



Date 24.10.2019
Company -
Attention -
Project - AHU1 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 500-4T-09
Operating Conditions Standard
Air Volume 11.872 m³/h
Static Pressure 1.473 Pa
Fan Static Efficiency 75,5 %
Peak Fan Static Efficiency 75,5 %
Fan Speed 2451 rpm @ 84Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 6,44 kW @ working point
Specific Fan Power 2,16 W/l/s

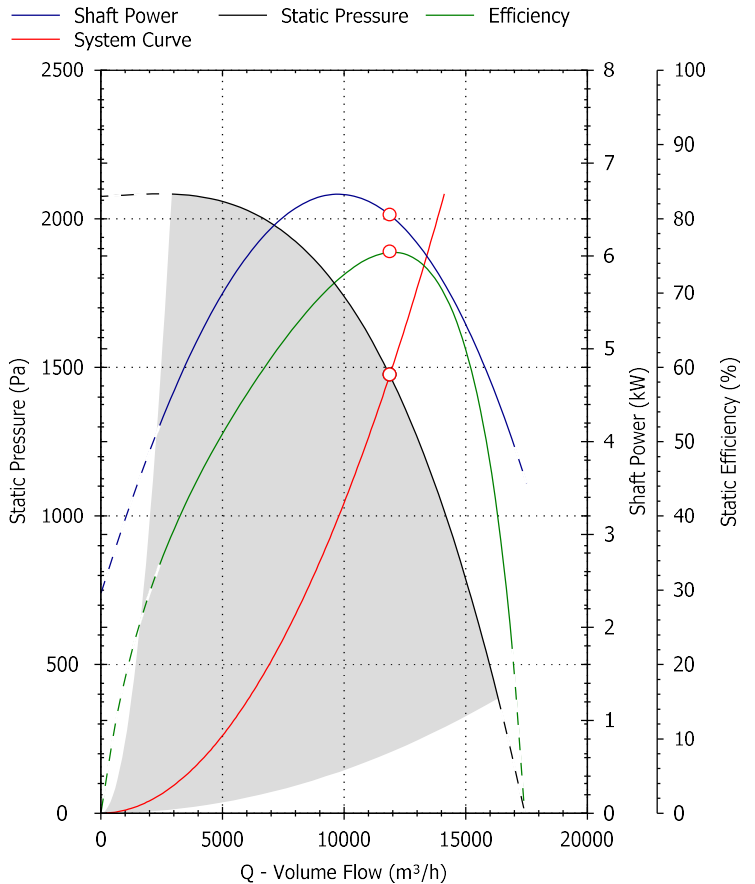
Motor Selection

Recommended Motor AC Motor (7,50 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 68,2 % @ working point
Motor Input Power 7,13 kW @ working point

Operating Limits

Max. Shaft Power 7,50 kW
Max. Input Power 8,31 kW
Max. Fan Speed 2560 rpm @ 88 Hz
Temperature (Min-Max) -20° To 40°C

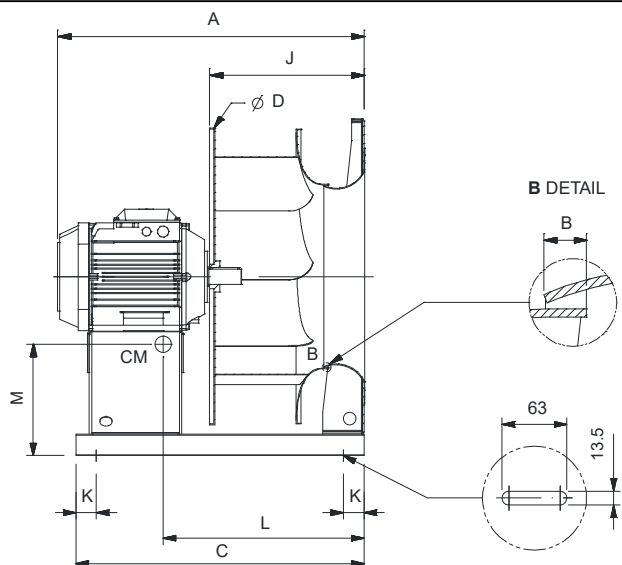
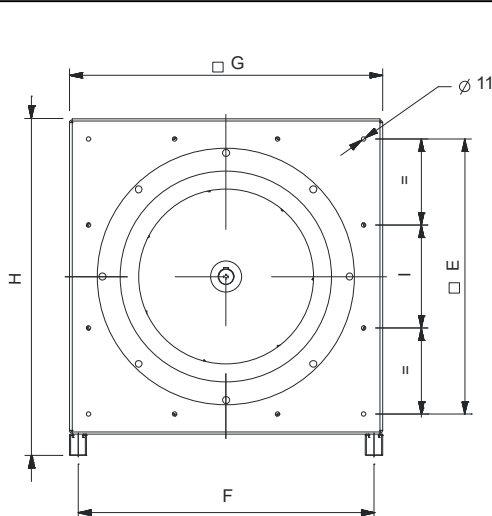


ErP Compliance

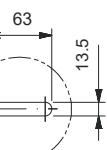
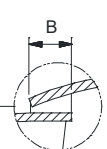
η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
70,9	A	S	N72	+	S&P	-	7,062	12.068	1.436	2451	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	98	84	93	95	94	89	86	81	102 dB
Lwi(A)	71	68	85	91	94	90	87	80	98 dB(A)
Lpi(A)	61	57	74	81	83	80	77	70	87 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



B DETAIL

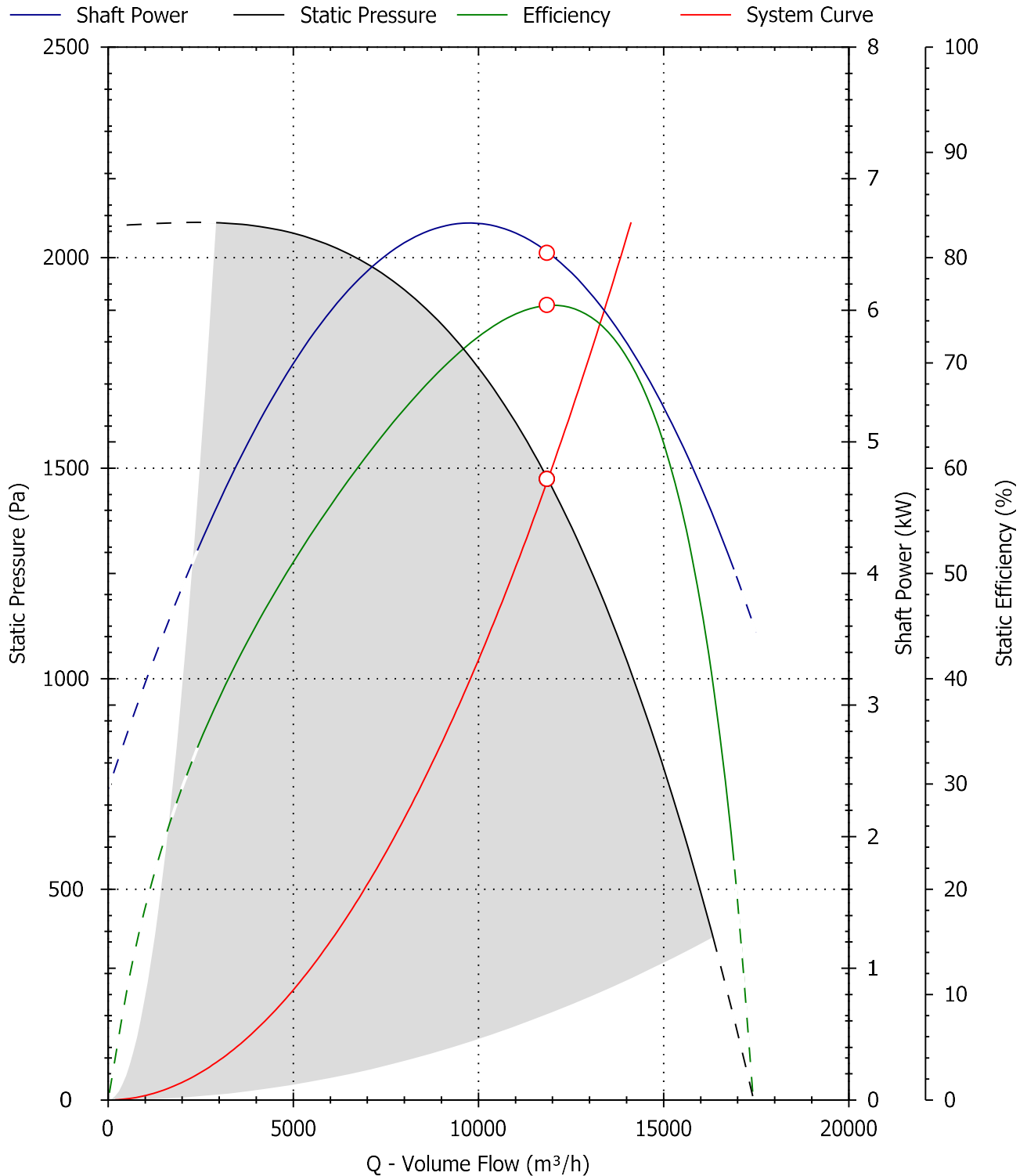


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
757	5	700	566	598	589	630	682	200	285	50	385	328	110 Kg



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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
75,5	A	S	N72	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
7,062	12.068	1.436	2451	1		

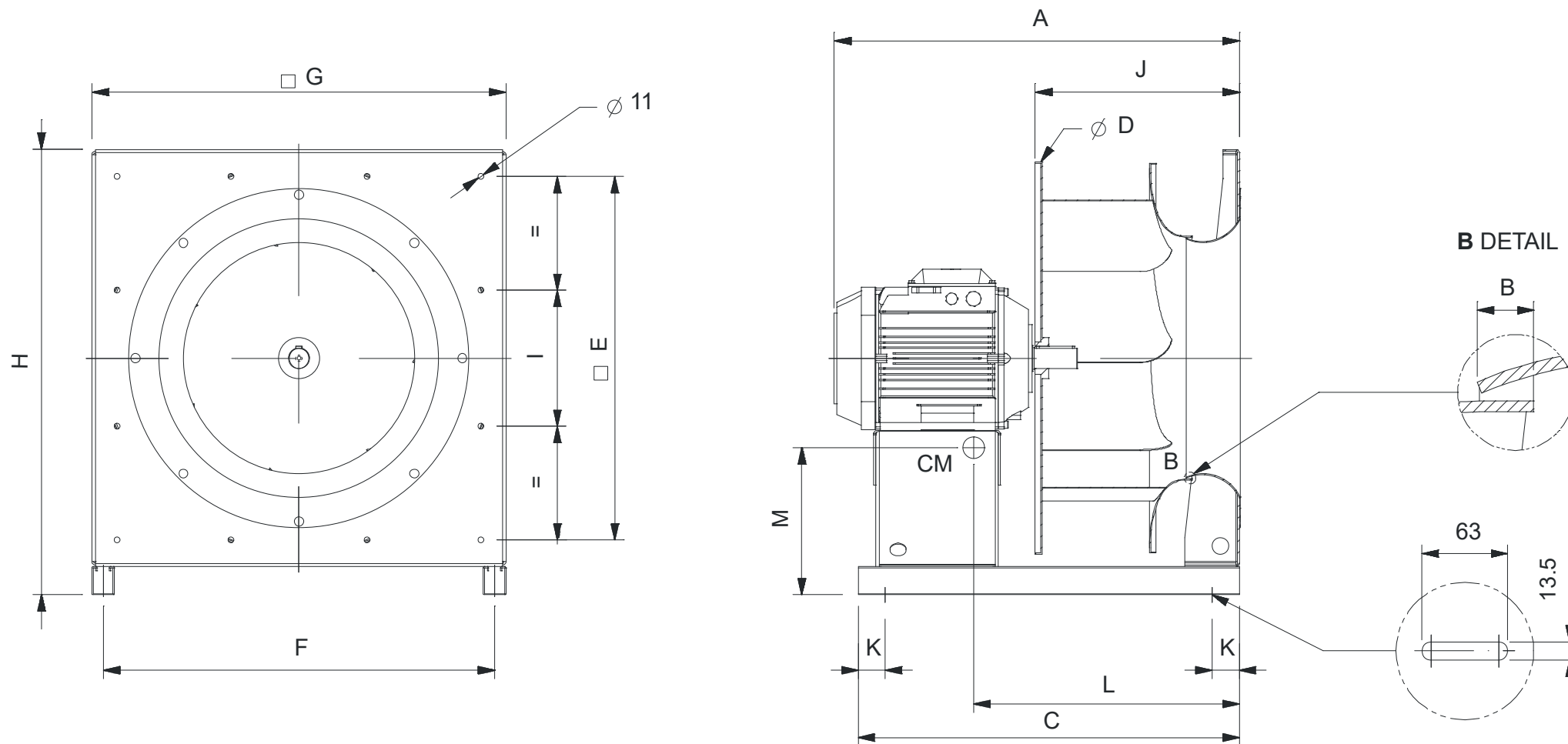
Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	98	84	93	95	94	89	86	81	102 dB
Lwi(A)	71	68	85	91	94	90	87	80	98 dB(A)
Lpi(A)	61	57	74	81	83	80	77	70	87 dB(A)

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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
757	5	700	566	598	589	630	682	200	285	50	385	328	110 Kg



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Fan Selection

Fan Type BC
Unit BPHM 355-2T-05
Operating Conditions Standard
Air Volume 6.275 m³/h
Static Pressure 650 Pa
Fan Static Efficiency 64,9 %
Peak Fan Static Efficiency 73,8 %
Fan Speed 2937 rpm @ 51Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 1,74 kW @ working point
Specific Fan Power 1,16 W//s

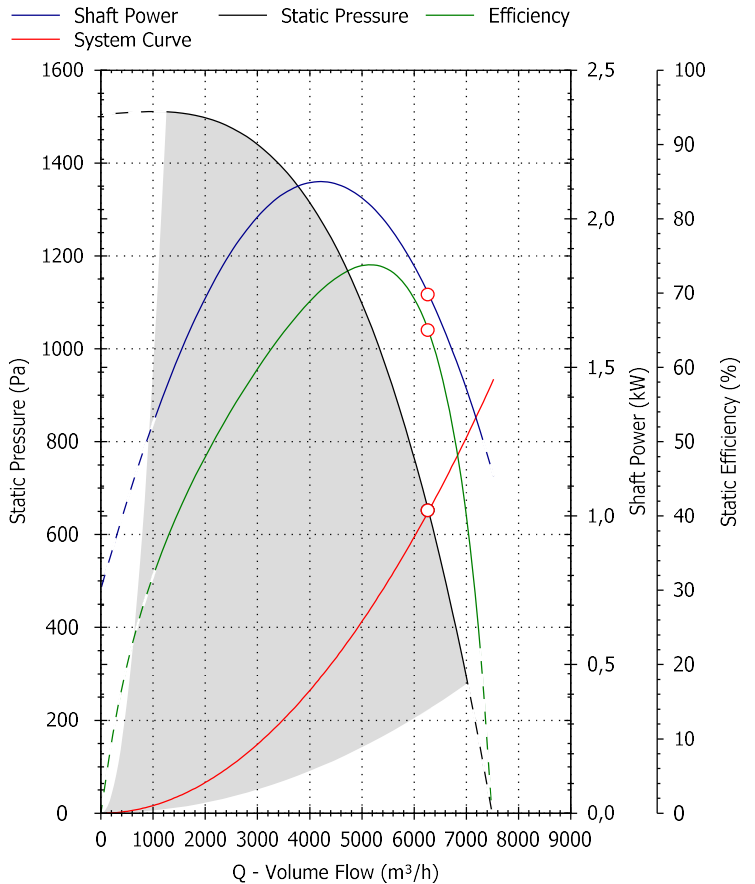
Motor Selection

Recommended Motor AC Motor (2,20 kW 50 Hz 2p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 56,0 % @ working point
Motor Input Power 2,02 kW @ working point

Operating Limits

Max. Shaft Power 2,20 kW
Max. Input Power 2,55 kW
Max. Fan Speed 3000 rpm @ 52 Hz
Temperature (Min-Max) -20° To 40°C

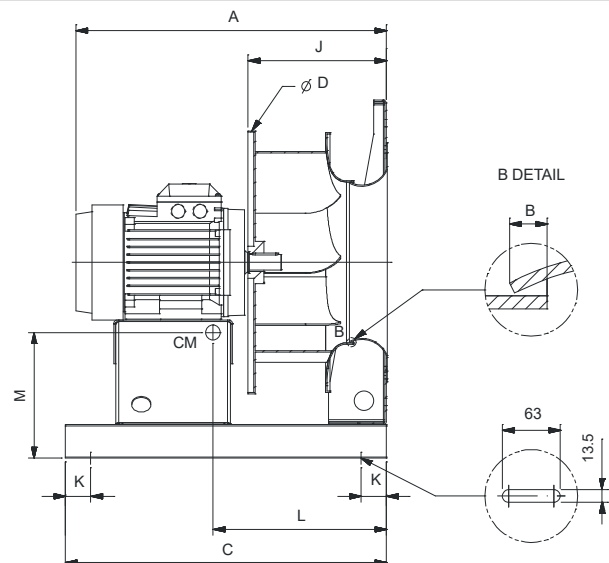
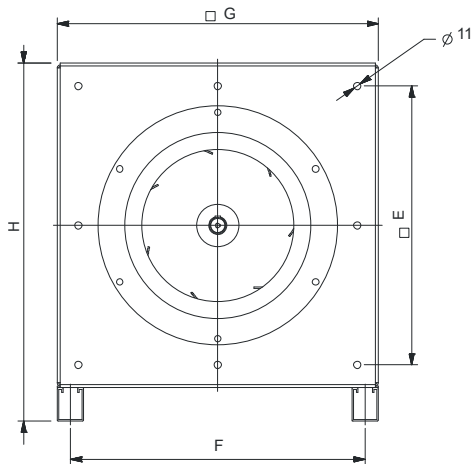


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
67,7	A	S	N74	+	S&P	-	2,356	5.190	1.041	2937	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	93	78	86	91	88	83	86	81	97 dB
Lwi(A)	66	62	77	87	88	84	87	80	93 dB(A)
Lpi(A)	56	52	67	77	78	74	76	70	83 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

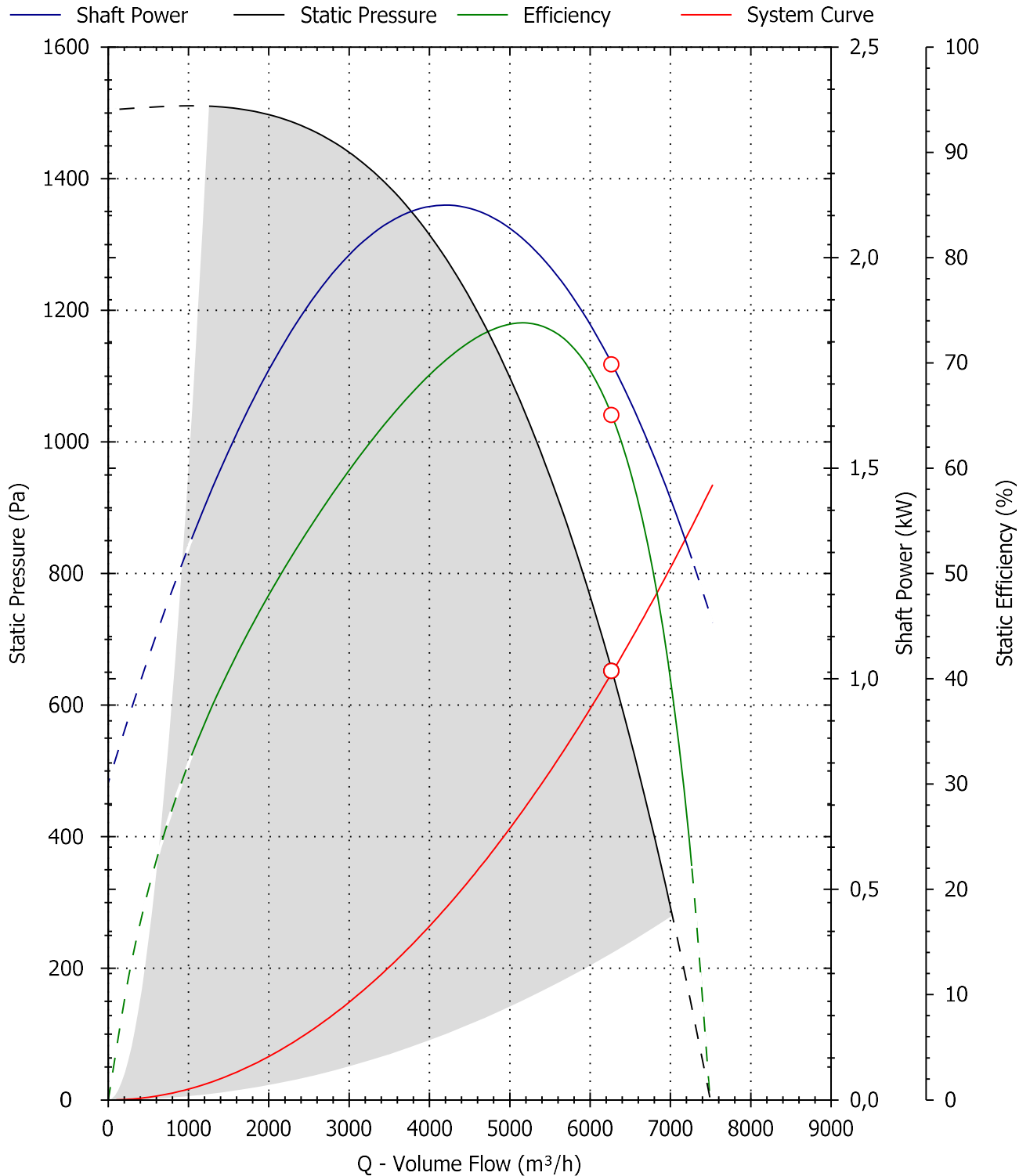


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
527	3.6	500	404	434	459	500	552	-	205	50	249	251	44 Kg



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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
73,8	A	S	N74	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
2,356	5.190	1.041	2937	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	93	78	86	91	88	83	86	81	97 dB
Lwi(A)	66	62	77	87	88	84	87	80	93 dB(A)
Lpi(A)	56	52	67	77	78	74	76	70	83 dB(A)

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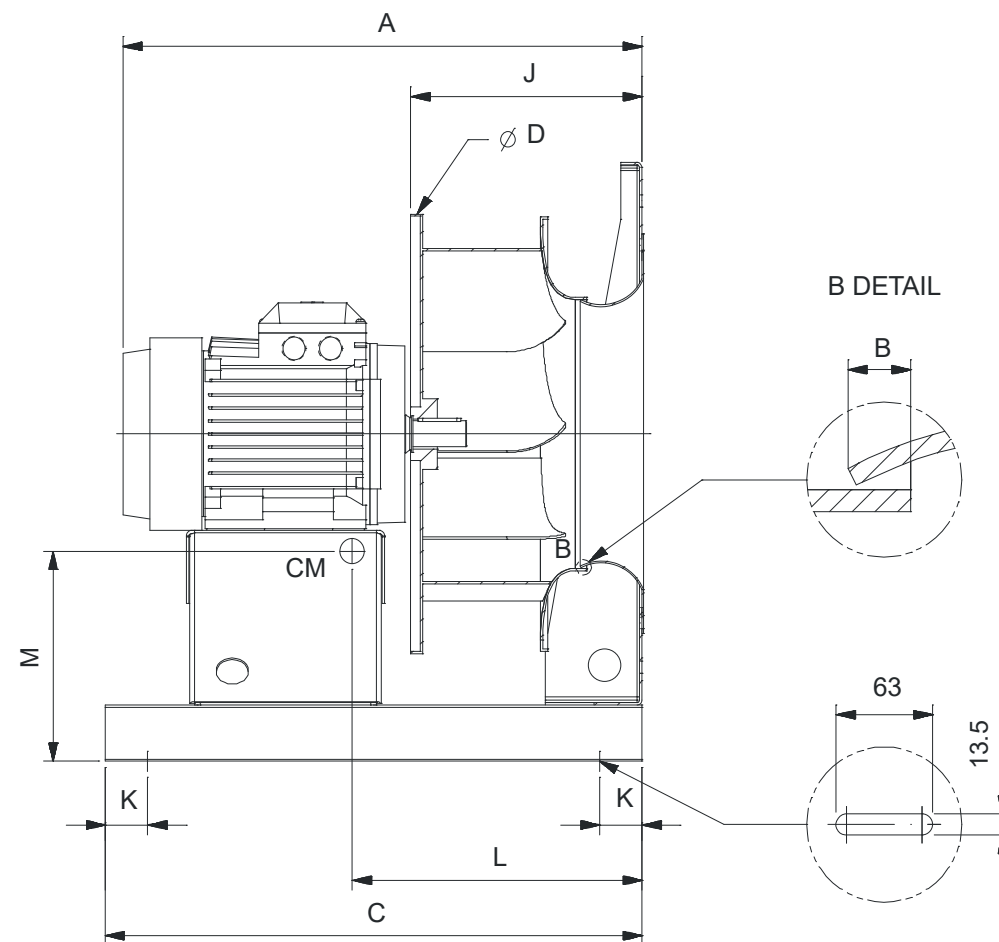
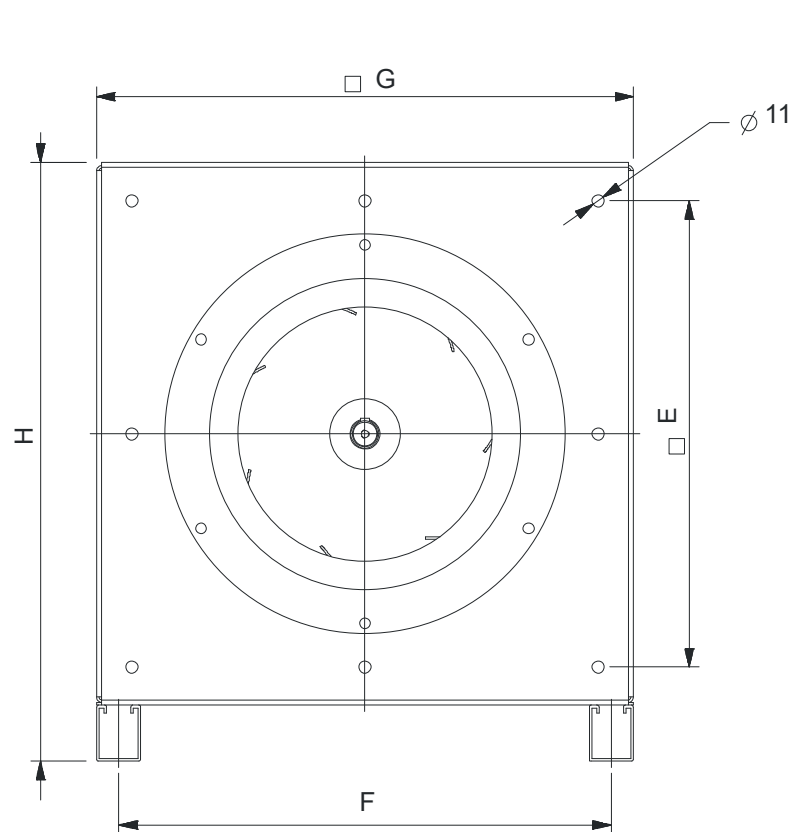
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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
527	3.6	500	404	434	459	500	552	-	205	50	249	251	44 Kg



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Fan Selection

Fan Type BC
Unit BPHM 800-4T-13
Operating Conditions Standard
Air Volume 24.170 m³/h
Static Pressure 1.900 Pa
Fan Static Efficiency 69,4 %
Peak Fan Static Efficiency 74,1 %
Fan Speed 1565 rpm @ 54Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 18,4 kW @ working point
Specific Fan Power 2,94 W/l/s

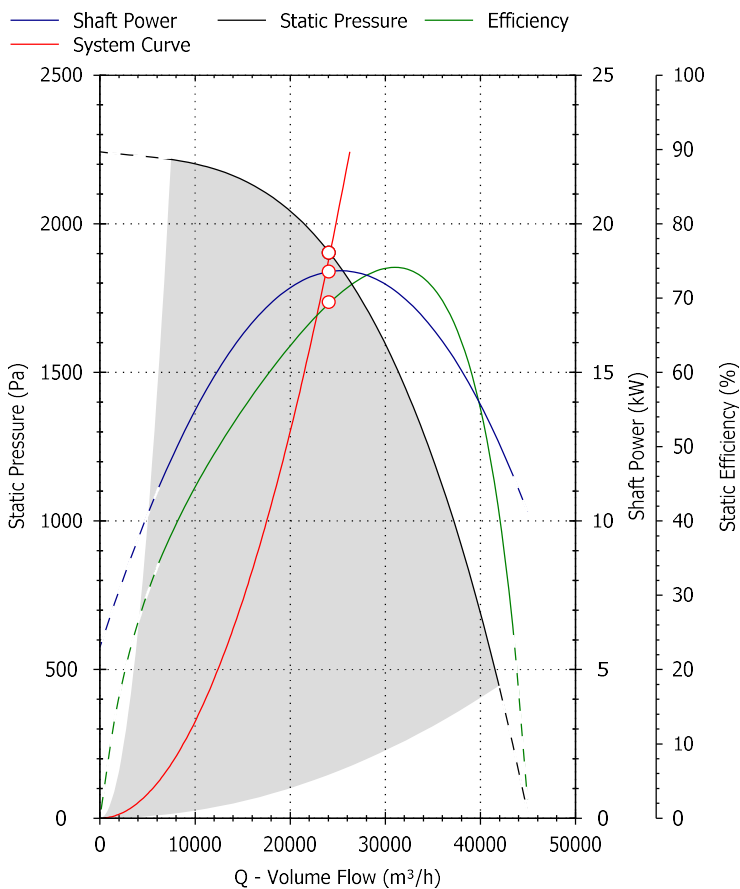
Motor Selection

Recommended Motor AC Motor (22,0 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 64,7 % @ working point
Motor Input Power 19,7 kW @ working point

Operating Limits

Max. Shaft Power 22,00 kW
Max. Input Power 23,61 kW
Max. Fan Speed 1630 rpm @ 56 Hz
Temperature (Min-Max) -20° To 40°C

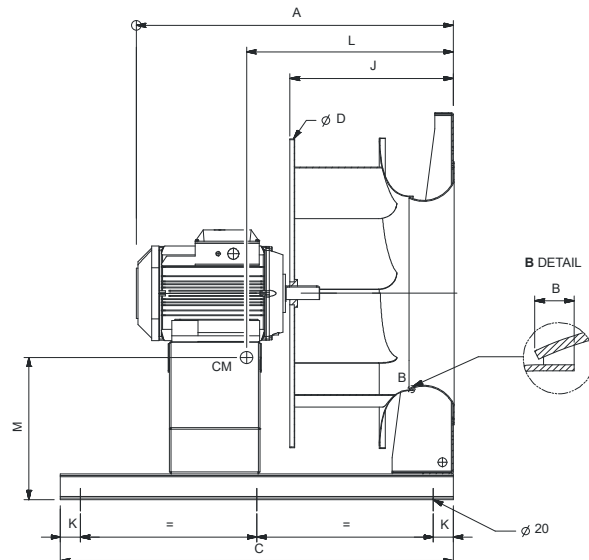
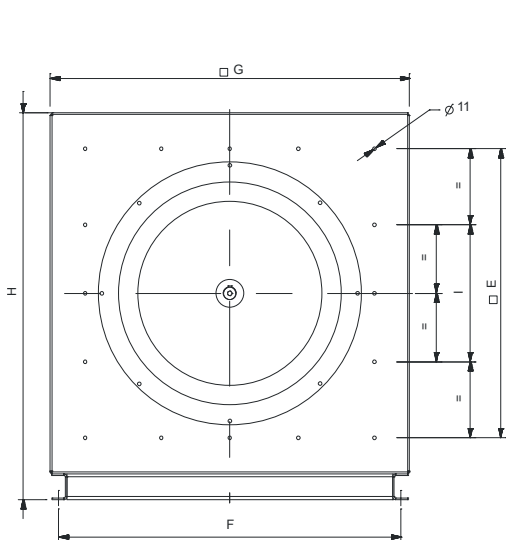


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
71,9	A	S	N71	+	S&P	-	18,985	30.987	1.524	1565	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	101	109	101	99	94	89	84	81	111 dB
Lwi(A)	75	93	92	96	94	90	85	80	101 dB(A)
Lpi(A)	64	82	82	86	83	79	75	69	90 dB(A)

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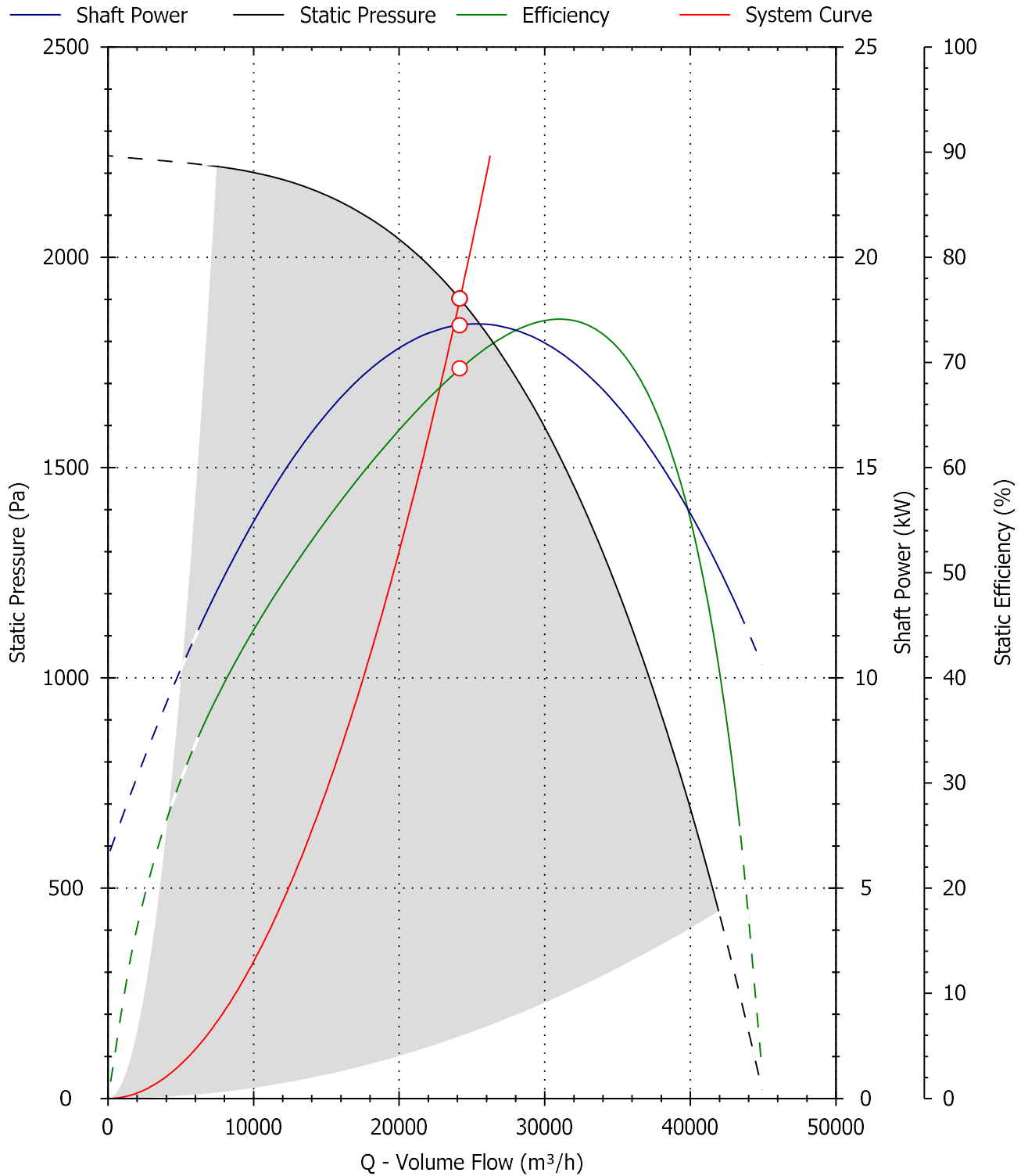


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1104	8	1000	909	830	912	960	1045	300	458	65	582	480	342 Kg



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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
74,1	A	S	N71	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
18,985	30,987	1.524	1565	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	101	109	101	99	94	89	84	81	111 dB
Lwi(A)	75	93	92	96	94	90	85	80	101 dB(A)
Lpi(A)	64	82	82	86	83	79	75	69	90 dB(A)

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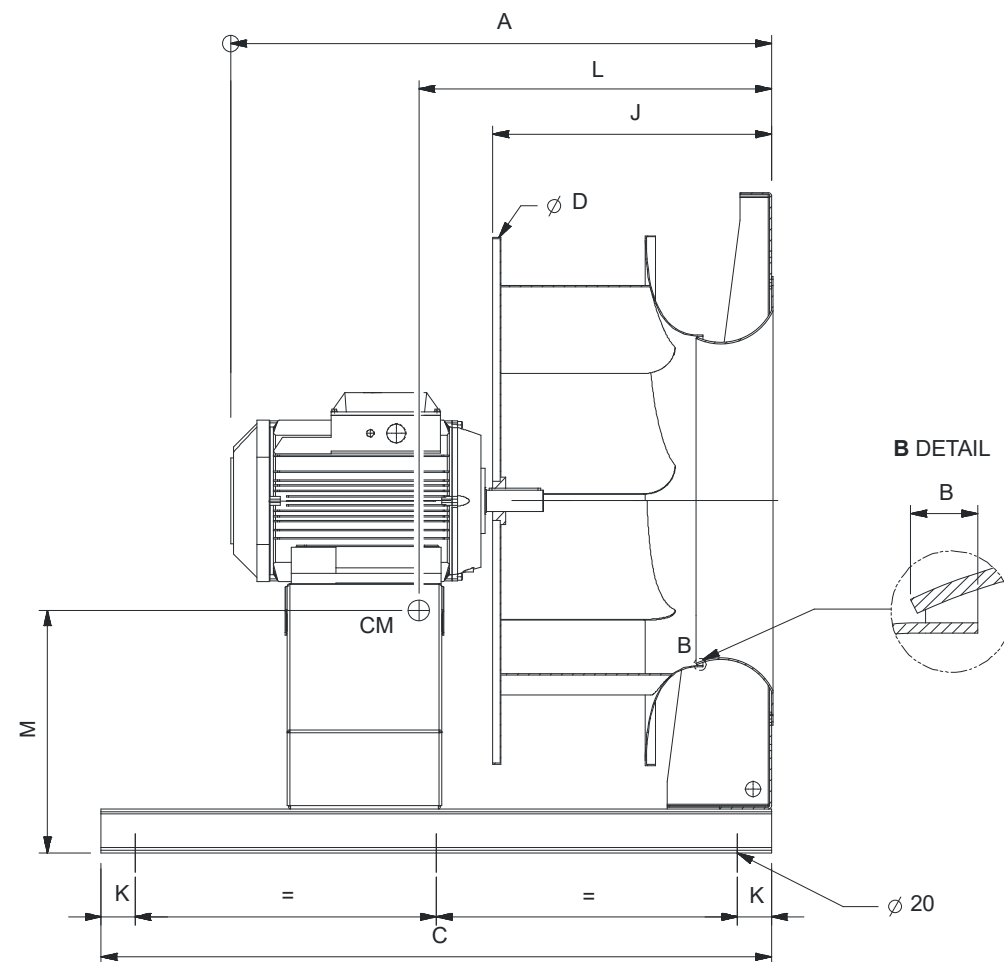
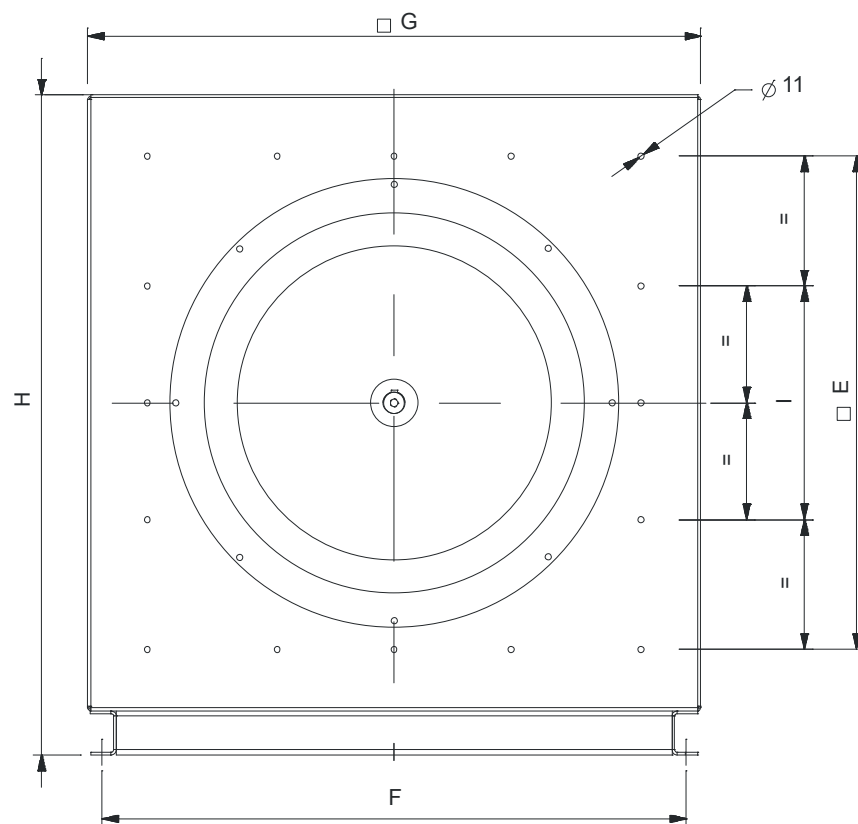
Llevant, 4, Polígono Industrial Llevant

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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1104	8	1000	909	830	912	960	1045	300	458	65	582	480	342 Kg



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Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01
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Fan Selection

Fan Type BC
Unit BPHM 560-4T-07
Operating Conditions Standard
Air Volume 13.368 m³/h
Static Pressure 650 Pa
Fan Static Efficiency 69,4 %
Peak Fan Static Efficiency 73,4 %
Fan Speed 1670 rpm @ 58Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 3,48 kW @ working point
Specific Fan Power 1,06 W/l/s

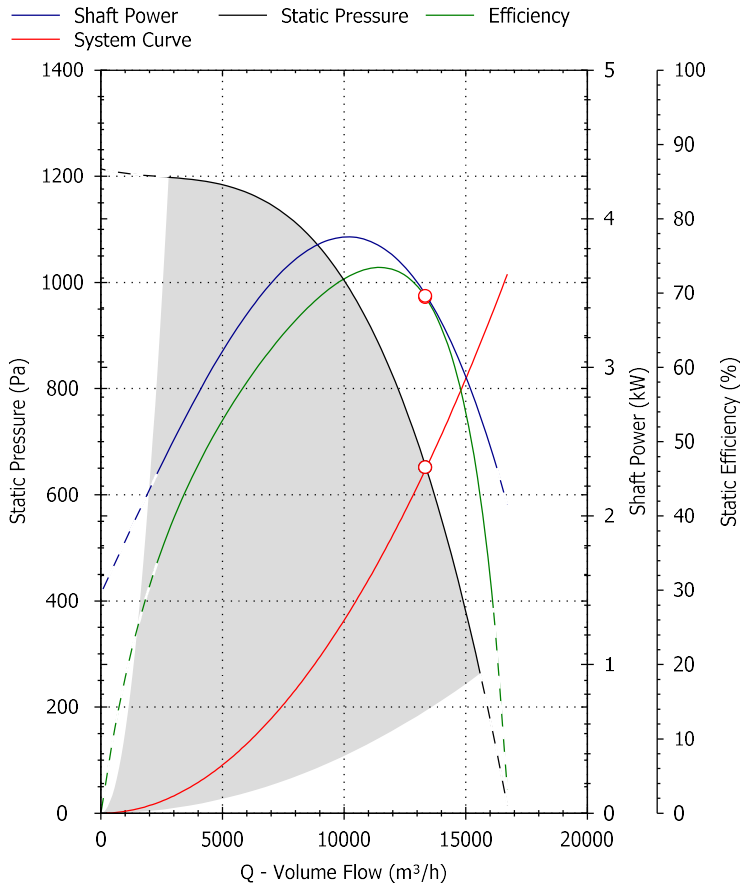
Motor Selection

Recommended Motor AC Motor (4,00 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 61,3 % @ working point
Motor Input Power 3,94 kW @ working point

Operating Limits

Max. Shaft Power 4,00 kW
Max. Input Power 4,52 kW
Max. Fan Speed 1695 rpm @ 59 Hz
Temperature (Min-Max) -20° To 40°C

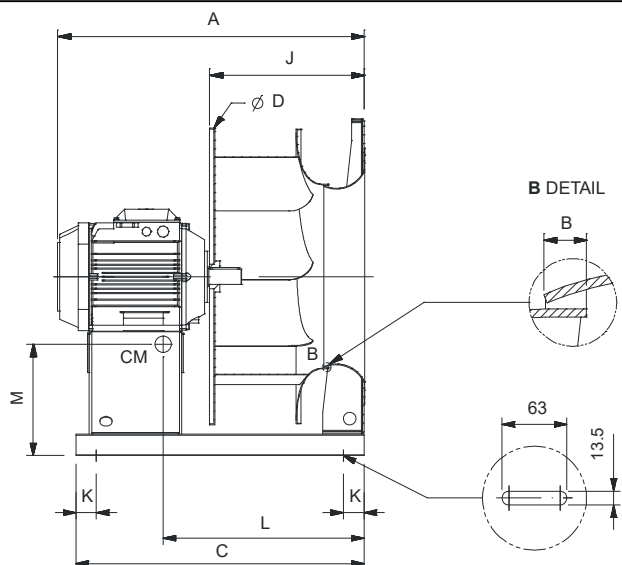
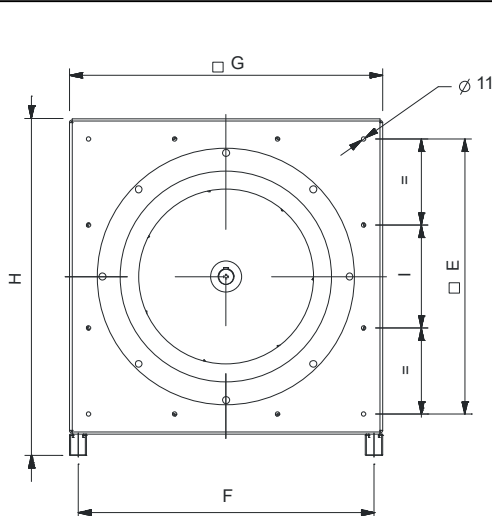


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
67,8	A	S	N71	+	S&P	-	4,297	11.522	872	1670	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	92	86	100	93	90	83	85	75	102 dB
Lwi(A)	66	70	91	90	90	84	86	74	96 dB(A)
Lpi(A)	56	59	81	79	79	74	76	63	85 dB(A)

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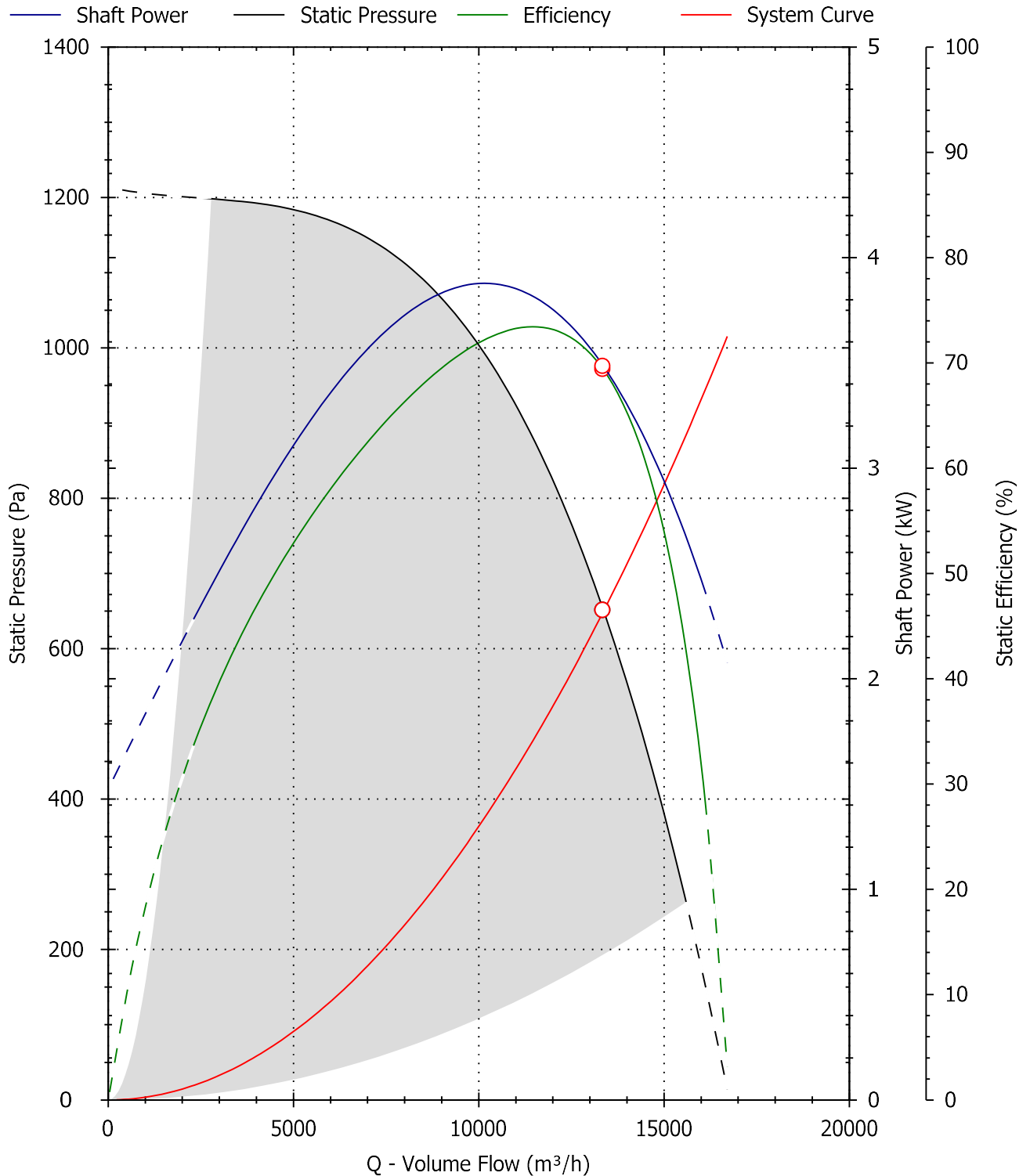


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
685	5.6	700	636	52	719	760	660	220	322	50	348	360	108 Kg



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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
73,4	A	S	N71	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
4,297	11.522	872	1670	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	92	86	100	93	90	83	85	75	102 dB
Lwi(A)	66	70	91	90	90	84	86	74	96 dB(A)
Lpi(A)	56	59	81	79	79	74	76	63	85 dB(A)

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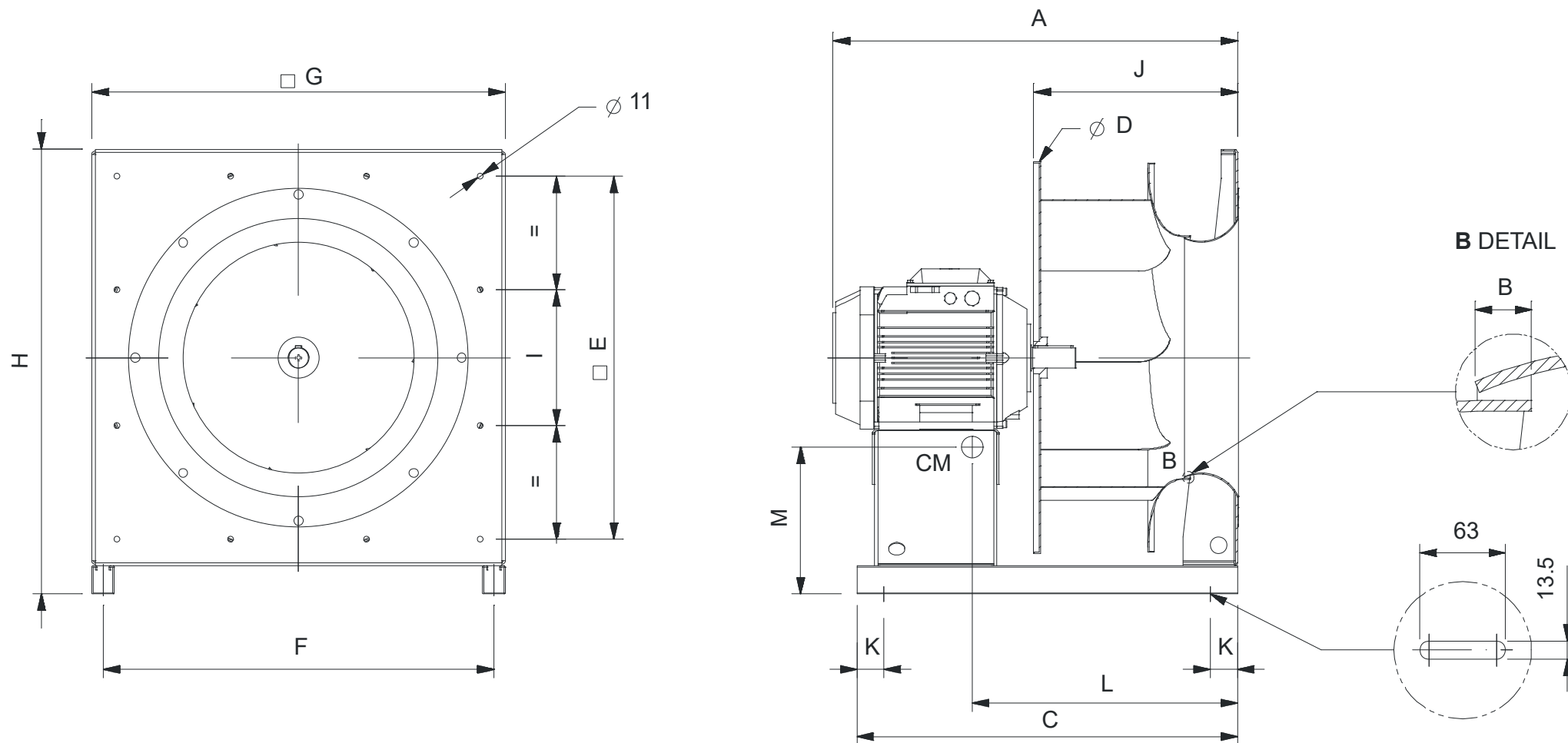
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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
685	5.6	700	636	52	719	760	660	220	322	50	348	360	108 Kg



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Fan Selection

Fan Type BC
Unit BPHM 630-4T-11
Operating Conditions Standard
Air Volume 16.384 m³/h
Static Pressure 1.900 Pa
Fan Static Efficiency 71,4 %
Peak Fan Static Efficiency 73,9 %
Fan Speed 2013 rpm @ 69Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 12,1 kW @ working point
Specific Fan Power 2,88 W/l/s

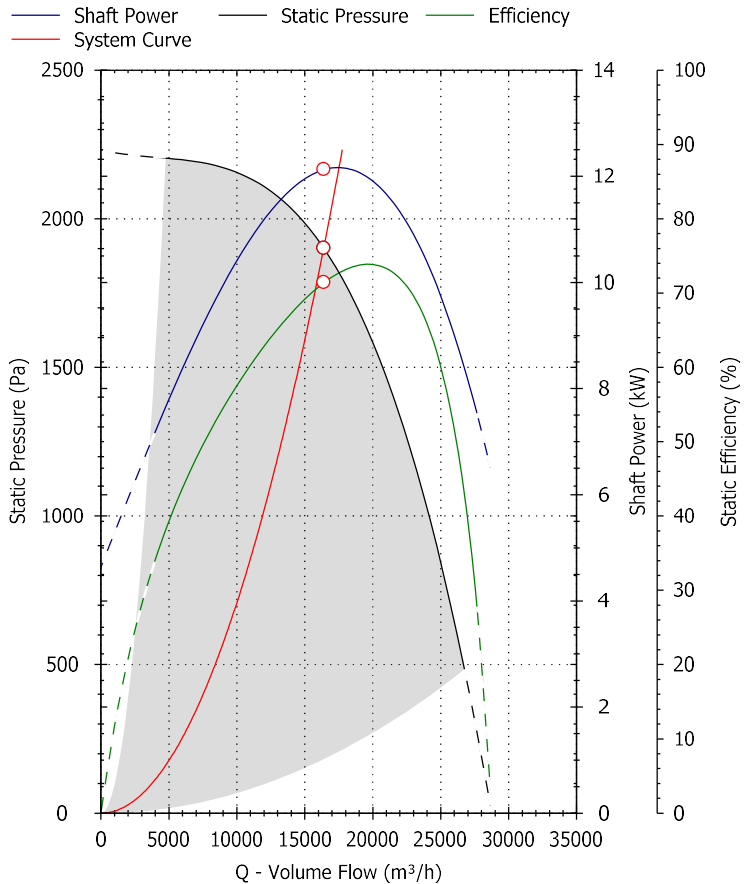
Motor Selection

Recommended Motor AC Motor (15,0 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 65,9 % @ working point
Motor Input Power 13,1 kW @ working point

Operating Limits

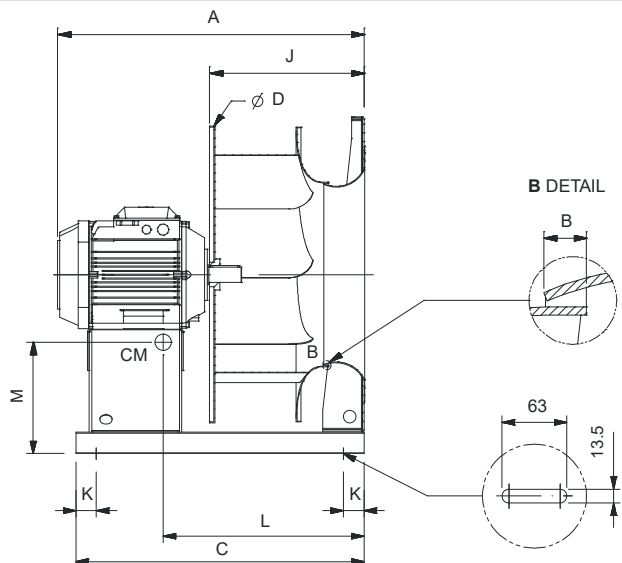
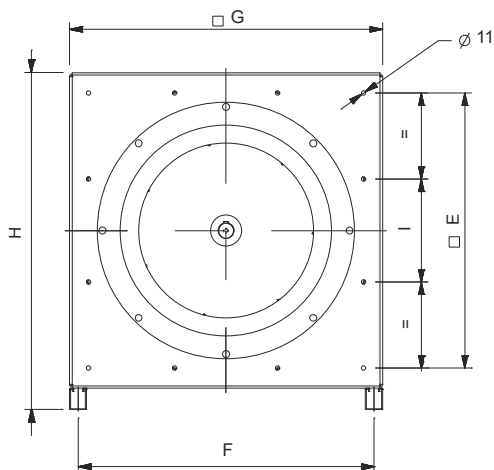
Max. Shaft Power 15,00 kW
Max. Input Power 16,25 kW
Max. Fan Speed 2070 rpm @ 71 Hz
Temperature (Min-Max) -20° To 40°C



ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
70,9	A	S	N70	+	S&P	-	12,907	19.768	1.603	2013	1
Hz	63	125	250	500	1k	2k	4k	8k	Overall		
Lwi(Lin)	94	91	106	97	94	87	84	80	108 dB		
Lwi(A)	68	75	98	94	94	88	85	79	101 dB(A)		
Lpi(A)	58	65	87	83	83	78	75	68	90 dB(A)		

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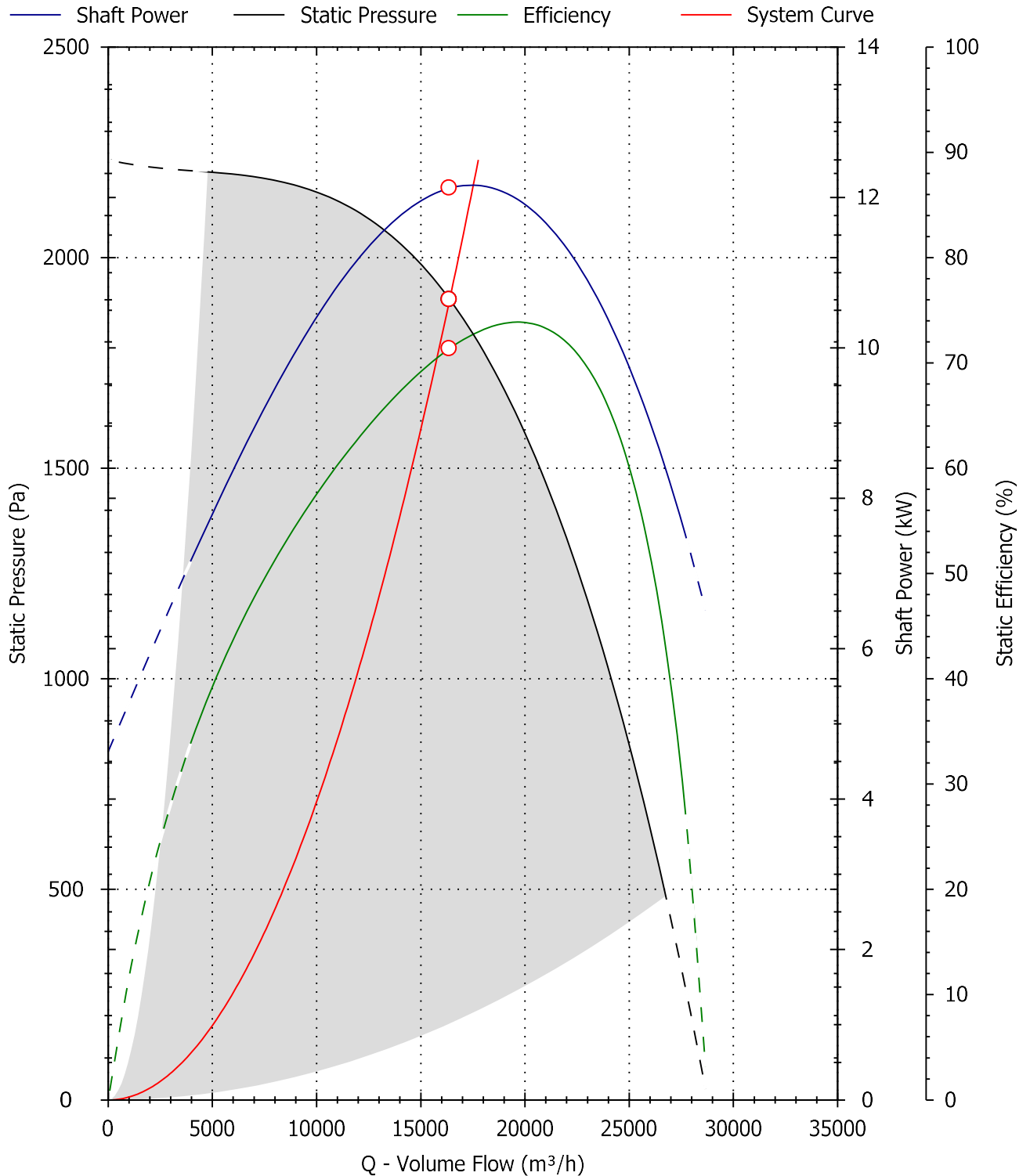


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
930	6.3	900	716	668	719	760	812	250	365	50	515	396	227 Kg



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ErP Compliance							Hz	63	125	250	500	1k	2k	4k	8k	Overall
η[%]	MC	EC	N	VSD	Marca	REF	Lwi(Lin)	94	91	106	97	94	87	84	80	108 dB
73,9	A	S	N70	+	S&P	-	Lwi(A)	68	75	98	94	94	88	85	79	101 dB(A)
[kW]	[m3/h]	[Pa]	RPM	SR												
12,907	19.768	1.603	2013	1	* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions											



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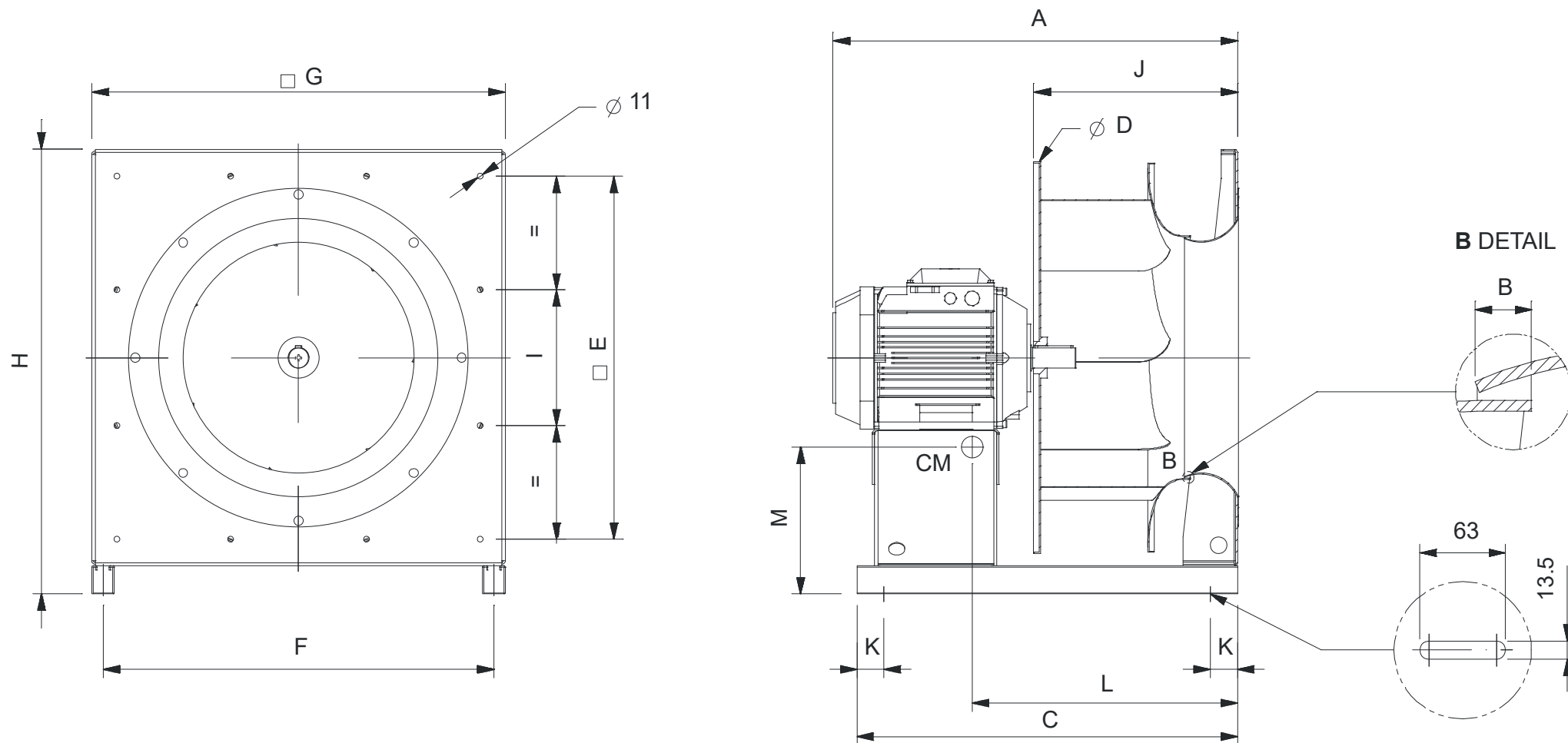
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Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
930	6.3	900	716	668	719	760	812	250	365	50	515	396	227 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU3 - ASPR.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
 Llevant, 4, Polígono Industrial Llevant
 08150 Parets del Vallés
 Barcelona
Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 500-4T-09
Operating Conditions Standard
Air Volume 13.982 m³/h
Static Pressure 986 Pa
Fan Static Efficiency 69,7 %
Peak Fan Static Efficiency 75,5 %
Fan Speed 2423 rpm @ 83Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 5,49 kW @ working point
Specific Fan Power 1,57 W/l/s

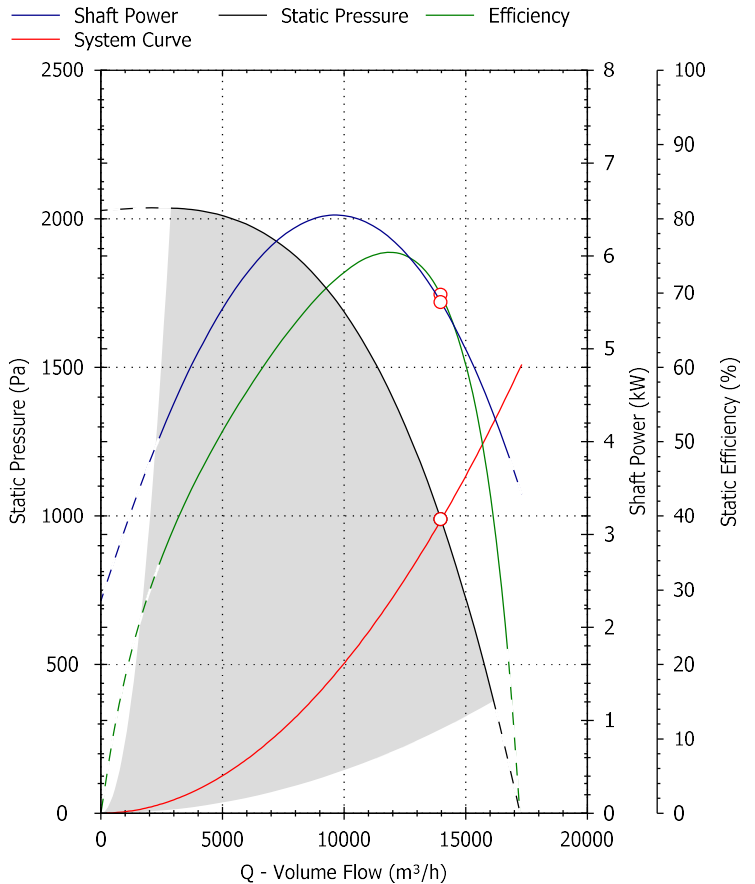
Motor Selection

Recommended Motor AC Motor (7,50 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 63,0 % @ working point
Motor Input Power 6,08 kW @ working point

Operating Limits

Max. Shaft Power 7,50 kW
Max. Input Power 8,31 kW
Max. Fan Speed 2560 rpm @ 88 Hz
Temperature (Min-Max) -20° To 40°C

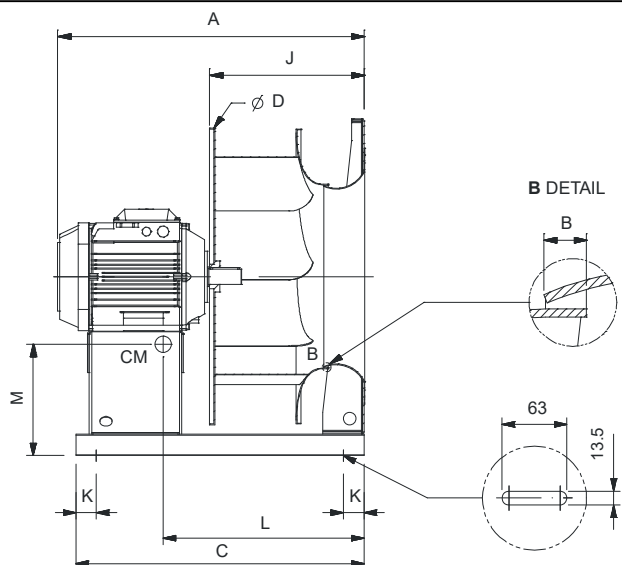
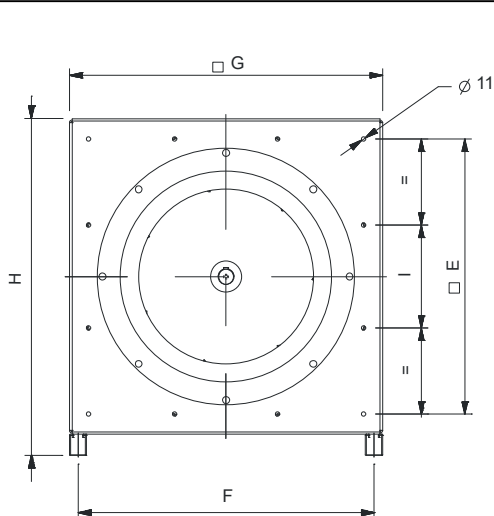


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
70,9	A	S	N72	+	S&P	-	6,825	11.931	1.404	2423	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	99	84	92	96	94	89	91	85	103 dB
Lwi(A)	72	68	83	93	94	90	92	84	99 dB(A)
Lpi(A)	62	58	72	82	84	80	81	74	88 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

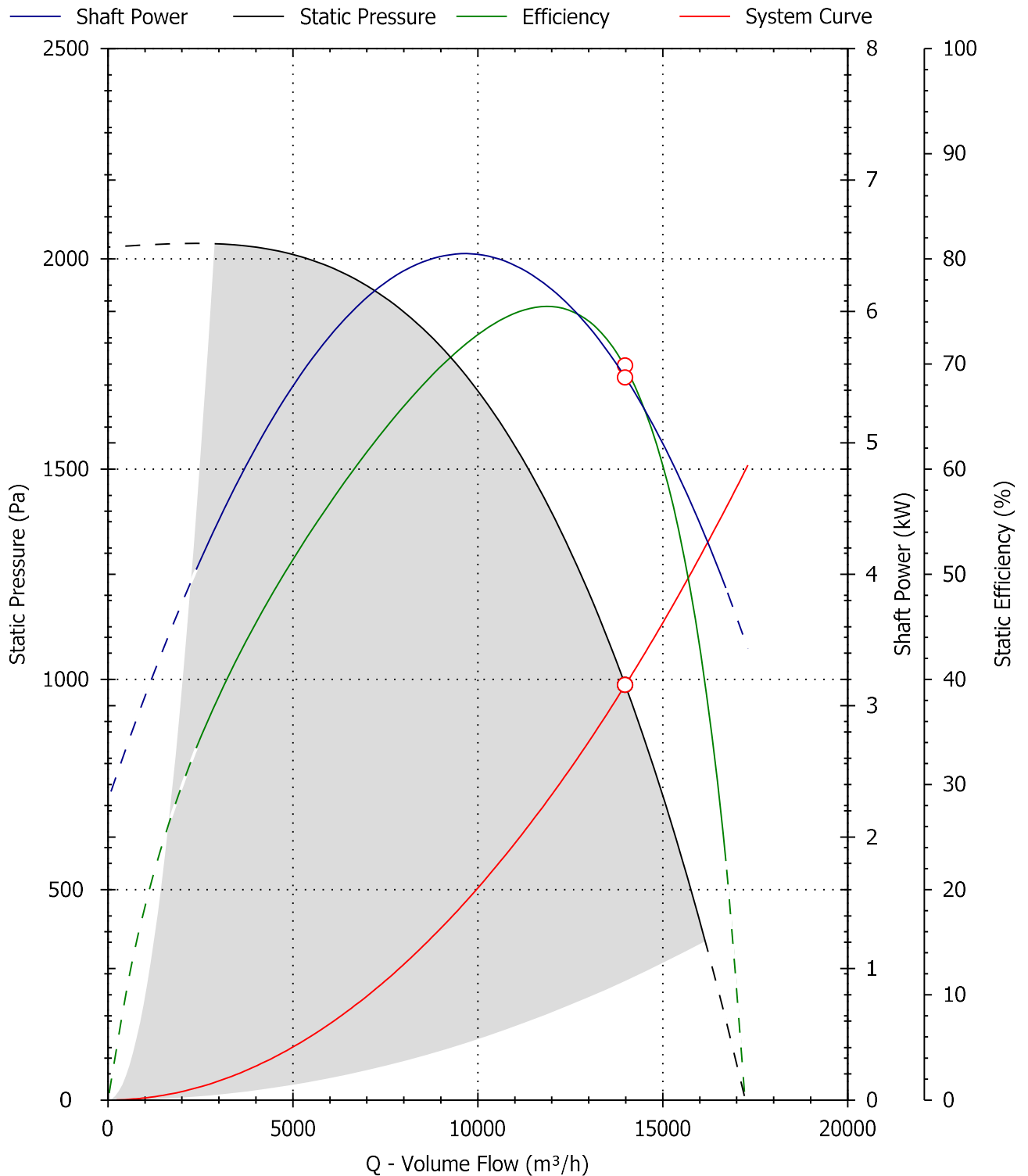


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
757	5	700	566	598	589	630	682	200	285	50	385	328	110 Kg



Date 24.10.2019
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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
75,5	A	S	N72	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
6,825	11.931	1.404	2423	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	99	84	92	96	94	89	91	85	103 dB
Lwi(A)	72	68	83	93	94	90	92	84	99 dB(A)
Lpi(A)	62	58	72	82	84	80	81	74	88 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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 Project - AHU3 - ASPR.
 Reference -

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

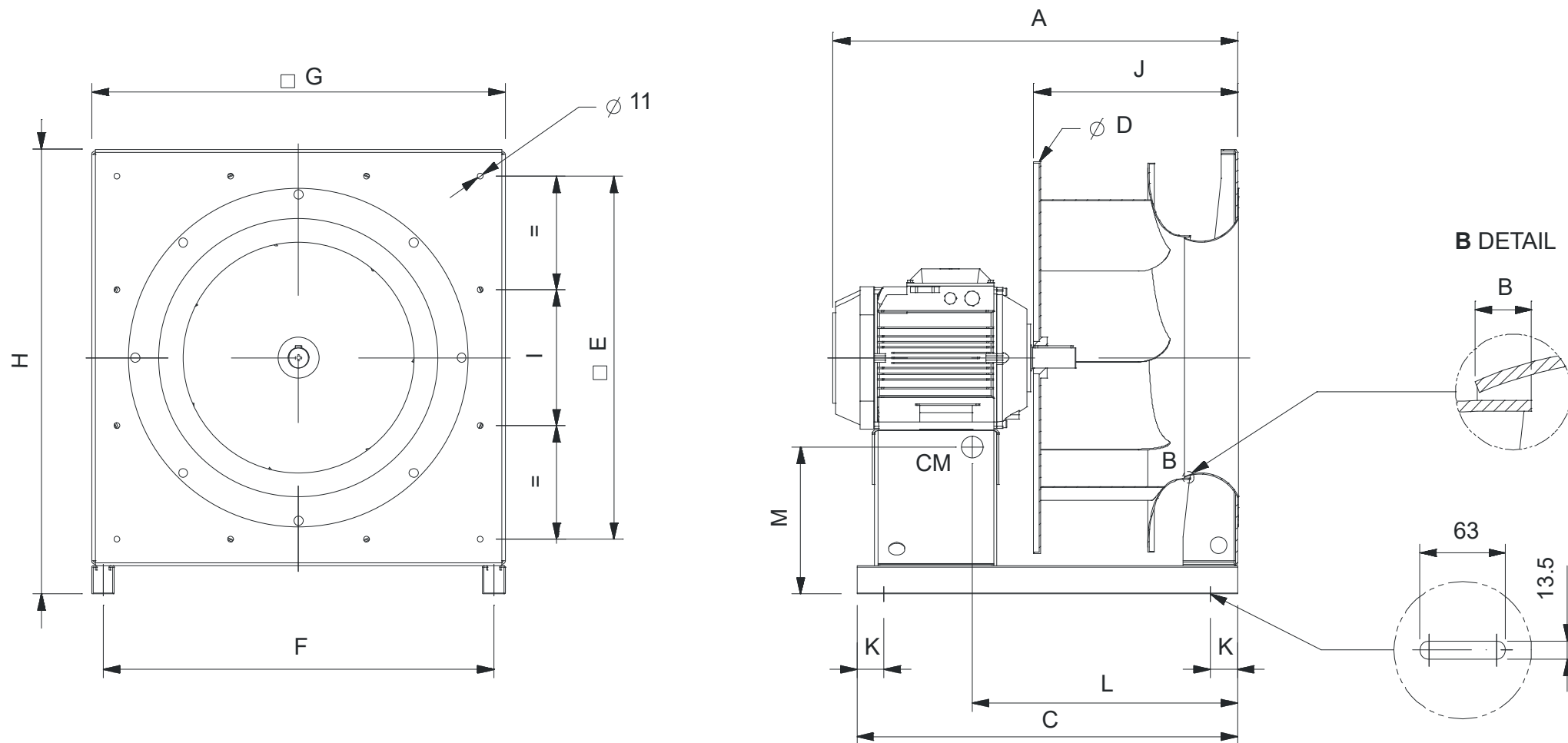
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

Tel: +34 93 571 93 00 Fax: +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
757	5	700	566	598	589	630	682	200	285	50	385	328	110 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU4 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 900-6T-13
Operating Conditions Standard
Air Volume 34.260 m³/h
Static Pressure 1.554 Pa
Fan Static Efficiency 73,5 %
Peak Fan Static Efficiency 74,3 %
Fan Speed 1330 rpm @ 68Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 20,1 kW @ working point
Specific Fan Power 2,27 W/l/s

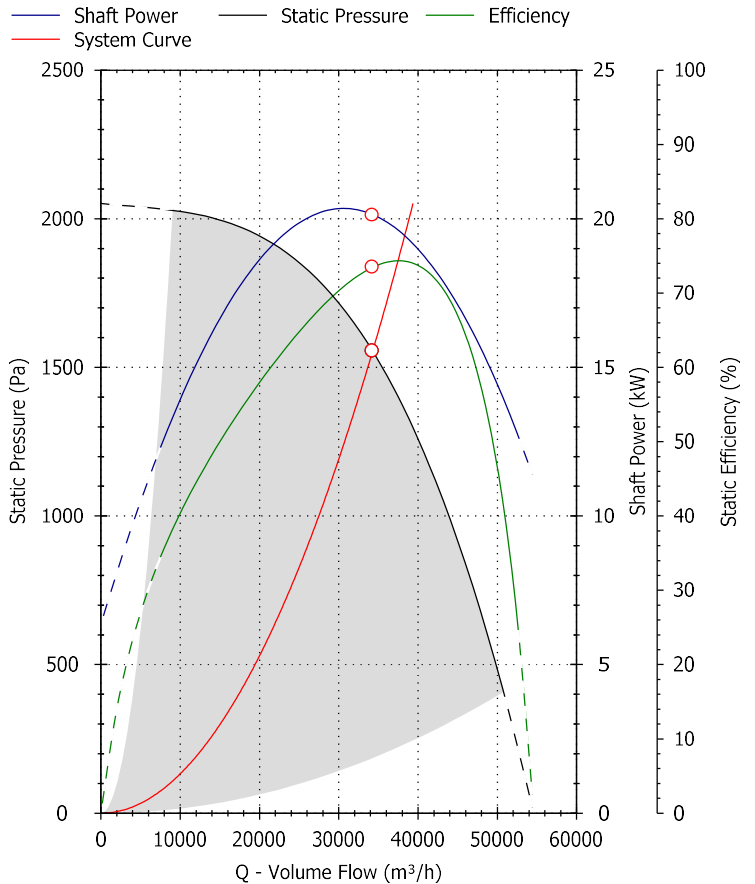
Motor Selection

Recommended Motor AC Motor (22,0 kW 50 Hz 6p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 68,5 % @ working point
Motor Input Power 21,6 kW @ working point

Operating Limits

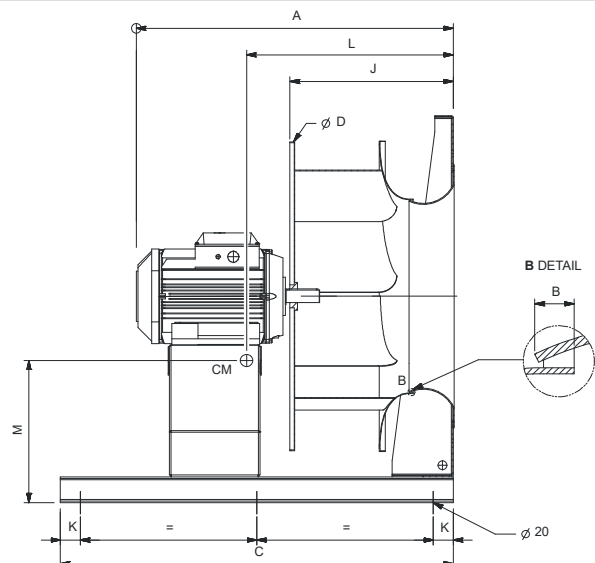
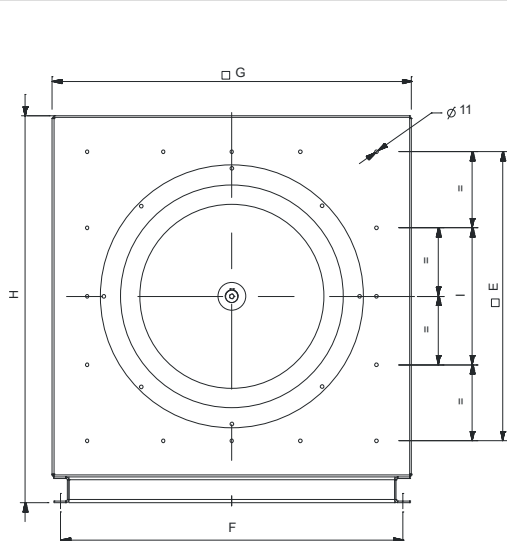
Max. Shaft Power 22,00 kW
Max. Input Power 23,61 kW
Max. Fan Speed 1345 rpm @ 69 Hz
Temperature (Min-Max) -20° To 40°C



ErP Compliance

η[%]	MC	EC	N	VSD	Marca	REF	[kW]	[m3/h]	[Pa]	RPM	SR
72,1	A	S	N71	+	S&P	-	20,972	37.516	1.394	1330	1
Hz	63	125	250	500	1k	2k	4k	8k	Overall		
Lwi(Lin)	106	107	102	101	95	91	84	81	111 dB		
Lwi(A)	80	91	93	97	95	92	85	80	102 dB(A)		
Lpi(A)	69	81	83	87	85	81	74	69	91 dB(A)		

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

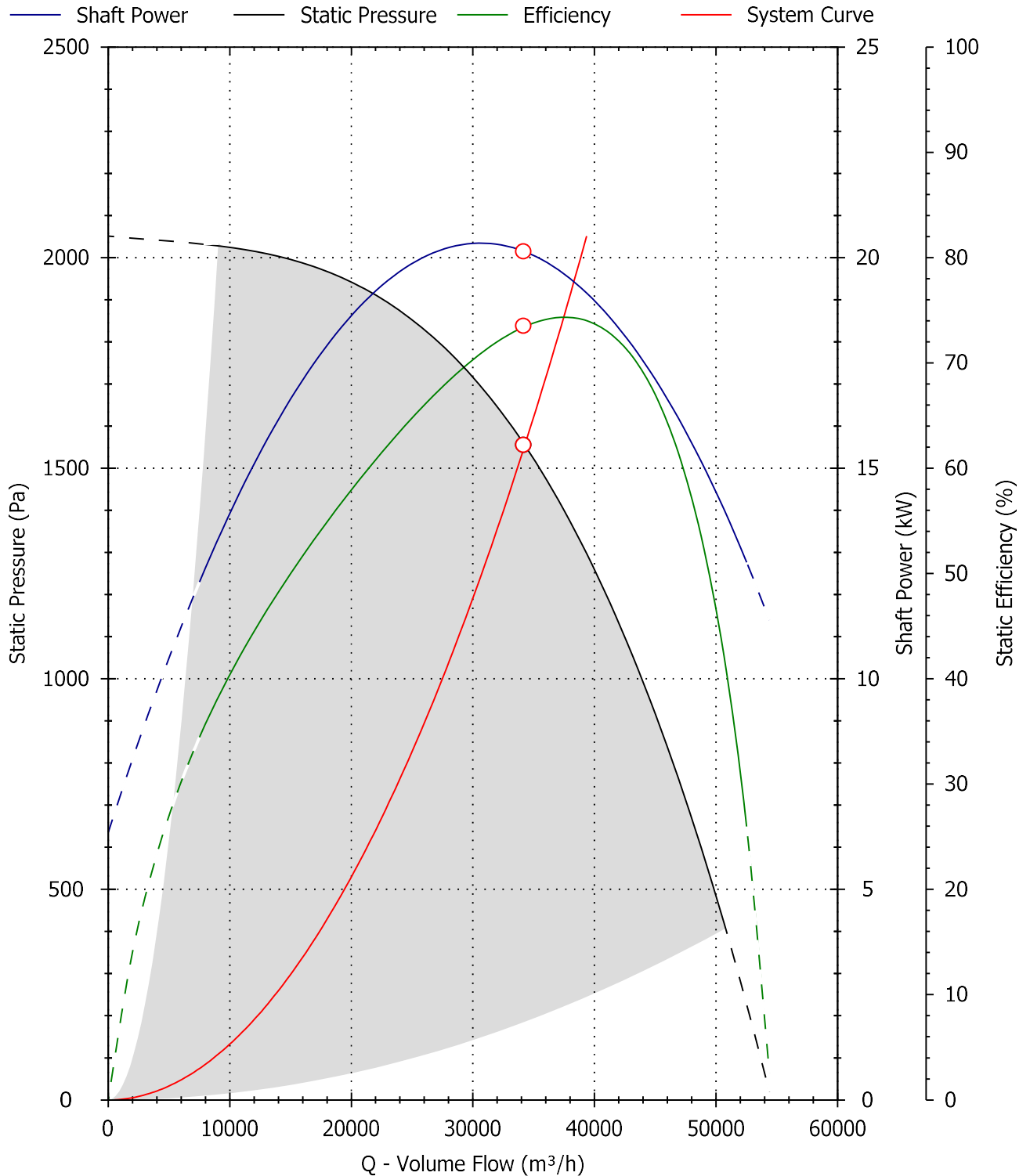


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1203	9	1100	1010	950	1132	1180	1265	450	501	65	627	575	480 Kg



Date 24.10.2019
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Project -AHU4 - VANT.
Reference

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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
74,3	A	S	N71	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
20,972	37.516	1.394	1330	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	106	107	102	101	95	91	84	81	111 dB
Lwi(A)	80	91	93	97	95	92	85	80	102 dB(A)
Lpi(A)	69	81	83	87	85	81	74	69	91 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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Attention -
Project - AHU4 - VANT.
Reference -

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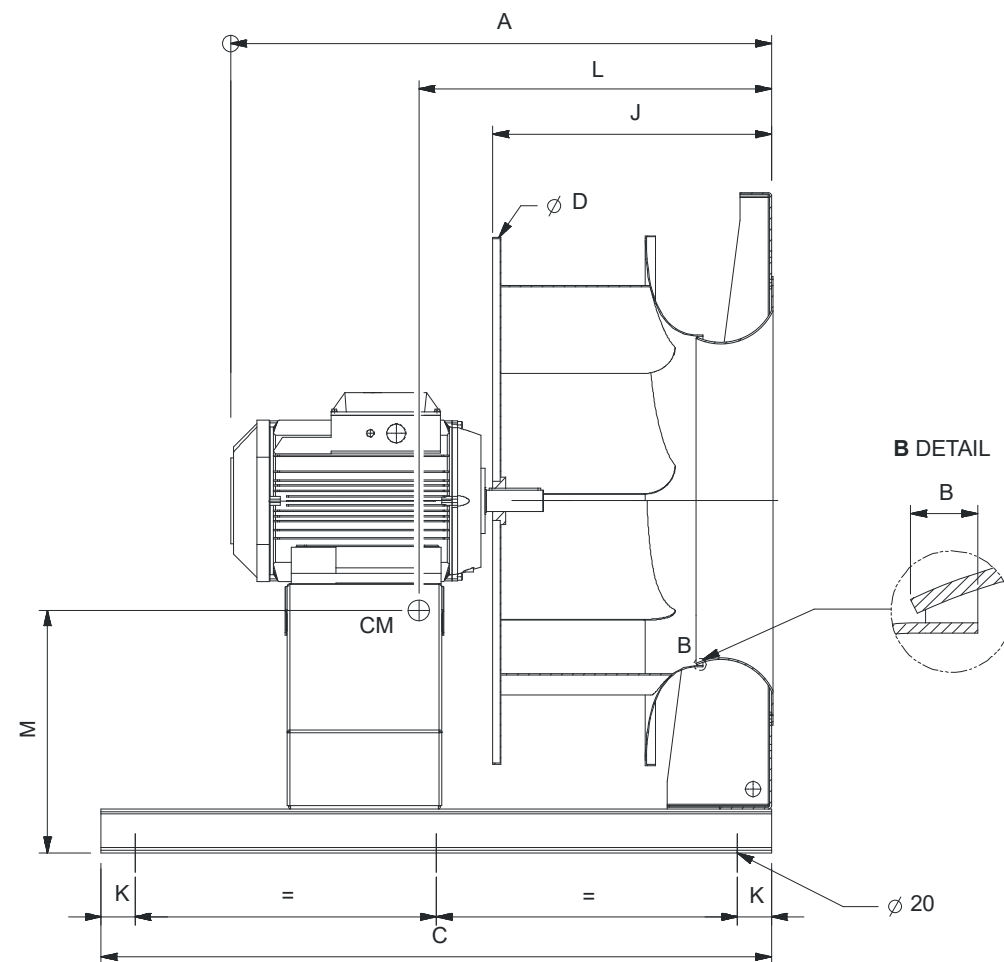
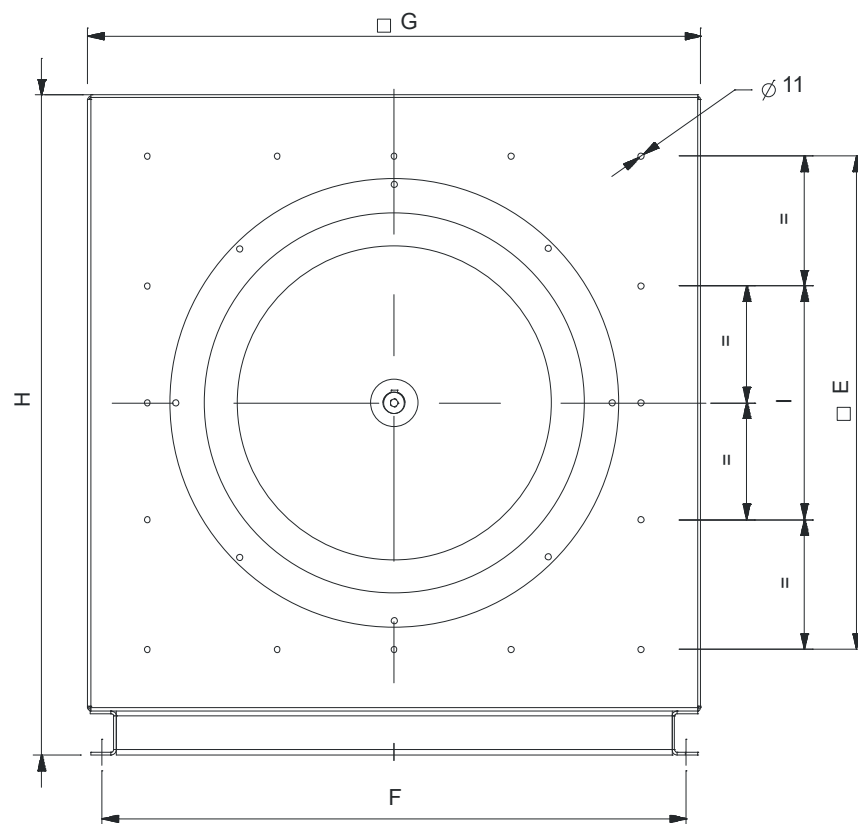
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1203	9	1100	1010	950	1132	1180	1265	450	501	65	627	575	480 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU4 - ASPR.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
 Llevant, 4, Polígono Industrial Llevant
 08150 Parets del Vallés
 Barcelona
Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 800-6T-10
Operating Conditions Standard
Air Volume 28.000 m³/h
Static Pressure 787 Pa
Fan Static Efficiency 71,6 %
Peak Fan Static Efficiency 74,1 %
Fan Speed 1257 rpm @ 65Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 8,54 kW @ working point
Specific Fan Power 1,20 W/l/s

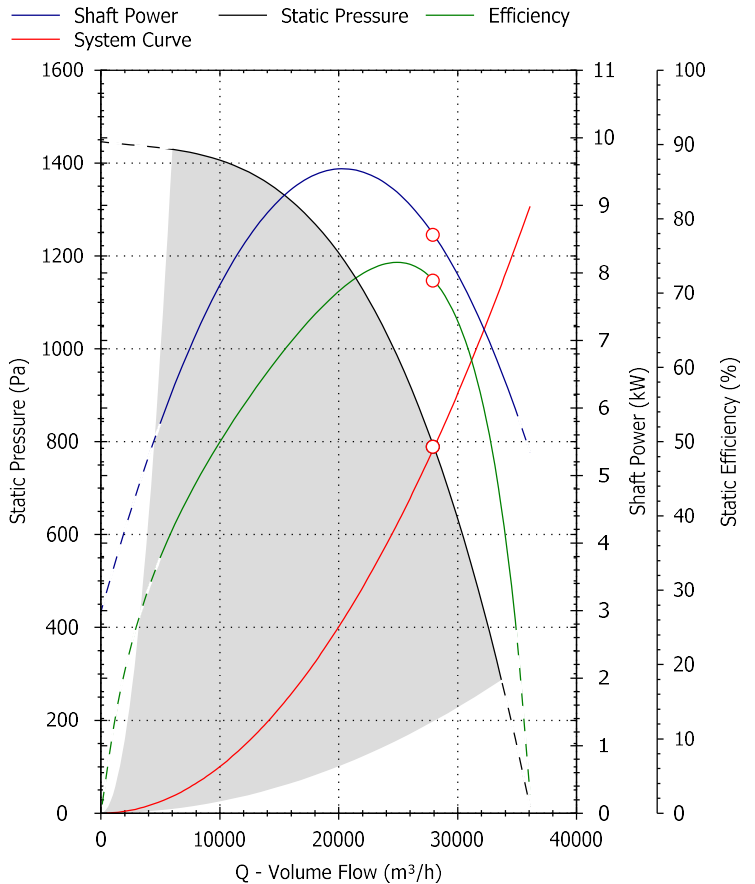
Motor Selection

Recommended Motor AC Motor (11,0 kW 50 Hz 6p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 65,5 % @ working point
Motor Input Power 9,35 kW @ working point

Operating Limits

Max. Shaft Power 11,00 kW
Max. Input Power 12,04 kW
Max. Fan Speed 1305 rpm @ 68 Hz
Temperature (Min-Max) -20° To 40°C

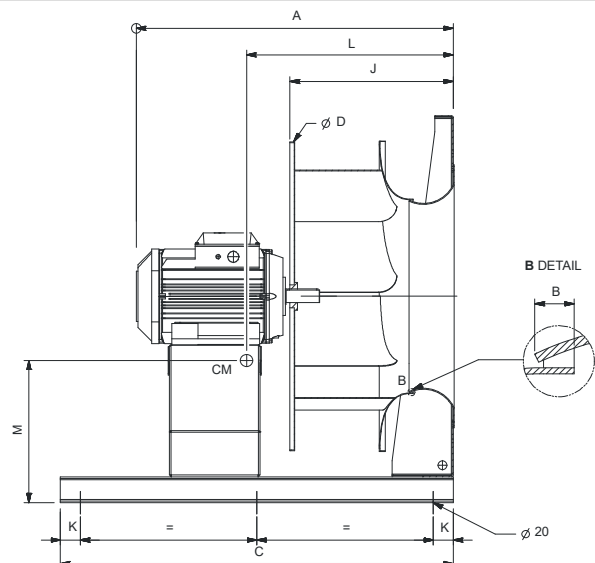
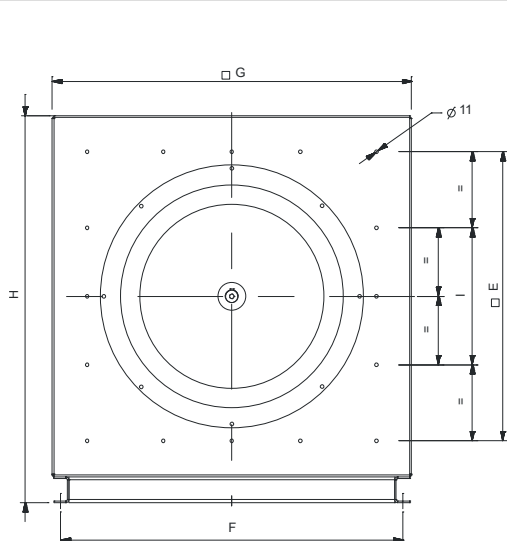


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
70,5	A	S	N70	+	S&P	-	10,027	24.885	983	1257	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	102	105	99	98	92	91	81	77	108 dB
Lwi(A)	76	89	90	95	92	93	82	76	99 dB(A)
Lpi(A)	66	79	80	84	82	82	72	66	89 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

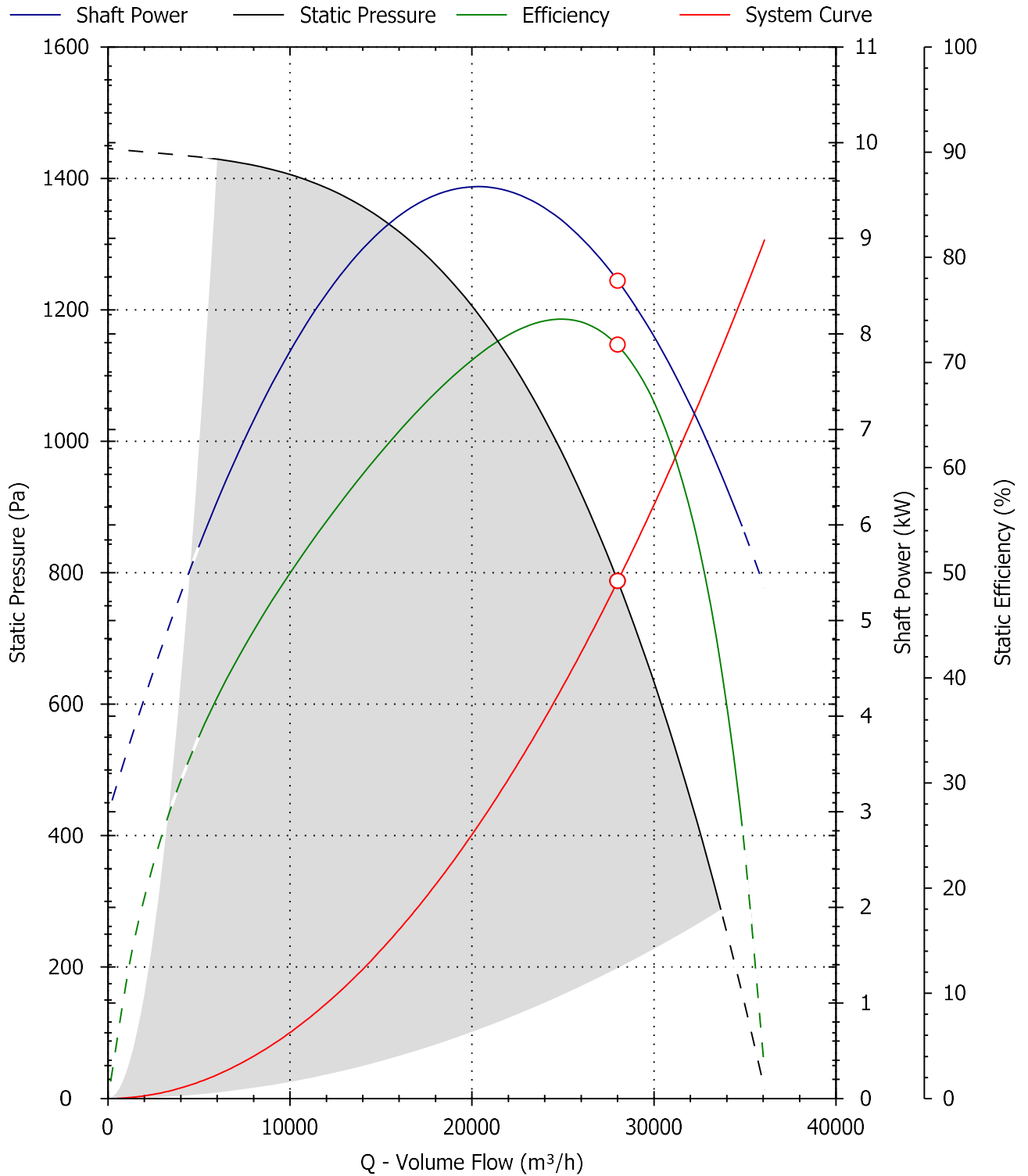


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1029	8	1000	909	830	912	960	1045	300	458	65	543	466	295 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU4 - ASPR.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
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08150 Parets del Vallés
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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
74,1	A	S	N70	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
10,027	24.885	983	1257	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	102	105	99	98	92	91	81	77	108 dB
Lwi(A)	76	89	90	95	92	93	82	76	99 dB(A)
Lpi(A)	66	79	80	84	82	82	72	66	89 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
Company -
Attention -
Project - AHU4 - ASPR.
Reference -

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

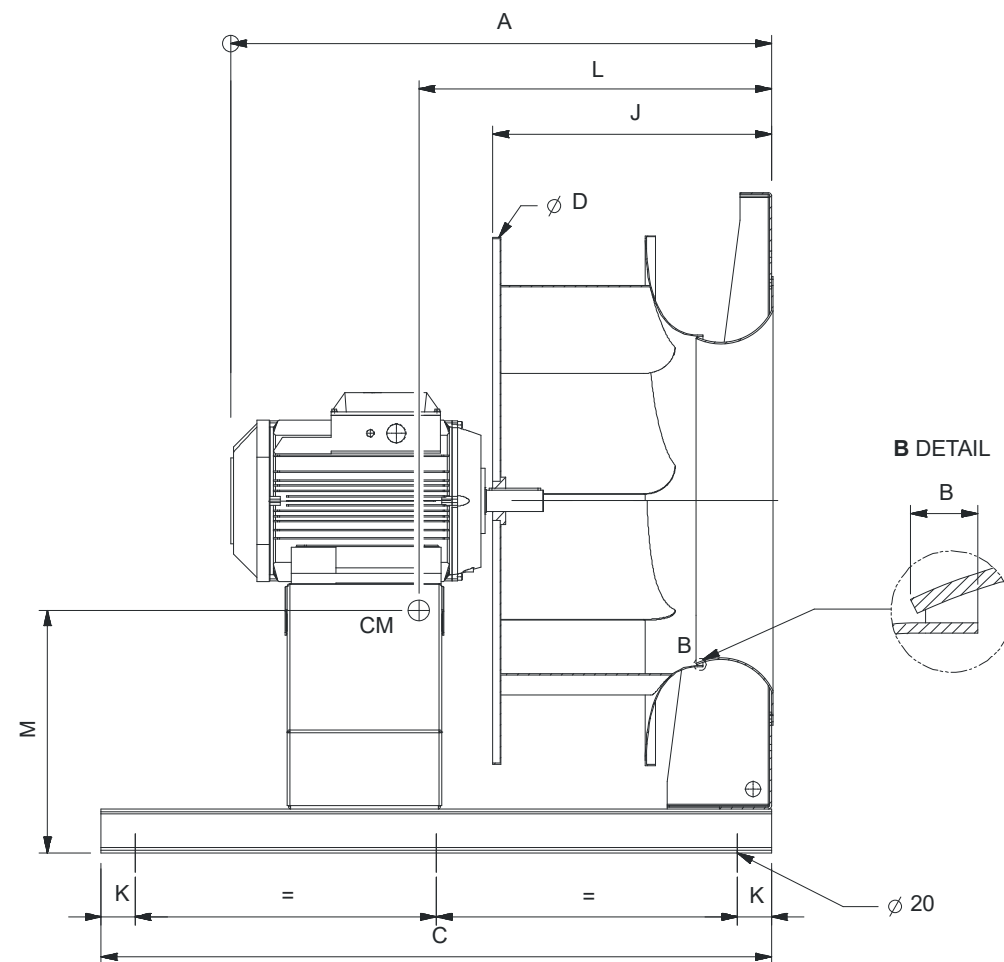
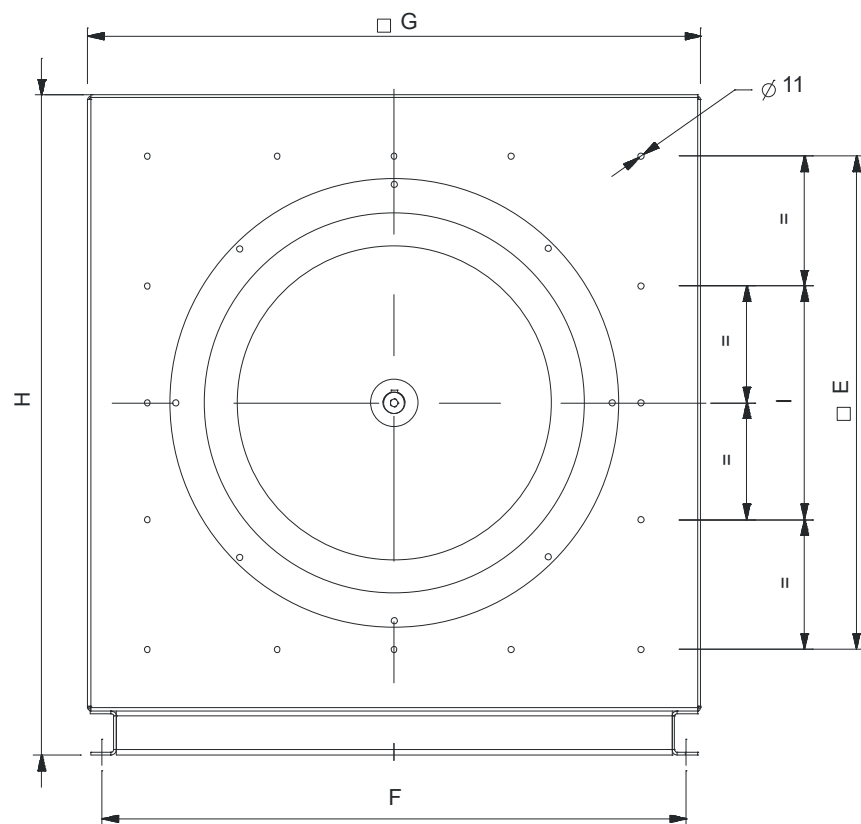
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

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Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1029	8	1000	909	830	912	960	1045	300	458	65	543	466	295 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU5 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

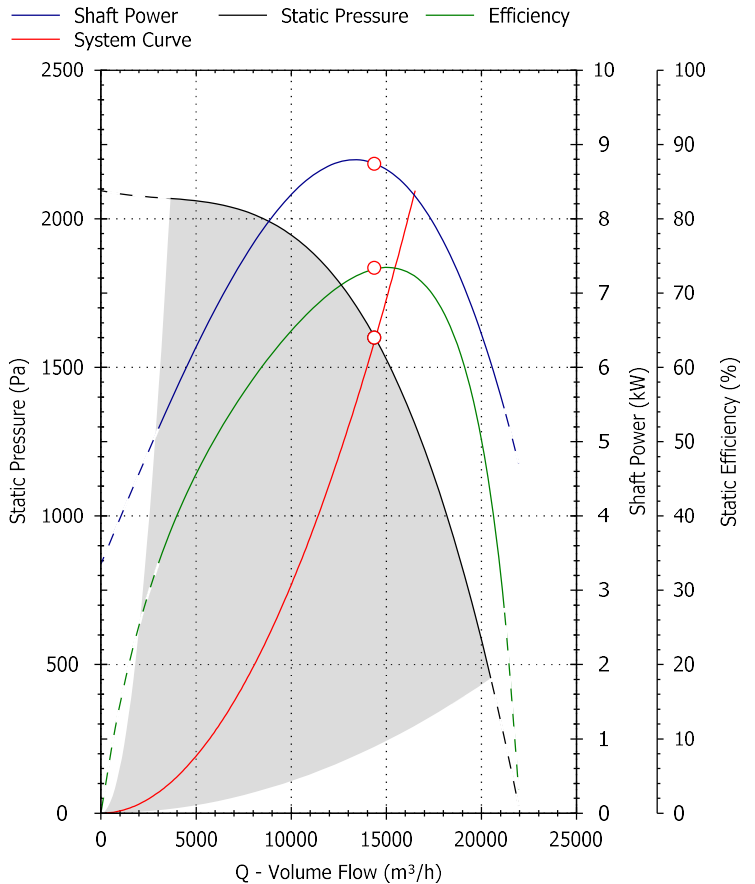
Fan Type BC
Unit BPHM 560-4T-10
Operating Conditions Standard
Air Volume 14.422 m³/h
Static Pressure 1.598 Pa
Fan Static Efficiency 73,3 %
Peak Fan Static Efficiency 73,4 %
Fan Speed 2194 rpm @ 75Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 8,74 kW @ working point
Specific Fan Power 2,39 W/l/s

Motor Selection

Recommended Motor AC Motor (11,0 kW 50 Hz 4p)
Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 67,0 % @ working point
Motor Input Power 9,56 kW @ working point

Operating Limits

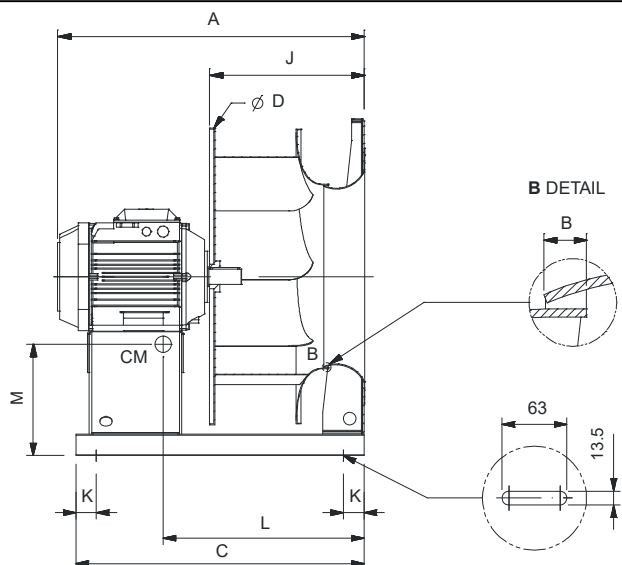
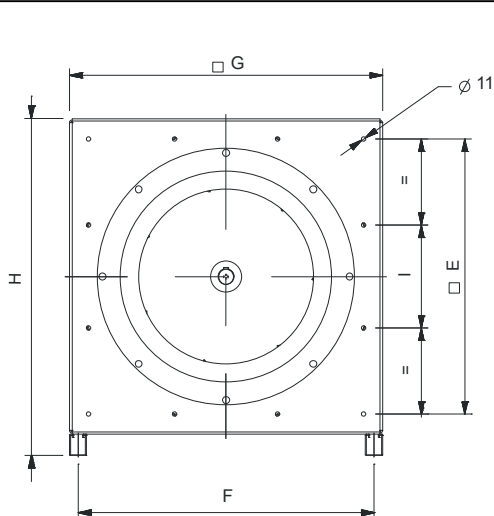
Max. Shaft Power 11,00 kW
Max. Input Power 12,04 kW
Max. Fan Speed 2320 rpm @ 79 Hz
Temperature (Min-Max) -20° To 40°C



ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
69,8	A	S	N70	+	S&P	-	9,424	15.138	1.504	2194	1
Hz	63	125	250	500	1k	2k	4k	8k	Overall		
Lwi(Lin)	94	90	104	97	94	87	85	79	106 dB		
Lwi(A)	68	74	95	94	94	88	86	78	100 dB(A)		
Lpi(A)	58	63	85	83	83	77	76	67	89 dB(A)		

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

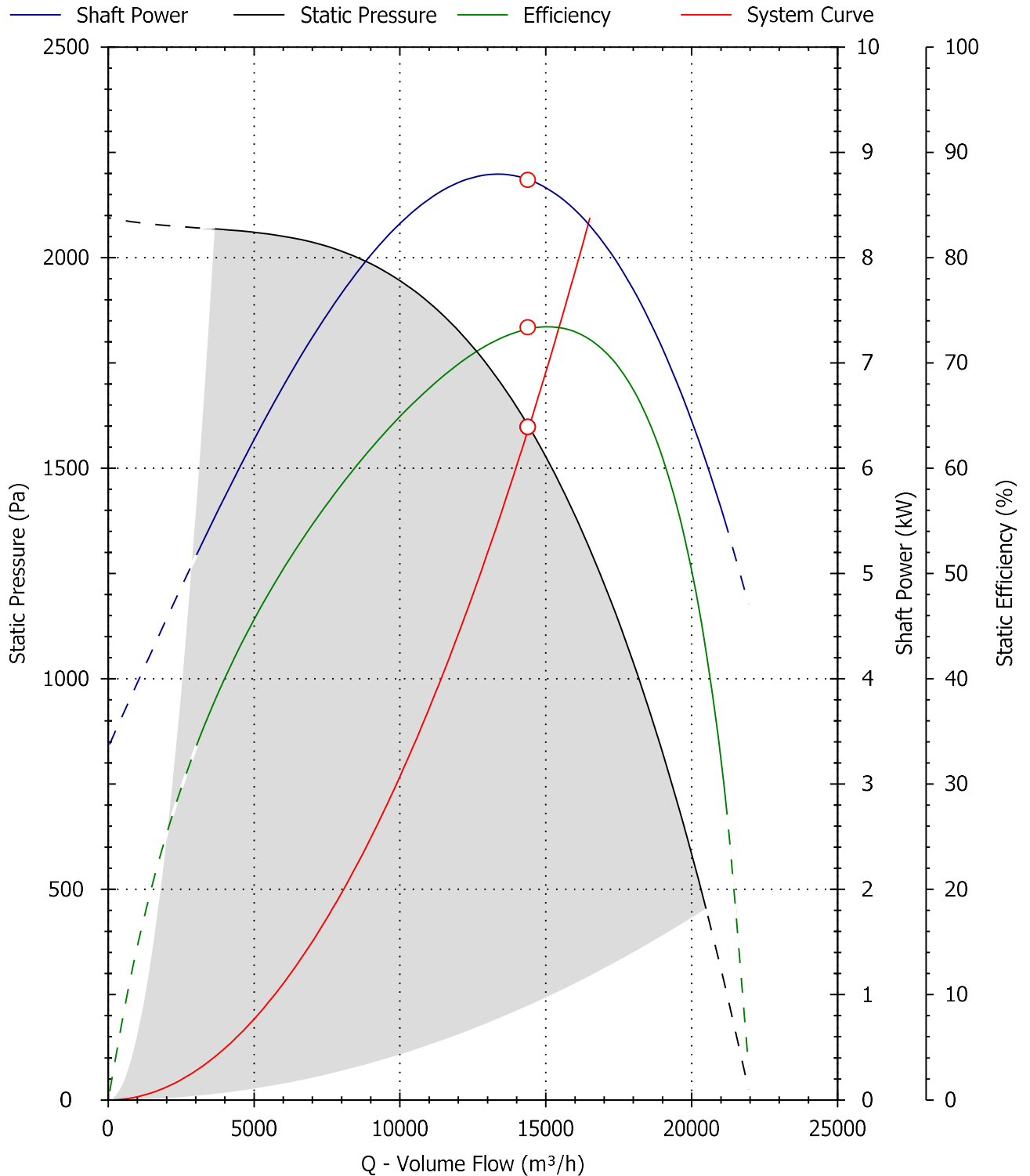


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
850	5.6	800	636	52	719	760	660	220	322	50	466	391	201 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU5 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
73,4	A	S	N70	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
9,424	15.138	1.504	2194	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	94	90	104	97	94	87	85	79	106 dB
Lwi(A)	68	74	95	94	94	88	86	78	100 dB(A)
Lpi(A)	58	63	85	83	83	77	76	67	89 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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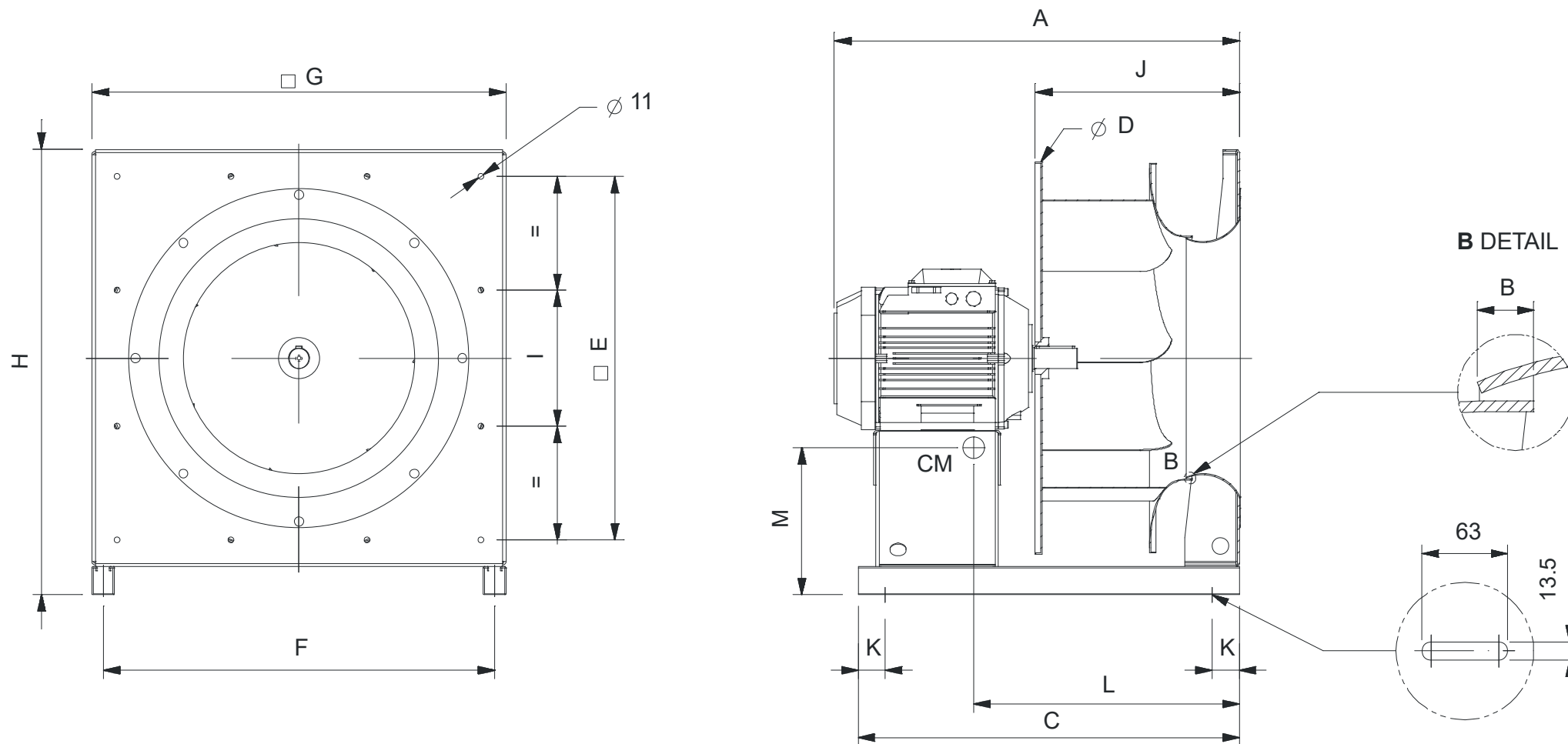
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

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A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
850	5.6	800	636	52	719	760	660	220	322	50	466	391	201 Kg



Date 24.10.2019
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08150 Parets del Vallés
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Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 630-6T-06
Operating Conditions Standard
Air Volume 11.537 m³/h
Static Pressure 600 Pa
Fan Static Efficiency 73,8 %
Peak Fan Static Efficiency 73,9 %
Fan Speed 1209 rpm @ 64Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 2,60 kW @ working point
Specific Fan Power 0,93 W//s

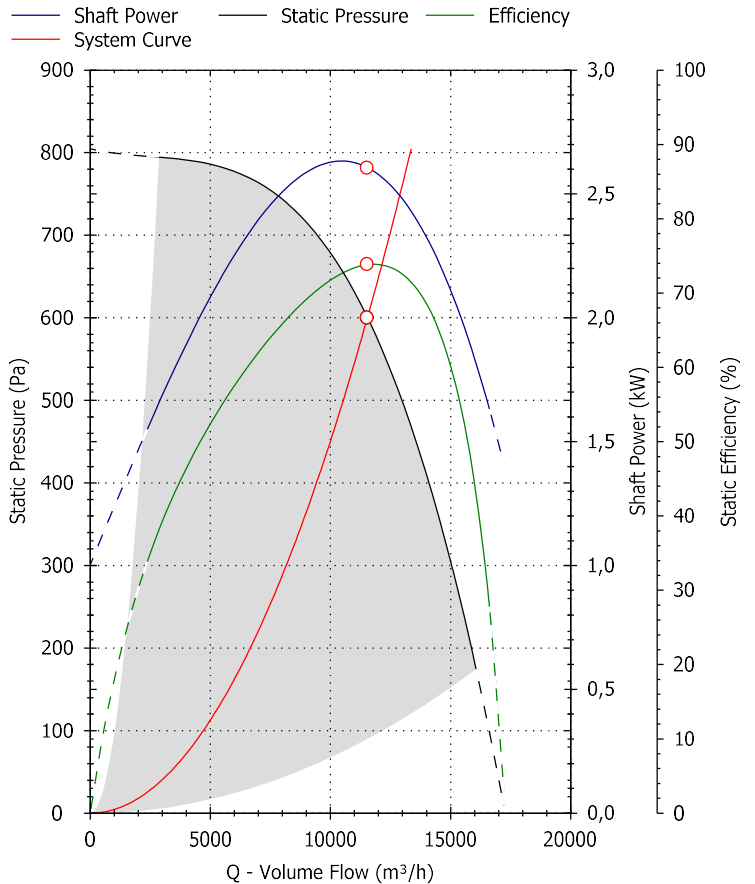
Motor Selection

Recommended Motor AC Motor (3,00 kW 50 Hz 6p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 64,5 % @ working point
Motor Input Power 2,98 kW @ working point

Operating Limits

Max. Shaft Power 3,00 kW
Max. Input Power 3,44 kW
Max. Fan Speed 1215 rpm @ 64 Hz
Temperature (Min-Max) -20° To 40°C

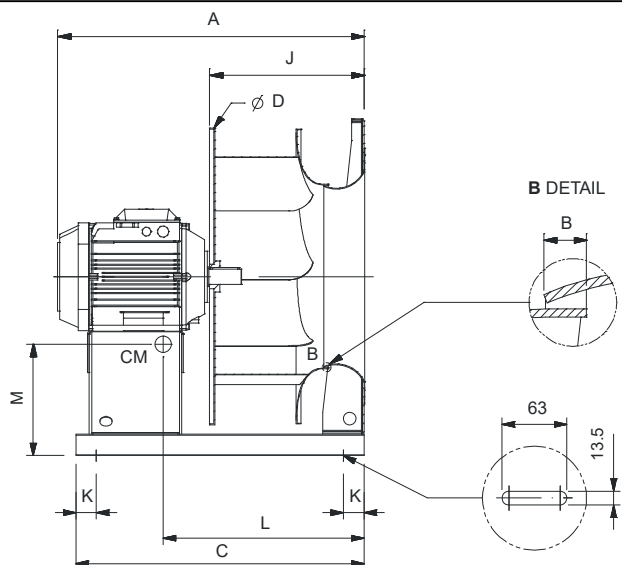
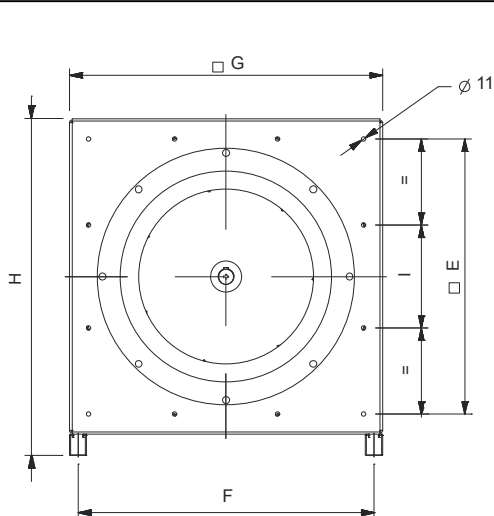


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
68,1	A	S	N73	+	S&P	-	2,954	11.870	578	1209	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	85	81	95	88	84	78	76	70	96 dB
Lwi(A)	59	65	86	85	84	79	77	69	90 dB(A)
Lpi(A)	48	55	75	74	74	68	67	58	80 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

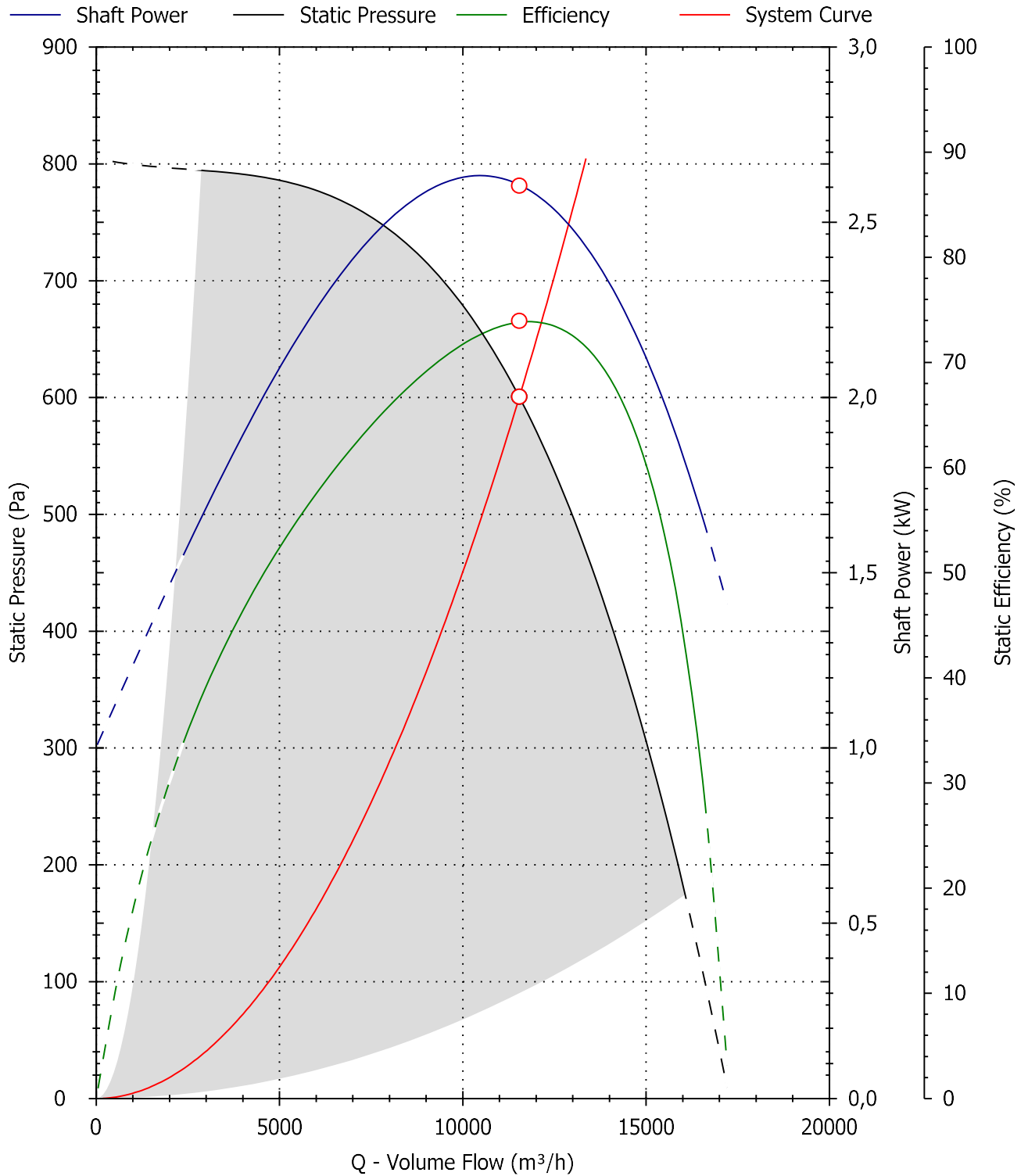


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
830	6.3	800	716	668	719	760	812	250	365	50	392	370	128 Kg



Date 24.10.2019
Company -
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Project - AHU5 - ASPR.
Reference

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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
73.9	A	S	N73	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
2,954	11.870	578	1209	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	85	81	95	88	84	78	76	70	96 dB
Lwi(A)	59	65	86	85	84	79	77	69	90 dB(A)
Lpi(A)	48	55	75	74	74	68	67	58	80 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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Attention -
Project - AHU5 - ASPR.
Reference -

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

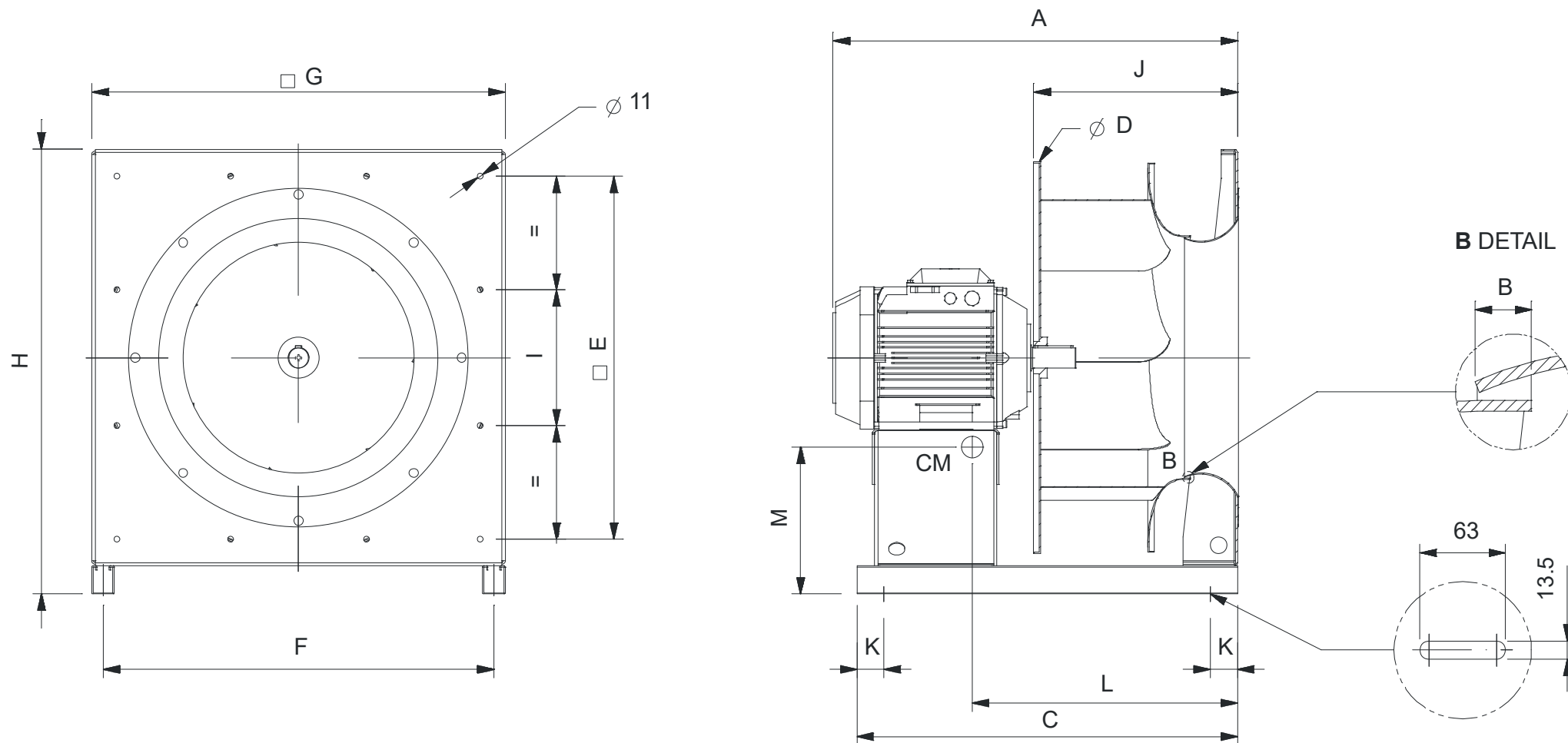
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

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Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
830	6.3	800	716	668	719	760	812	250	365	50	392	370	128 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU6 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 1000-4T-15
Operating Conditions Standard
Air Volume 34.100 m³/h
Static Pressure 2.100 Pa
Fan Static Efficiency 65,9 %
Peak Fan Static Efficiency 74,5 %
Fan Speed 1282 rpm @ 44Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 30,2 kW @ working point
Specific Fan Power 3,39 W/l/s

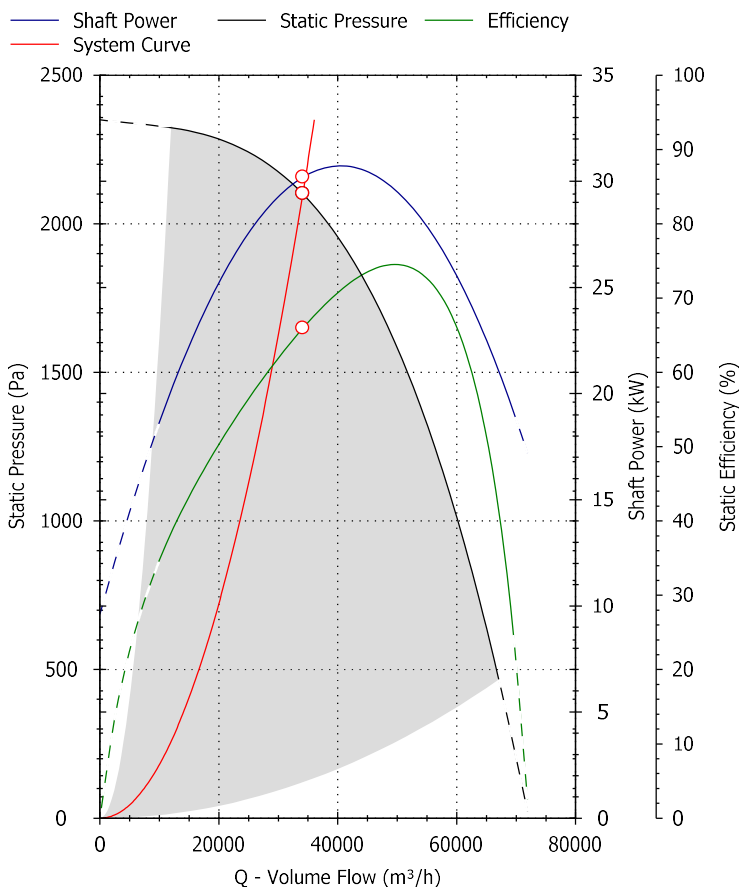
Motor Selection

Recommended Motor AC Motor (37,0 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 62,0 % @ working point
Motor Input Power 32,1 kW @ working point

Operating Limits

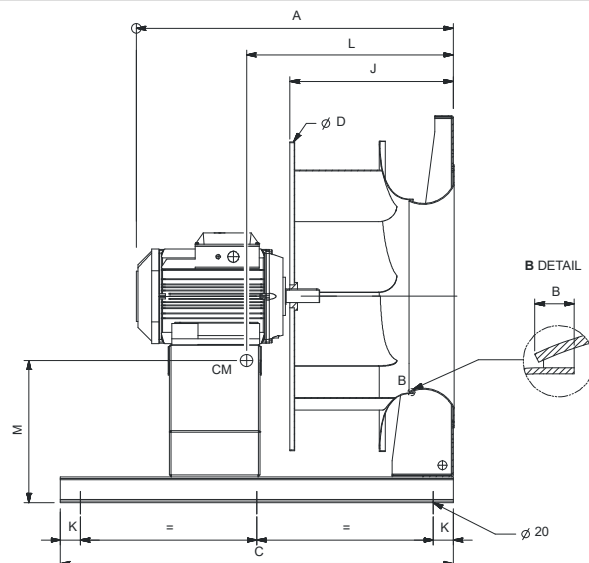
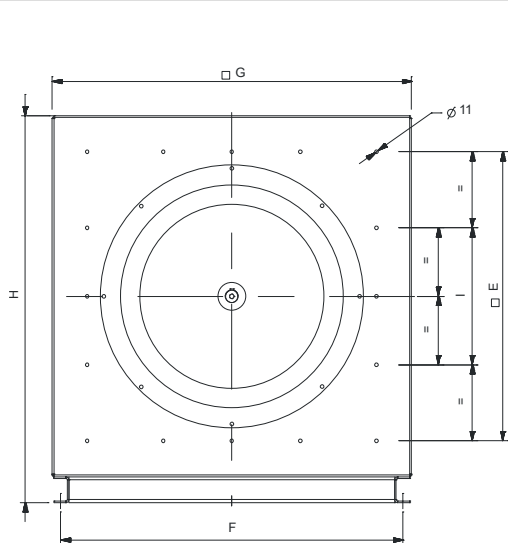
Max. Shaft Power 37,00 kW
Max. Input Power 39,32 kW
Max. Fan Speed 1290 rpm @ 44 Hz
Temperature (Min-Max) -20° To 40°C



ErP Compliance

η[%]	MC	EC	N	VSD	Marca	REF	[kW]	[m3/h]	[Pa]	RPM	SR
72,9	A	S	N71	+	S&P	-	31,366	49.570	1.597	1282	1
Hz	63	125	250	500	1k	2k	4k	8k	Overall		
Lwi(Lin)	102	114	104	101	96	91	88	84	115 dB		
Lwi(A)	76	98	95	98	96	92	89	83	104 dB(A)		
Lpi(A)	66	88	85	88	85	82	78	72	93 dB(A)		

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

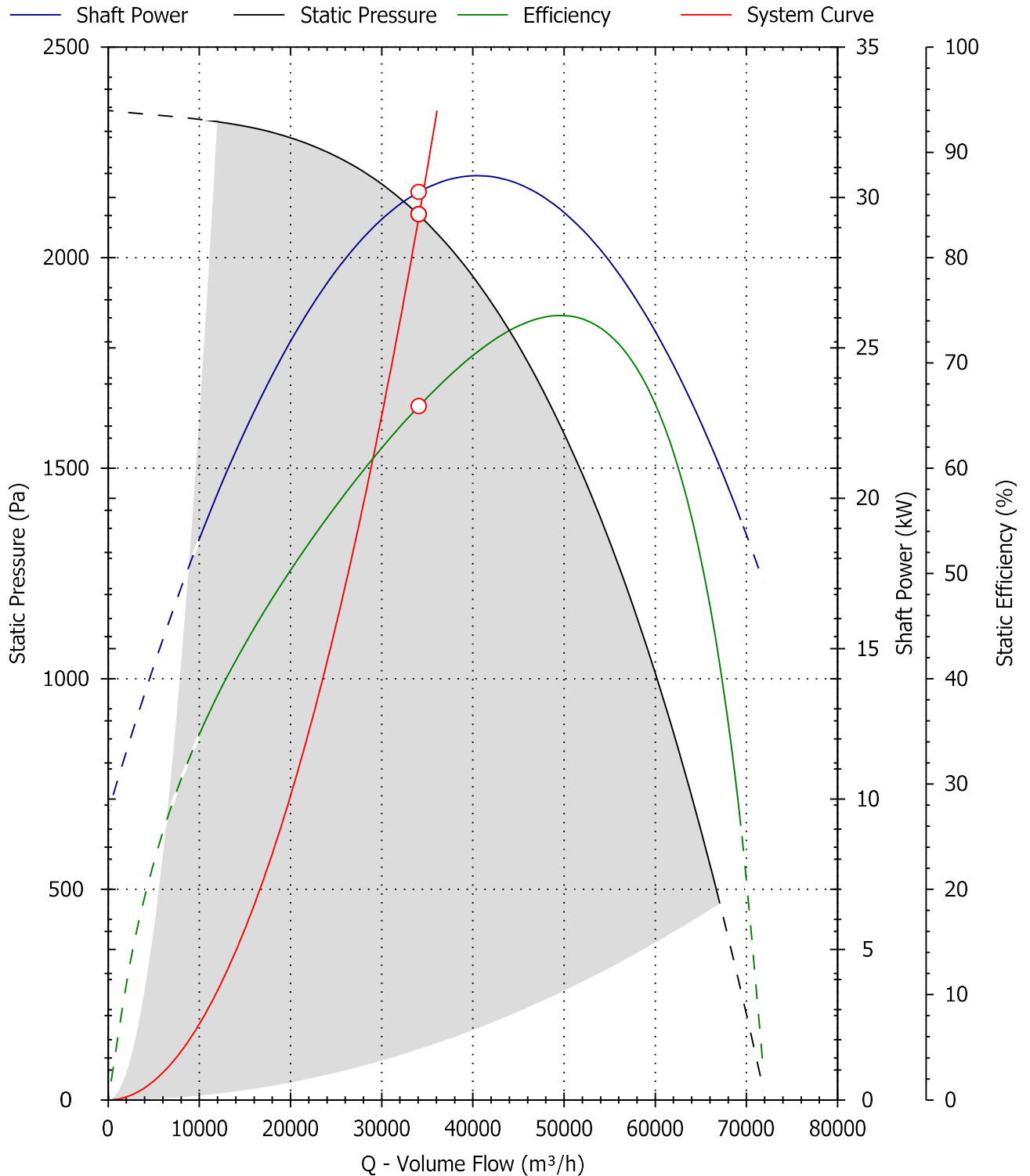


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1333	10	1200	1140	1036	1132	1180	1265	500	558	65	695	592	599 Kg



Date 24.10.2019
Company -
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Project - AHU6 - VANT.
Reference

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08150 Parets del Vallés
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Email: oem.info@solerpalau.com



ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
74,5	A	S	N71	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
31,366	49.570	1.597	1282	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	102	114	104	101	96	91	88	84	115 dB
Lwi(A)	76	98	95	98	96	92	89	83	104 dB(A)
Lpi(A)	66	88	85	88	85	82	78	72	93 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
Company -
Attention -
Project - AHU6 - VANT.
Reference -

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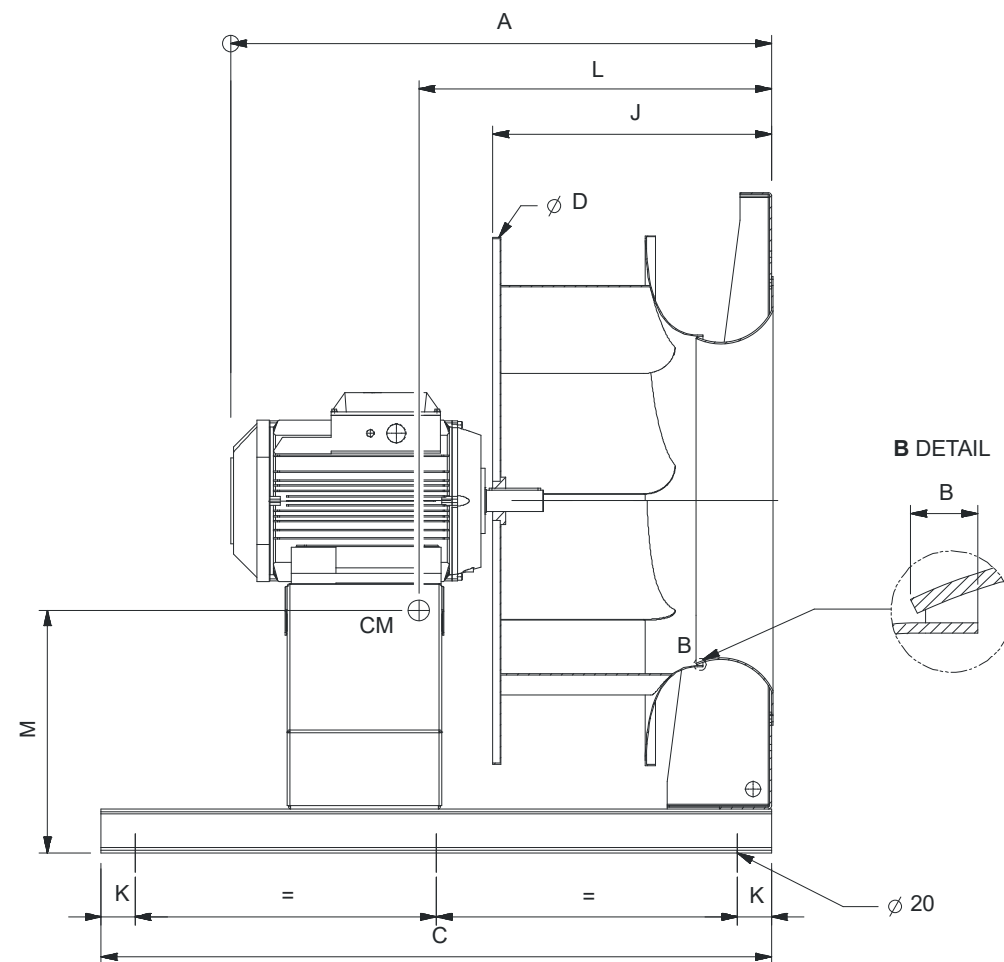
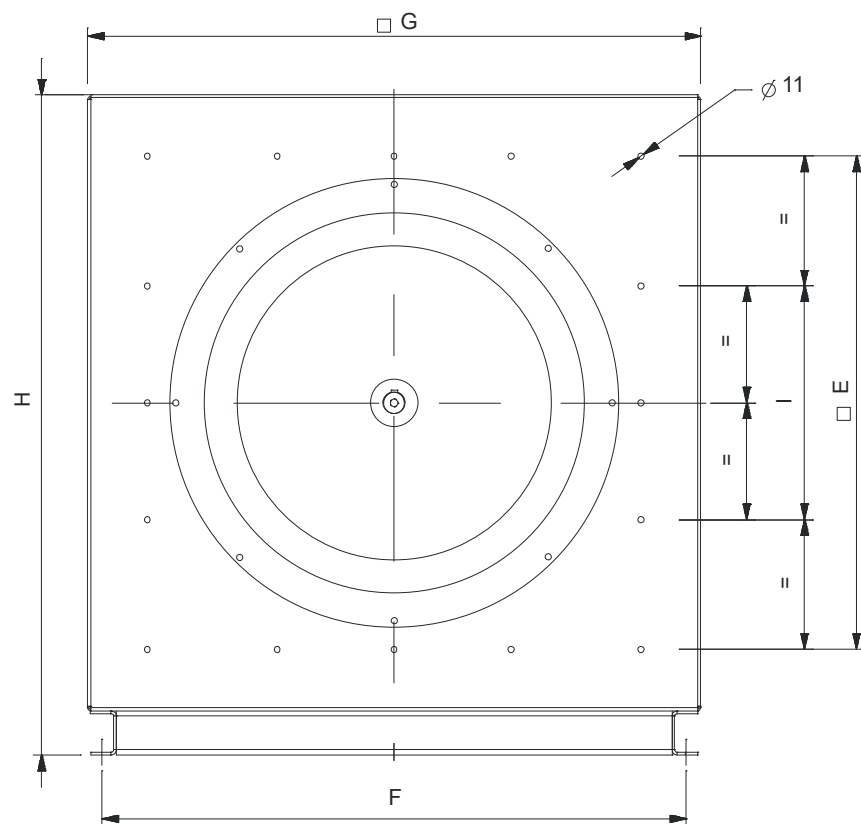
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
1333	10	1200	1140	1036	1132	1180	1265	500	558	65	695	592	599 Kg



Date 24.10.2019
 Company -
 Attention -
 Project - AHU6 - ASPR.
 Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
 Llevant, 4, Polígono Industrial Llevant
 08150 Parets del Vallés
 Barcelona
 Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
 Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
 Unit BPHM 710-4T-11
 Operating Conditions Standard
 Air Volume 30.689 m³/h
 Static Pressure 807 Pa
 Fan Static Efficiency 61 %
 Peak Fan Static Efficiency 74,4 %
 Fan Speed 1735 rpm @ 59Hz
 Air Temperature 20 °C
 Altitude 0 m
 Shaft Power 11,3 kW @ working point
 Specific Fan Power 1,43 W//s

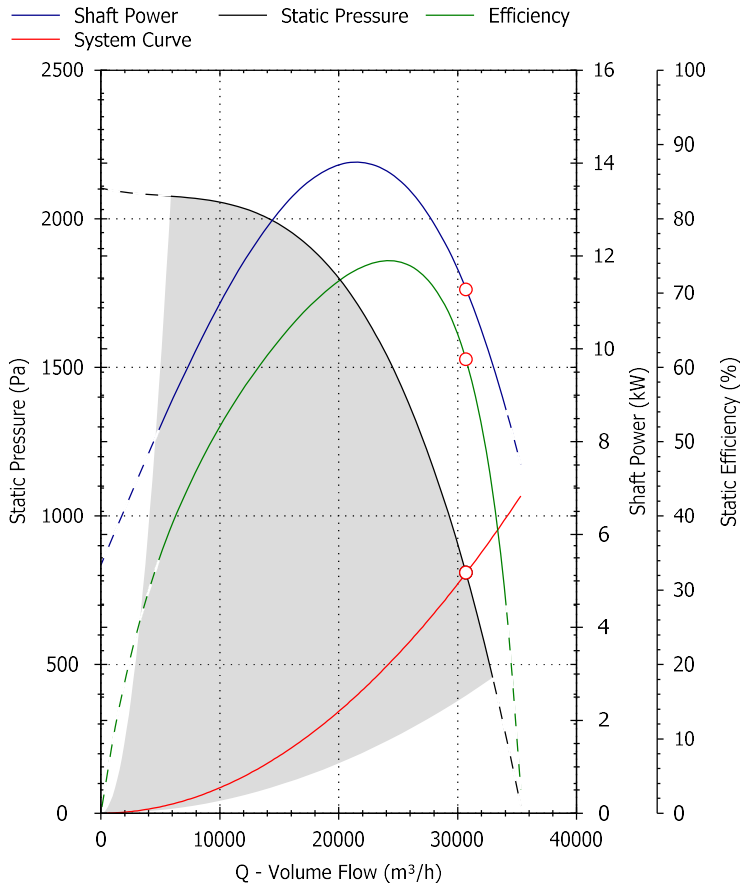
Motor Selection

Recommended Motor AC Motor (15,0 kW 50 Hz 4p)

Motor Speed -
 Service Factor 0 %
 Fan & Motor Efficiency 56,3 % @ working point
 Motor Input Power 12,2 kW @ working point

Operating Limits

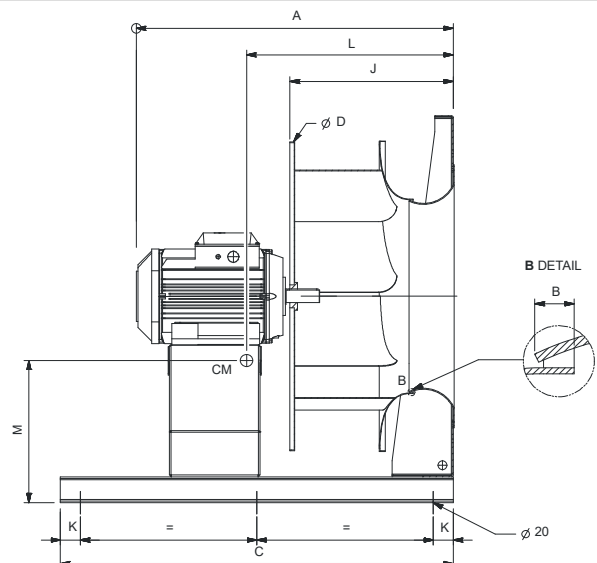
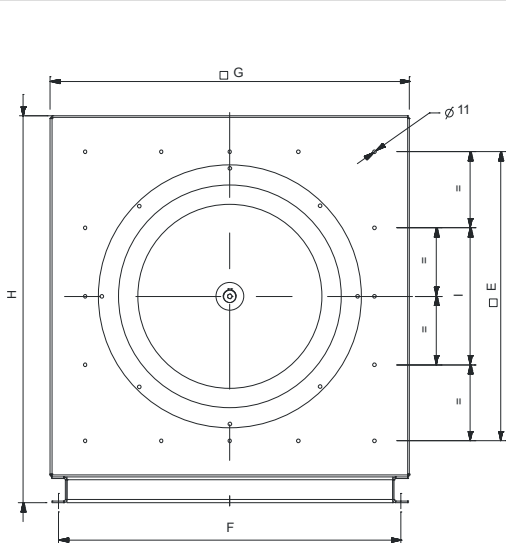
Max. Shaft Power 15,00 kW
 Max. Input Power 16,25 kW
 Max. Fan Speed 1750 rpm @ 60 Hz
 Temperature (Min-Max) -20° To 40°C



ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
71,4	A	S	N71	+	S&P	-	14,877	24.342	1.510	1735	1
Hz	63	125	250	500	1k	2k	4k	8k	Overall		
Lwi(Lin)	100	93	110	101	99	93	97	84	111 dB		
Lwi(A)	74	77	101	98	99	94	98	83	106 dB(A)		
Lpi(A)	63	66	91	87	88	84	88	73	95 dB(A)		

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

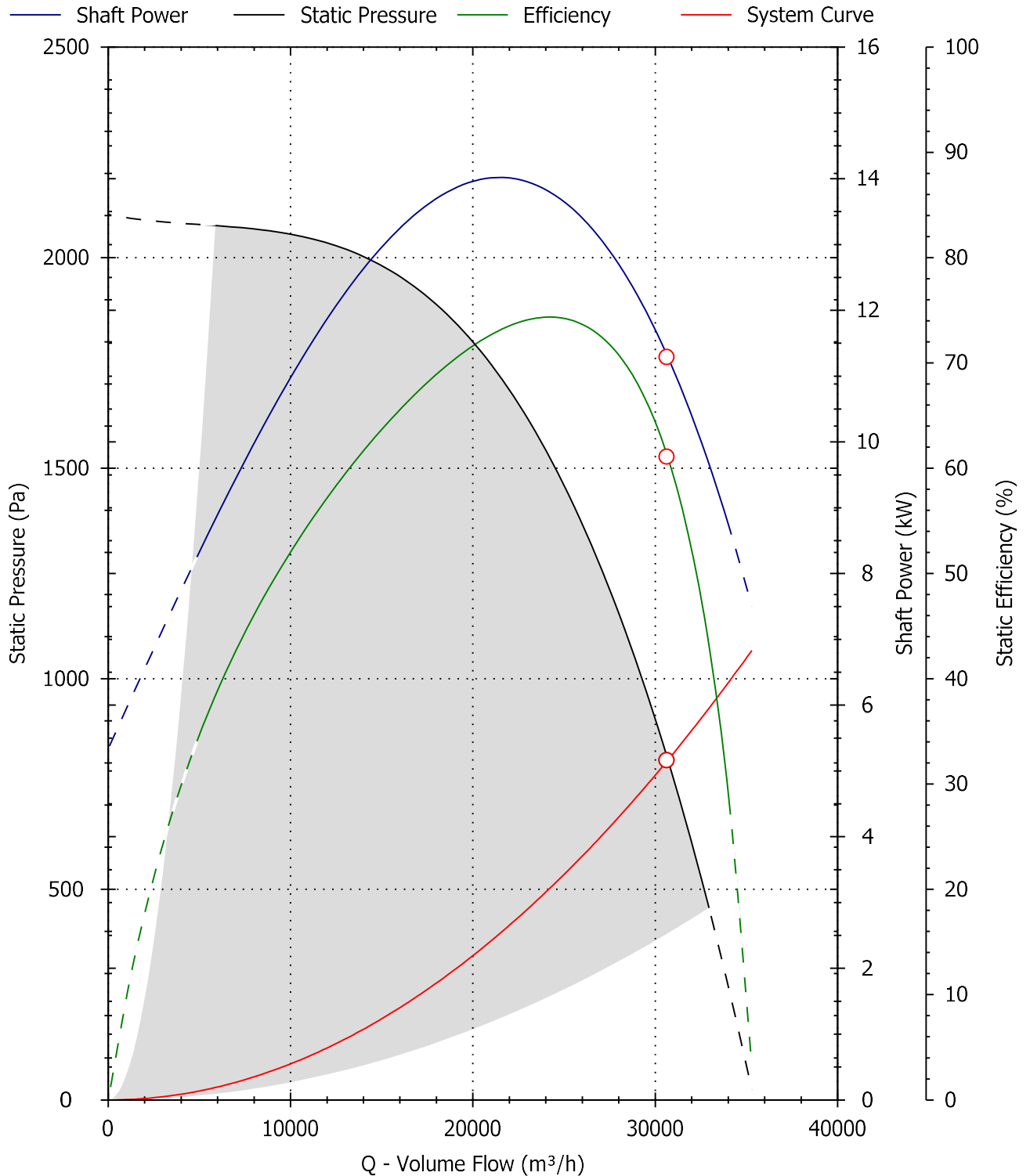


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
982	7.1	900	806	830	912	960	1045	300	411	65	515	463	296 Kg



Date 24.10.2019
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Reference

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ErP Compliance

η[%]	MC	EC	N	VSD	Marca	REF
74,4	A	S	N71	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
14,877	24,342	1.510	1735	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	100	93	110	101	99	93	97	84	111 dB
Lwi(A)	74	77	101	98	99	94	98	83	106 dB(A)
Lpi(A)	63	66	91	87	88	84	88	73	95 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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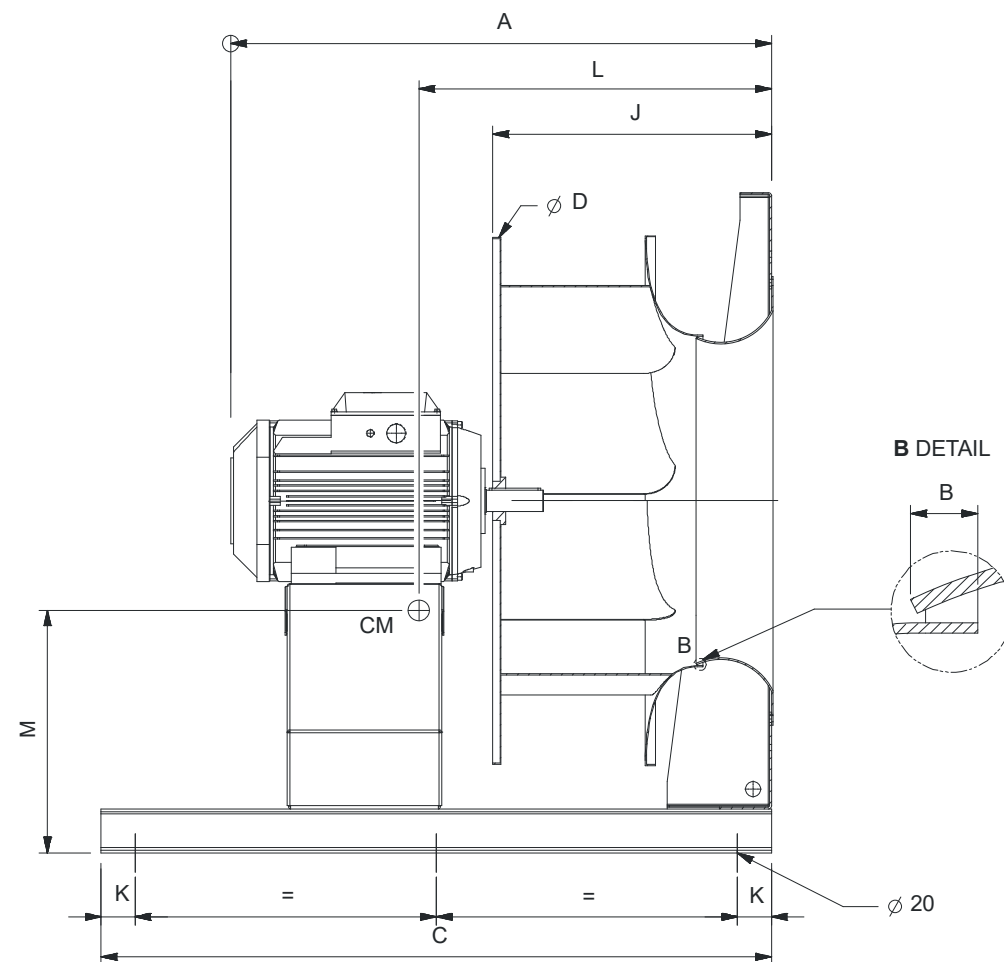
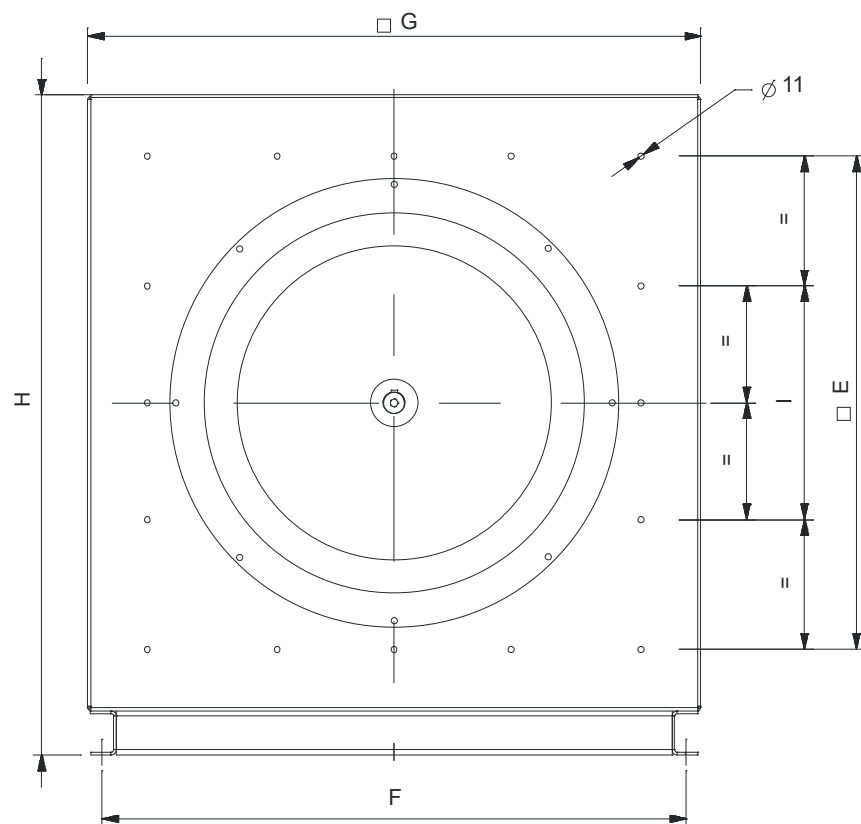
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

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Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
982	7.1	900	806	830	912	960	1045	300	411	65	515	463	296 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU7 - VANT.
Reference

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 08150 Parets del Vallés
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Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 400-2T-08
Operating Conditions Standard
Air Volume 4.600 m³/h
Static Pressure 2.000 Pa
Fan Static Efficiency 61,1 %
Peak Fan Static Efficiency 74,5 %
Fan Speed 3082 rpm @ 53Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 4,18 kW @ working point
Specific Fan Power 3,66 W/l/s

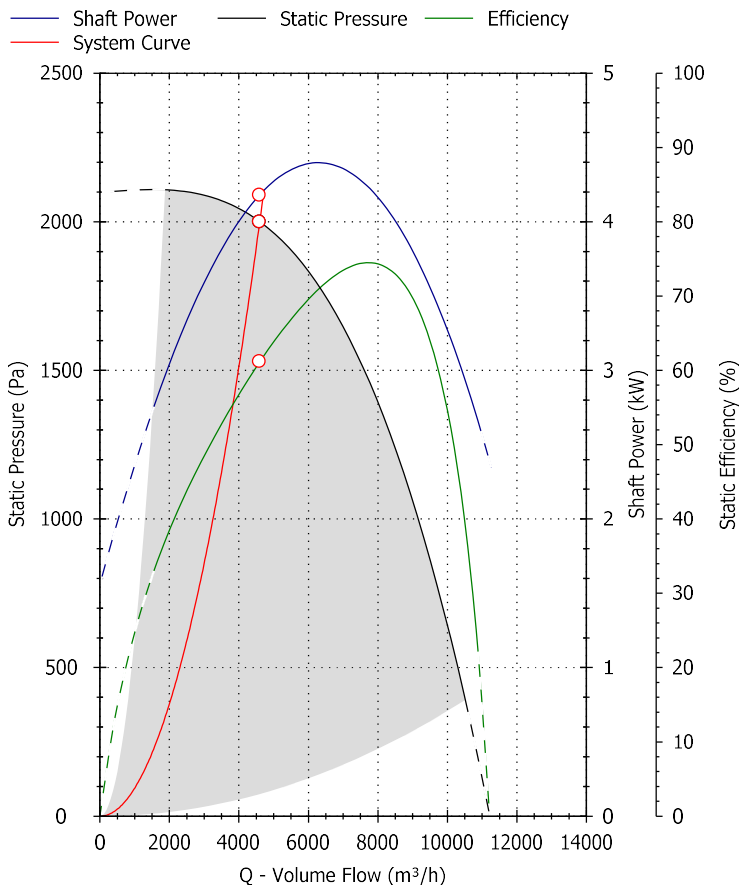
Motor Selection

Recommended Motor AC Motor (5,50 kW 50 Hz 2p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 54,6 % @ working point
Motor Input Power 4,68 kW @ working point

Operating Limits

Max. Shaft Power 5,50 kW
Max. Input Power 6,15 kW
Max. Fan Speed 3320 rpm @ 57 Hz
Temperature (Min-Max) -20° To 40°C

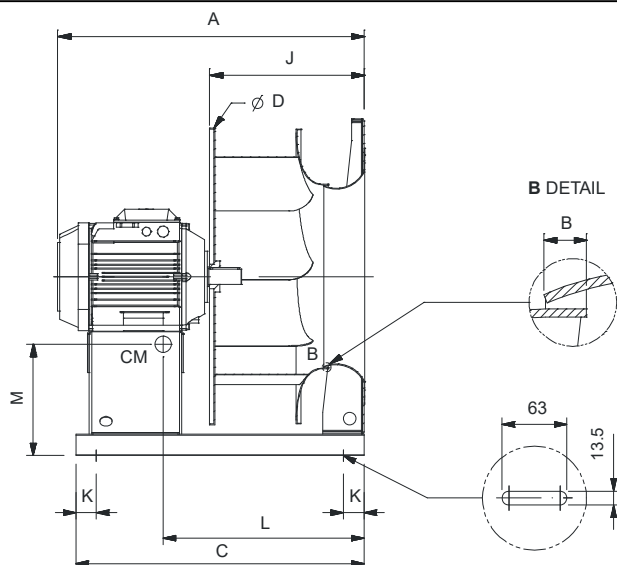
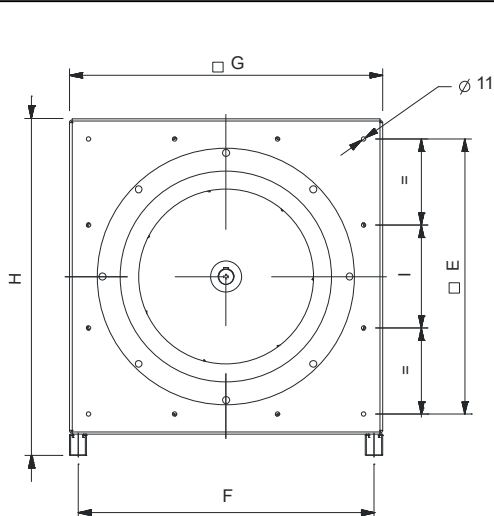


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
69,4	A	S	N72	+	S&P	-	4,708	7.768	1.453	3082	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	92	88	105	94	93	88	86	82	106 dB
Lwi(A)	66	72	96	91	93	89	87	81	99 dB(A)
Lpi(A)	55	62	86	81	82	78	77	71	89 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

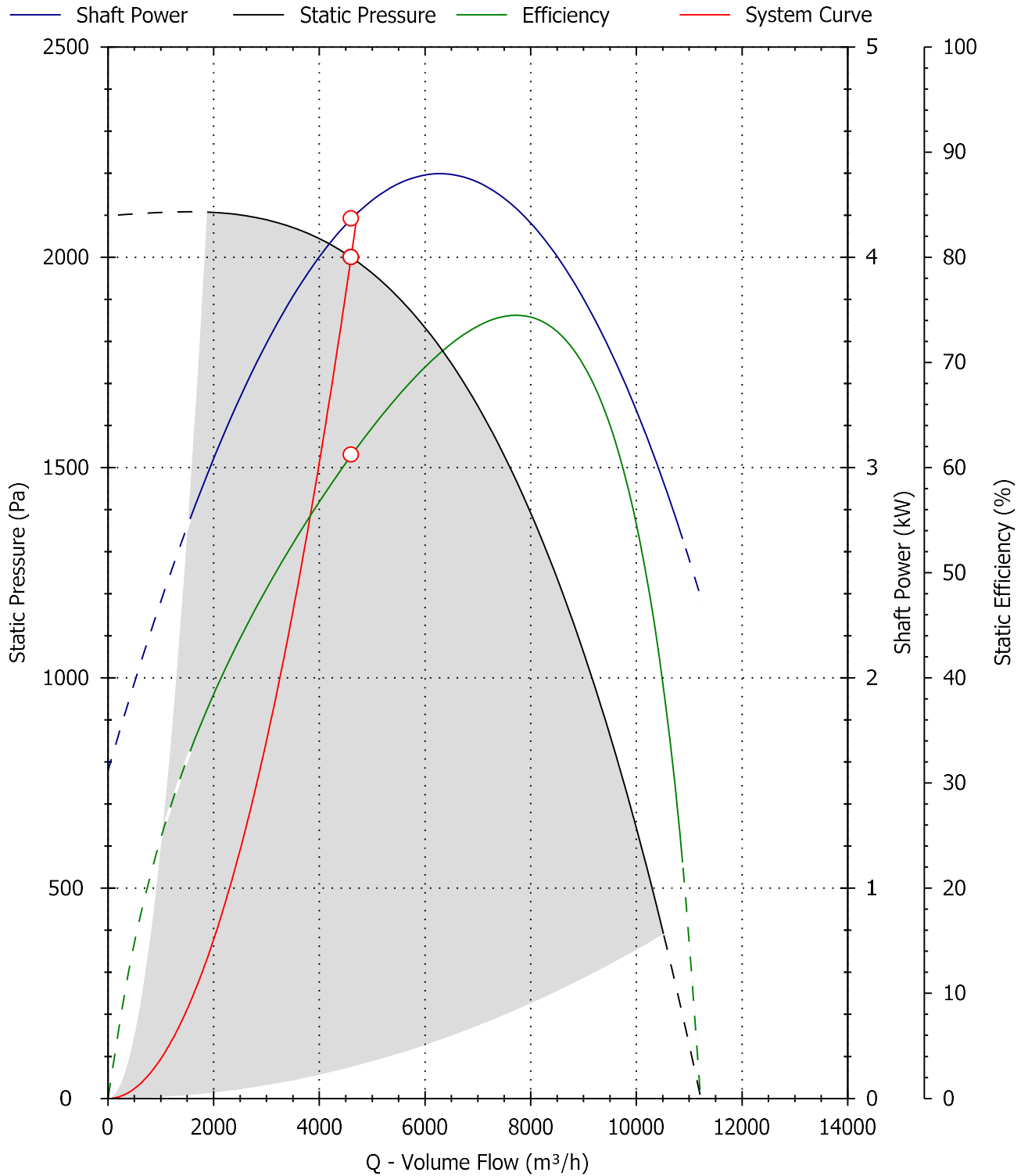


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
589	4	600	455	464	459	500	552	164	228	50	308	264	67 Kg



Date 24.10.2019
Company -
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Project - AHU7 - VANT.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com



ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
74,5	A	S	N72	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
4,708	7.768	1.453	3082	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	92	88	105	94	93	88	86	82	106 dB
Lwi(A)	66	72	96	91	93	89	87	81	99 dB(A)
Lpi(A)	55	62	86	81	82	78	77	71	89 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
Company -
Attention -
Project - AHU7 - VANT.
Reference -

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

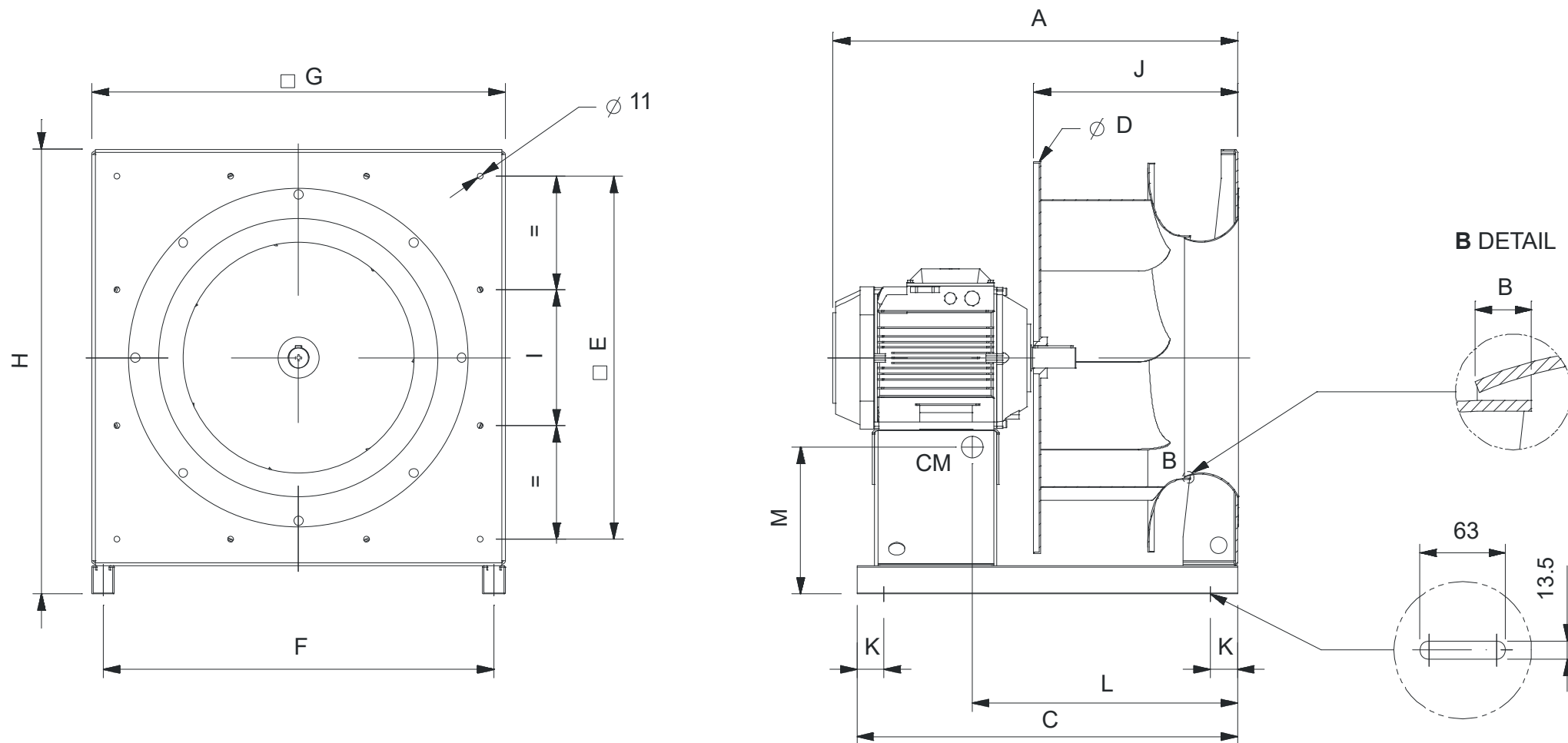
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
589	4	600	455	464	459	500	552	164	228	50	308	264	67 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU7 - ASPR.
Reference

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Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona
Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 315-2T-03
Operating Conditions Standard
Air Volume 4.000 m³/h
Static Pressure 600 Pa
Fan Static Efficiency 68,6 %
Peak Fan Static Efficiency 72,9 %
Fan Speed 2831 rpm @ 50Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 0,971 kW @ working point
Specific Fan Power 1,05 W/l/s

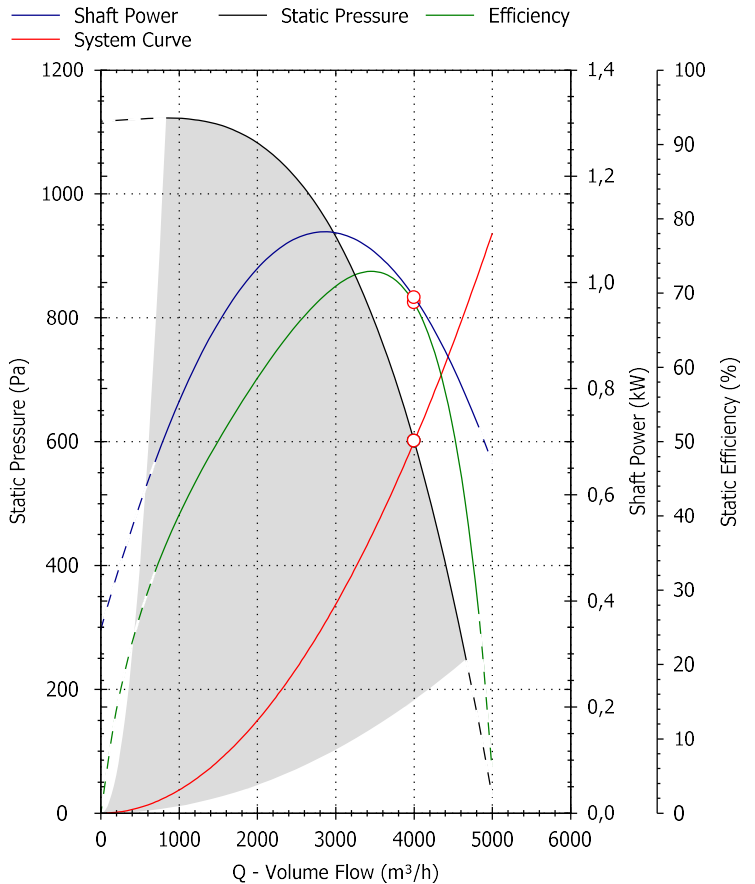
Motor Selection

Recommended Motor AC Motor (1,10 kW 50 Hz 2p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 57,0 % @ working point
Motor Input Power 1,17 kW @ working point

Operating Limits

Max. Shaft Power 1,10 kW
Max. Input Power 1,33 kW
Max. Fan Speed 2960 rpm @ 52 Hz
Temperature (Min-Max) -20° To 40°C

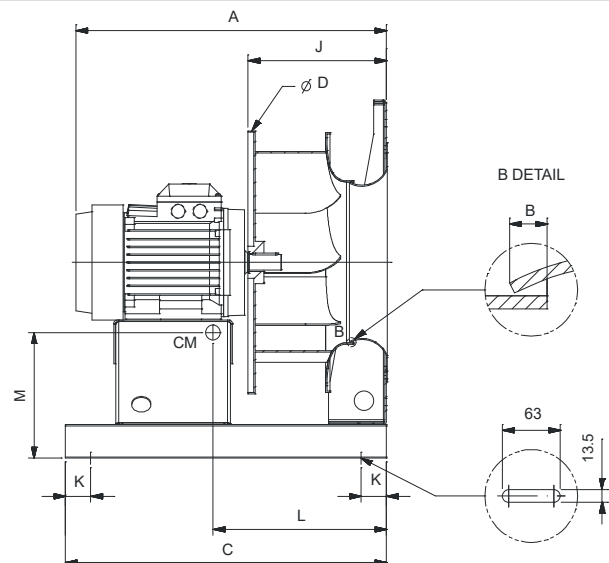
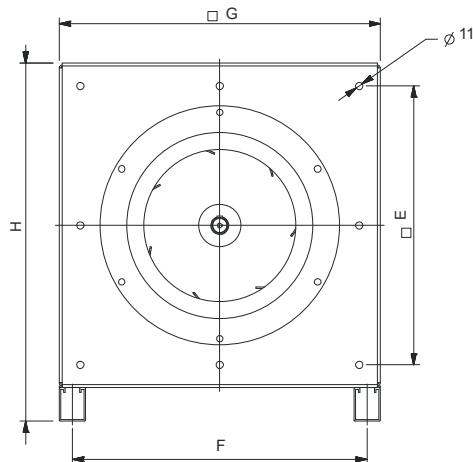


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m ³ /h]	[Pa]	RPM	SR
65,4	A	S	N74	+	S&P	-	1,276	3.447	807	2831	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	91	76	76	87	81	80	78	79	93 dB
Lwi(A)	65	60	67	84	81	81	79	78	88 dB(A)
Lpi(A)	54	49	57	73	71	70	69	67	78 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

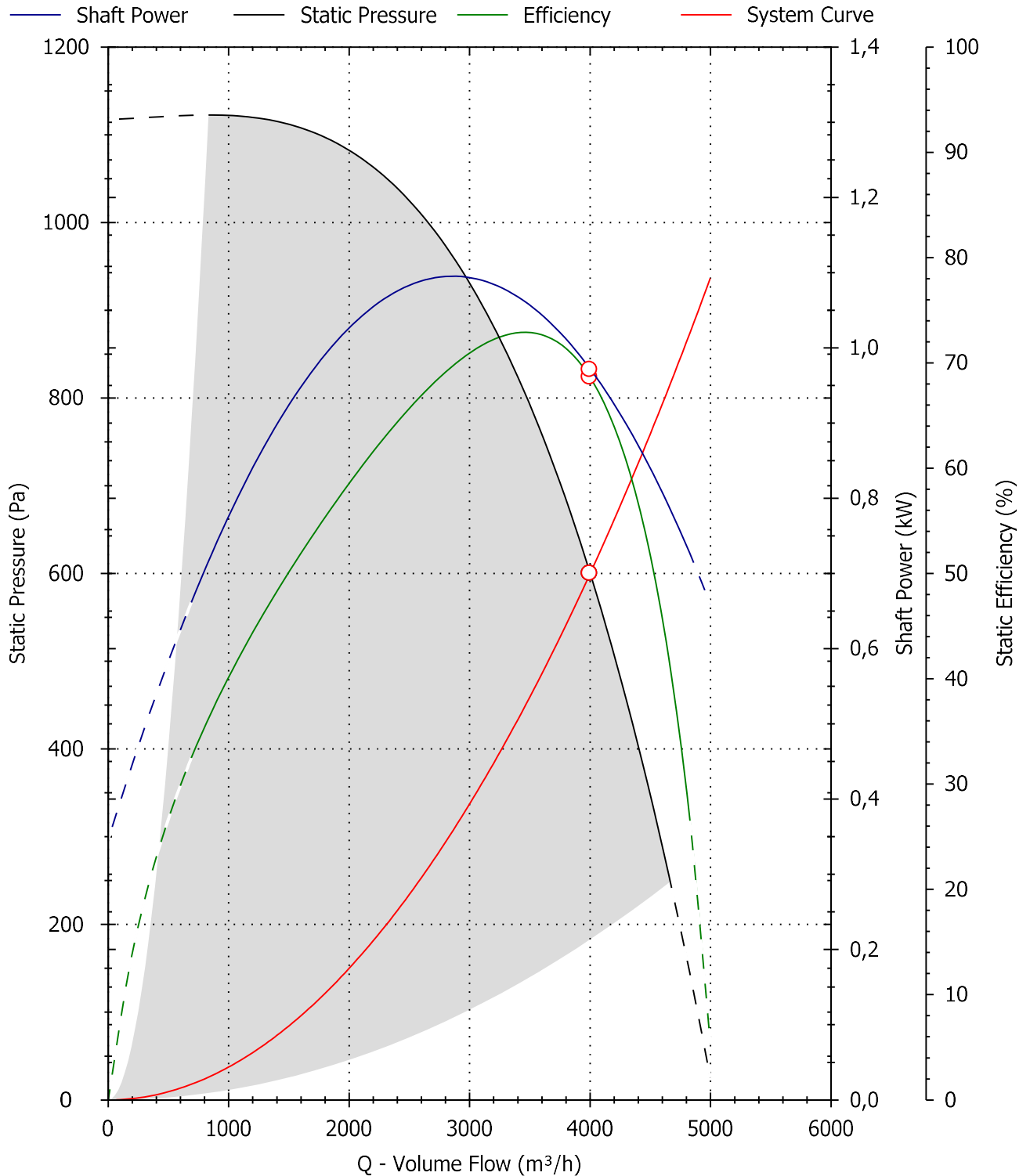


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
476	3.2	500	360	364	359	400	452	-	181	50	223	207	30 Kg



Date 24.10.2019
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Project AHU7 - ASPR.
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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
72.9	A	S	N74	+	S&P	-
[kW]	[m³/h]	[Pa]	RPM	SR		
1,276	3,447	807	2831	1		

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	91	76	76	87	81	80	78	79	93 dB
Lwi(A)	65	60	67	84	81	81	79	78	88 dB(A)
Lpi(A)	54	49	57	73	71	70	69	67	78 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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Project - AHU7 - ASPR.
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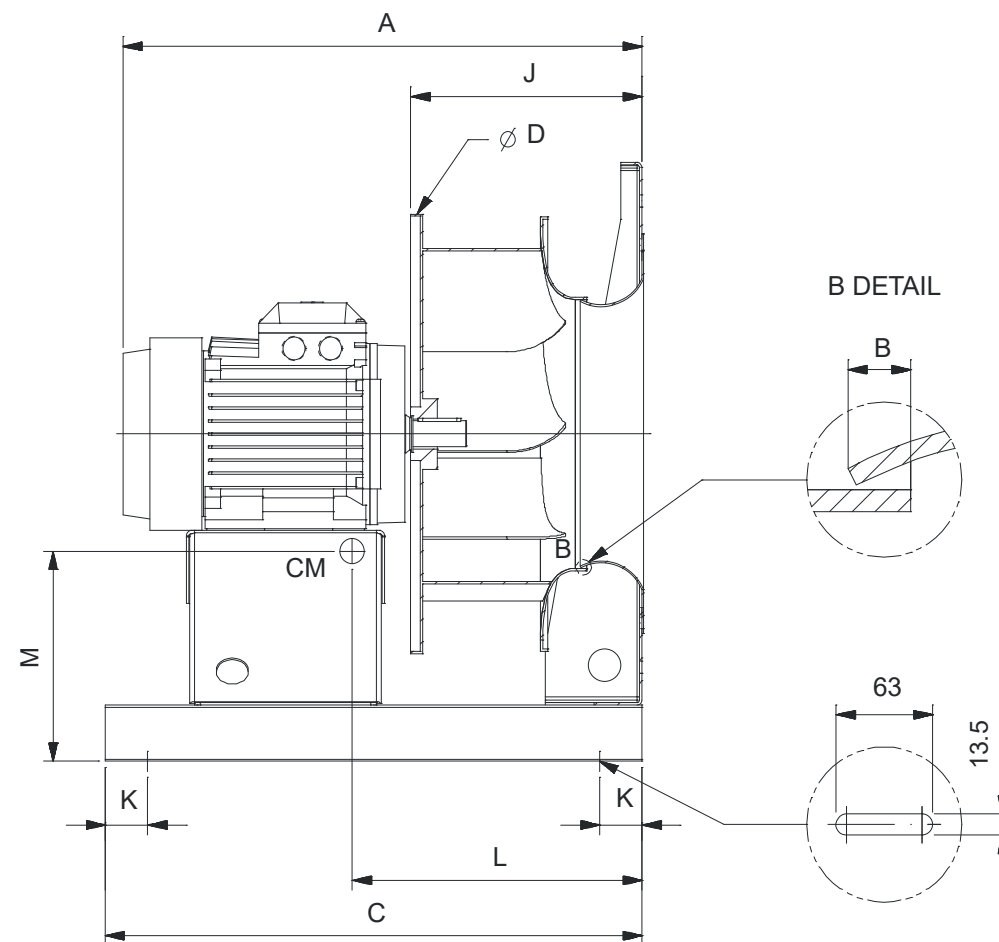
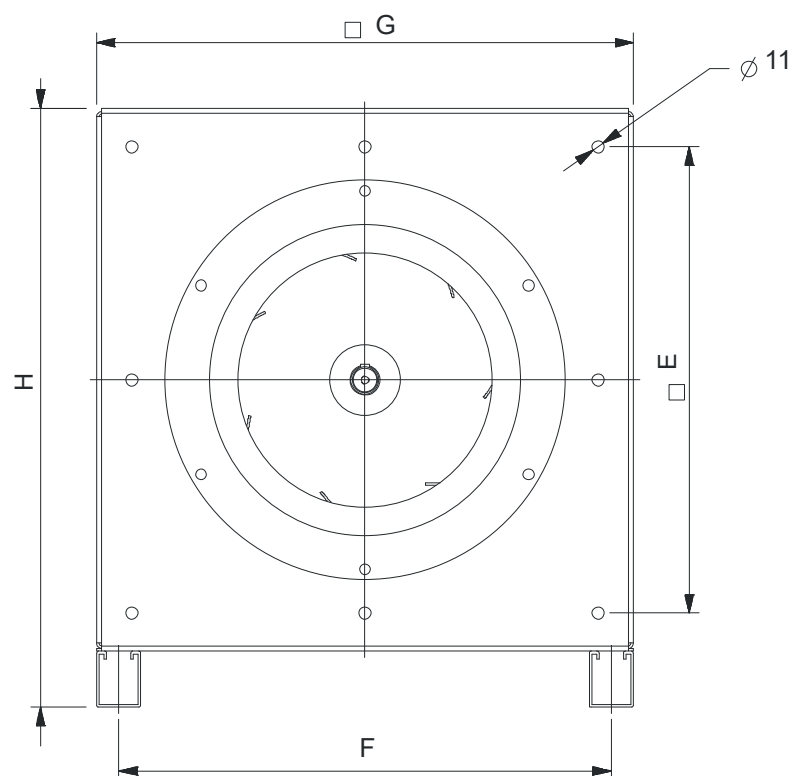
Llevant, 4, Polígono Industrial Llevant

08150 Parets del Vallés

Barcelona

Tel: +34 93 571 93 00 **Fax:** +34 93 571 93 01

Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
476	3.2	500	360	364	359	400	452	-	181	50	223	207	30 Kg



Date 24.10.2019
 Company -
 Attention -
 Project - AHU8 - VANT.
 Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.
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 08150 Parets del Vallés
 Barcelona
 Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
 Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
 Unit BPHM 500-2T-10
 Operating Conditions Standard
 Air Volume 9.546 m³/h
 Static Pressure 2.171 Pa
 Fan Static Efficiency 68,8 %
 Peak Fan Static Efficiency 75,5 %
 Fan Speed 2650 rpm @ 45Hz
 Air Temperature 20 °C
 Altitude 0 m
 Shaft Power 8,37 kW @ working point
 Specific Fan Power 3,45 W/l/s

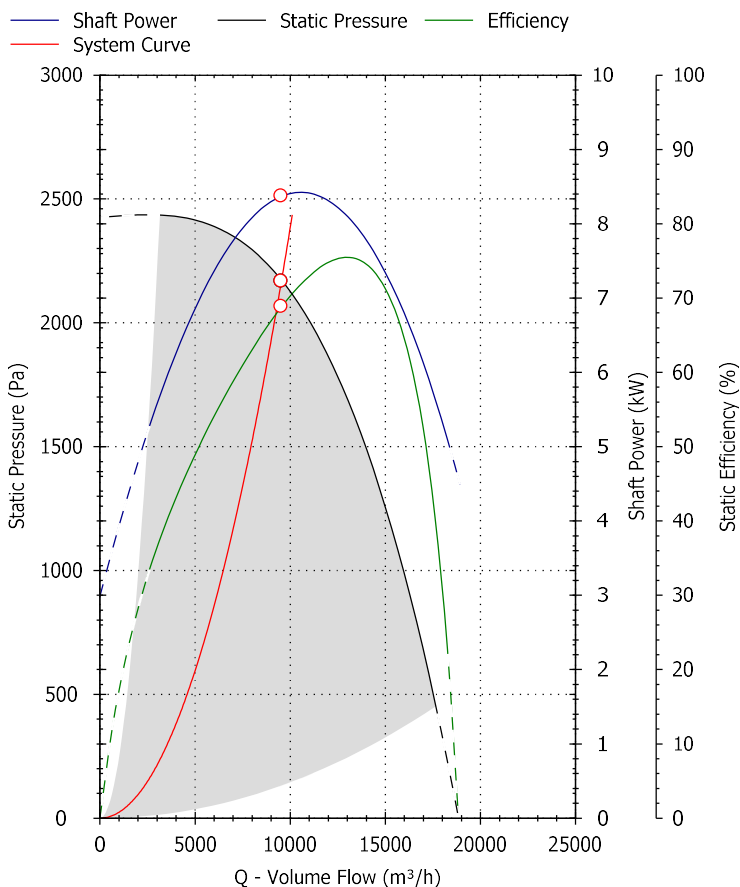
Motor Selection

Recommended Motor AC Motor (11,0 kW 50 Hz 2p)

Motor Speed -
 Service Factor 0 %
 Fan & Motor Efficiency 62,9 % @ working point
 Motor Input Power 9,15 kW @ working point

Operating Limits

Max. Shaft Power 11,00 kW
 Max. Input Power 12,04 kW
 Max. Fan Speed 2680 rpm @ 46 Hz
 Temperature (Min-Max) -20° To 40°C

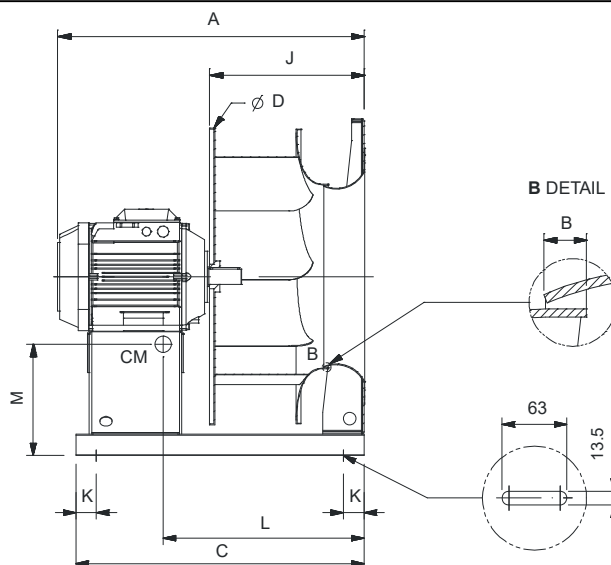
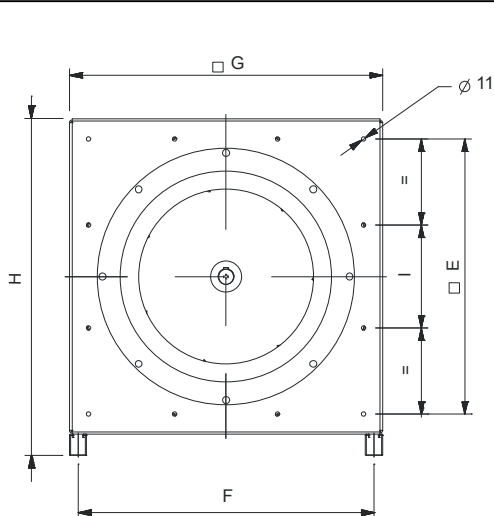


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
71,7	A	S	N72	+	S&P	-	8,820	13.048	1.679	2650	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	97	88	105	96	95	91	89	85	107 dB
Lwi(A)	70	72	96	93	95	92	90	84	101 dB(A)
Lpi(A)	60	61	86	83	85	81	80	74	90 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

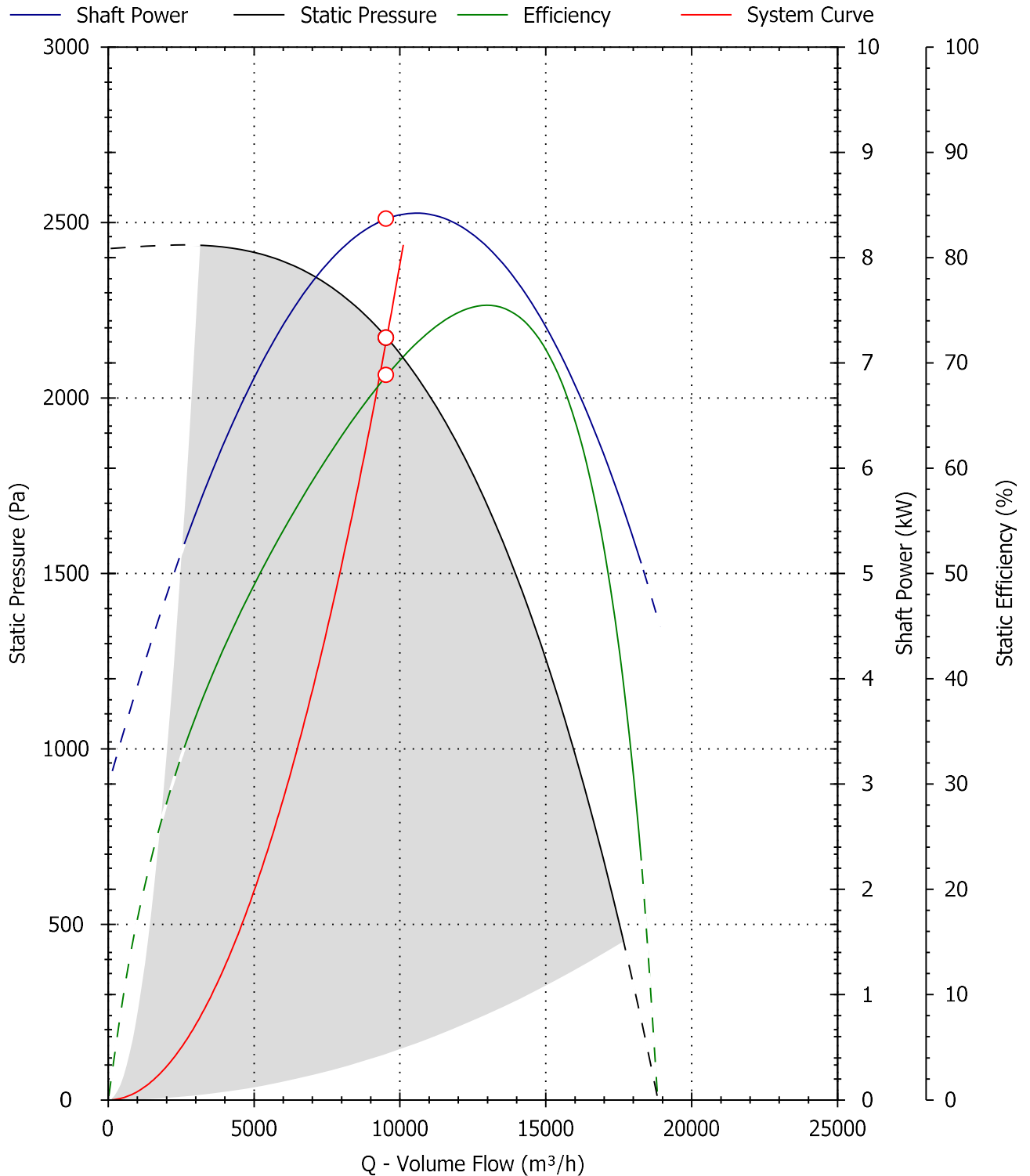


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
812	5	800	566	598	589	630	682	200	285	50	455	340	161 Kg



Date 24.10.2019
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Reference

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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
75,5	A	S	N72	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
8,820	13.048	1.679	2650	1		

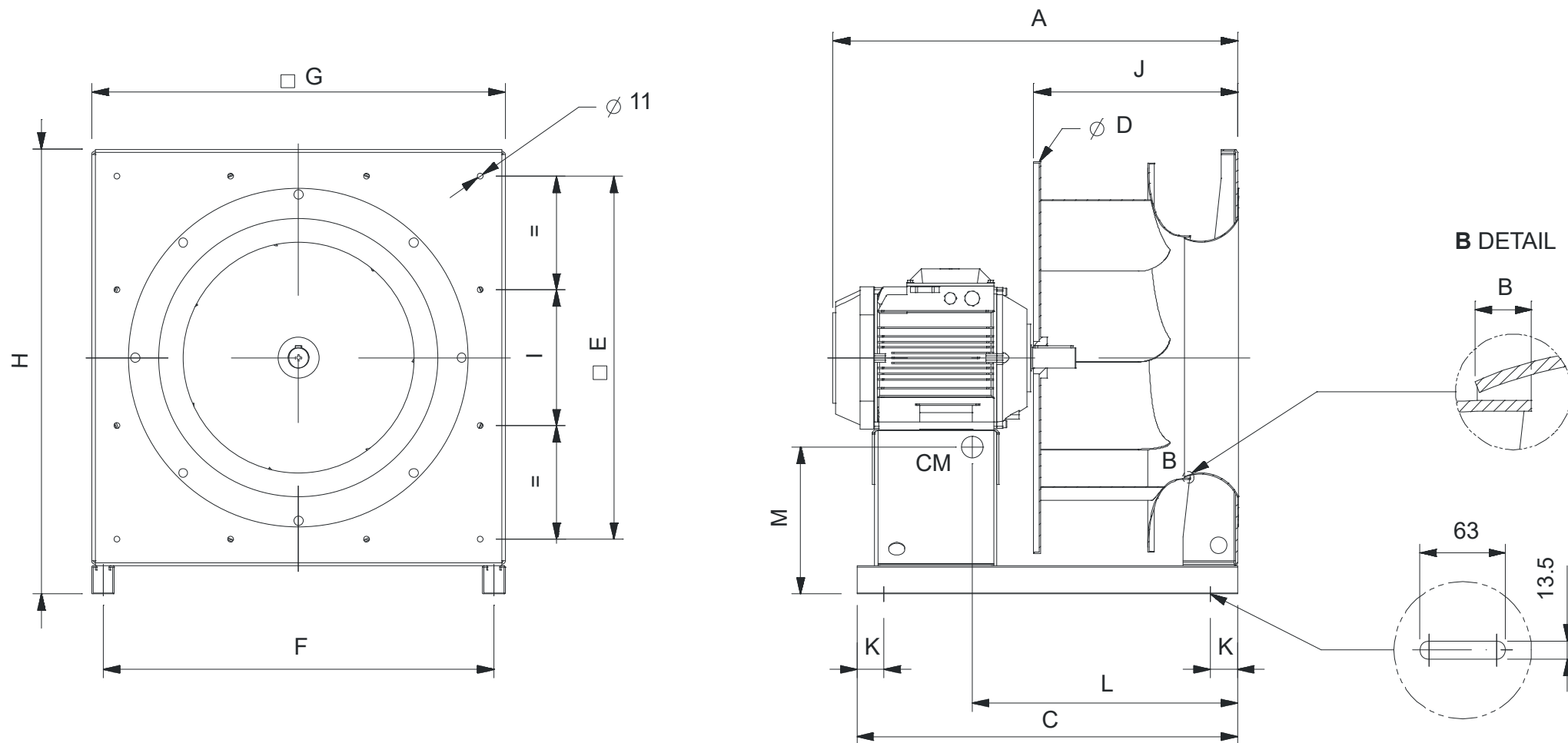
Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	97	88	105	96	95	91	89	85	107 dB
Lwi(A)	70	72	96	93	95	92	90	84	101 dB(A)
Lpi(A)	60	61	86	83	85	81	80	74	90 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



Date 24.10.2019
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 Email: oem.info@solerpalau.com



A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
812	5	800	566	598	589	630	682	200	285	50	455	340	161 Kg



Date 24.10.2019
Company -
Attention -
Project - AHU8 - ASPR.
Reference

S&P SISTEMAS DE VENTILACIÓN, S.L.U.

Llevant, 4, Polígono Industrial Llevant
08150 Parets del Vallés
Barcelona

Tel: +34 93 571 93 00 Fax: +34 93 571 93 01
Email: oem.info@solerpalau.com

Fan Selection

Fan Type BC
Unit BPHM 450-4T-08
Operating Conditions Standard
Air Volume 10.000 m³/h
Static Pressure 1.200 Pa
Fan Static Efficiency 74,5 %
Peak Fan Static Efficiency 75,2 %
Fan Speed 2614 rpm @ 90Hz
Air Temperature 20 °C
Altitude 0 m
Shaft Power 4,47 kW @ working point
Specific Fan Power 1,80 W/l/s

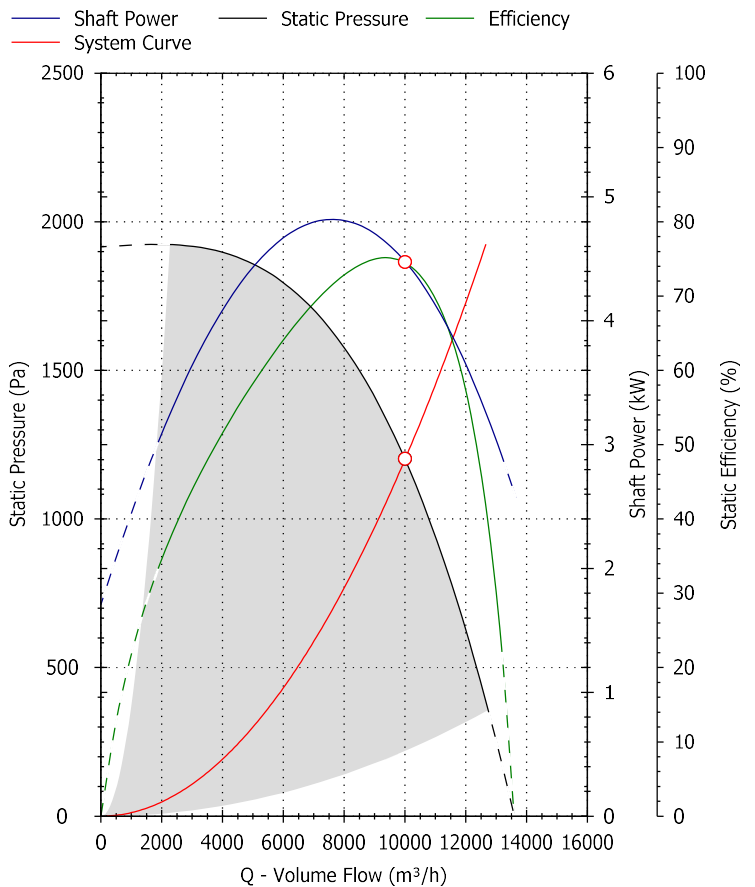
Motor Selection

Recommended Motor AC Motor (5,50 kW 50 Hz 4p)

Motor Speed -
Service Factor 0 %
Fan & Motor Efficiency 66,6 % @ working point
Motor Input Power 5,01 kW @ working point

Operating Limits

Max. Shaft Power 5,50 kW
Max. Input Power 6,15 kW
Max. Fan Speed 2740 rpm @ 94 Hz
Temperature (Min-Max) -20° To 40°C

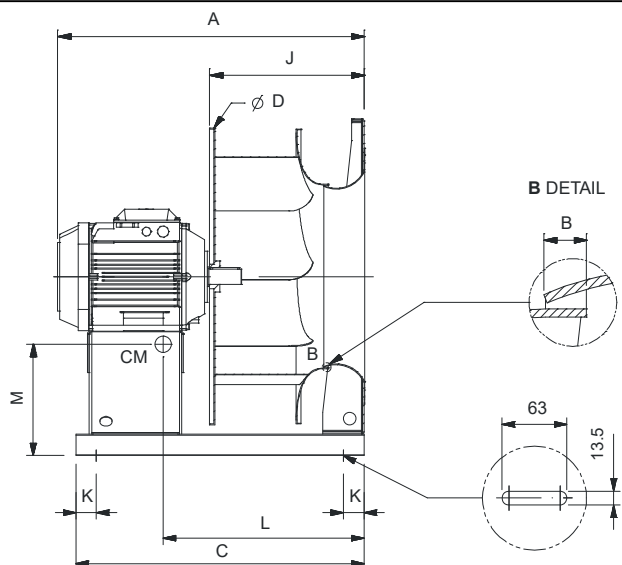
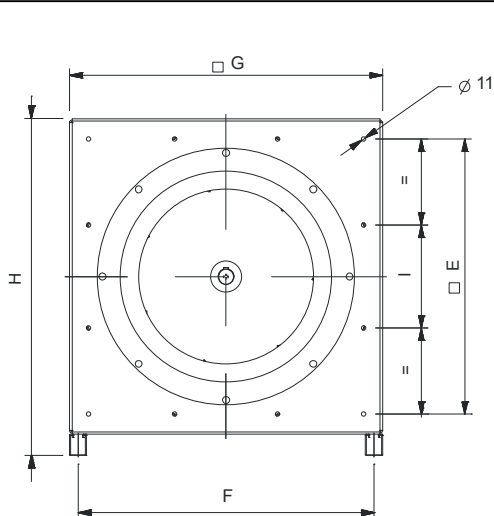


ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF	[kW]	[m³/h]	[Pa]	RPM	SR
69,9	A	S	N72	+	S&P	-	5,159	9.412	1.326	2614	1

Hz	63	125	250	500	1k	2k	4k	8k	Overall
Lwi(Lin)	96	82	90	94	92	87	86	80	100 dB
Lwi(A)	70	66	81	91	92	88	87	79	96 dB(A)
Lpi(A)	60	56	71	80	82	78	77	69	86 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions

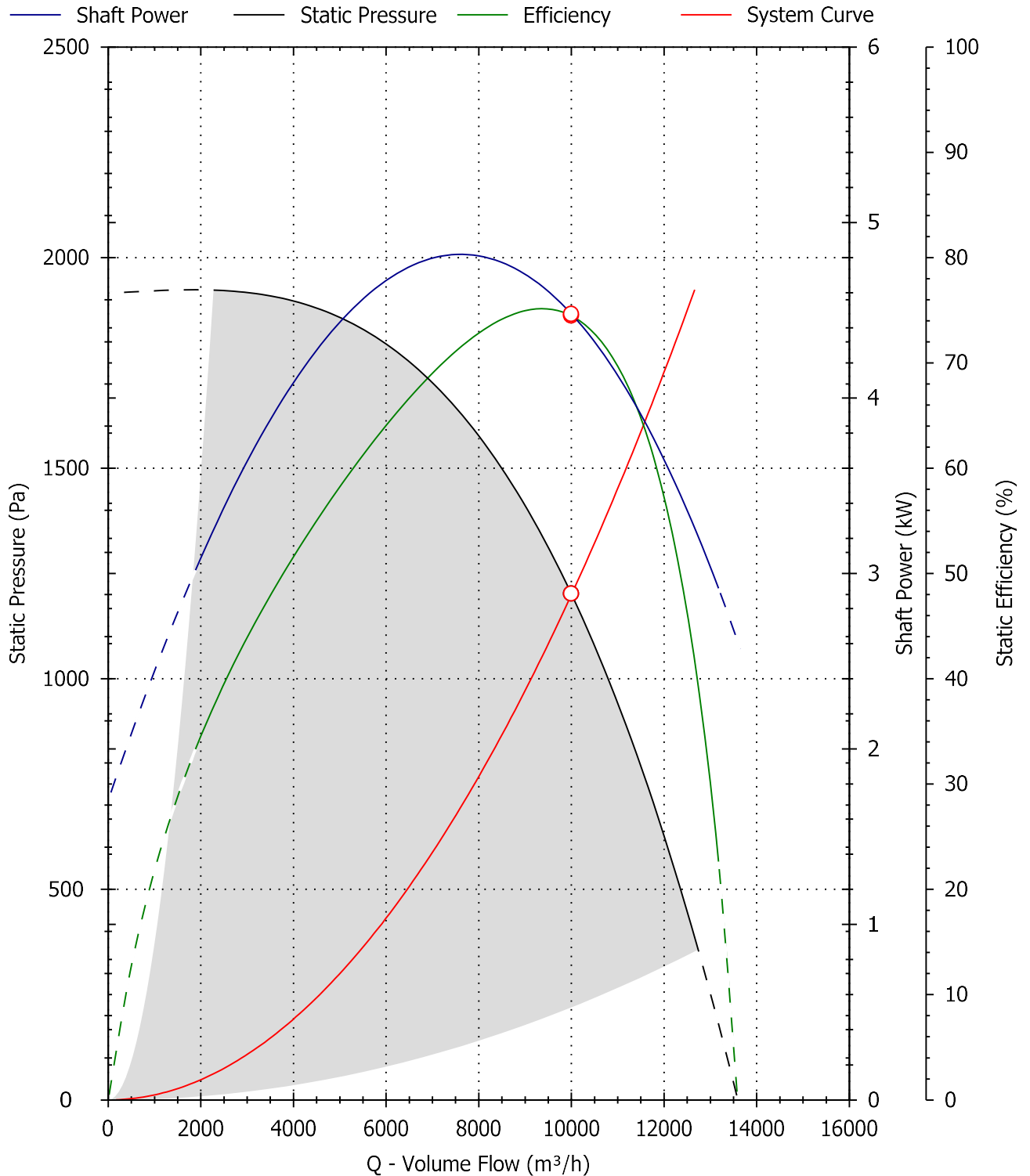


A	B	C	D	E	F	G	H	I	J	K	L	M	Weight
728	4.5	700	505	536	589	630	682	200	256	50	350	323	106 Kg



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ErP Compliance

η [%]	MC	EC	N	VSD	Marca	REF
75,2	A	S	N72	+	S&P	-
[kW]	[m3/h]	[Pa]	RPM	SR		
5,159	9.412	1.326	2614	1		

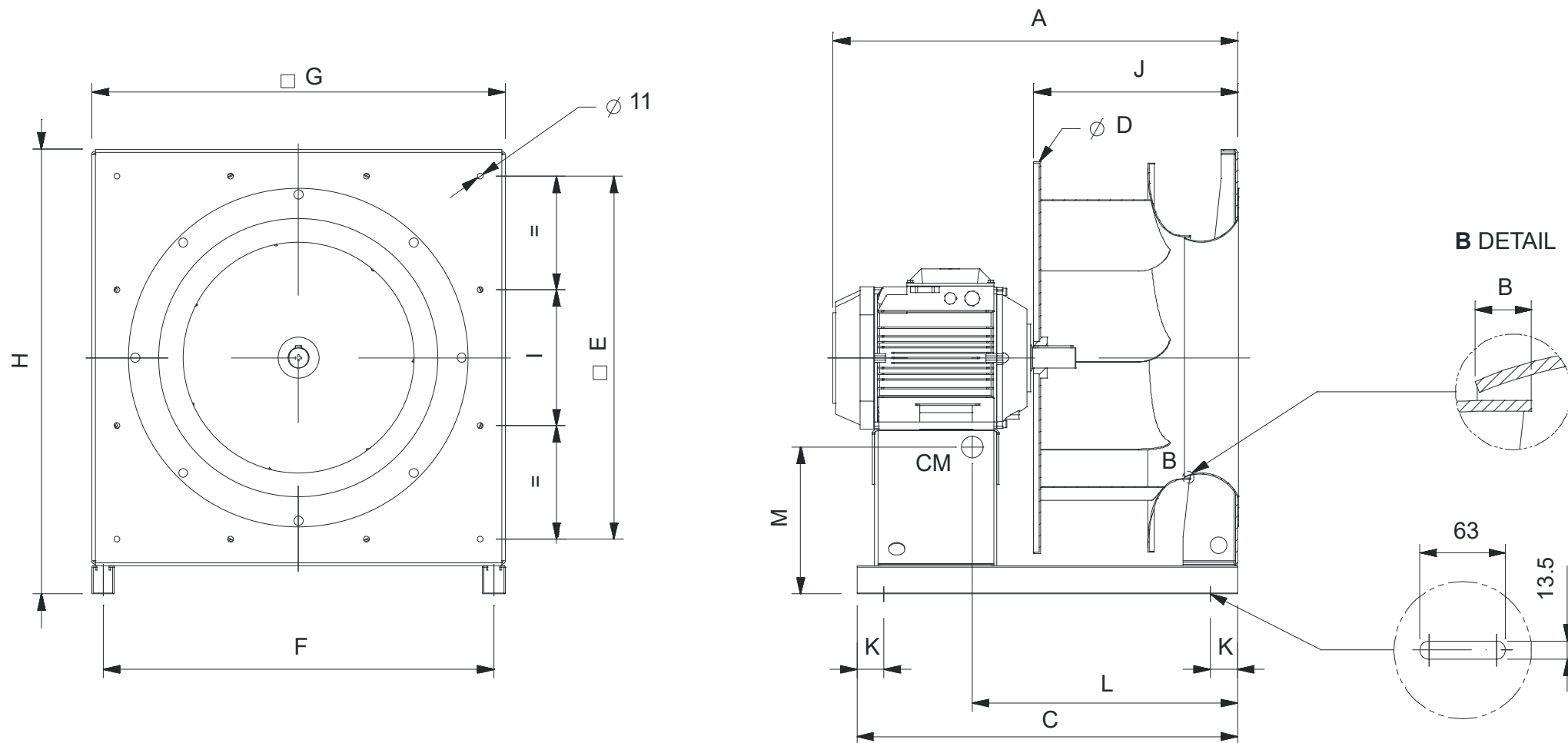
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Lwi(A)	70	66	81	91	92	88	87	79	96 dB(A)
Lpi(A)	60	56	71	80	82	78	77	69	86 dB(A)

* Sound data is for the inlet side * Sound Pressure Level 1,5m, Room Conditions



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