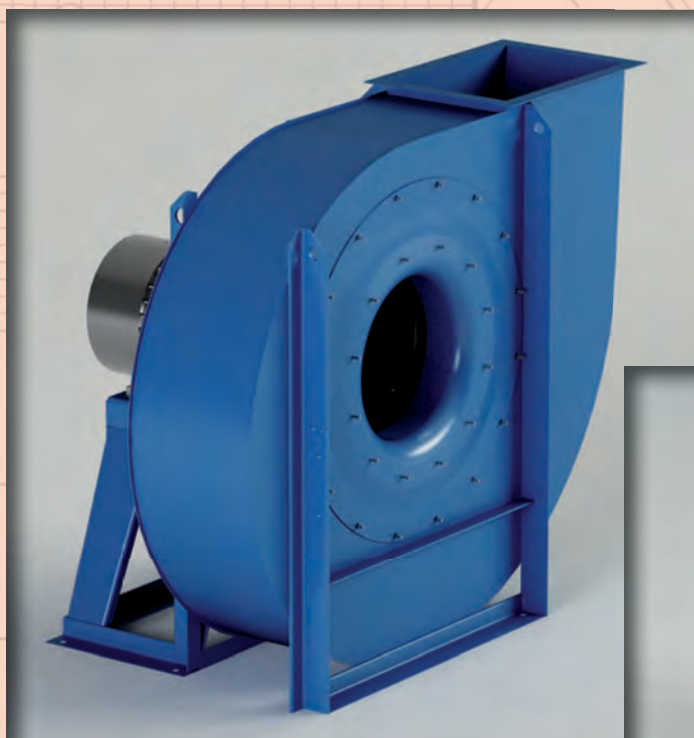


Mod. PDC

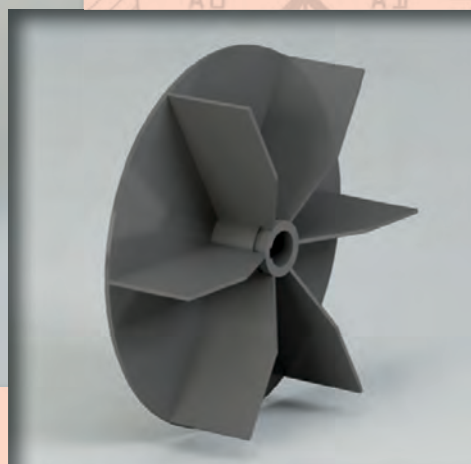


$Q = 1500 \div 50000 \text{ m}^3/\text{h}$

$Q = 0.4 \div 14 \text{ m}^3/\text{s}$

$p_t = 100 \div 450 \text{ mmH}_2\text{O}$

$p_t = 1000 \div 4500 \text{ Pa}$



Field of operation

Medium-low flow rates. Medium-high pressures.

Blade type

Straight radial blades, open, see pg. 2.3.

Applications

For pneumatic transport of solid materials mixed with air, sawdust and wood chips; also suitable for filaments which would block a reversed blade closed fan.

Standard constructional arrangements

Arr.1 - Arr.4 - Arr.5 - Arr.8 - Arr.9 - Arr.12, see pgs. 2.5 - 2.6.

Standard fluid temperatures

-10÷+60°C. For other temperatures see pgs. 1.12 to 1.15.

Type of construction

Fan in Fe360 plate, impeller in Fe360 statically and dynamically balanced. For other materials see pgs. 1.12 to 1.15.

Operating specifications

Condition of inlet air T=20°C, 0 m above sea level and $\rho=1.205 \text{ kg/m}^3$.

Noise level

Expressed as sound power L_{wA} [dB(A)] measured in free field with ducted fan, see pgs. 1.43 to 1.49.

Orientations

No.8 RD (clockwise viewed from transmission side) and No.8 LG. Fan in bolted orientable version for sizes 250-400, with front support and so not orientable for sizes 450 and above with transmission drive, always orientable for directly coupled fans without front support. See pg. 2.7.

Special applications

See pgs. 2.20 to 2.34.

Fan start-up

During start-up the fan flow rate must be limited, calibrated for the fan's maximum electrical input.

Impeller classes

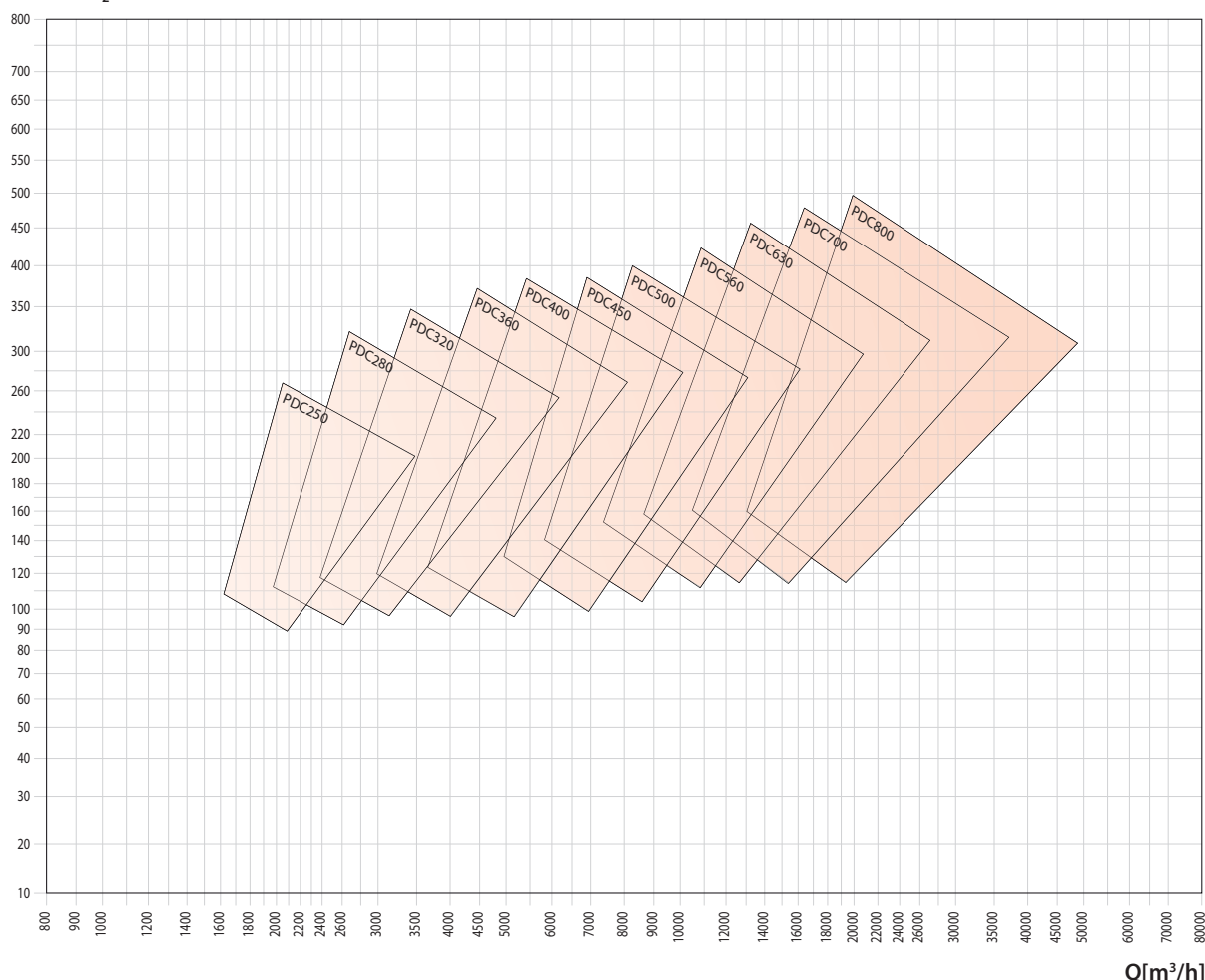
The above table refers to standard operating conditions, in heavy-duty service conditions it is advisable to contact the CORAL Customer Service to establish the most suitable type of impeller.

GRANDEZZA VENTILATORE • Size	• Max rpm
	CLASSE I
PDC250	3280
PDC280	3430
PDC320	3060
PDC360	2960
PDC400	2450
PDC450	2150
PDC500	1910
PDC560	1700
PDC630	1530
PDC700	1360
PDC800	1230

FRA • entre • between • zwischen • entre	60°C	E • et • and • und • y	100°C	DECLASSARE VELOCITÀ • déclasser vitesse • degrade speed • Geschwindigkeit herabsetzen • rebajar velocidad	4%
	100°C		150°C		10%
	150°C		200°C		16%
	200°C		250°C		23%
	250°C		300°C		30%
	300°C		350°C		37%
	350°C		400°C		45%
	400°C		450°C		54%
	450°C		500°C		64%

• Values valid up to 60°C

pt [mmH₂O]



Type		P inst. [kW]	n	LpA [dB(A)]	• Load tolerance $\pm 5\%$													
Fan	Motor				Q [m³/h]													
					1800	2160	2520	2880	3240	3600	3960	4320	4680	5040	5400			
					pt[mmH ₂ O]													
PDC250/2R	112	4	2940	81	211	195	177	156	122	92								
PDC250/2	132	5,5	2940	85	276	274	269	253	230	212	192	155	143					
PDC280/2R	132	7,5	2940	87			318	316	305	285	269	250	224	219	185			
PDC280/2	160	11	2960	88				347	336	328	315	303	285	265	245			
PDC320/2R	160	11	2960	89						377	367	357	346	332	316			
PDC320/2R	160	15	2960	90						377	367	357	346	332	316			
PDC320/2	160	18,5	2960	92							438	431	426	400	395			
PDC360/2R	180	22	2960	94											500			
PDC360/2	200	30	2960	97														
PDC360/4	112	4	1440	77				129	125	120	115	111	103	90	88			
PDC400/4R	132	5,5	1460	82						145	143	140	137	136	131			
PDC400/4	132	7,5	1460	84								165	163	160	159			
PDC450/4R	160	11	1460	85										194	193			
PDC450/4	160	15	1480	86											220			
PDC500/4R	180	22	1480	91														
PDC500/4	200	30	1480	93														
PDC560/4R	225	37	1480	94														
PDC560/4	225	45	1480	95														
PDC630/4R	225	45	1480	96														
PDC630/4	250	55	1480	97														

SUCTION CHARACTERISTICS

Type		P inst. [kW]	n	LpA [dB(A)]	• Load tolerance $\pm 5\%$													
Fan	Motor				Q [m³/h]													
					1800	2160	2520	2880	3240	3600	3960	4320	4680	5040	5400			
					pt[mmH ₂ O]													
PDC250/2R	112	4	2940	81	206	191	173	152	118	88								
PDC250/2	132	5,5	2940	85	268	266	261	246	223	205	185	149	136					
PDC280/2R	132	7,5	2940	87			308	306	295	276	260	242	216	211	177			
PDC280/2	160	11	2960	88				335	324	316	304	292	275	255	235			
PDC320/2R	160	11	2960	89						363	353	344	333	319	304			
PDC320/2R	160	15	2960	90						363	353	344	333	319	304			
PDC320/2	160	18,5	2960	92							419	412	408	383	378			
PDC360/2R	180	22	2960	94											476			
PDC360/2	200	30	2960	97														
PDC360/4	112	4	1440	77				127	123	118	112	108	100	87	85			
PDC400/4R	132	5,5	1460	82						142	140	137	134	133	128			
PDC400/4	132	7,5	1460	84								161	159	156	155			
PDC450/4R	160	11	1460	85										190	188			
PDC450/4	160	15	1480	86											214			
PDC500/4R	180	22	1480	91														
PDC500/4	200	30	1480	93														
PDC560/4R	225	37	1480	94														
PDC560/4	225	45	1480	95														
PDC630/4R	225	45	1480	96														
PDC630/4	250	55	1480	97														

• Noise tolerance $\pm 4\text{dB(A)}$

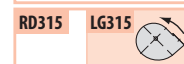
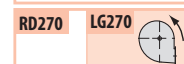
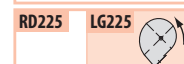
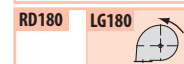
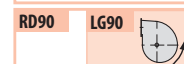
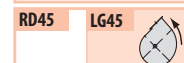
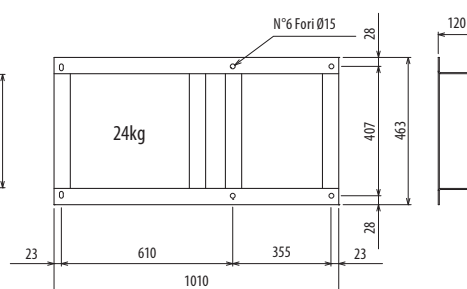
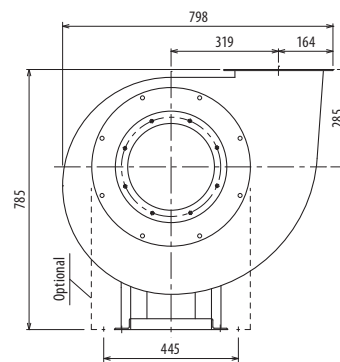
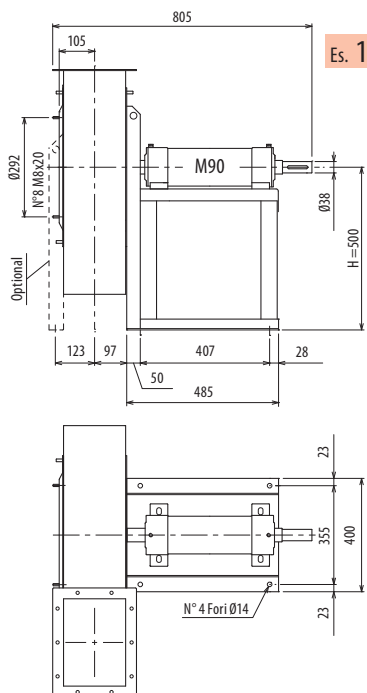
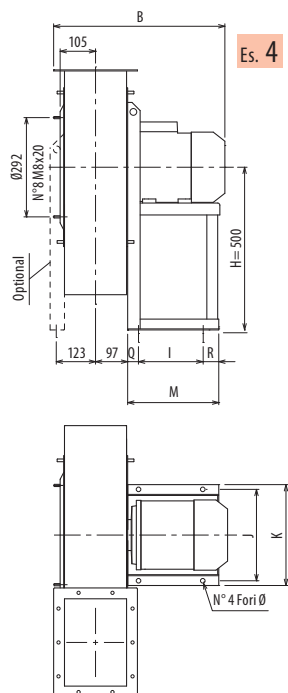
Q [m³/h]																
5760	6480	7200	7920	8640	9360	10080	10800	12600	14400	16200	18000	19800	25200	28800	32400	36000
pt[mmH ₂ O]																
224																
306	265															
306	265	214	170													
377	357	320	310	245	204											
490	460	455	430	400	372	348	300									
540	525	510	490	467	448	418	388	306								
82	62															
122	116	102	97	84	67											
158	153	145	137	130	120	93	89									
190	186	178	174	168	163	153	143	115								
219	215	210	207	204	199	190	184	168	138	102						
			255	251	249	245	240	224	210	194	163	142				
				276	273	270	265	260	245	224	212	185				
							326	316	310	298	290	275	226	176		
								347	341	330	320	316	270	230	175	
									400	392	385	376	346	321	288	249
											428	418	393	375	350	316

SUCTION CHARACTERISTICS

• Noise tolerance $\pm 4\text{dB(A)}$

Q [m³/h]																
5760	6480	7200	7920	8640	9360	10080	10800	12600	14400	16200	18000	19800	25200	28800	32400	36000
pt[mmH ₂ O]																
214																
294	254															
294	254	204	160													
361	341	306	295	231	190											
466	438	433	409	381	354	330	283									
512	498	484	465	443	425	396	367	286								
78	58															
119	112	98	92	79	61											
154	148	140	132	124	114	86	81									
185	181	173	169	163	157	147	137	107								
213	209	204	201	197	192	183	176	159	128	90						
			248	244	242	238	233	216	202	185	154	132				
				268	265	261	256	251	236	215	202	174				
							315	305	299	287	279	264	214	163		
								334	328	317	307	303	257	216	159	
									384	376	369	361	331	306	273	234
											409	400	375	357	332	298

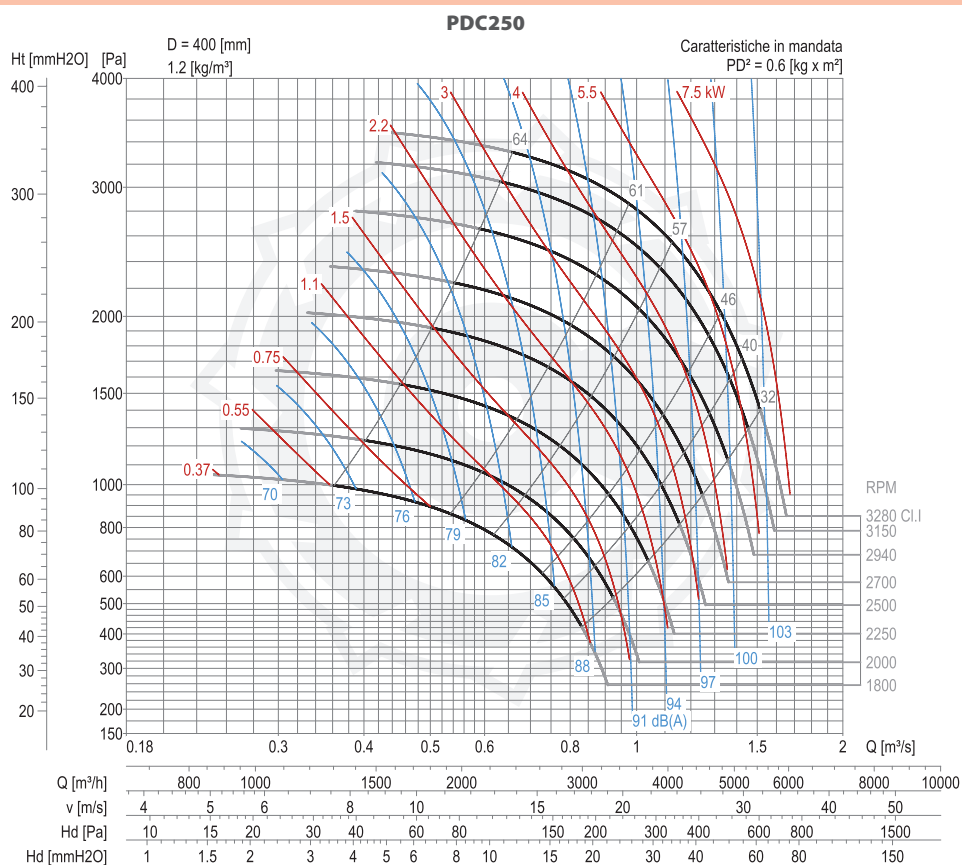
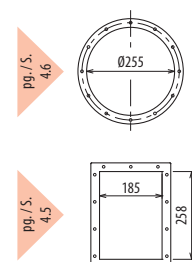
■ The A-weighted sound power level, LpA (Chap.14), is the value measured in test conditions at the point of maximum noise level.

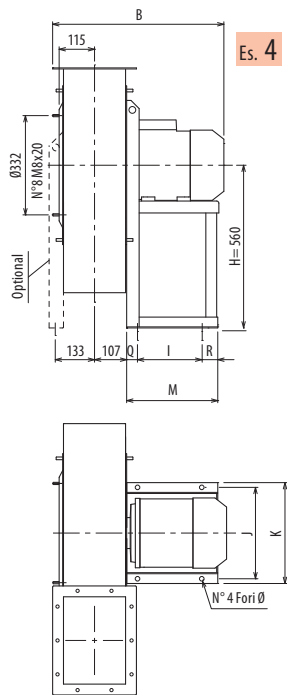


The fan is revolvable - The weight indicated in the table includes motor

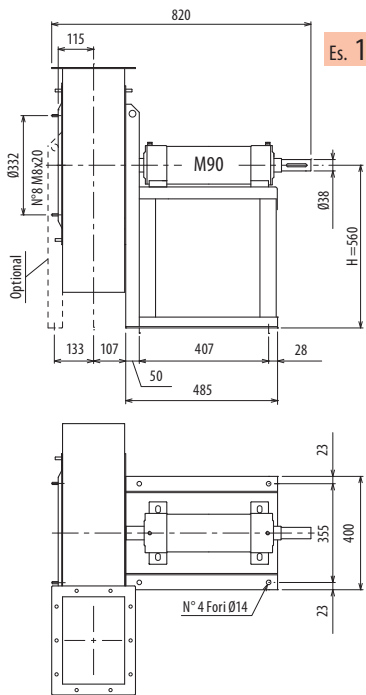
Type		Weight Kg	PD ² Kg x m ²	B	I	H	H1	H2	J	K	M	Q	R	Ø
Fan	Motor													
PDC250/2R	112 M2	80	0,39	557	197	500	285	500	289	324	285	34	54	12
PDC250/2	132 SA2	92	0,6	597	237	500	285	500	337	372	345	44	64	12
PDC250/T		85	0,60			500	285	500						

Further information and sizes:

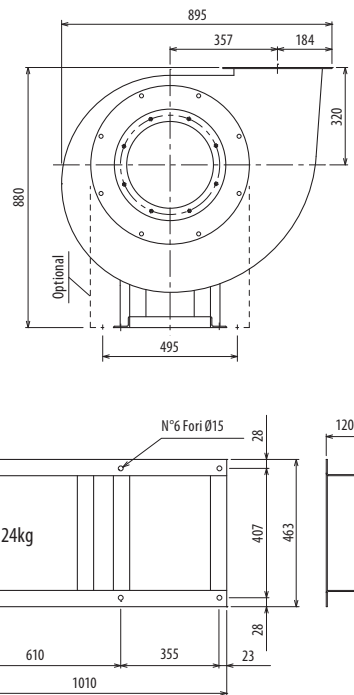




Es. 4



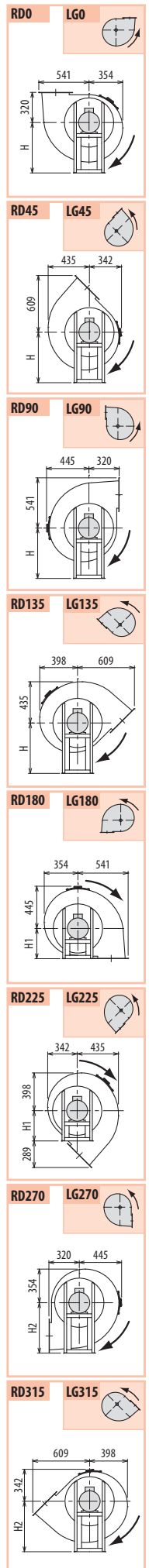
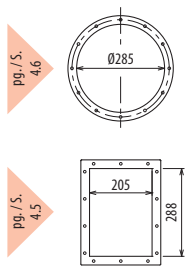
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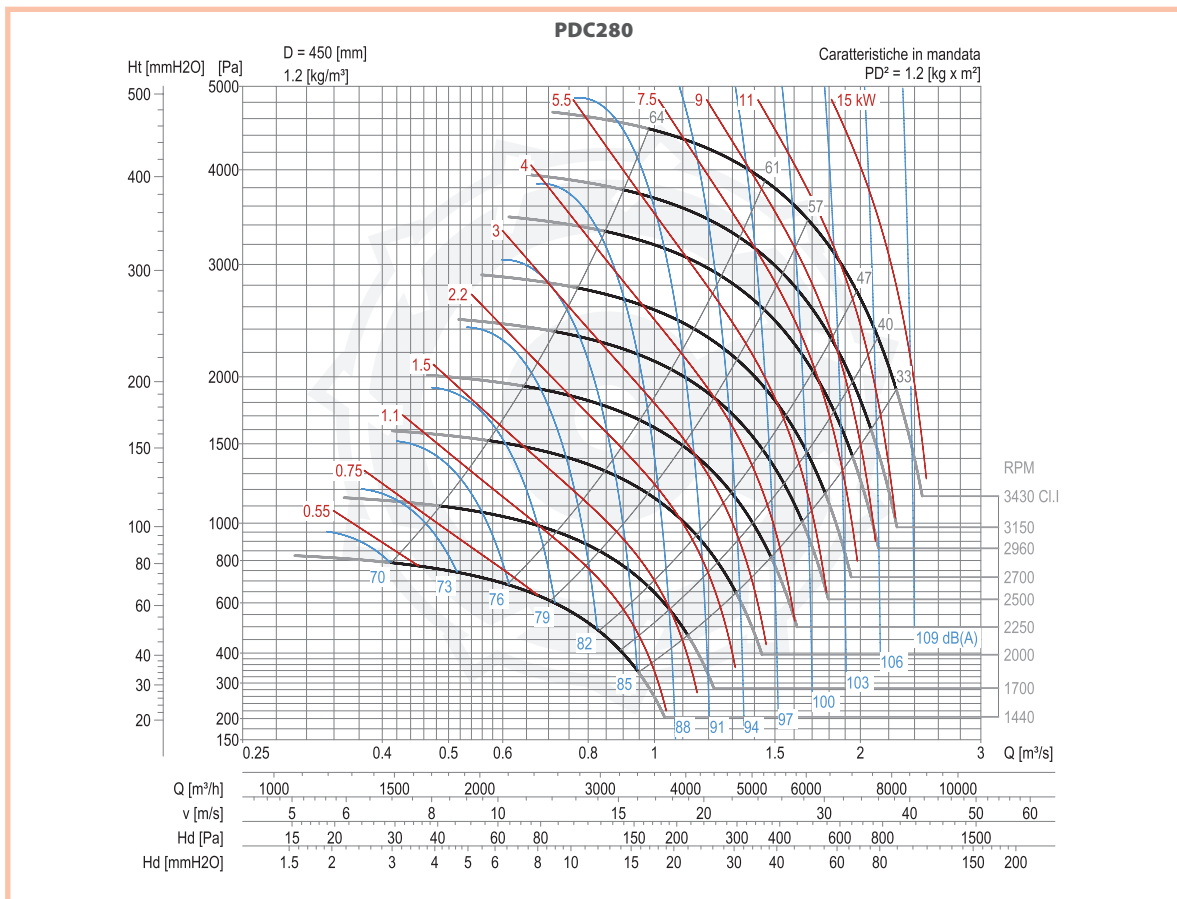
The fan is revolvable - The weight indicated in the table includes motor

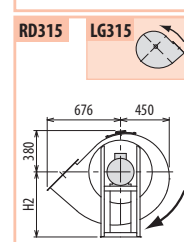
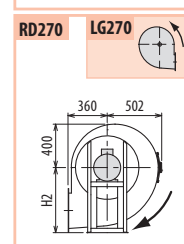
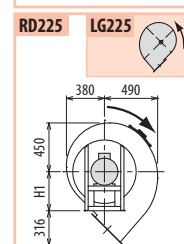
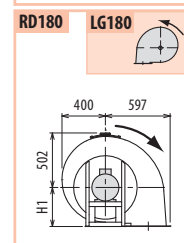
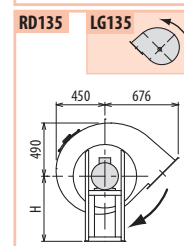
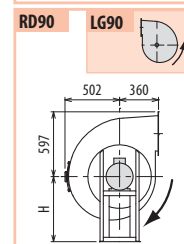
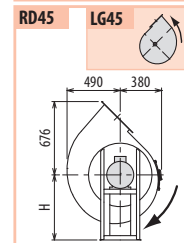
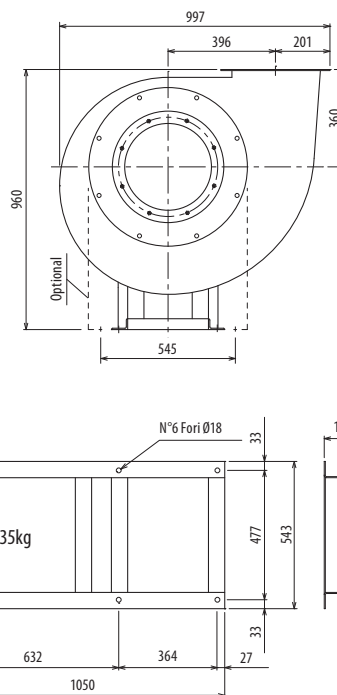
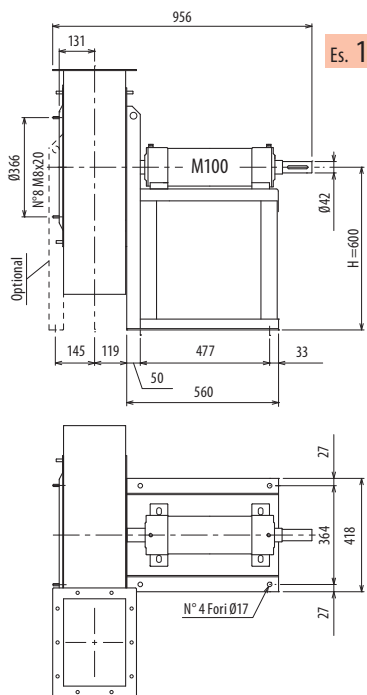
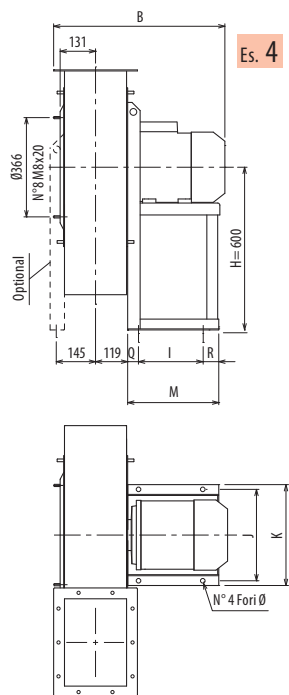
Type		Weight Kg	PD ² Kg x m ²	B	I	H	H1	H2	J	K	M	Q	R	Ø
Fan	Motor													
PDC280/2R	132 SB2	104	1,0	622	237	560	320	560	337	372	345	44	64	12
PDC280/2	160 MA2	148	1,2	727	337	560	320	560	395	440	446	55	54	14
PDC280/T		96	1,2			560	320	560						

Further information and sizes:



PDC

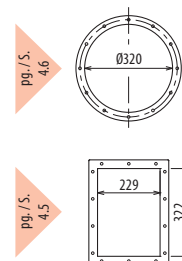




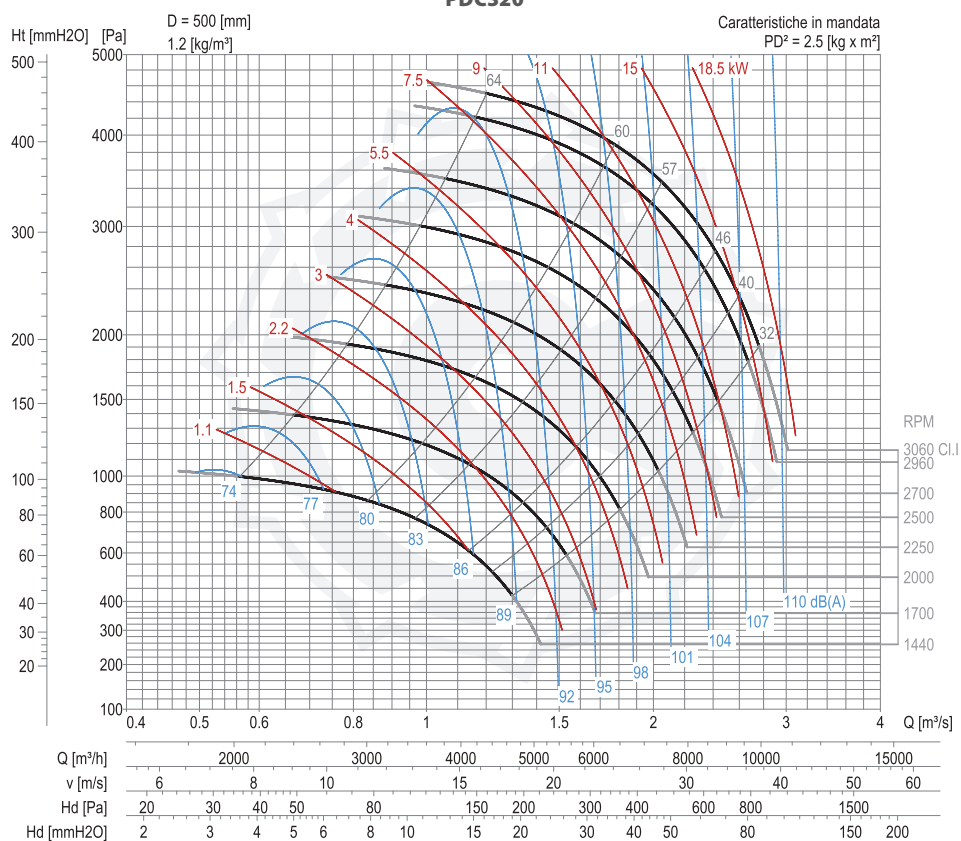
The fan is revolvable - The weight indicated in the table includes motor

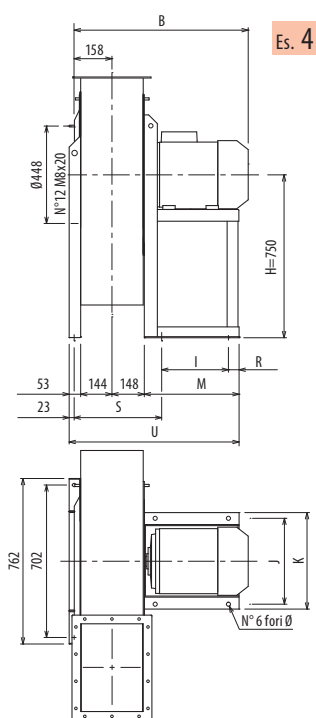
Further information and sizes:

Type		Weight Kg	PD ² Kg f x m ²	B	I	H	H1	H2	J	K	M	Q	R	Ø
Fan	Motor													
PDC320/2R	160 MA2	174	2	751	337	600	360	600	395	440	446	55	54	14
PDC320/2R	160 MB2	178	2,2	751	337	600	360	600	395	440	446	55	54	14
PDC320/2	160 L2	191	2,5	751	337	600	360	600	395	440	446	55	54	14
PDC320/T		145	2,5			600	360	600						

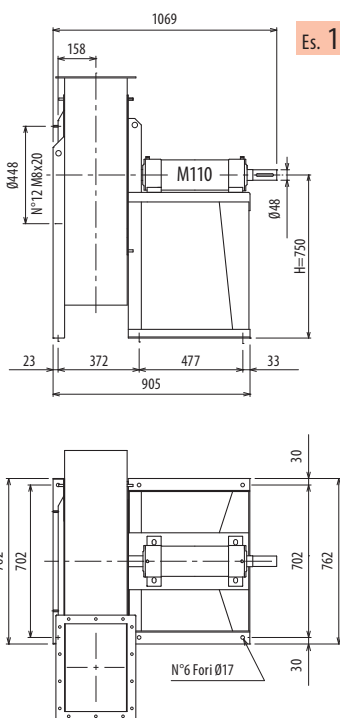


PDC320

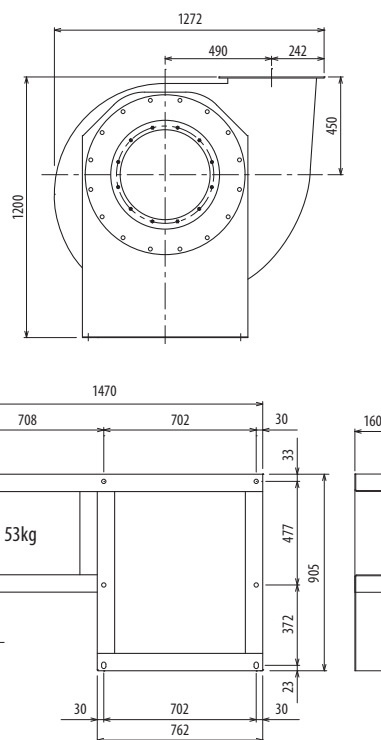




Es. 4



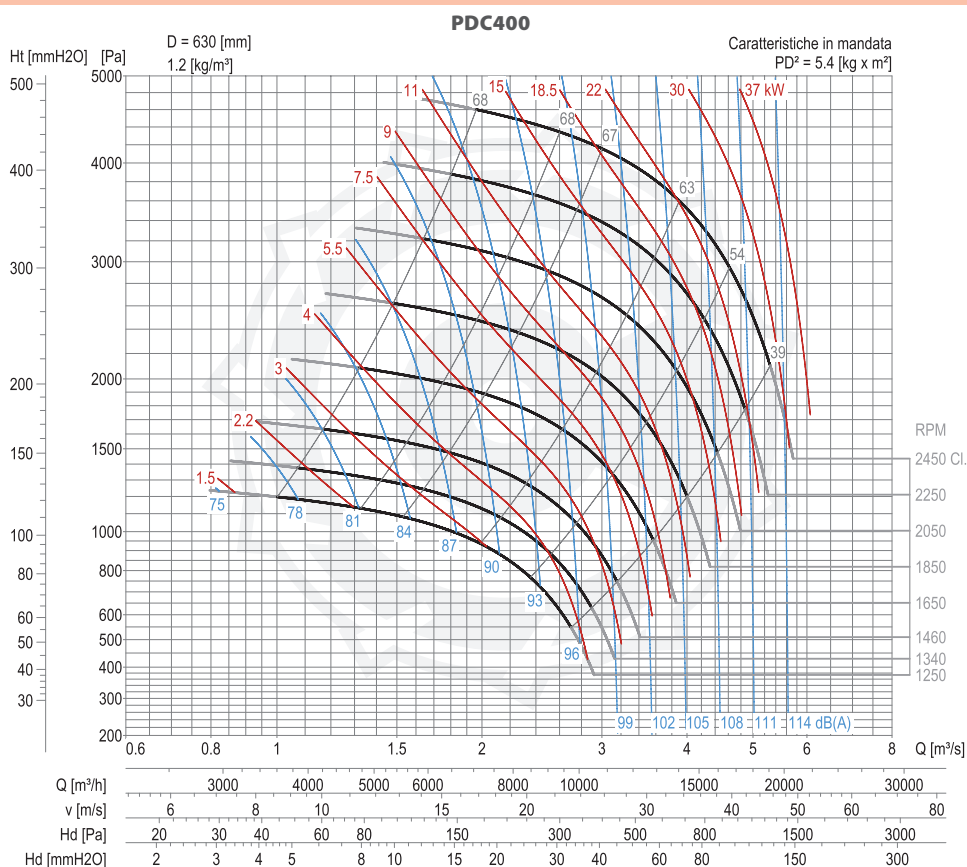
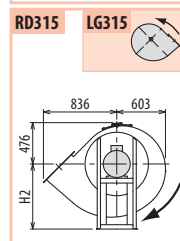
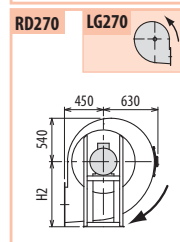
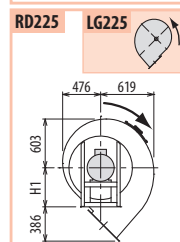
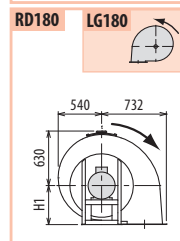
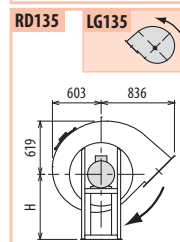
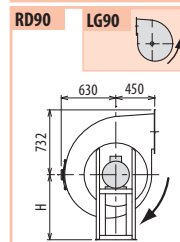
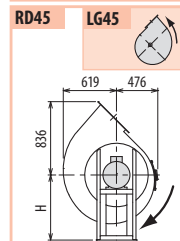
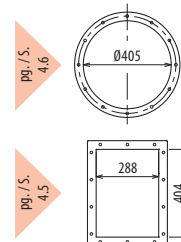
Es. 1

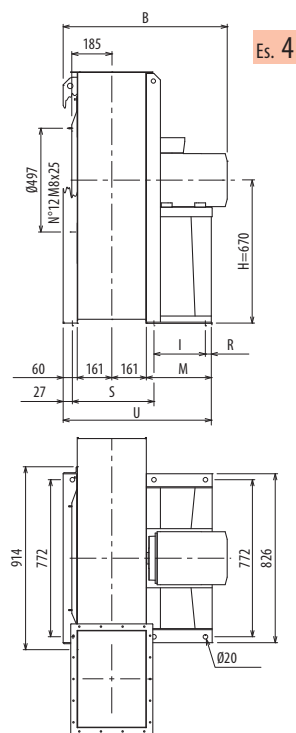


The fan is revolable - The weight indicated in the table includes motor

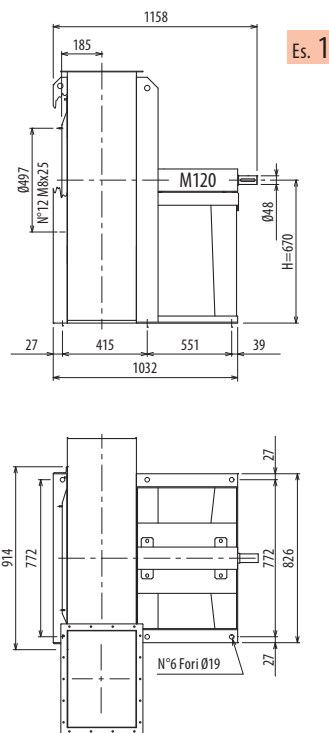
Further information and sizes:

Type	Fan	Motor	Weight Kg	PD ² Kg x m ²	B	I	H	H1	H2	J	K	M	R	S	U	Ø
PDC400/4R		132 SA4	194	4,6	718	237	750	450	750	337	372	341	64	362	686	12
PDC400/4		132 M4	195	5,4	718	237	750	450	750	337	372	341	64	362	686	12
PDC400/T			220	5,4			750	450	750							

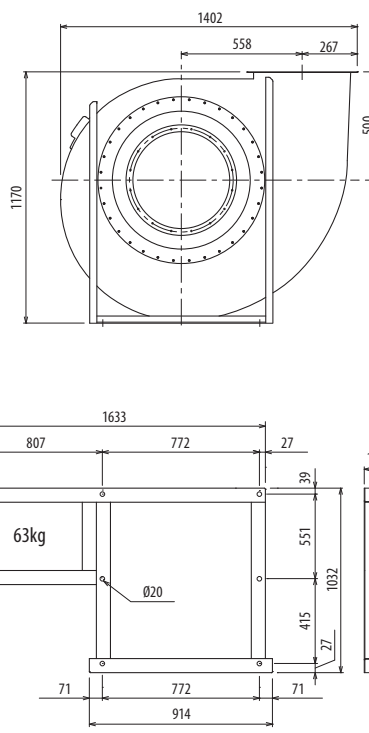




Es. 4



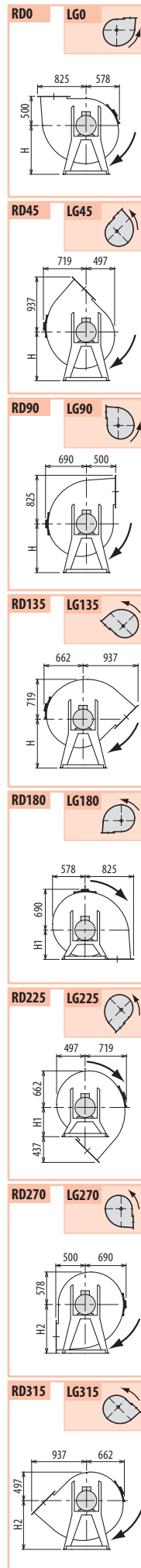
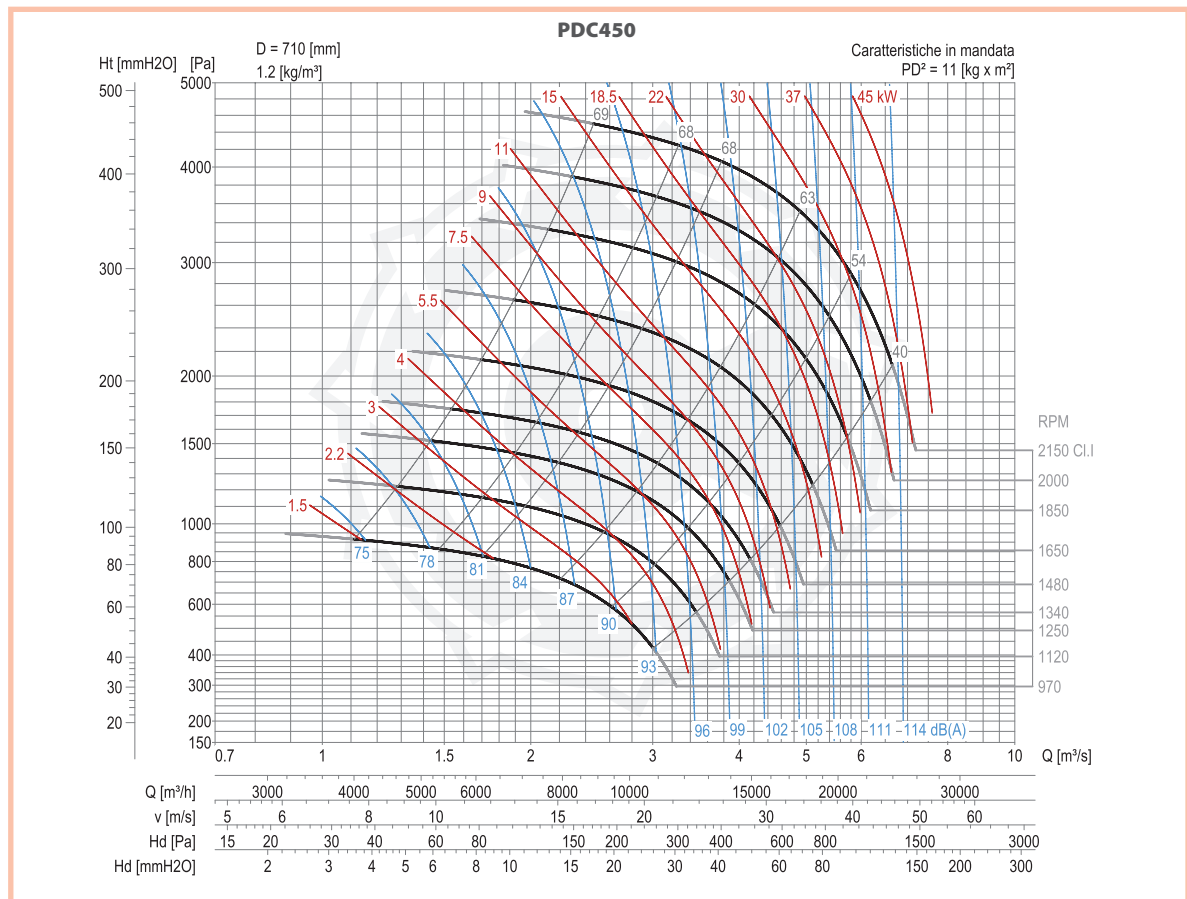
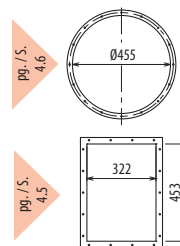
Es. 1

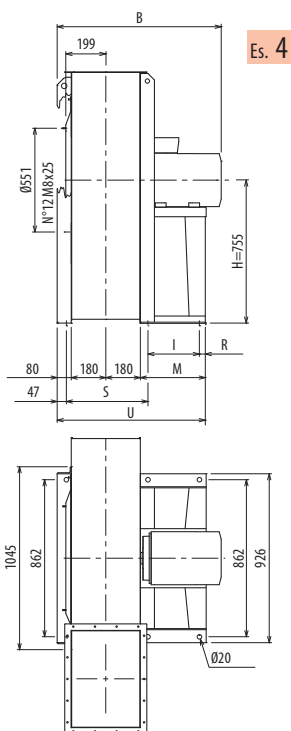


The fan is not revolvable • The weight indicated in the table includes motor

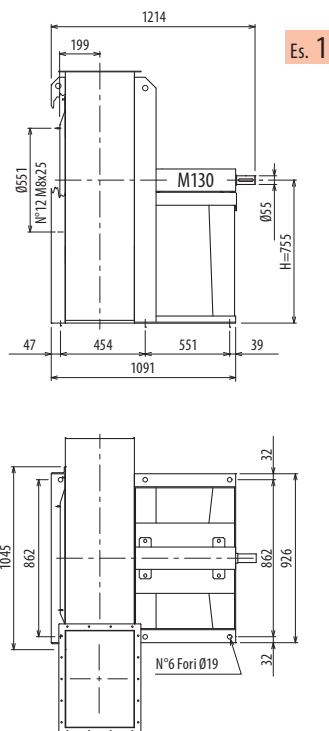
Further information and sizes

Type		Weight Kg	PD ² Kgf x m ²	B	I	H	H1	H2	R	S	M	U
Fan	Motor											
PDC450/4R	160 M4	332	10	860	316	670	500	850	60	415	436	818
PDC450/4	160 L4	345	11	860	316	670	500	850	60	415	436	818
PDC450/T		330	11			670	500	850				

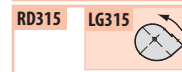
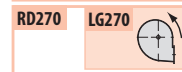
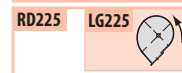
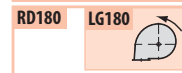
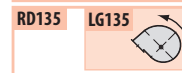
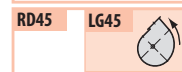
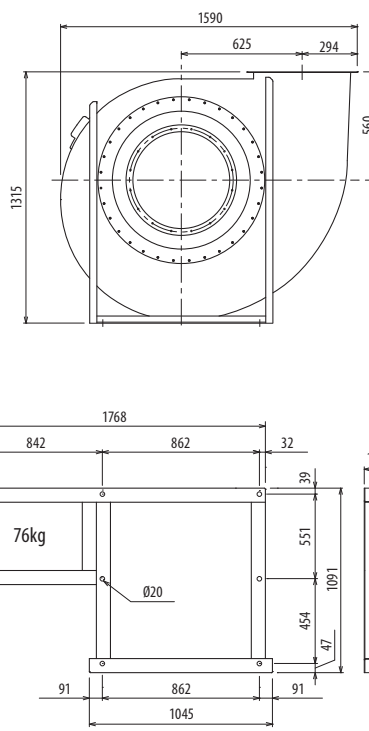




Es. 4



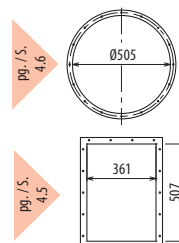
Es. 1



The fan is not revolable • The weight indicated in the table includes motor

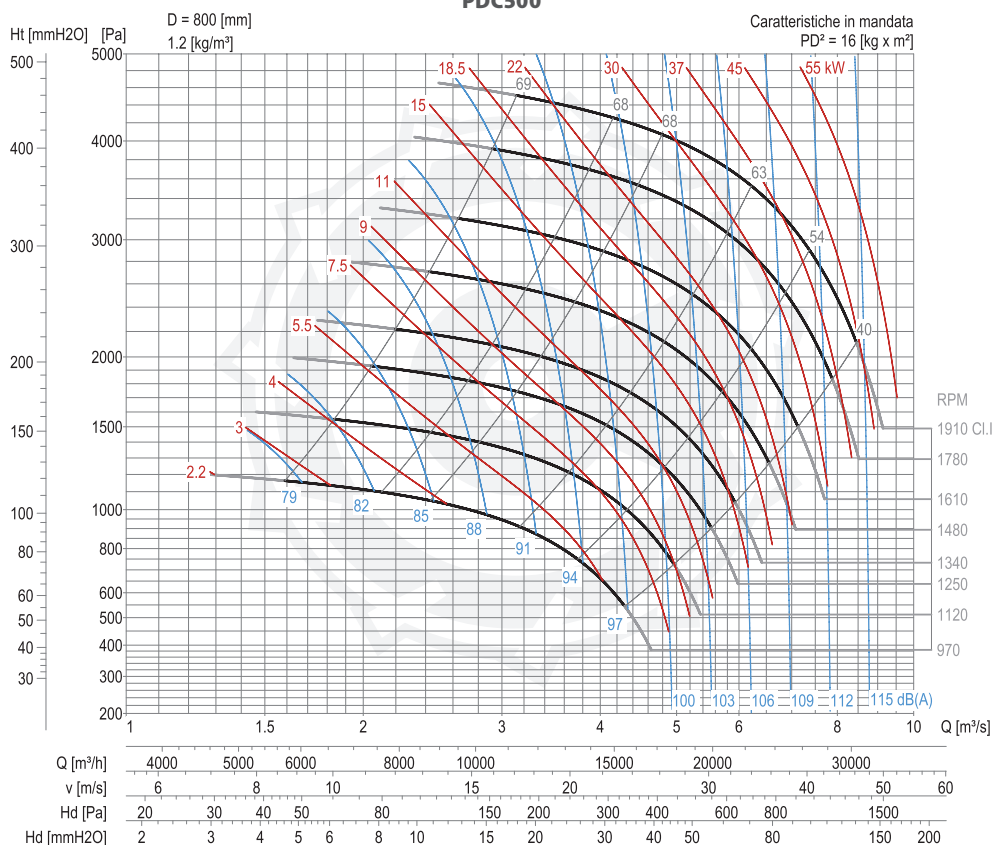
Type		Weight	PD ²													
Fan	Motor	Kg	Kgf x m ²	B	I	H	H1	H2	R	S	M	U				
PDC500/4R	180 L4	512	15	1050	361	755	560	950	39	454	460	901				
PDC500/4	200 L4	614	16	1107	401	755	560	950	39	454	500	941				
PDC500/T		395	16			755	560	950								

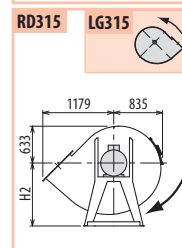
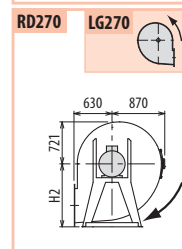
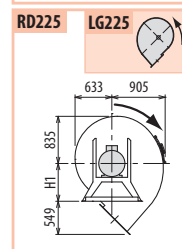
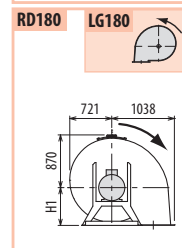
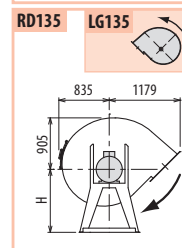
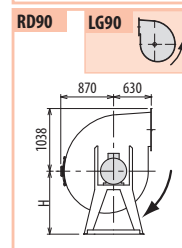
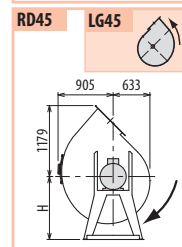
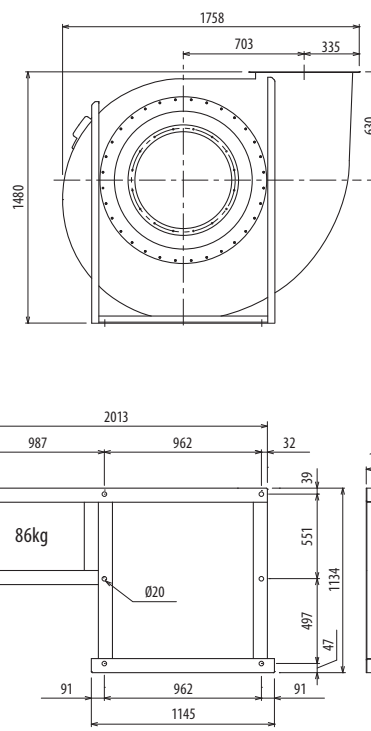
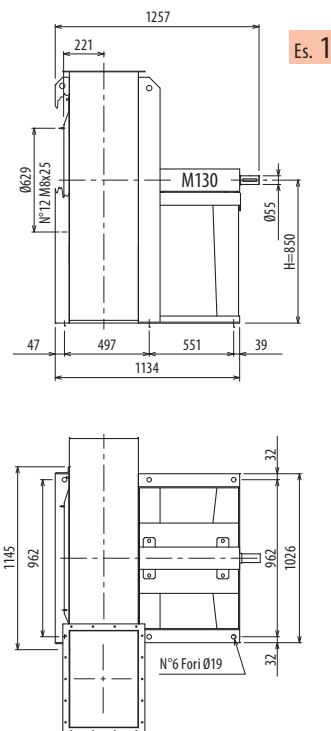
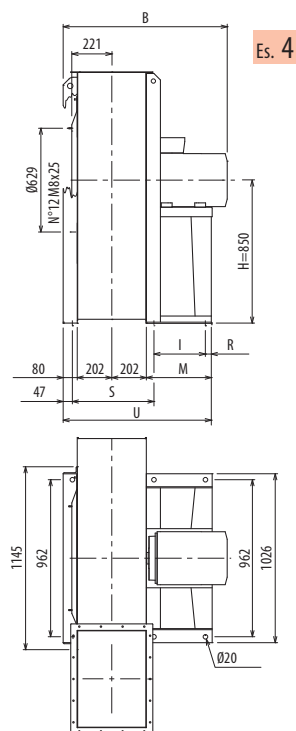
Further information and sizes



PDC

PDC500

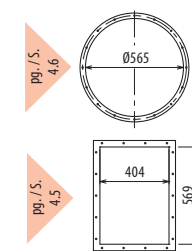




The fan is not revolable • The weight indicated in the table includes motor

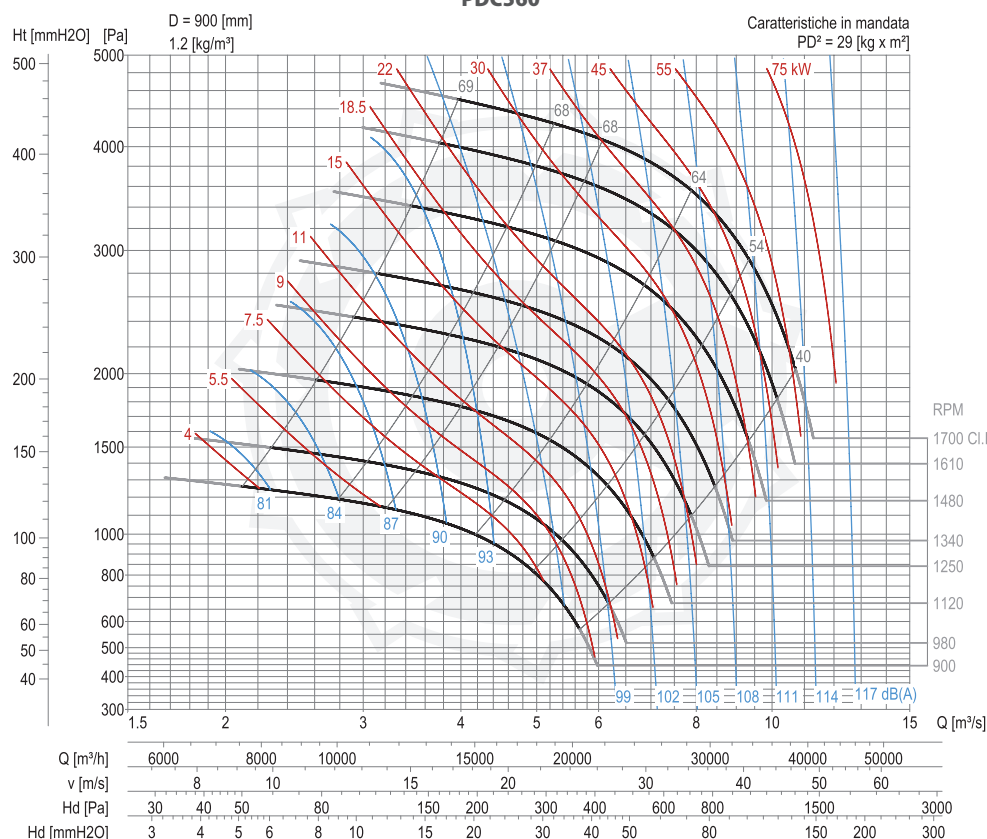
Type		Weight Kg	PD ² Kgf x m ²	B	I	H	H1	H2	R	S	M	U
Fan	Motor											
PDC560/4R	225 S4	640	27	1193	441	850	630	1060	39	497	540	1024
PDC560/4	225 M4	665	29	1193	441	850	630	1060	39	497	540	1024
PDC560/T		475	29			850	630	1060				

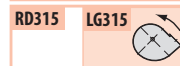
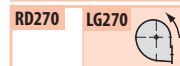
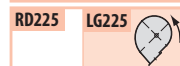
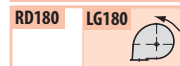
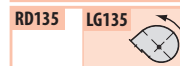
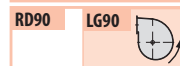
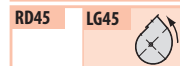
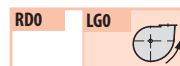
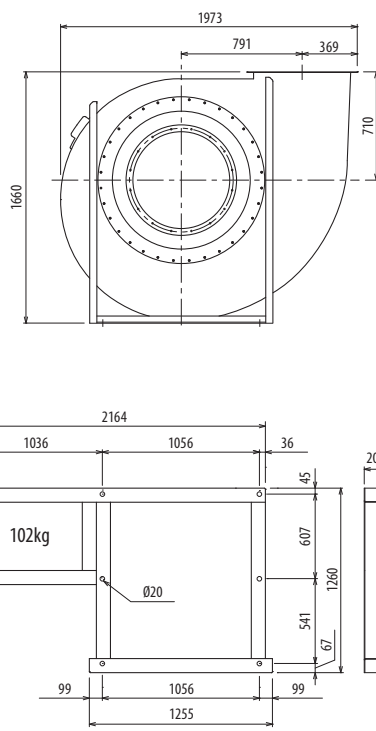
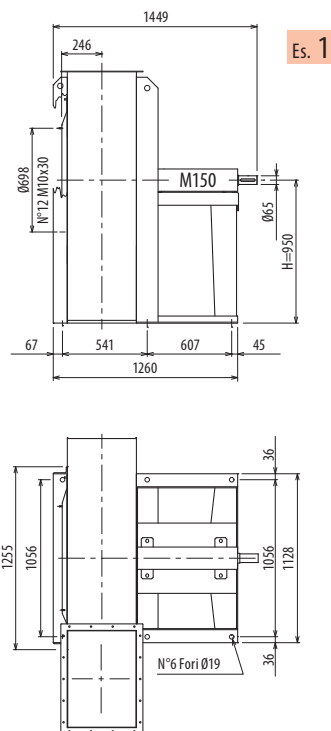
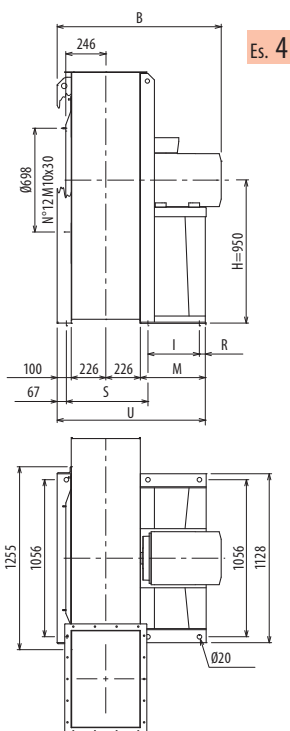
Further information and sizes



PDC

PDC560

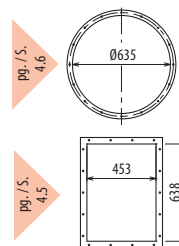




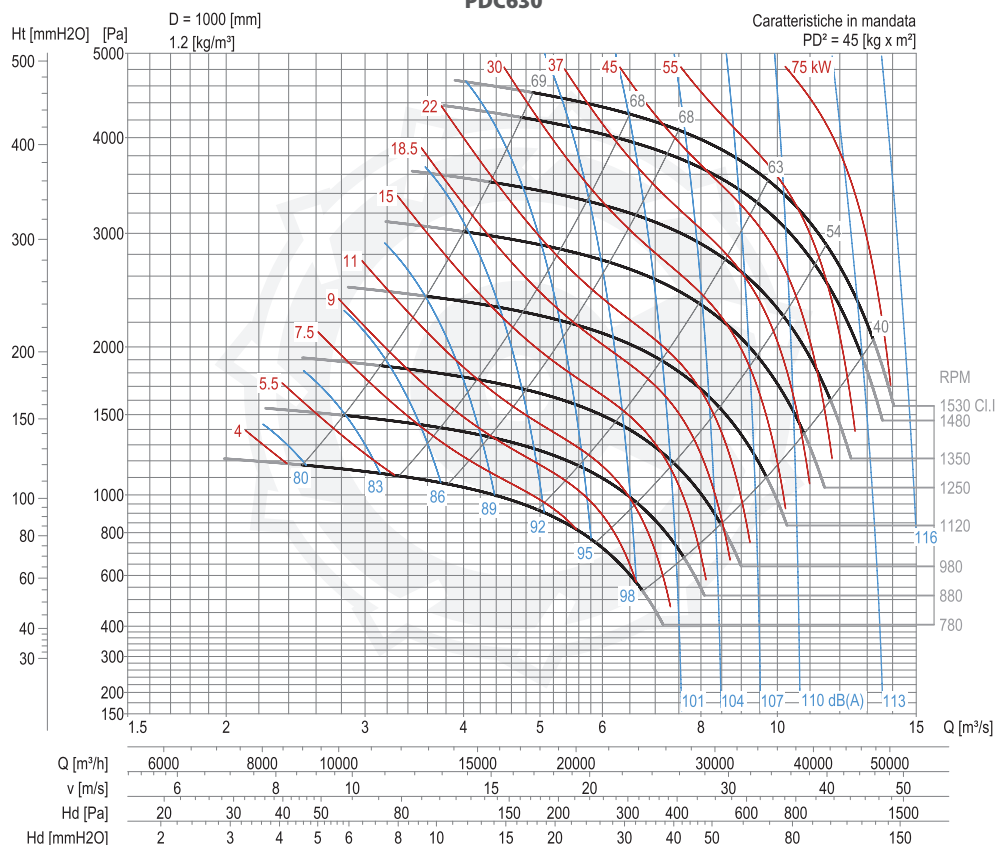
The fan is not revolable • The weight indicated in the table includes motor

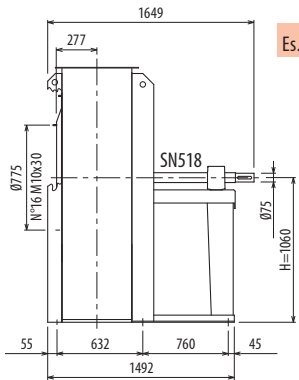
Type		Weight Kg	PD ² Kgf x m ²	B	I	H	H1	H2	R	S	M	U
Fan	Motor											
PDC630/4R	225 M4	924	40	1262	440	950	710	1180	45	541	540	1093
PDC630/4	250 M4	1011	45	1364	500	950	710	1180	45	541	600	1153
PDC630/T		695	45			950	710	1180				

Further information and sizes

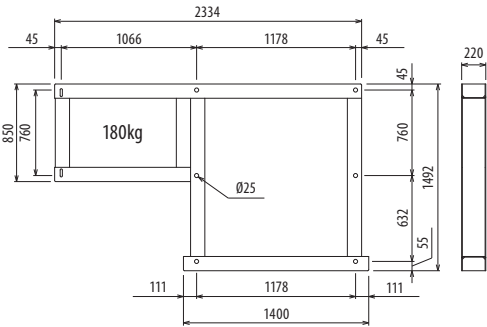
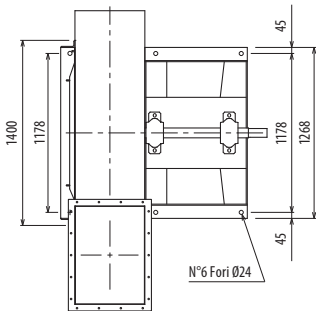
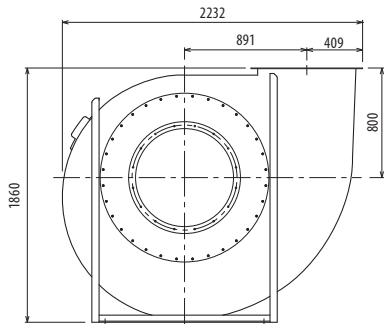


PDC630





Es. 1



The fan is not revolable

Type		Weight Kg	PD ² Kgf x m ²	B	I	H	H1	H2												
Fan	Motor																			
PDC700/T		884	85			1060	800	1320												

Further information and sizes

