DIRECT DRIVE MOTOR

CAMC

Extremely robust medium pressure and single inlet centrifugal fans with sheet steel casing and impeller

Designed for dusty air

*The images are provided only for illustrative purposes, the product may vary depending on its size, specifications and position.

Fan:
- Sheet steel casing.
- Backward curved impeller, made of very robust sheet steel, specially designed for air with a lot of dust and small materials.
- Directly coupled motor.
- With inspection and cleaning hatch from size 560 and up.

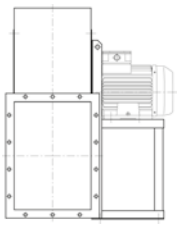
Motor:
- Motors with IE3 efficiency for powers equal to or greater than 0.75kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Maximum temperature of air to be carried: -25 ºC +90 ºC.

Finishing:
- Anti-corrosive finish in polyester resin, polymerised at 190 ºC, after degreasing with phosphate-free nanotechnology treatment.

On request:
- Special windings for different voltages.
- Fan prepared to transport air up to +150 ºC.
- Special executions for temperatures + 300 ºC.
- Stainless steel fan.
- ATEX certified Category 2.
- System 8 elastic coupling.

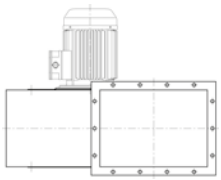
Direct drive motor construction method

SYSTEM 4



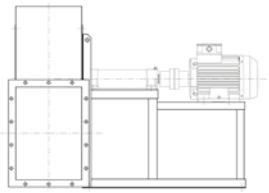
Direct drive, impeller mounted on the motor shaft, mounted on the pedestal.

SYSTEM 5



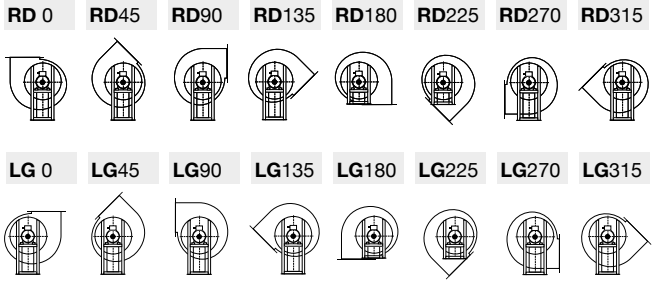
Direct drive, impeller mounted on the motor shaft, flange motor mounted on the fan casing.

SYSTEM 8



Elastic coupling drive, impeller mounted on the support shaft, mounted on the motor via an elastic coupling. Everything mounted together on a fan pedestal.

Orientations



BELT-DRIVEN MOTOR

CAMC-X

Belt driven medium pressure fans, equipped with an electric motor, a set of pulleys, belts and protectors standardized according to ISO-13857

Designed for dusty air

*The images are provided only for illustrative purposes, the product may vary depending on its size, specifications and position.

Fan:
- Sheet steel casing.
- Backward curved impeller made of highly robust sheet steel, specially designed for dusty air and small suspended materials.
- Engine mounted on general bench.
- With inspection and cleaning hatch from size 560 and up.

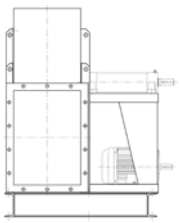
Motor:
- IE3 efficiency motors.
- Class F motors with ball bearings, IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Maximum temperature of air to be carried: -25 ºC +90 ºC.

Finishing:
- Anti-corrosive finish in polyester resin, polymerised at 190 ºC, after degreasing with phosphate-free nanotechnology treatment.

On request:
- Special windings for different voltages.
- Fan prepared to transport air up to +300 ºC.
- Stainless steel fan.
- ATEX certified Category 2.
- System 8 elastic coupling.

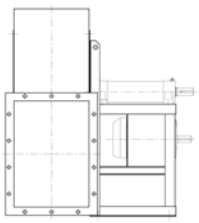
Belt-driven motor construction method

SYSTEM 12



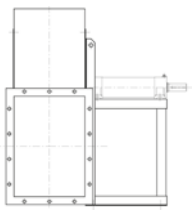
Transmission drive, identical to SYSTEM 1, with the motor and fan mounted on the common bench. Motor positions “W” or “Z” and exceptionally “X” or “Y”.

SYSTEM 9



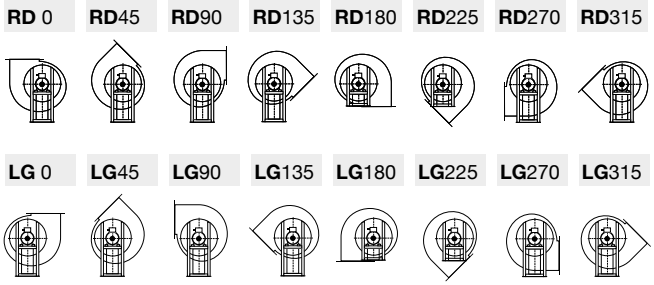
Transmission drive, identical to SYSTEM 1, with the motor mounted on the side of the pedestal, in position “W” or “Z”.

SYSTEM 1



Transmission drive, impeller mounted on the support shaft. Support mounted on the pedestal.

Orientations



LARGE SERIES

QUICK SELECT SYSTEM 4

Outlet characteristics

MOD.	FRAME	kW ass	kW inst.	r.p.m	dB	V m³/s 0.16	0.18	0.2	0.23	0.26	0.3	0.33	0.36	0.41	0.46	0.51	0.58	0.66	0.75	0.83
						Pt kgf/m²=mmH₂O														
CAMC 360	80 B/2	1	1.1	2820	73	238	235	231	223	214	203	190	180	155	130					
CAMC 380	90 S/2	1.3	1.5	2840	76		290	284	280	275	268	262	250	225	202	180				
CAMC 410	90 L/2	2	2.2	2840	79				330	326	319	313	306	292	276	260	237	205		
CAMC 440	100 LA/2	2.8	3	2850	81							390	384	375	362	355	334	294	265	
CAMC 470	112 M/2	3.8	4	2860	82								440	433	425	419	408	392	375	353
CAMC 500	132 SA/2	5.2	5.5	2900	84												489	481	475	465
CAMC 520	132 SB/2	7.2	7.5	2900	86													533	524	512
CAMC 550	160 MA/2	8.8	11	2910	87															565

MOD.	FRAME	kW ass	kW inst.	r.p.m	dB	V m³/s 0.93	1.05	1.16	1.33	1.5	1.66	1.86	2.08
						Pt kgf/m²=mmH₂O							
CAMC 470	112 M/2	3.8	4	2860	82	324	275						
CAMC 500	132 SA/2	5.2	5.5	2900	84	445	418	350					
CAMC 520	132 SB/2	7.2	7.5	2900	86	500	482	456	420	370			
CAMC 550	160 MA/2	8.8	11	2910	87	548	524	502	483	458	420	360	
CAMC 560	160 MA/2	10.5	11	2910	89		573	557	538	505	486	452	
CAMC 600	160 MB/2	14.5	15	2930	91				635	624	608	576	550

Flow margin ±5%
Noise level margin + 3... 5 dB

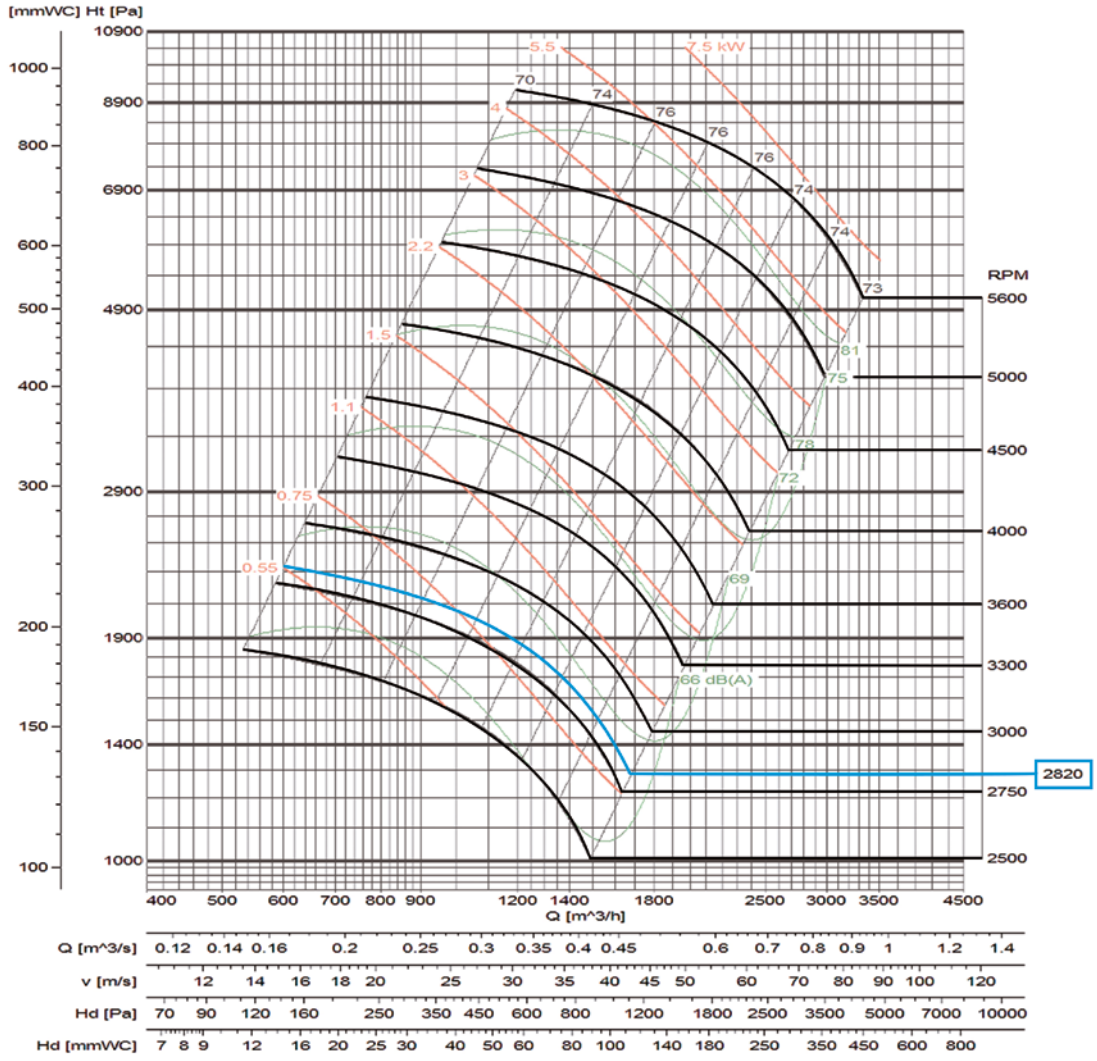
Inlet characteristics

MOD.	FRAME	kW ass	kW inst.	r.p.m	dB	V m³/s 0.16	0.18	0.2	0.23	0.26	0.3	0.33	0.36	0.41	0.46	0.51	0.58	0.66	0.75	0.83
						Pt kgf/m²=mmH₂O														
CAMC 360	80 B/2	1	1.1	2820	76	214	212	208	201	193	183	171	162	140	117					
CAMC 380	90 S/2	1.3	1.5	2840	78		261	256	252	248	241	236	225	203	182	162				
CAMC 410	90 L/2	2	2.2	2840	82				297	293	287	282	275	263	248	234	213	185		
CAMC 440	100 LA/2	2.8	3	2850	84							351	346	338	326	320	301	265	239	
CAMC 470	112 M/2	3.8	4	2860	85								396	390	383	377	367	353	338	318
CAMC 500	132 SA/2	5.2	5.5	2900	87												440	433	428	419
CAMC 520	132 SB/2	7.2	7.5	2900	89													480	472	461
CAMC 550	160 MA/2	8.8	11	2910	90															509

MOD.	FRAME	kW ass	kW inst.	r.p.m	dB	V m³/s 0.93	1.05	1.16	1.33	1.5	1.66	1.86	2.08
						Pt kgf/m²=mmH₂O							
CAMC 470	112 M/2	3.8	4	2860	85	292	248						
CAMC 500	132 SA/2	5.2	5.5	2900	87	401	376	315					
CAMC 520	132 SB/2	7.2	7.5	2900	89	450	434	410	378	333			
CAMC 550	160 MA/2	8.8	11	2910	90	493	472	452	435	412	378	324	
CAMC 560	160 MA/2	10.5	11	2910	92		516	501	484	455	437	407	
CAMC 600	160 MB/2	14.5	15	2930	94				572	562	547	518	495

Flow margin ±5%
Noise level margin + 3... 5 dB

CAMC 360



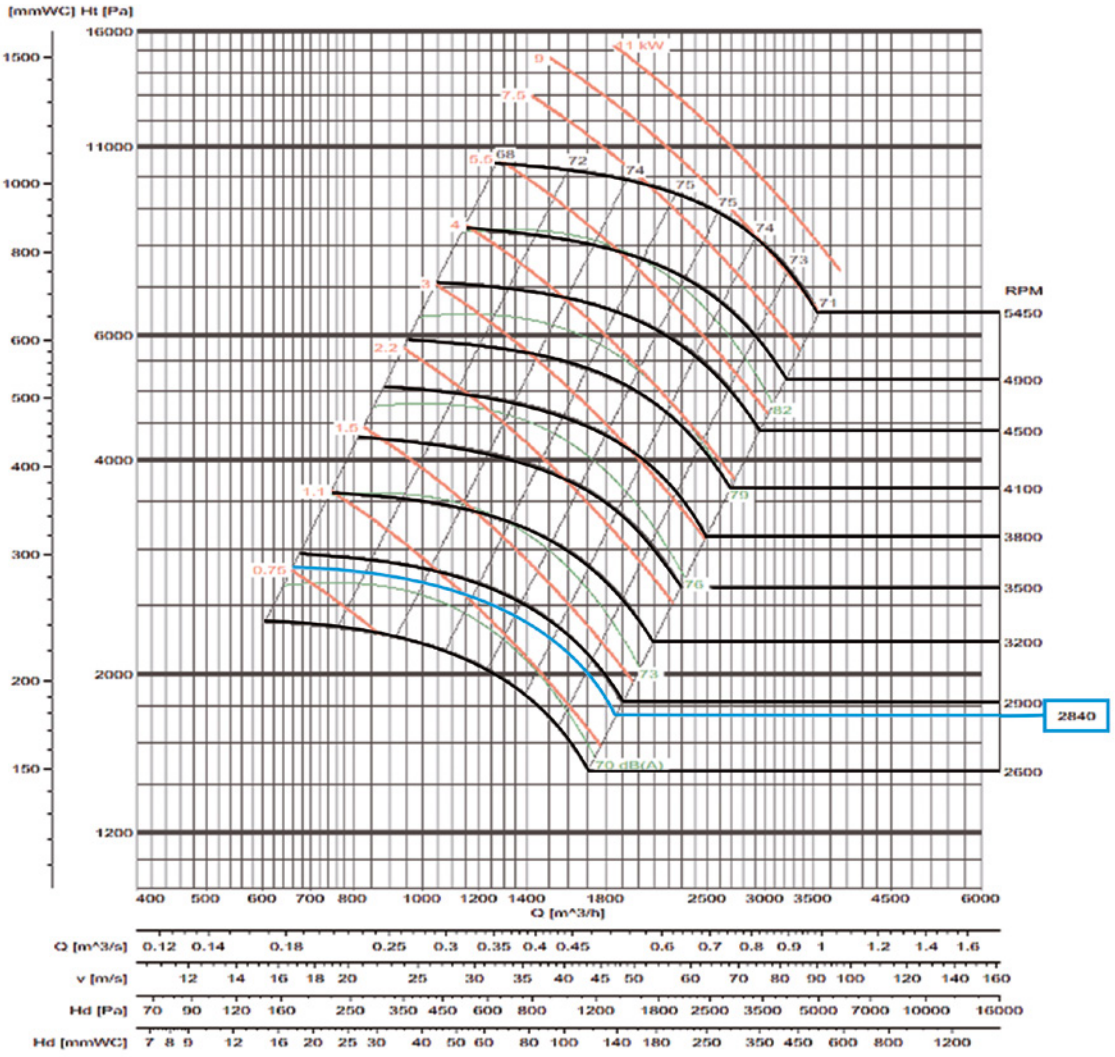
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm — Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Characteristic curves

CAMC 380



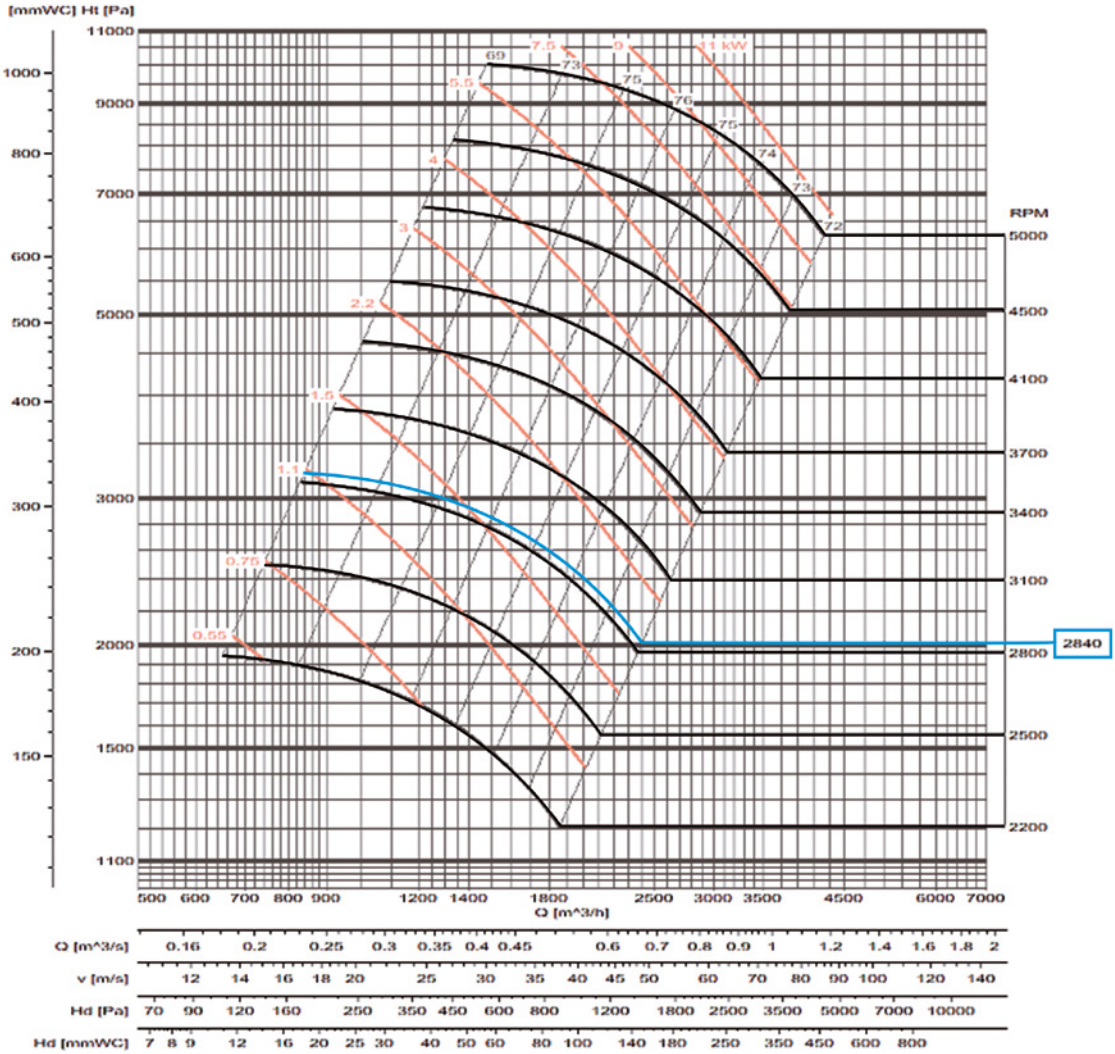
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm

Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

CAMC 410



Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

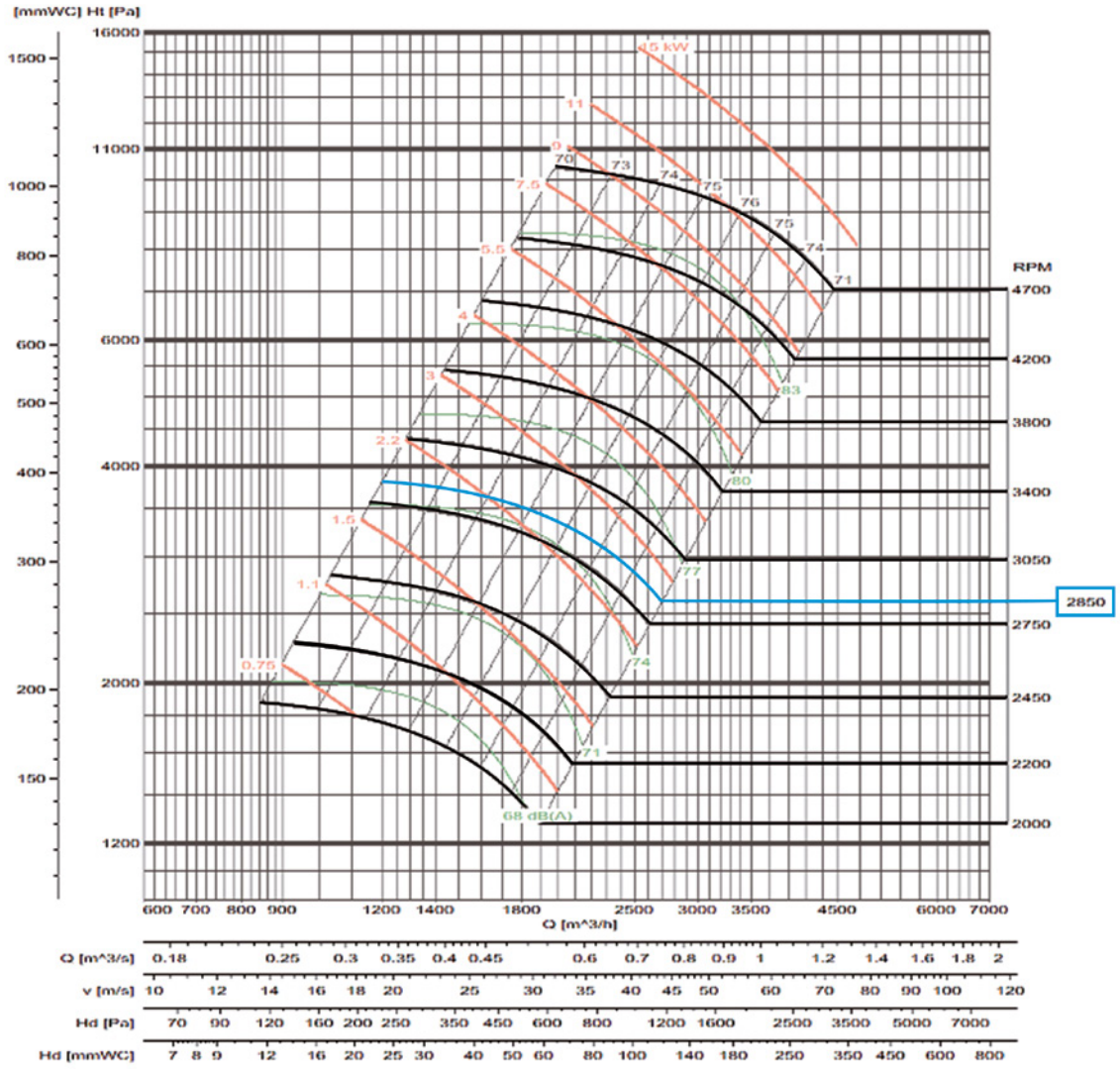
Outlet characteristics.

Rpm

Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Characteristic curves

CAMC 440



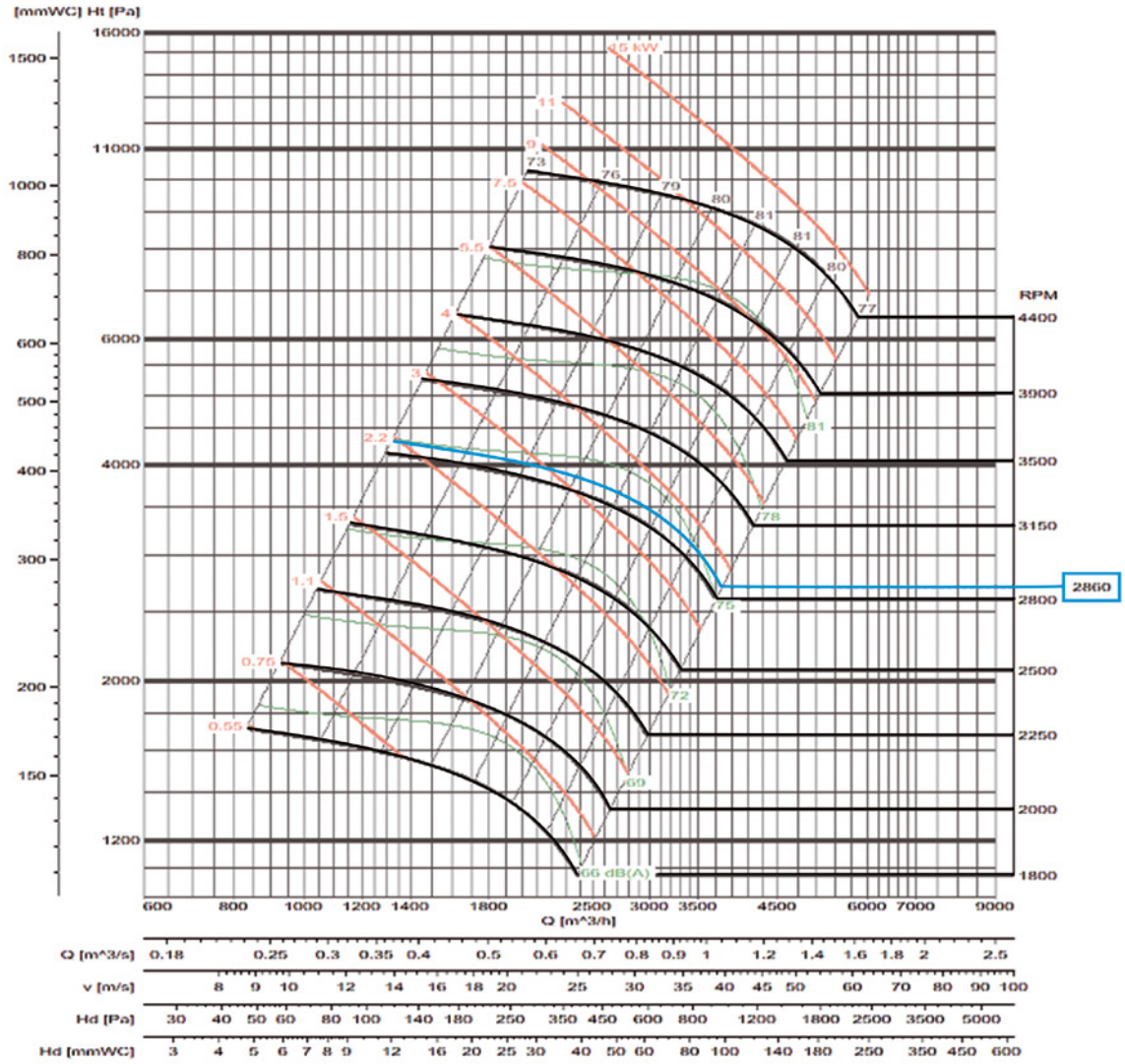
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm

Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

CAMC 470



Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

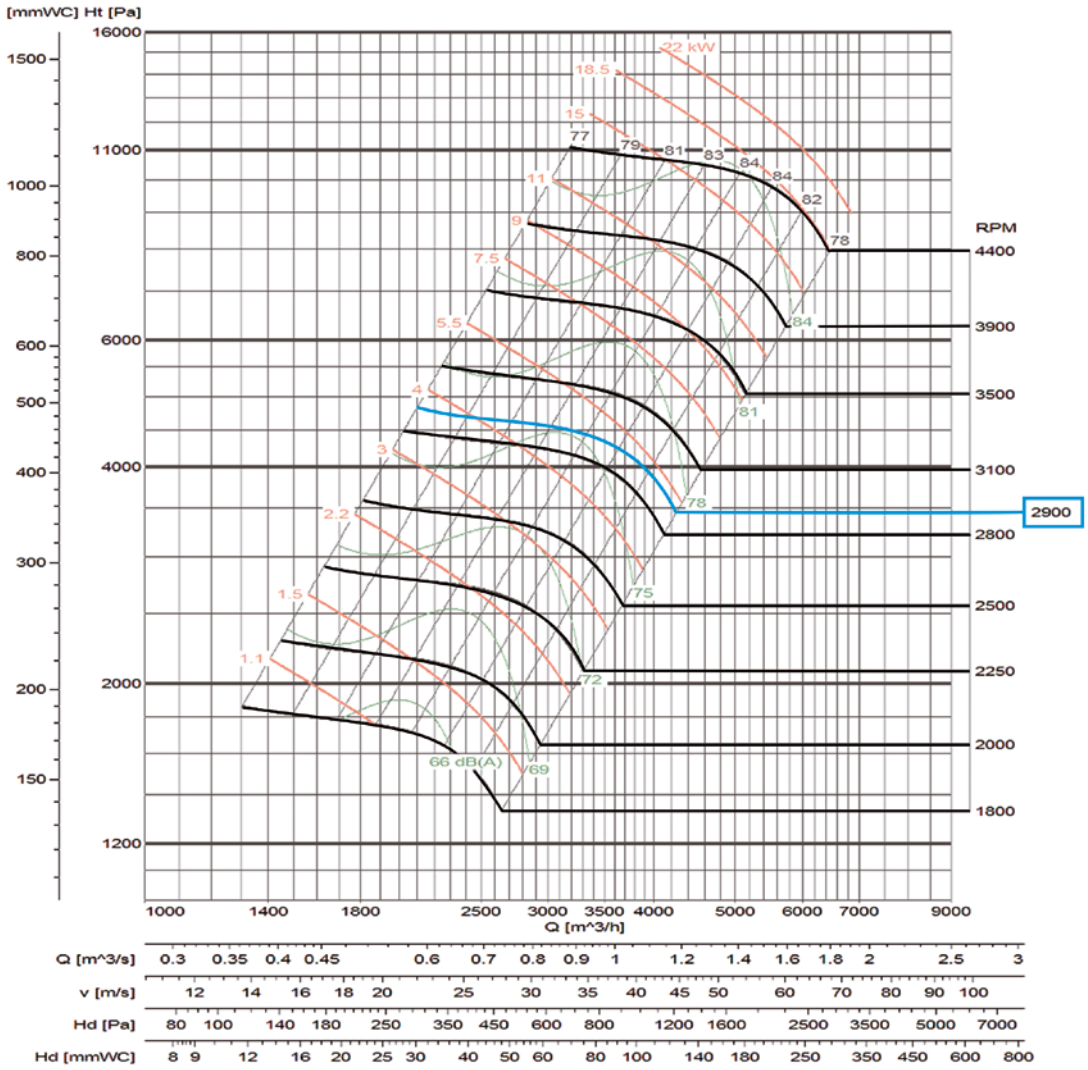
Outlet characteristics.

Rpm

Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Characteristic curves

CAMC 500

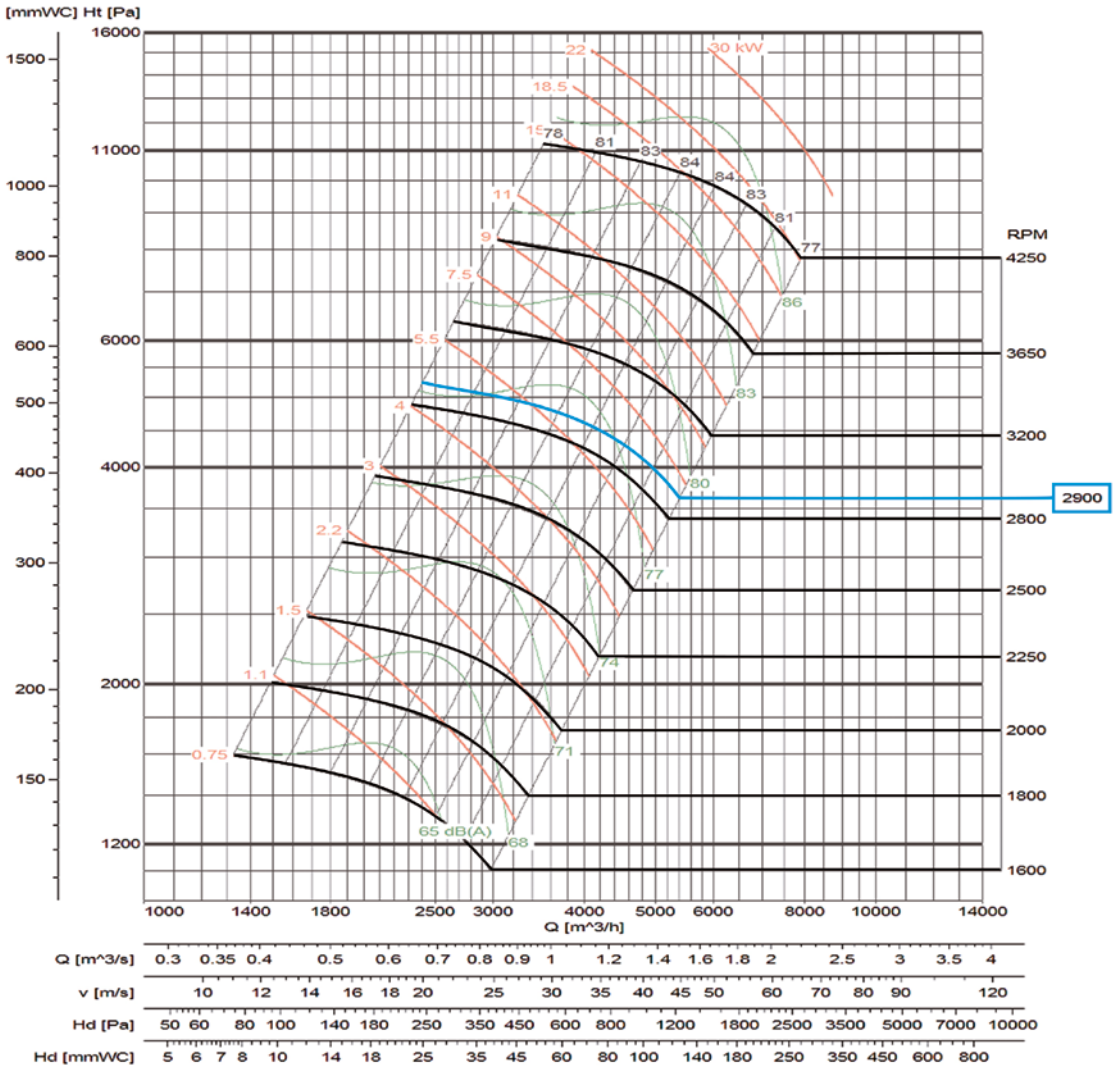


Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm — Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

CAMC 520



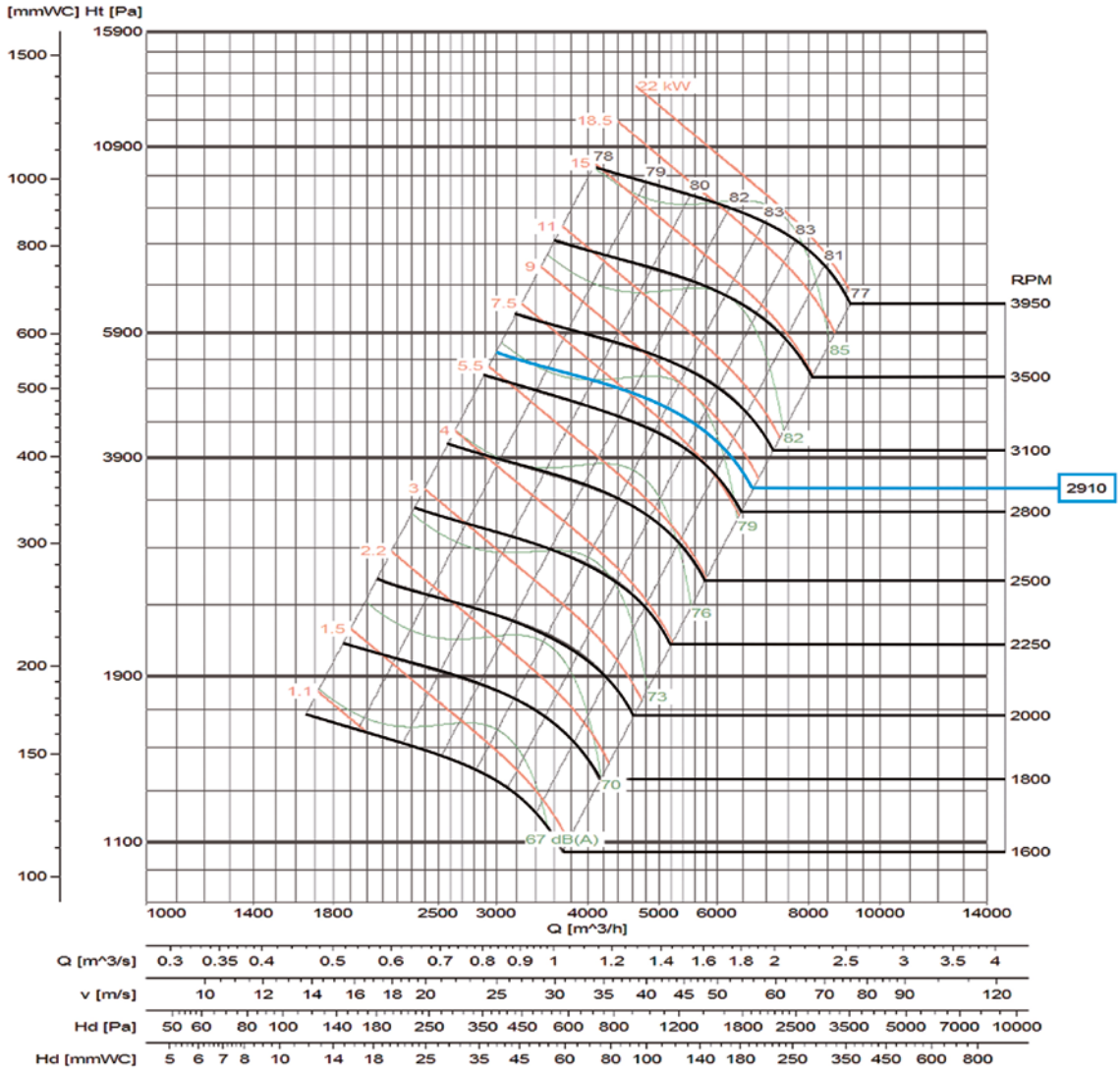
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm — Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Characteristic curves

CAMC 550



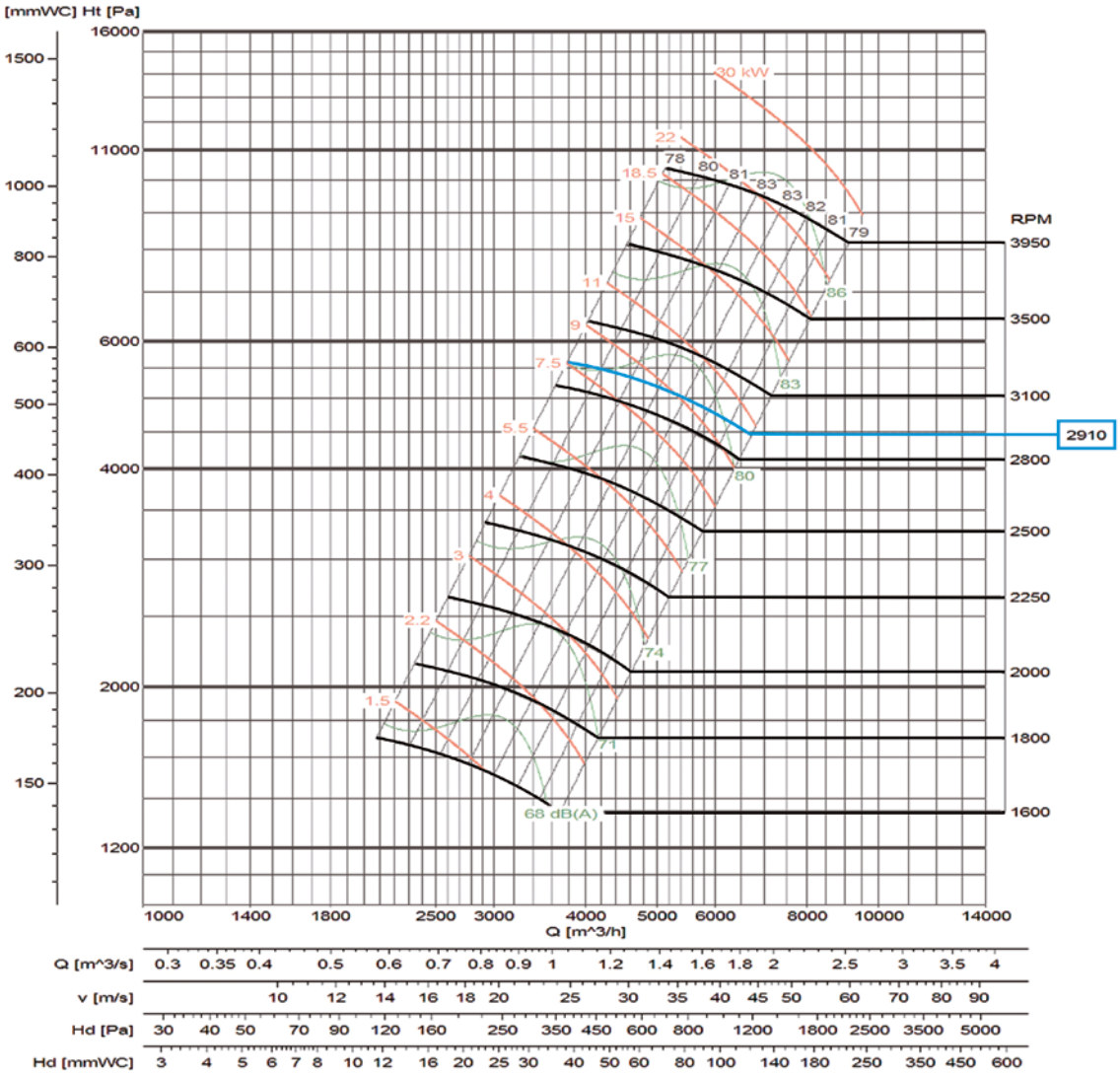
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm

Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

CAMC 560



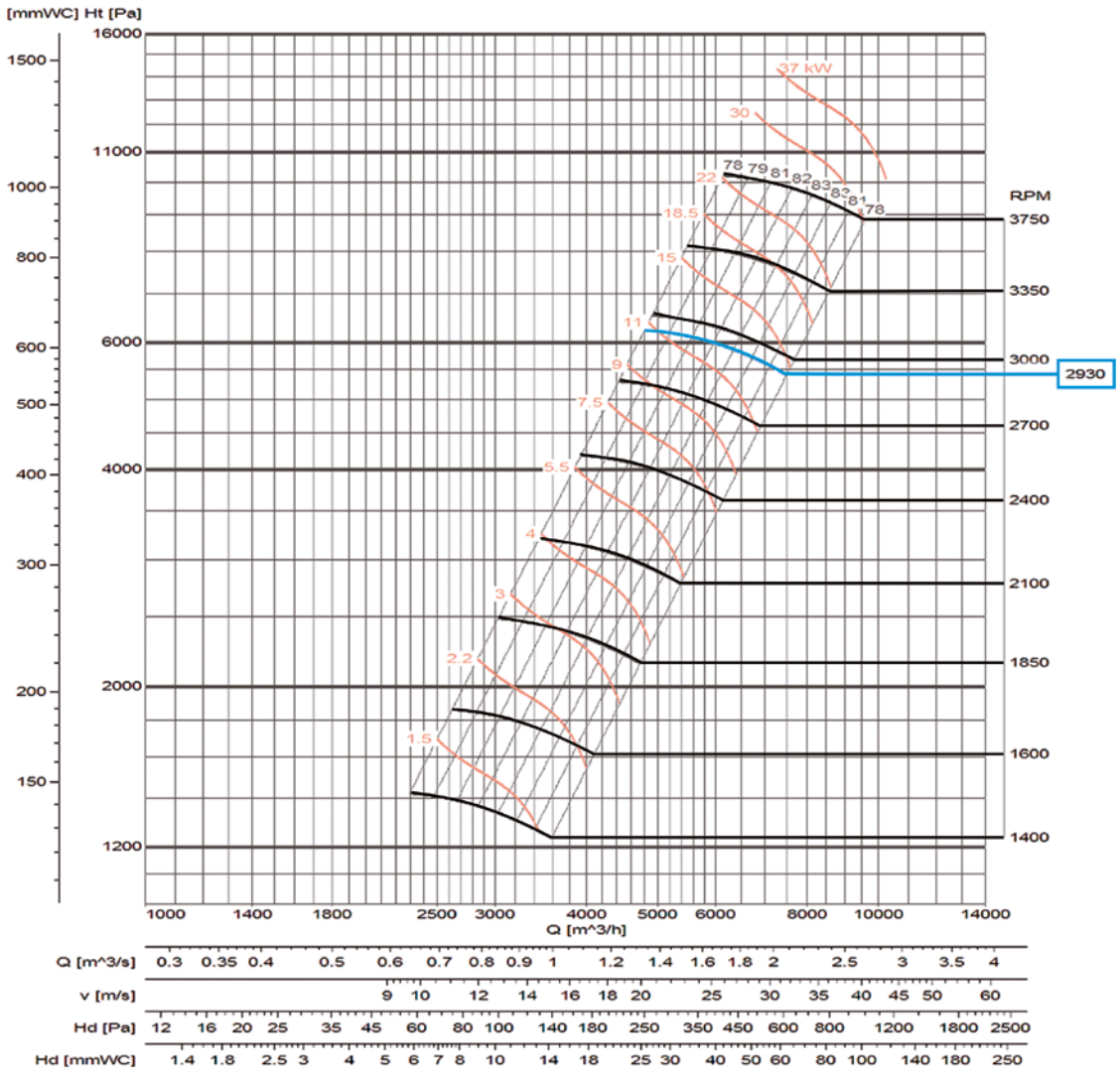
Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

Outlet characteristics.

Rpm — Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Characteristic curves

CAMC 600



Flow margin ±5%
Noise level margin + 3... 5 dB
Margin of kW absorbed ±3%

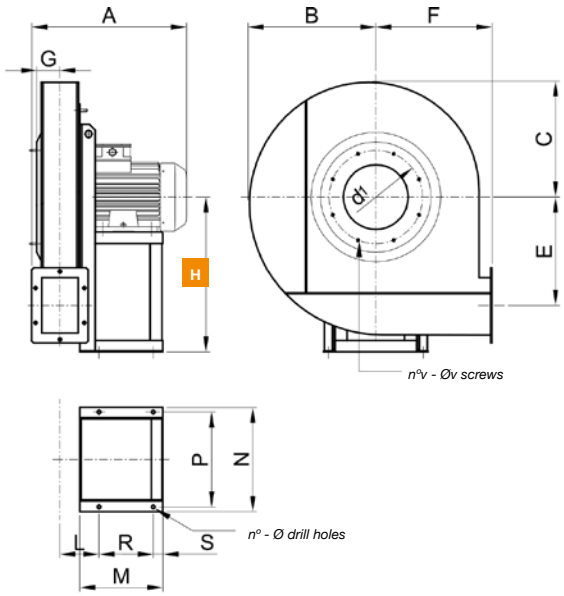
Outlet characteristics.

Rpm

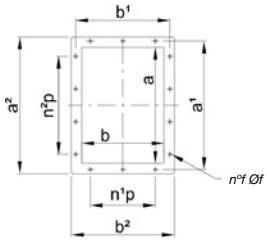
Characteristics for: system 4 and 5 in direct drive motor with 2/4/6/8 poles depending on the model.

Dimensions mm

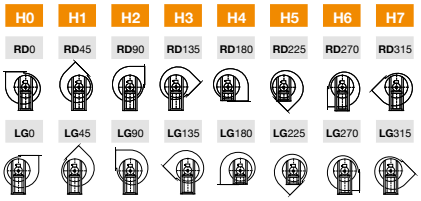
CAMC 360...600



OUTLET NOZZLE



ORIENTATIONS



H *The measurement of height H (distance between the ground and the axis) varies depending on the orientations

MOD.	FRAME	A*	B	C	E	F	G	HO-1-2-3	H4-5	H6-7	L	M*	N	P	R*	S
CAMC 360	80 B/2	365	305	275	260	280	53	355	280	355	95	190	244	220	115	25
CAMC 380	90 S/2	380	305	275	260	280	53	355	280	355	95	215	269	245	140	25
CAMC 410	90 L/2	415	330	300	280	300	60	400	300	400	101	215	269	245	140	25
CAMC 440	100 LA/2	455	390	350	335	355	65	450	355	450	106	260	312	280	185	25
CAMC 470	112 M/2	485	420	380	355	375	77	500	375	500	119	260	312	280	185	25
CAMC 500	132 SA/2	575	420	380	355	375	77	500	375	500	119	320	342	310	245	25
CAMC 520	132 SB/2	590	480	453	400	420	85	560	420	560	127	320	342	310	245	25
CAMC 550	160 MA/2	615	480	453	400	420	85	560	420	560	127	320	342	310	245	25
CAMC 560	160 MA/2	680	495	445	410	430	93	580	430	580	137	425	440	400	345	30
CAMC 600	160 MB/2	800	515	460	450	450	110	665	450	665	157	425	440	400	345	30

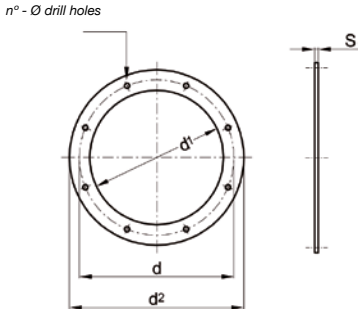
						OUTLET NOZZLE										
MOD.	n°	Φ	d¹	n°v	Φv	a	b	a¹	b¹	a²	b²	n¹p	n²p	n°f	Φf	kg	WD²
CAMC 360	4	10	200	8	M6	129	84	161	116	179	134	-	1--90	6	8	35	0.3
CAMC 380	4	10	200	8	M6	129	84	161	116	179	134	-	1--90	6	8	45	0.35
CAMC 410	4	10	241	8	M6	144	95	176	126	194	145	-	1--90	6	8	55	0.5
CAMC 440	4	12	241	8	M6	164	105	194	135	214	155	1--90	1--90	8	8	70	0.8
CAMC 470	4	12	292	8	M8	204	130	235	161	264	190	1--90	2--90	10	10	90	1.35
CAMC 500	4	12	292	8	M8	204	130	235	161	264	190	1--90	2--90	10	10	120	1.7
CAMC 520	4	12	332	8	M8	229	146	259	176	289	206	1--90	2--90	10	10	140	2
CAMC 550	4	12	332	8	M8	229	146	259	176	289	206	1--90	2--90	10	10	155	2.5
CAMC 560	4	14	366	8	M8	255	166	286	194	315	226	1--90	2--90	10	10	200	2.7
CAMC 600	4	14	366	8	M8	320	206	356	235	380	266	1-100	3-100	12	10	235	3.3

*For "HIGH TEMP." constructions, elevations "A-M-R" + 50 mm.
(kg) Weight of fan with motor.
WD^2 = Moment of inertia of the impeller, expressed in Kg x m^2

To obtain the dimensions of systems 1, 9 and 12 consult with our technical team.

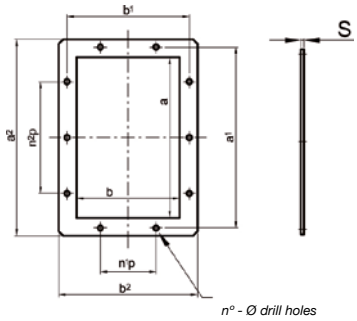
Accessories

Inlet counter flange



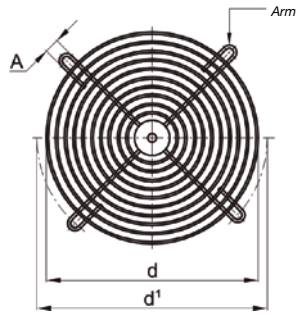
MOD.	d	d¹	d²	n°	Φ	s	kg
CAMC 360	200	165	235	8	9	4	0.65
CAMC 380	200	165	235	8	9	4	0.65
CAMC 410	241	205	275	8	9	4	0.75
CAMC 440	241	205	275	8	9	4	0.75
CAMC 470	292	255	325	8	11	4	1
CAMC 500	292	255	325	8	11	4	1
CAMC 520	332	286	366	8	11	5	1.6
CAMC 550	332	286	366	8	11	5	1.6
CAMC 560	366	321	401	8	11	5	1.8
CAMC 600	366	321	401	8	11	5	1.8

Impulsion counter-flange



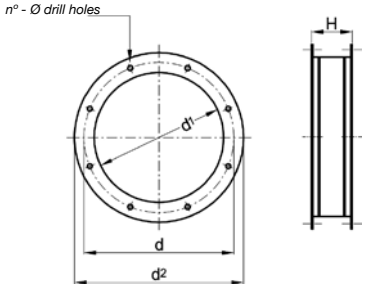
MOD.	a	b	a¹	b¹	a²	b²	n¹p	n²p	n⁰	Φ	s	kg
CAMC 360	129	85	161	116	179	135	-	1--90	6	8	4	0.4
CAMC 380	129	85	161	116	179	135	-	1--90	6	8	4	0.4
CAMC 410	144	95	176	126	194	145	-	1--90	6	8	4	0.45
CAMC 440	164	105	194	135	214	155	1--90	1--90	8	8	4	0.5
CAMC 470	204	130	235	161	264	190	1--90	2--90	10	10	4	0.7
CAMC 500	204	130	235	161	264	190	1--90	2--90	10	10	4	0.7
CAMC 520	229	146	259	176	289	206	1--90	2--90	10	10	4	0.8
CAMC 550	229	146	259	176	289	206	1--90	2--90	10	10	4	0.8
CAMC 560	255	166	286	194	315	226	1--90	2--90	10	10	4	0.9
CAMC 600	320	206	356	235	380	266	1-100	3-100	12	10	4	1

Inlet protection mesh



MOD.	d	d¹	A	n°	kg
CAMC 360	165	200	9	4	0.15
CAMC 380	165	200	9	4	0.15
CAMC 410	205	241	9	4	0.2
CAMC 440	205	241	9	4	0.2
CAMC 470	255	292	11	4	0.3
CAMC 500	255	292	11	4	0.3
CAMC 520	286	332	11	4	0.35
CAMC 550	286	332	11	4	0.35
CAMC 560	321	366	11	4	0.4
CAMC 600	321	366	11	4	0.4

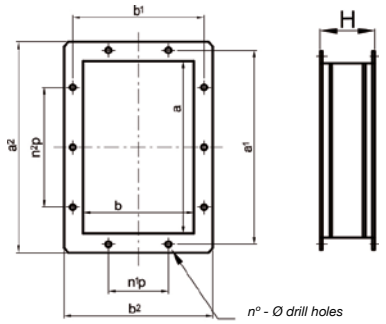
Inlet anti-vibration seal



MOD.	d	d¹	d²	n°	Φ	H	kg
CAMC 360	200	165	235	8	9	200	1.5
CAMC 380	200	165	235	8	9	200	1.5
CAMC 410	241	205	275	8	9	200	1.7
CAMC 440	241	205	275	8	9	200	1.7
CAMC 470	292	255	325	8	11	200	2.2
CAMC 500	292	255	325	8	11	200	2.2
CAMC 520	332	286	366	8	11	200	3.4
CAMC 550	332	286	366	8	11	200	3.4
CAMC 560	366	321	401	8	11	200	3.8
CAMC 600	366	321	401	8	11	200	3.8

Accessories

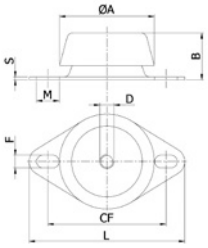
Impulsion anti-vibration seal



MOD.	a	b	a¹	b¹	a²	b²	n¹p	n²p	n⁰	Φ	H	kg
CAMC 360	129	85	161	116	179	135	-	1--90	6	8	200	1
CAMC 380	129	85	161	116	179	135	-	1--90	6	8	200	1
CAMC 410	144	95	176	126	194	145	-	1--90	6	8	200	1.1
CAMC 440	164	105	194	135	214	155	1--90	1--90	8	8	200	1.2
CAMC 470	204	130	235	161	264	190	1--90	2--90	10	10	200	1.6
CAMC 500	204	130	235	161	264	190	1--90	2--90	10	10	200	1.6
CAMC 520	229	146	259	176	289	206	1--90	2--90	10	10	200	1.8
CAMC 550	229	146	259	176	289	206	1--90	2--90	10	10	200	1.8
CAMC 560	255	166	286	194	315	226	1--90	2--90	10	10	200	2
CAMC 600	320	206	356	235	380	266	1-100	3-100	12	10	200	2.2

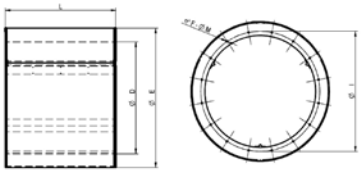
Shock absorbers

TYPE 1



MOD.	SHOCK-ABSORBERS MODEL	TYPE	øA	B	D	CF	F	L	M	S
CAMC 360	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 380	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 410	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 440	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 470	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 500	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 520	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 550	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 560	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2
CAMC 600	CF 623110	1	67	33...34	10	76.5	9	90.5	16	2

Circular silencers



Silencers are used to lower the noise level at air conditioning or ventilation installation manufactured using galvanised steel.

- Upon request: other constructions using different materials.

øD	øE	L	øl	F	øM
315	515	ØD,1.5ØD, 2ØD	355	8	M8
355	555	ØD,1.5ØD, 2ØD	395	8	M8
400	600	ØD,1.5ØD, 2ØD	450	8	M8
450	650	ØD,1.5ØD, 2ØD	500	8	M8
500	700	ØD,1.5ØD, 2ØD	560	12	M8
560	760	ØD,1.5ØD, 2ØD	620	12	M8
630	830	ØD,1.5ØD, 2ØD	690	12	M8
710	910	ØD,1.5ØD, 2ØD	770	16	M8
800	1000	ØD,1.5ØD, 2ØD	860	16	M8

øD	øE	L	øl	F	øM
900	1100	ØD,1.5ØD, 2ØD	970	16	M10
1000	1200	ØD,1.5ØD, 2ØD	1070	16	M10
1120	1320	ØD,1.5ØD, 2ØD	1190	20	M10
1250	1450	ØD,1.5ØD, 2ØD	1320	20	M10
1400	1600	ØD,1.5ØD, 2ØD	1470	20	M10
1500	1700	ØD,1.5ØD, 2ØD	1570	20	M10
1600	1800	ØD,1.5ØD, 2ØD	1680	24	M14
1700	1900	ØD,1.5ØD, 2ØD	1780	24	M14
1800	2000	ØD,1.5ØD, 2ØD	1880	24	M14