze costruttive con la girante da 108 a 180 mm di diametro.
A richiesta sono fornibili con forature o maschiature in aspirazione.

I ventilatori possono avere rotazione oraria (RD) o rotazione antioraria (LG).
E' possibile avere tutti gli orientamenti riportati a pagina 12 sia utilizzando il motore elettrico in forma B3/B5, sia utilizzando un apposito basamento in pressofusione come riportato a pagina 15.

In esecuzione normale il ventilatore VR può convogliare fluidi sino alla ad una temperatura di 80 °C con una umidità relativa inferiore all'80%.
In esecuzione (T°) può convogliare fluidi sino alla temperatura di 150 °C.

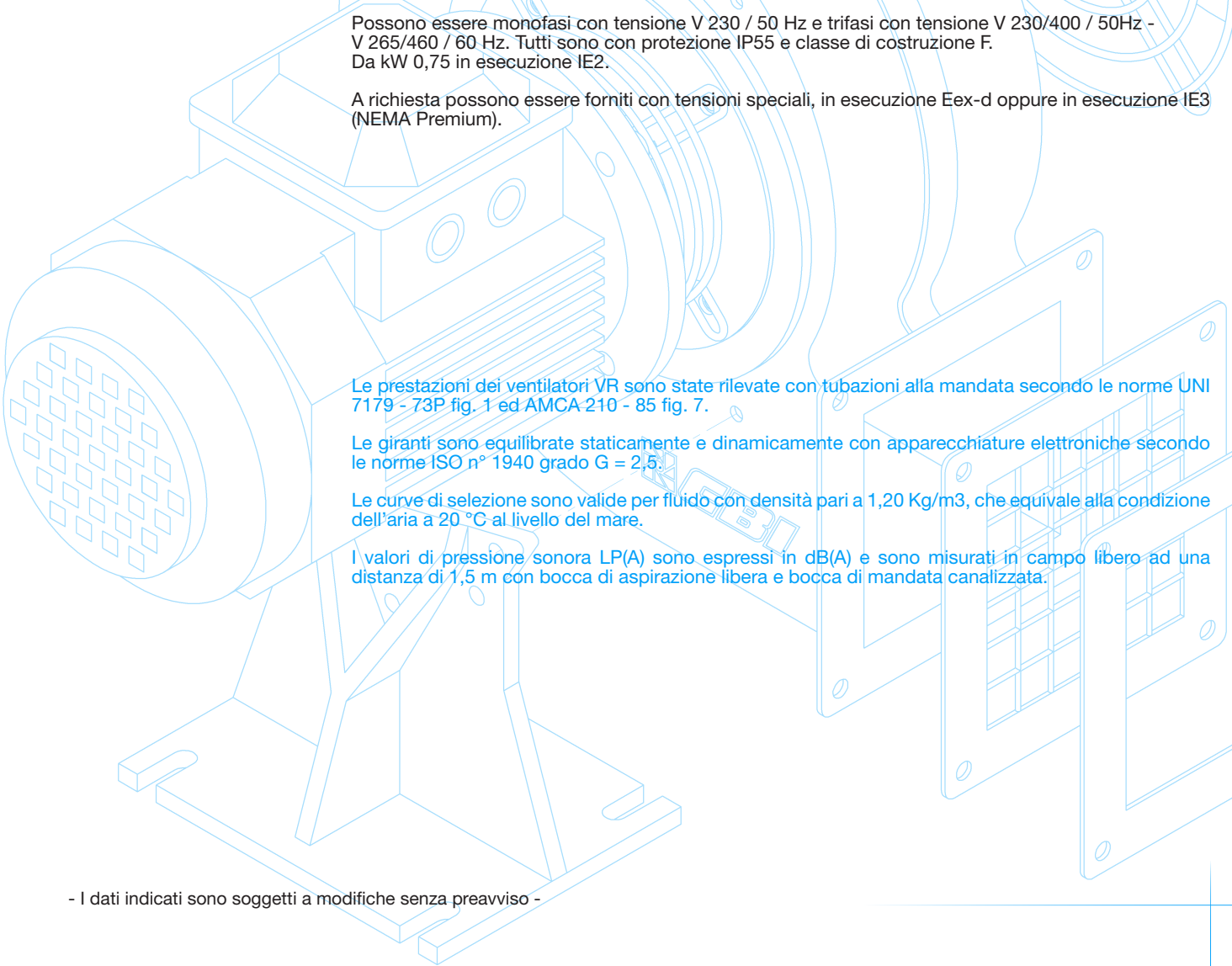
Una ampia gamma di accessori, riportati a pagina 12 sono disponibili per facilitare l'installazione.

Motore elettrico

I motori elettrici della serie VR sono unificati secondo la normativa Unel-Mec, sono chiusi con ventilazione esterna e sono del tipo a flangia (B5), oppure a richiesta con piedi e flangia (B3/B5).

Possono essere monofasi con tensione V 230 / 50 Hz e trifasi con tensione V 230/400 / 50Hz - V 265/460 / 60 Hz. Tutti sono con protezione IP55 e classe di costruzione F.
Da kW 0,75 in esecuzione IE2.

A richiesta possono essere forniti con tensioni speciali, in esecuzione Eex-d oppure in esecuzione IE3 (NEMA Premium).



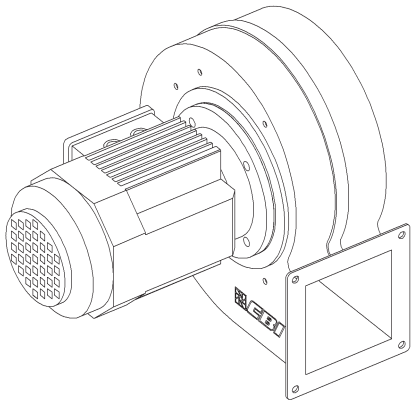
Le prestazioni dei ventilatori VR sono state rilevate con tubazioni alla mandata secondo le norme UNI 7179 - 73P fig. 1 ed AMCA 210 - 85 fig. 7.

Le giranti sono equilibrate staticamente e dinamicamente con apparecchiature elettroniche secondo le norme ISO n° 1940 grado G = 2,5.

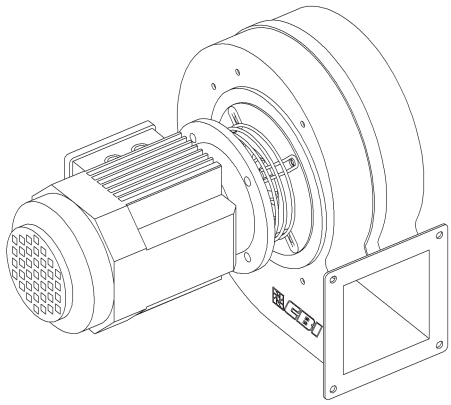
Le curve di selezione sono valide per fluido con densità pari a 1,20 Kg/m3, che equivale alla condizione dell'aria a 20 °C al livello del mare.

I valori di pressione sonora LP(A) sono espressi in dB(A) e sono misurati in campo libero ad una distanza di 1,5 m con bocca di aspirazione libera e bocca di mandata canalizzata.

Sistemazione 5

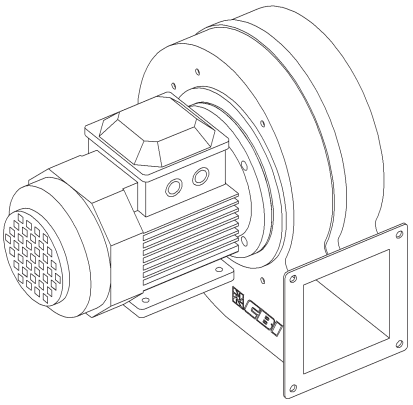


Esecuzione Standard

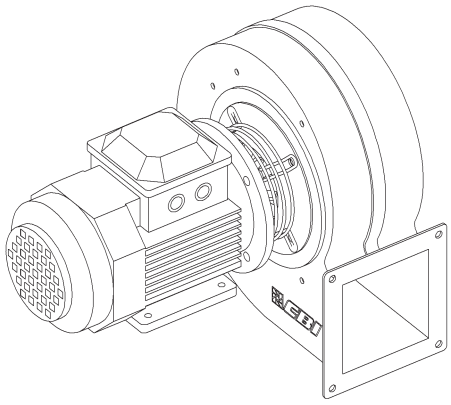


Esecuzione -T-

Sistemazione 5S



Esecuzione Standard



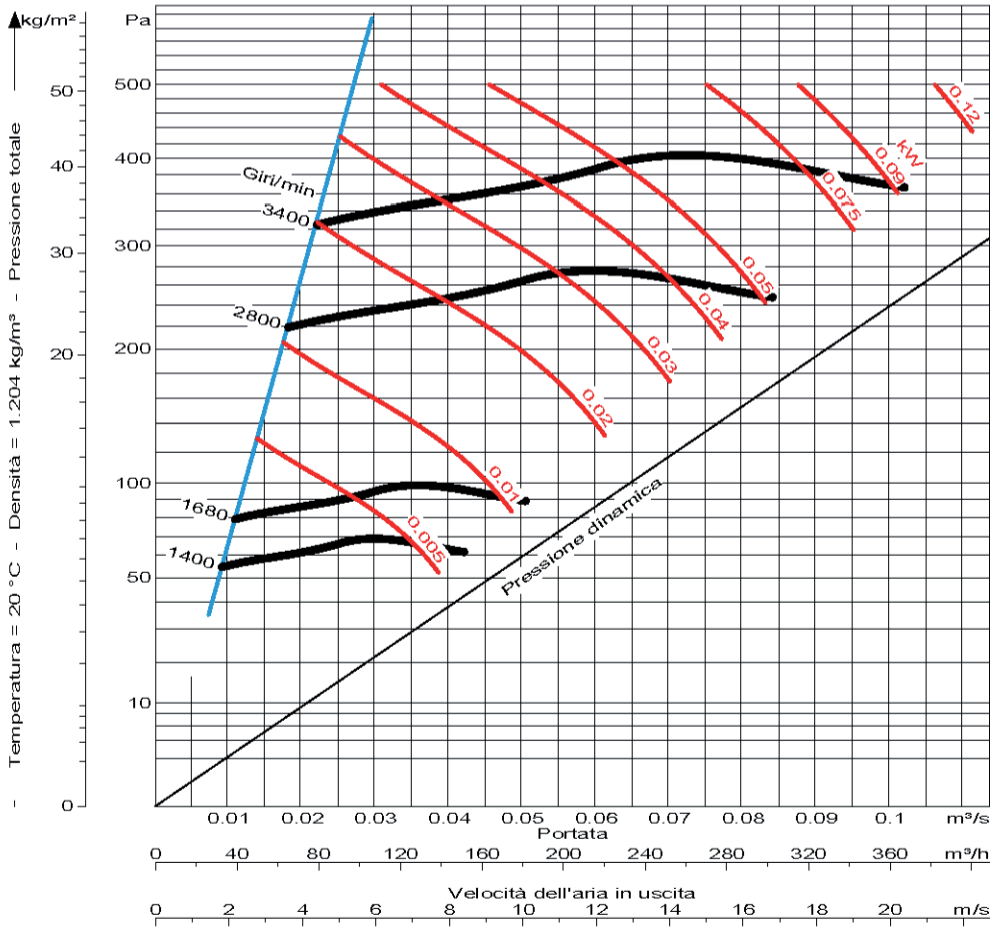
Esecuzione -T-

VR 92

Diametro girante = 108 mm
J = 0,01 kg m²

	Hz50			
Giri	1400	2800	-	-
kW	0,09	0,12	-	-
Motore	56	56	-	-
Lp(A)	38	59	-	-

	Hz60			
Giri	1680	3400	-	-
kW	0,12	0,12	-	-
Motore	56	56	-	-
Lp(A)	44	64	-	-

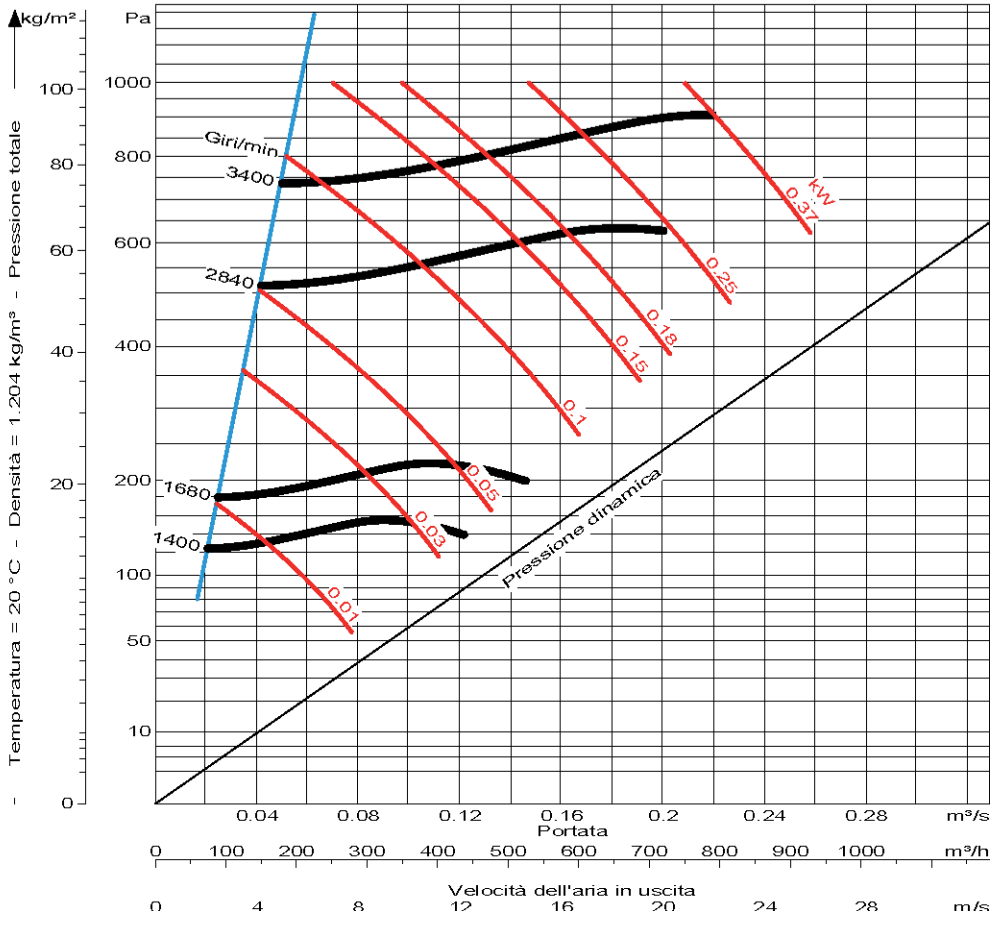


VR 134

Diametro girante = 133 mm
J = 0,015 kg m²

	Hz50			
Giri	1400	2840	-	-
kW	0,18	0,25	-	-
Motore	63	63	-	-
Lp(A)	44	65	-	-

	Hz60			
Giri	1680	3400	-	-
kW	0,18	0,37	-	-
Motore	63	63	-	-
Lp(A)	50	70	-	-

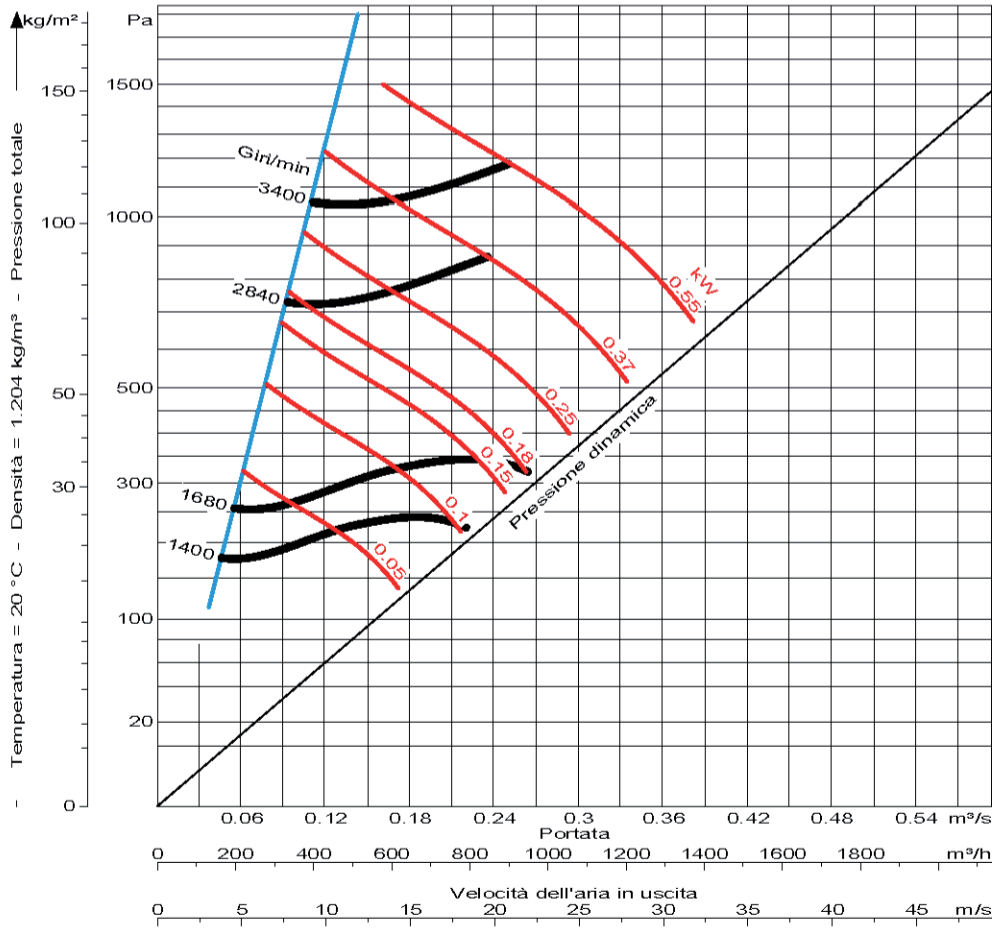


VR 164

Diametro girante = 160 mm
J = 0,025 kg m²

	Hz50			
Giri	1400	2840	-	-
kW	0,18	0,37	-	-
Motore	63	71	-	-
Lp(A)	48	69	-	-

	Hz60			
Giri	1680	3400	-	-
kW	0,25	0,55	-	-
Motore	71	71	-	-
Lp(A)	54	74	-	-

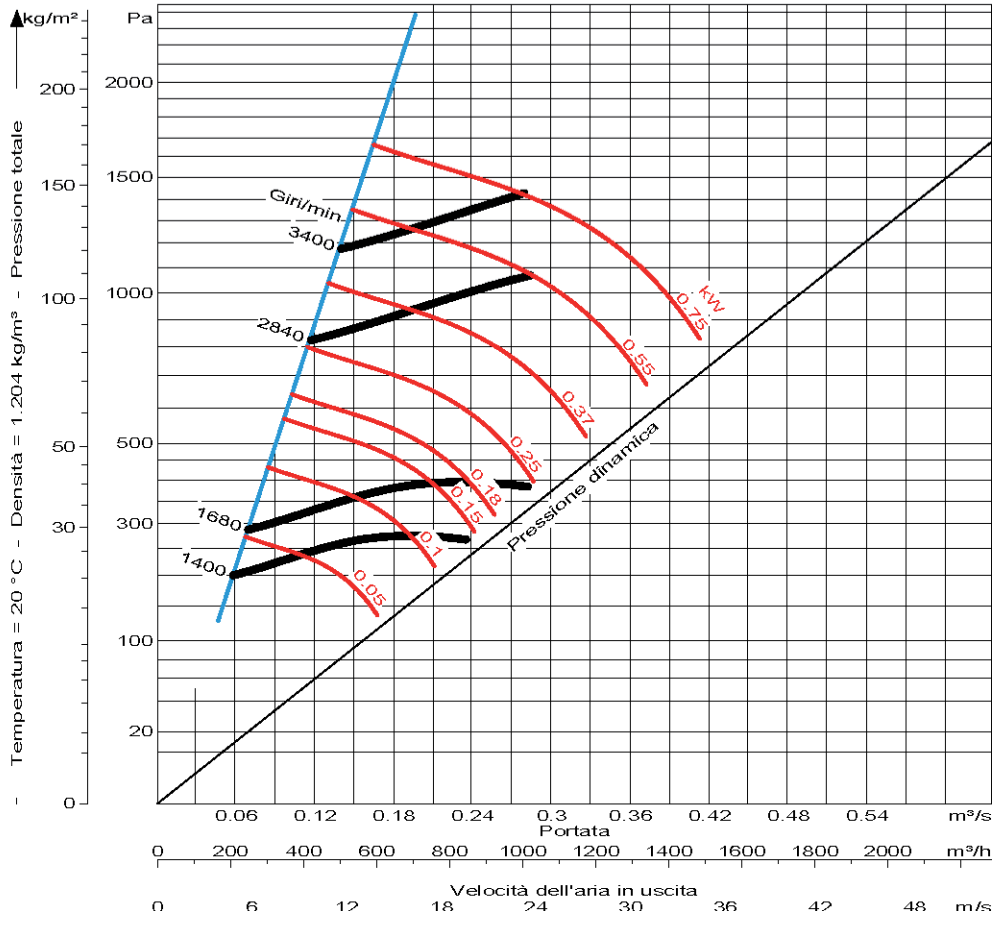


VR 184

Diametro girante = 180 mm
J = 0,03 kg m²

	Hz50			
Giri	1480	2840	-	-
kW	0,18	0,55	-	-
Motore	63	71	-	-
Lp(A)	51	72	-	-

	Hz60			
Giri	1680	3400	-	-
kW	0,25	0,75	-	-
Motore	71	71	-	-
Lp(A)	57	77	-	-

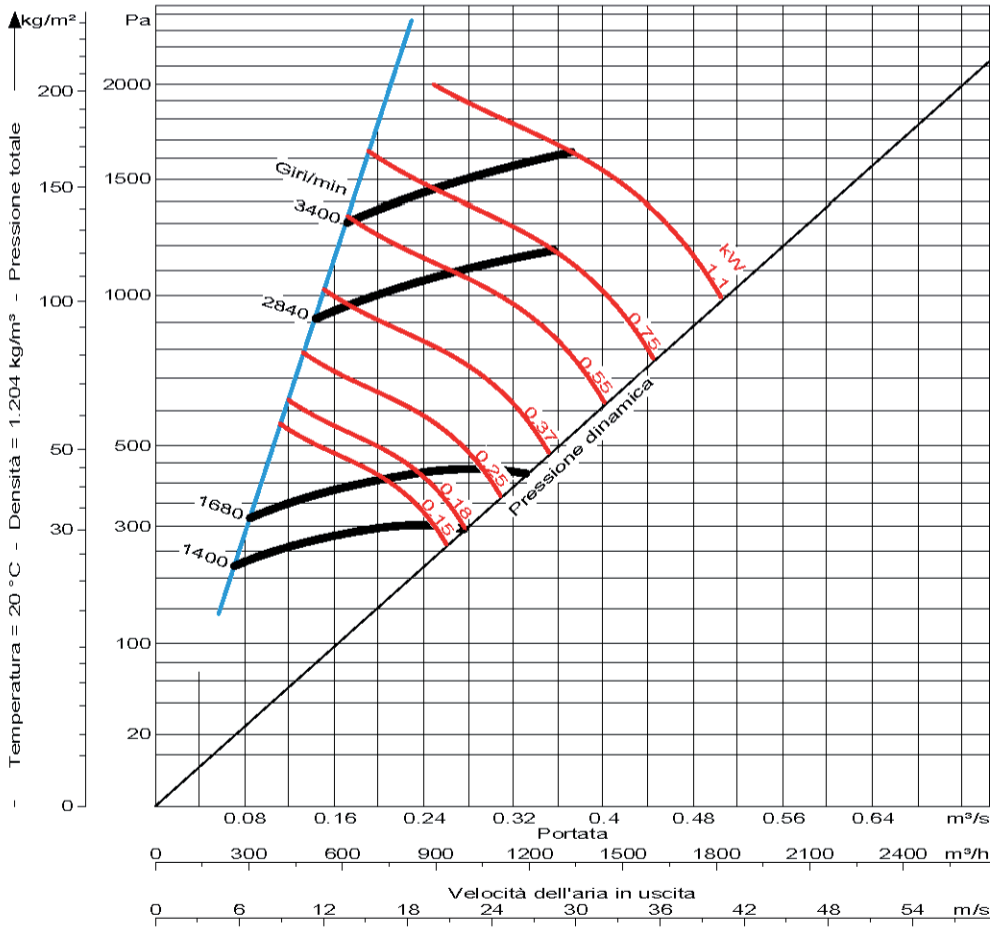


VR 190

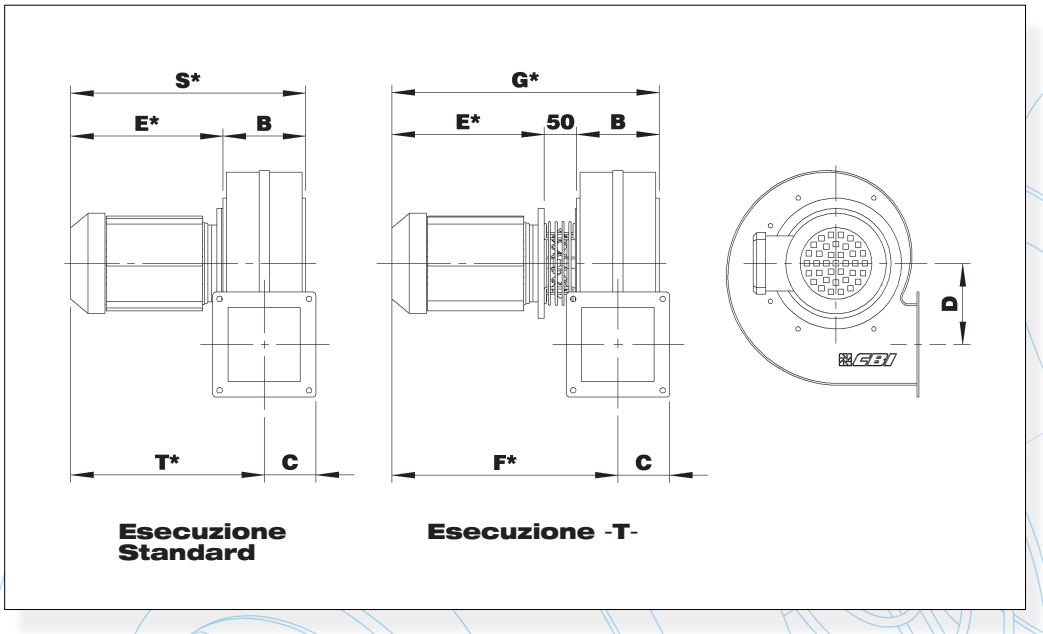
Diametro girante = 180 mm
J = 0,035 kg m²

	Hz50			
Giri	1400	2840	-	-
kW	0,37	0,75	-	-
Motore	71	80	-	-
Lp(A)	54	75	-	-

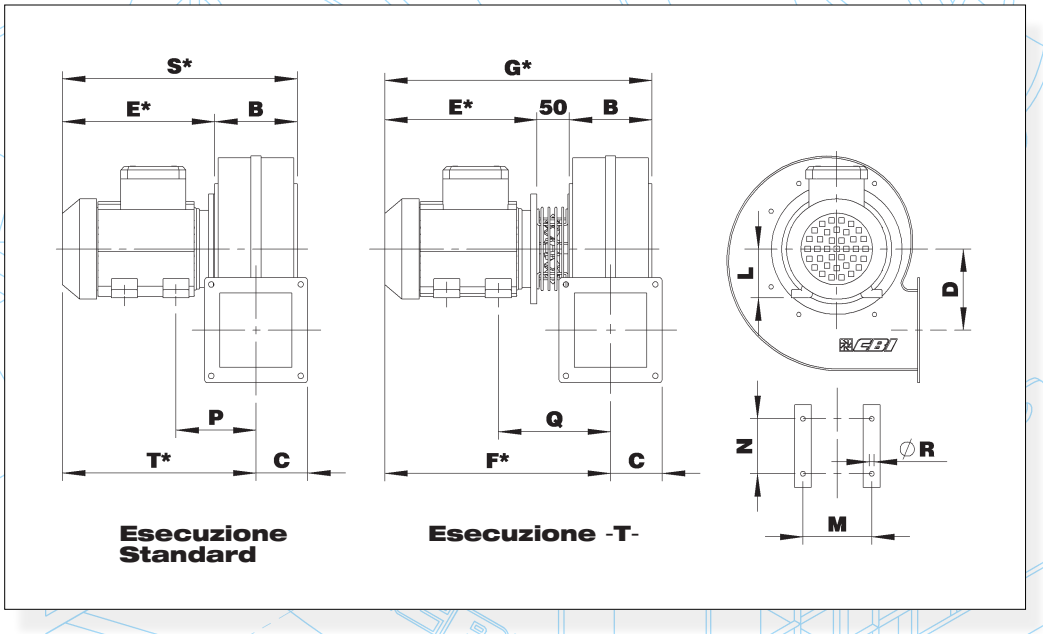
	Hz60			
Giri	1680	3400	-	-
kW	0,55	1,1	-	-
Motore	71	80	-	-
Lp(A)	60	80	-	-



Dimensioni d'ingombro Sistemazione 5



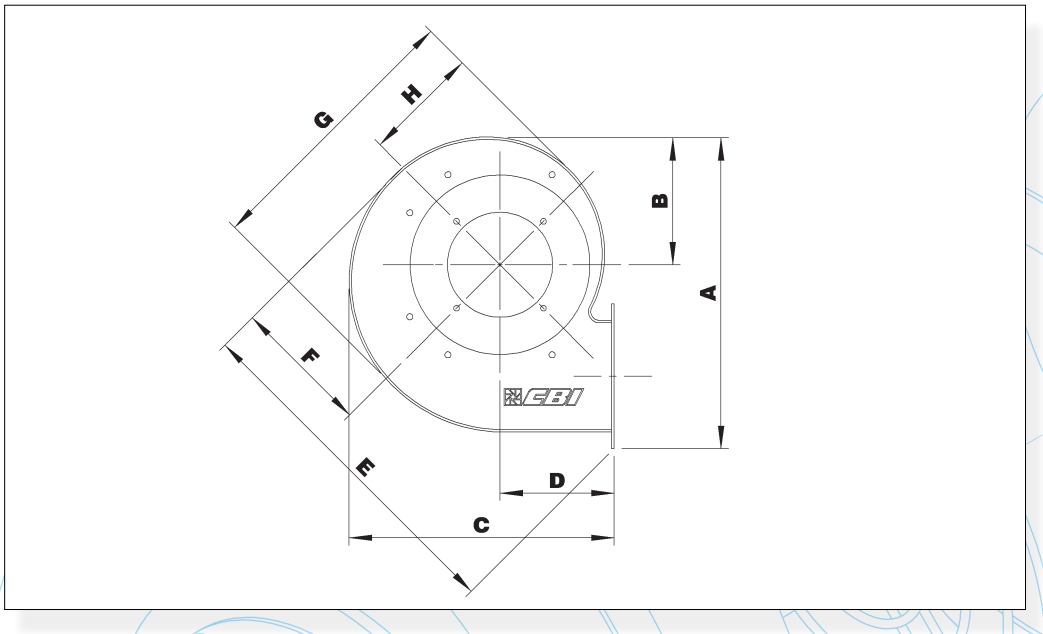
Dimensioni d'ingombro Sistemazione 5S



VR	Mot/Pol.	B	C	D	E*	F	G*	I	M	N	P	Q	R	S*	T
92	56/4	78	55	64	177	246	305	56	90	71	75	125	6	255	196
	56/2	78	55	64	177	246	305	56	90	71	75	125	6	255	196
134	63/4	114	75	86	190	297	354	63	100	80	97	147	7	304	247
	63/2	114	75	86	190	297	354	63	100	80	97	147	7	304	247
164	63/4	114	75	118	190	297	354	63	100	80	97	147	7	304	247
	71/2	114	75	118	210	322	374	71	112	90	102	152	7	324	272
184	63/4	114	75	118	190	297	354	63	100	80	97	147	7	304	247
	71/2	114	75	118	210	322	374	71	112	90	102	152	7	324	272
190	71/4	114	75	118	210	322	374	71	112	90	102	152	7	324	372
	80/2	114	75	118	225	376	389	80	125	100	107	157	9	339	326

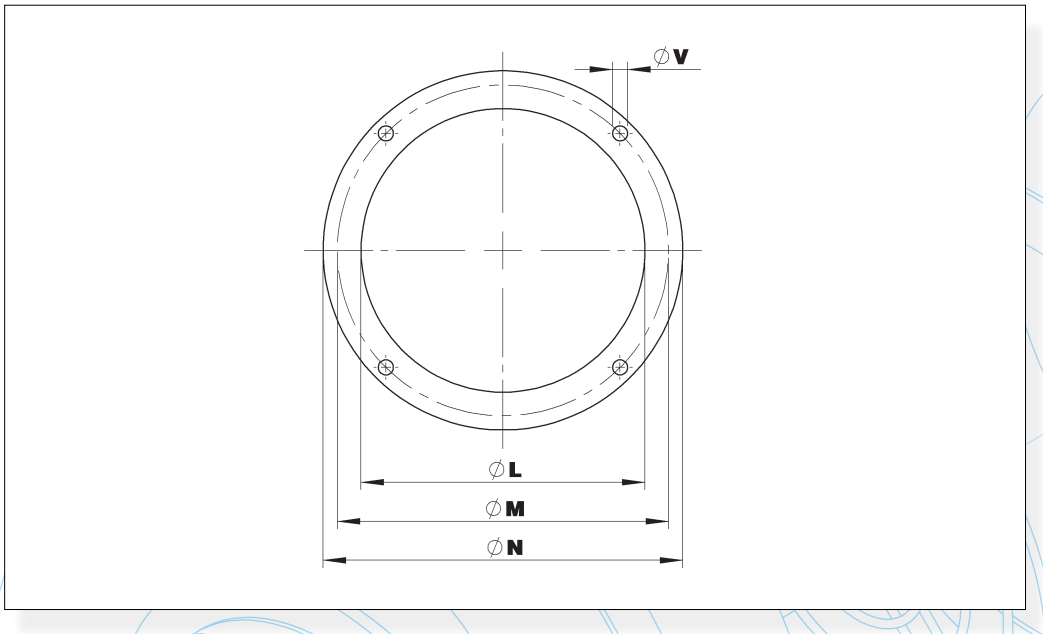
* Dimensione massima

Dimensioni coclee

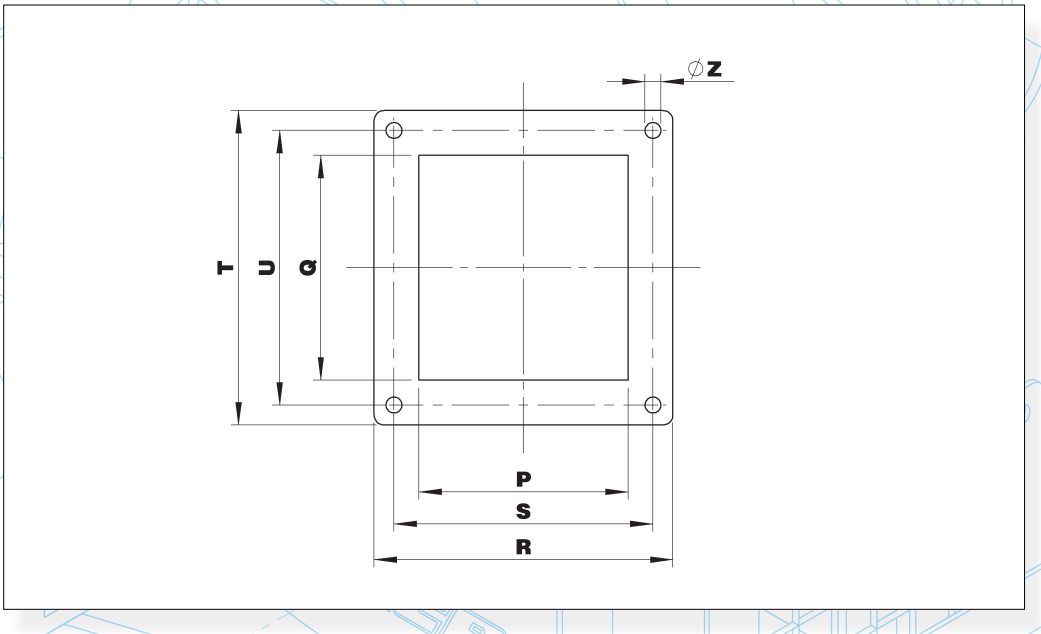


VR	A	B	C	D	E	F	G	H
92	193,5	76	169	80	222	82,5	165	69,5
134	252	97	213	96	285	107,5	215	87,5
164	329	132	274	118	366	143,5	287	119,5
184	329	132	274	118	366	143,5	287	119,5
190	329	132	274	118	366	143,5	287	119,5

Flangia aspirante

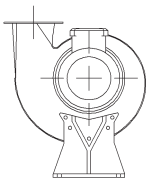


Flangia premente

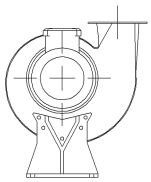


VR	L	M	N	P	Q	R	S	T	U	V	Z
92	80	100	120	71	68	110	95	100	85	9	6
134	100	115	145	105	93	150	130	130	110	10	8
164	150	175	190	105	113	150	130	150	130	10	8
184	150	175	190	105	113	150	130	150	130	10	8
190	150	175	190	105	113	150	130	150	130	10	8

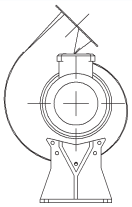
Orientamenti Sistemazione 5 con basamento staffa* vista lato motore



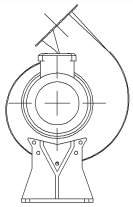
RD 0



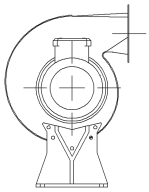
LG 0



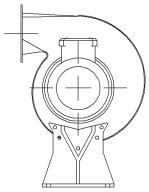
RD 45



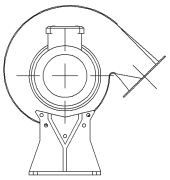
LG 45



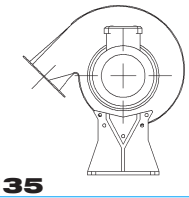
RD 90



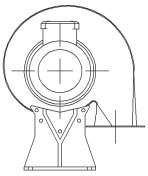
LG 90



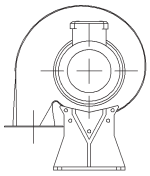
RD 135



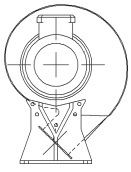
LG 135



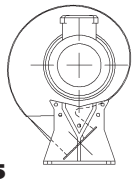
RD 180



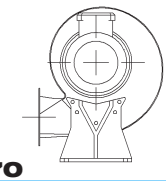
LG 180



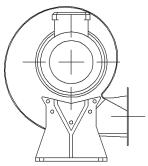
RD 225



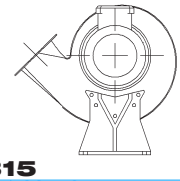
LG 225



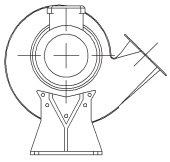
RD 270



LG 270



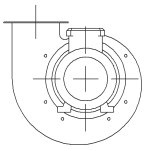
RD 315



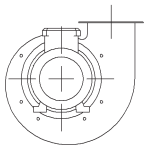
LG 315

*Non applicabile a VR 92. Esecuzione staffa speciale per VR 134.

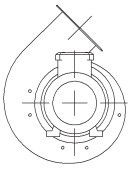
Orientamenti Sistemazione 5S vista lato motore



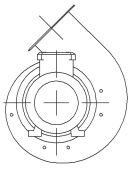
RD 0



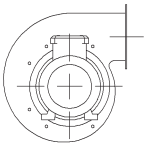
LG 0



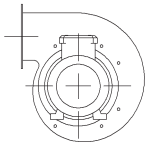
RD 45



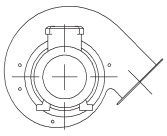
LG 45



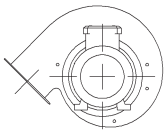
RD 90



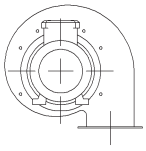
LG 90



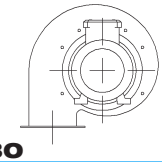
RD 135



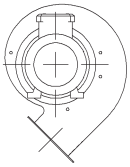
LG 135



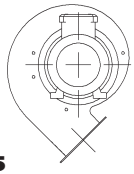
RD 180



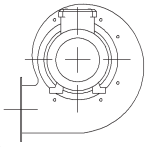
LG 180



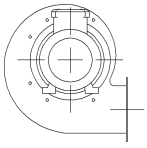
RD 225



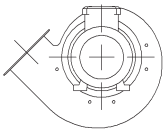
LG 225



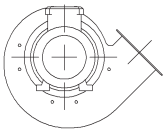
RD 270



LG 270



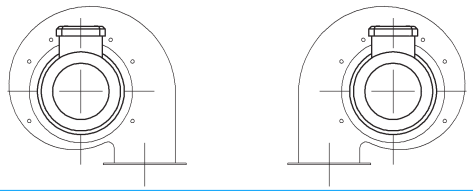
RD 315



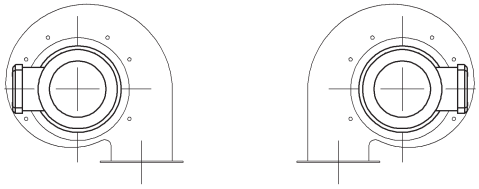
LG 315

Posizione morsettiera

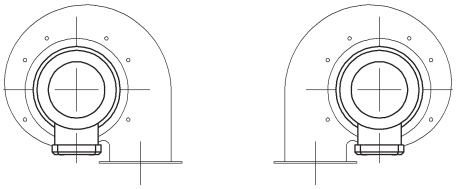
La morsettiera del motore elettrico, a richiesta, può avere 4 differenti posizioni rispetto alla bocca premente. Se non espressamente richiesto, il ventilatore viene fornito con la morsettiera in posizione che è opposta alla bocca premente (MS0).



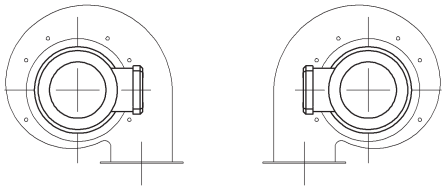
MS 0



MS 90

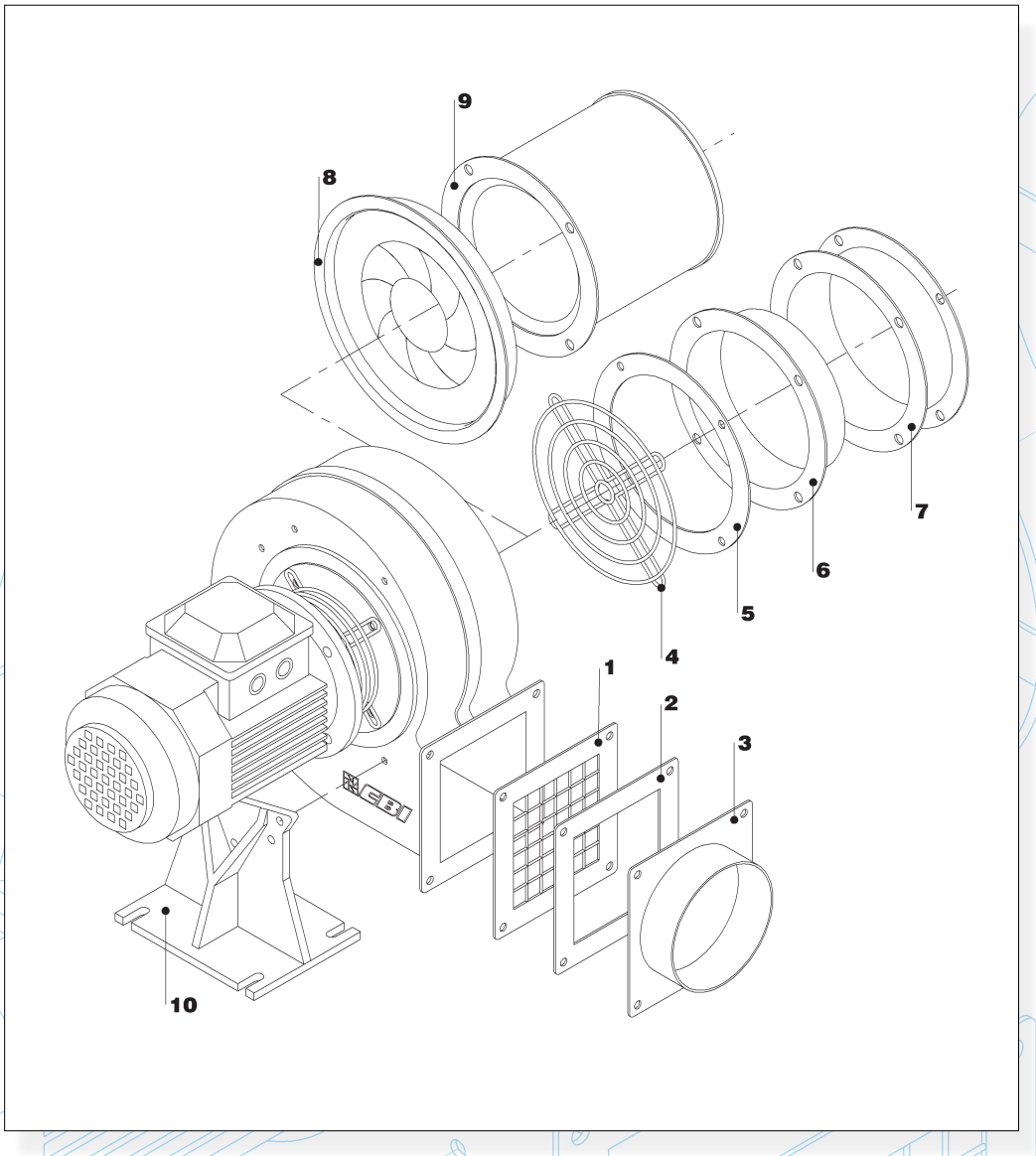


MS 180



MS 270

Accessori

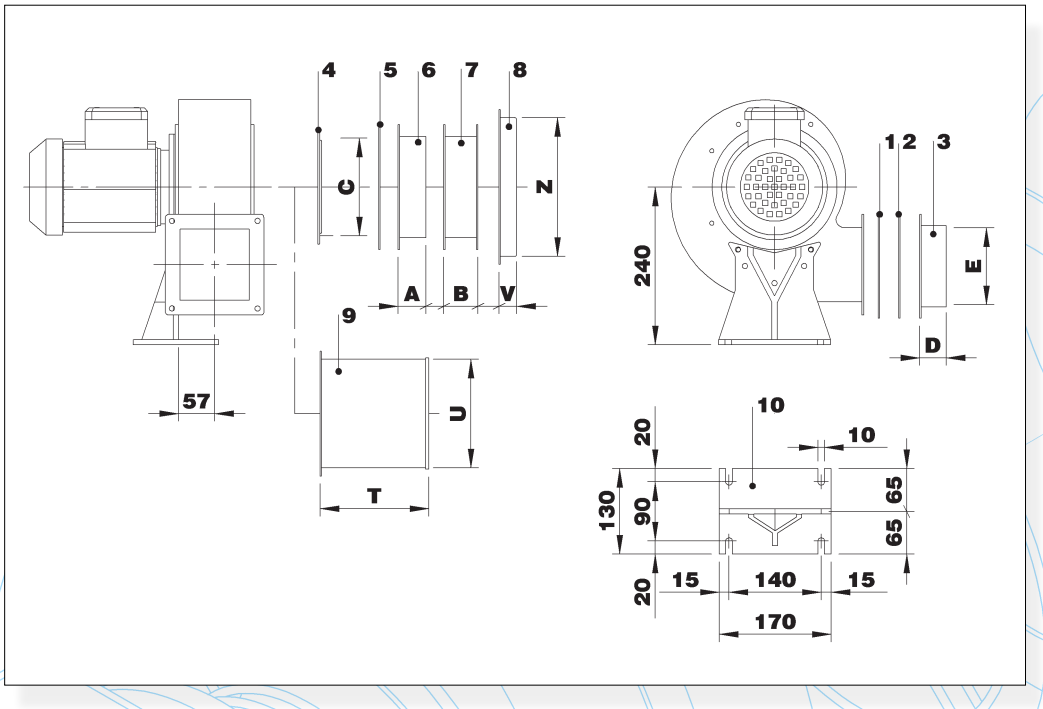


1. Rete premente
2. Controflangia premente
3. Tronchetto premente liscio
4. Rete aspirante
5. Controflangia aspirante
6. Tronchetto aspirante liscio
7. Tronchetto aspirante flangiato

9. Filtro aspirante
10. Basamento staffa*

*Non applicabile a VR 92. Esecuzione staffa speciale per VR 134.

Dimensioni accessori



1. Rete premente
2. Controflangia premente
3. Tronchetto premente liscio
4. Rete aspirante
5. Controflangia aspirante
6. Tronchetto aspirante liscio
7. Tronchetto aspirante flangiato
8. Serranda a diaframma
9. Filtro aspirante
10. Basamento staffa*

*Non applicabile a VR 92. Esecuzione staffa speciale per VR 134.

VR	A	B	C	D	E	T	U	V	Z
92	40	50	80	40	80	100	100	-	-
134	40	50	100	40	100	115	100	27	146
164	40	50	150	40	120	165	165	27	207
184	40	50	150	40	120	180	180	27	207
190	40	50	150	40	120	180	180	27	207

CBI Group Products Range

Axial Fans



GAV/GAX
300.000 m³/h
1.300 Pa



EFA
480.000 m³/h
1.800 Pa



AP
35.000 m³/h
100 Pa



CBJET
470.000 m³/h
8000 N



GAT
50.000 m³/h
600 Pa



AXL
830.000 m³/h
5.000 Pa

Centrifugal Fans



Ch
600.000 m³/h
4.500 Pa



K
250.000 m³/h
5.500 Pa



ChT
600.000 m³/h
3.000 Pa



SB/MB/XB
350.000 m³/h
20.000 Pa



H
10.000 m³/h
15.000 Pa

Ventilation Products



VR
1.500 m³/h
1.600 Pa



VRP
4.500 m³/h
4.300 Pa



APS/APF
2.300 m³/h
3.800 Pa



DT
400 m³/h
4.000 Pa



N
11.000 m³/h
8.000 Pa



CBS
5.000 m³/h
4.000 Pa

Light Ventilation



ARIES
17.500 m³/h
650 Pa



PULSAR
18.500 m3/h
250 Pa

Multistage



BCN
600 m³/h
22.000 Pa



TBS
2.000 m³/h
44.000 Pa



HG
1.900 m³/h
47.000 Pa



SSM/SSB
650 m³/h
60.000 Pa

Heavy Duty Fans



Iskenderun Steel Plant
Turkey



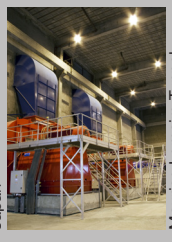
Heidelberg Cement Plant
Sweden



CMC Steel Plant
USA



Tokyo Steel Plant
Japan



Maurice Lemaire Tunnel
France



Edison Power Plant
Italy



Unisteel Steel Plant
Kuwait