



OLMO

Catalogue

A story that
started 80 years ago.
Ready for the next
chapter?

2021



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OLMO

a story that started 80 years ago

About us

OLMO was founded in **1940** in the Milan area as a manufacturer of motors for commercial refrigeration. In the early '90s the OLMO brand was globally recognized.

In the late 1990 the EFC Group purchased OLMO, in the years leading up to this takeover OLMO had an impressive range of motors, fan and blowers and an enviable reputation for product quality.

In 2020 the brand has been relaunched on the international market by the Colombo family with the introduction of new generation motors.



Managing Director
& Founder

Luciano Colombo

«The Colombo family has been producing and developing electric and electronic motors for the Italian and International markets for over three generations. Our business is a family business.

In the 90s I believed and sponsored the first investment on an electronic motor (EC motor energy saving) considering that this type of technology could be revolutionary compared to the old shaded pole motors. Since then, this solution has caught on among the customers and has revolutionized the market. The relaunch of OLMO is our new challenge.

We are making big investments in the R&D field. This will allow us to put on the market new and innovative solutions that our customers will certainly appreciate. Our idea to abandon the production of our old shaded pole motors, originates from here.

The investments will be needed to keep in step with the times or even to get ahead of them...»

Our vision

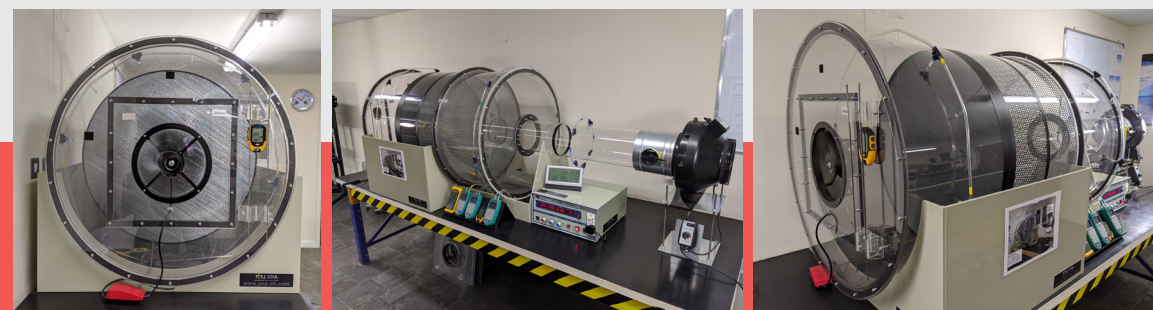
shaded pole
motors
are now only
history

Today, many commercial refrigeration applications still use shaded-pole motors, which consume a lot of energy, have low efficiency and high environmental impact.

OLMO made a strategic decision to help the market switch into the new electronic motors abandoning the production of the obsoleted generation product to:

- Achieve efficiency up to 70% with lower energy consumption. The investment in electronic motors is recovered in 6 months of use, thanks to less energy consumption and heat released in the environment.
- Bring benefits to the environment. Electronic motors significantly reduce the production of CO2.
- Help the customer to achieve the energy standards necessary to comply with European regulations.
- Find innovative solution working on intelligent control for speed variation, locked-rotor and overload protection.

Our mission



Our engineers are engaged every day to study, design and test new solutions to make our products more and more eco-friendly, with better performance and reduced CO2 emission. OLMO's goal is to always be one step ahead of the market needs in order to better satisfy our customers, working in an innovative way to ensure energy savings of 70% compared to old solutions still in the market.

the best solution for commercial refrigeration



In our laboratory and in those of specialized partners we carry out the most complete tests to guarantee the best product to our customers: aeraulic tests, detailed analysis of performance and energy saving, noise level tests.

The tests are carried out to stress our products to the maximum, trying to validate them also through exhausting life tests.

EC072

energy saving and
environmental
friendly

Our Products

OLMO is engaged with passion and dedication to bring best solutions to the commercial refrigeration market, focusing on **technological innovation** and on the **achievement of high quality standards** to better meet the customers

requirements. Our attention in the development and design of motors drives us to constantly seek new solutions that can improve efficiency, **optimize energy consumption** and **reduce noise**.

EC072 compact form factor has been **specially designed for the commercial refrigeration** market and can be easily placed in any type of application.

The small dimensions and mounting options enable simple replacement without changes, structure modifications or any other extra effort.

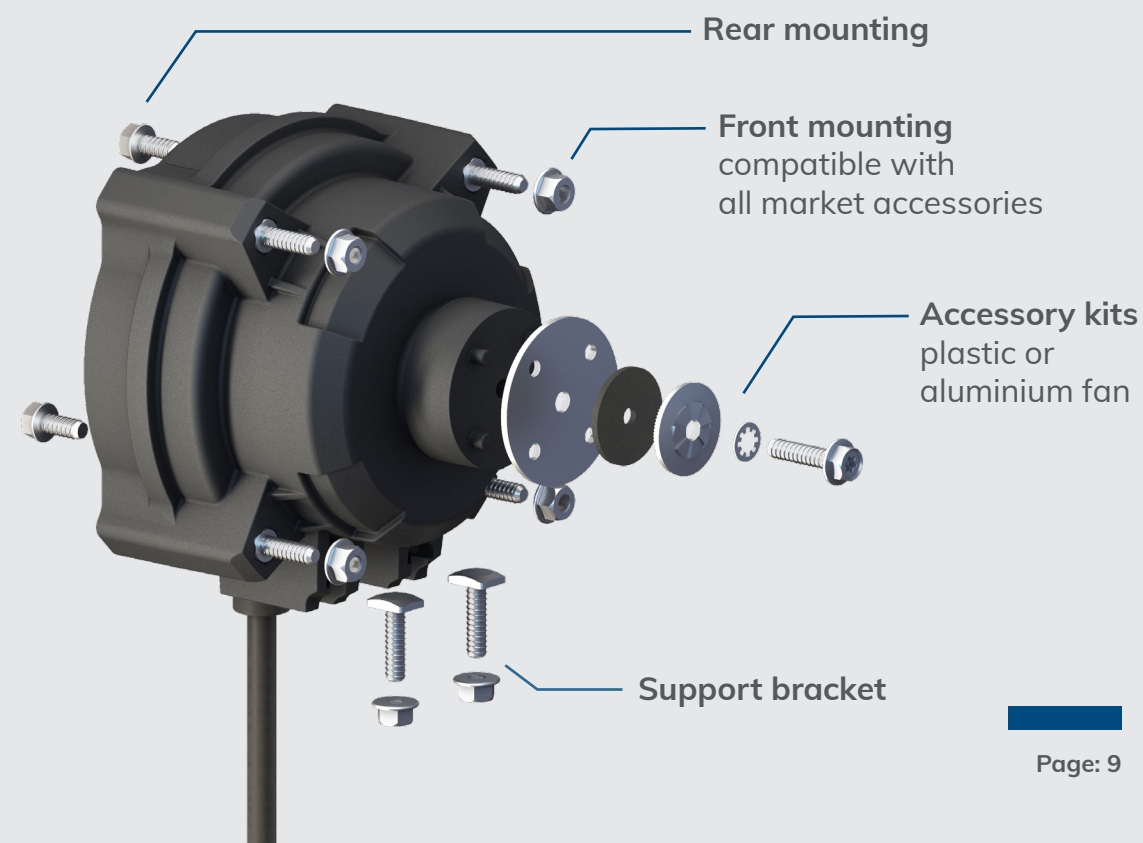
- **Versatility:** EC072 has all the fixing used in the market, with rear threaded holes, front ring or metal grille fixed in front of the motor by means of threaded screws and its strength lies in the fixing bracket with special screws;

- **Integrated Feet:** the integrated feet allow a quick and easy fixing in place of the traditional motors installed;

- **Accessories:** The accessories are housed in the front part by means of a plastic adapter and fixed with an M4 screw. The fixing has an anti-unscrewing and anti-skid system.

- **Just one design** is compatible with the entire range of impellers from Ø154 to Ø300.

overview



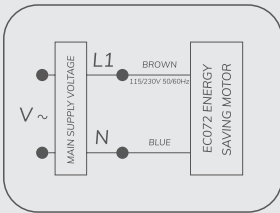


Description

Electric diagram

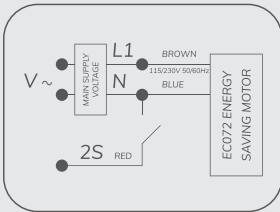
EC072FS

Speed pre-set by OLMO.



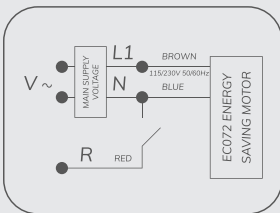
EC072DS

2 speeds pre-set by OLMO



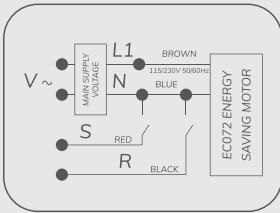
EC072RS

Reversible



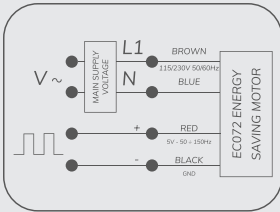
EC072RDS

2 speeds pre-set by OLMO plus reversable speed



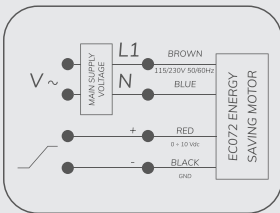
EC072VS

Full control in frequency



EC072VD

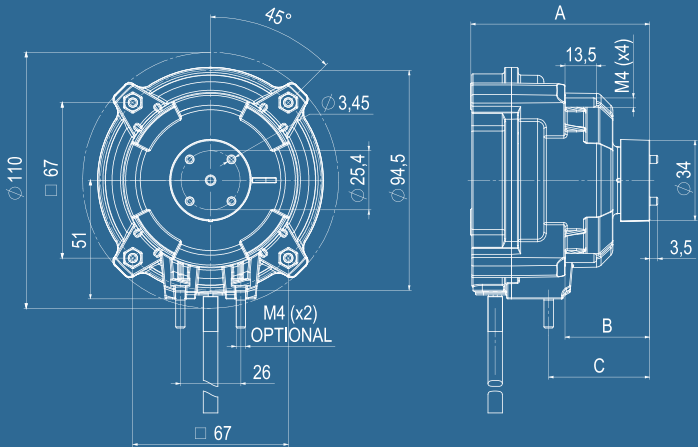
Full control 0 – 10 Vdc.



EC072 Electronic Motor



TECHNICAL DATA



MEASURES

TYPE	A	B	C
EC072 H.12	77	36,5	43,5
EC072 H.20	85	36,5	43,5

GENERAL DATA

SPECIFICATIONS

	EC072 H.12	EC072 H.20
Input Voltage range	230V±10%, 50/60Hz 115V±10%, 50/60Hz 100V/240V, 50/60Hz	230V±10%, 50/60Hz 115V±10%, 50/60Hz 100V/240V, 50/60Hz
Output power range	From 5 to 13W	From 13 to 20W
Speed range	900-1850 Rpm	900-1850 Rpm
Max. Input power	20W	30W
Max. Input power	150mA	220mA
EMC Protection / Noise	EN61000-6-2 / UNI EN ISO 3741	EN61000-6-2 / UNI EN ISO 3741
Covers / IP Rating	Plastic / IP64	Plastic / IP64
Thermal Protection	Electronic Protection	Electronic Protection
Software Protection	Locked Rotor	Locked Rotor
Operating Temp. range	-30°C / +50°C	-30°C / +50°C
Weight	0,5 kg	0,7 kg
Certifications	CE, ATEX	CE, ATEX

Type: EC072 H.12

Type: EC072 H.20

900 Rpm

1300 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
906	0,066	0,018	2,12	0,61	29,0
906	0,100	0,020	2,53	0,93	36,8
906	0,200	0,029	3,83	1,86	48,6
906	0,300	0,039	5,33	2,79	52,4
906	0,400	0,050	6,95	3,72	53,6
906	0,500	0,063	8,85	4,65	52,6
906	0,600	0,078	10,77	5,58	51,8
906	0,700	0,092	13,04	6,51	49,9
906	0,800	0,108	15,42	7,44	48,3
903	0,900	0,128	18,01	8,35	46,3
780	0,9050	0,124	17,27	7,25	42,0
683	0,910	0,121	16,62	6,38	38,4
550	0,913	0,115	15,66	5,16	32,9

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1304	0,068	0,022	2,67	0,91	34,1
1305	0,100	0,025	3,23	1,34	41,5
1305	0,200	0,036	4,86	2,68	55,2
1305	0,300	0,048	6,75	4,02	59,6
1305	0,400	0,063	8,94	5,36	60,0
1305	0,500	0,078	11,07	6,70	60,5
1305	0,600	0,094	13,55	8,04	59,3
1305	0,700	0,112	16,15	9,38	58,1
1280	0,800	0,133	18,91	10,52	55,6
1185	0,850	0,138	19,65	10,34	52,6
800	0,900	0,127	17,57	7,39	42,1

900 Rpm

1300 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
901	0,042	0,019	2,10	0,39	18,5
901	0,100	0,025	2,82	0,93	32,8
901	0,200	0,033	4,15	1,85	44,6
901	0,300	0,046	5,51	2,78	50,4
901	0,400	0,053	7,11	3,70	52,1
901	0,500	0,064	8,75	4,63	52,9
901	0,600	0,078	10,62	5,55	52,3
901	0,700	0,093	12,67	6,48	51,1
901	0,800	0,108	14,84	7,40	49,9
901	0,900	0,126	17,08	8,33	48,8
901	1,0000	0,141	19,46	9,25	47,6
901	1,100	0,166	22,30	10,18	45,6
901	1,200	0,189	25,00	11,10	44,4
901	1,300	0,210	26,85	12,03	44,8
850	1,287	0,209	26,40	11,23	42,6
800	1,287	0,209	25,50	10,57	41,5

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1301	0,057	0,025	2,86	0,76	26,6
1301	0,100	0,029	3,53	1,34	37,9
1301	0,200	0,039	5,12	2,67	52,2
1301	0,300	0,051	6,93	4,01	57,8
1301	0,400	0,064	8,86	5,34	60,3
1301	0,500	0,078	11,00	6,68	60,7
1301	0,600	0,093	13,03	8,02	61,5
1301	0,700	0,110	15,38	9,35	60,8
1301	0,800	0,129	17,84	10,69	59,9
1301	0,900	0,149	20,33	12,03	59,1
1301	1,000	0,170	23,13	13,36	57,8
1301	1,100	0,199	26,34	14,70	55,8
1300	1,150	0,214	28,42	15,35	54,0
1275	1,160	0,214	28,78	15,19	52,8
1210	1,200	0,218	28,85	14,91	51,7
1000	1,298	0,220	27,83	13,33	47,9

1400 Rpm

1850 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1405	0,069	0,022	2,78	1,00	35,8
1405	0,100	0,026	3,31	1,44	43,6
1405	0,200	0,038	5,13	2,89	56,3
1405	0,300	0,051	7,14	4,33	60,6
1405	0,400	0,066	9,27	5,77	62,3
1405	0,500	0,082	11,61	7,21	62,1
1405	0,600	0,100	14,35	8,66	60,3
1378	0,700	0,123	17,02	9,91	58,2
1300	0,800	0,137	19,05	10,68	56,1
1190	0,850	0,144	19,58	10,39	53,1
825	0,900	0,127	17,54	7,63	43,5

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1856	0,070	0,030	3,69	1,33	36,2
1855	0,100	0,033	4,26	1,91	44,7
1855	0,200	0,050	6,70	3,81	56,9
1855	0,300	0,066	9,05	5,72	63,2
1728	0,400	0,079	11,10	7,10	64,0
1635	0,450	0,085	12,16	7,56	62,1
1570	0,500	0,092	13,05	8,06	61,8
1510	0,550	0,100	14,26	8,53	59,8
1460	0,600	0,105	15,11	9,00	59,5
1395	0,650	0,112	16,30	9,31	57,1
1375	0,7000	0,122	17,40	9,88	56,8
1305	0,800	0,134	19,19	10,72	55,9
1197	0,850	0,139	19,95	10,45	52,4
1010	0,880	0,133	18,94	9,13	48,2

1400 Rpm

1850 Rpm

Rpm	Tq	A	W _{in}	W _{out}	Eff %
1401	0,051	0,025	2,82	0,73	26,0
1401	0,100	0,032	3,58	1,44	40,2
1401	0,200	0,043	5,35	2,88	53,8
1401	0,300	0,054	7,32	4,32	59,0
1401	0,400	0,069	9,47	5,76	60,8
1401	0,500	0,083	11,72	7,19	61,4
1401	0,600	0,100	14,05	8,63	61,4
1401	0,700	0,120	16,53	10,07	60,9
1401	0,800	0,141	19,23	11,51	59,9
1401	0,900	0,162	22,05	12,95	58,7
1401	1,000	0,190	25,23	14,39	57,0
1355	1,050	0,201	26,40	14,61	55,3
1325	1,100	0,207	27,37	14,97	54,7
1150	1,230	0,227	29,02	14,53	50,1
1000	1,275	0,222	27,91	13,09	46,9
900	1,285	0,218	26,87	11,88	44,2

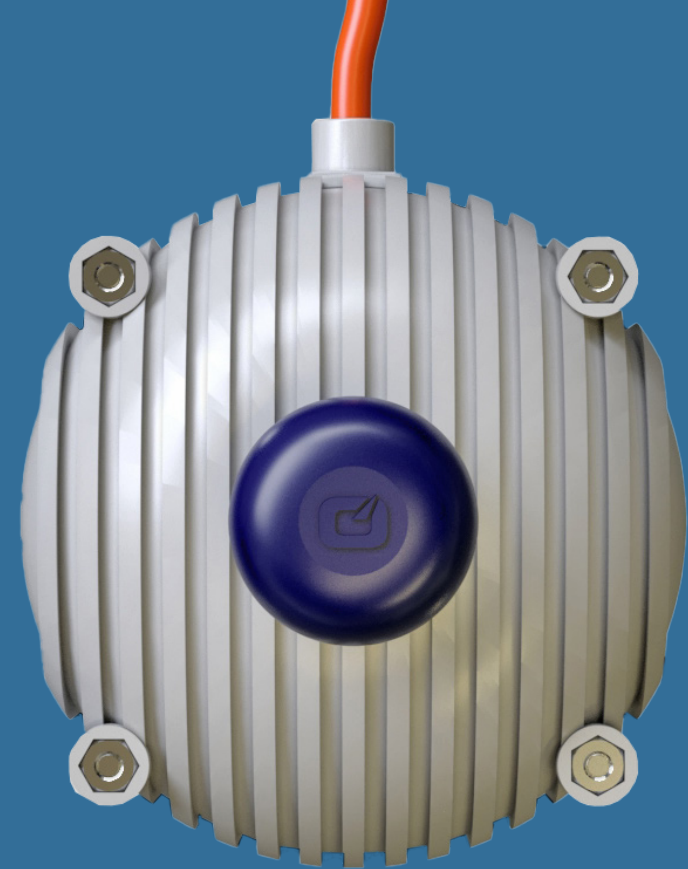
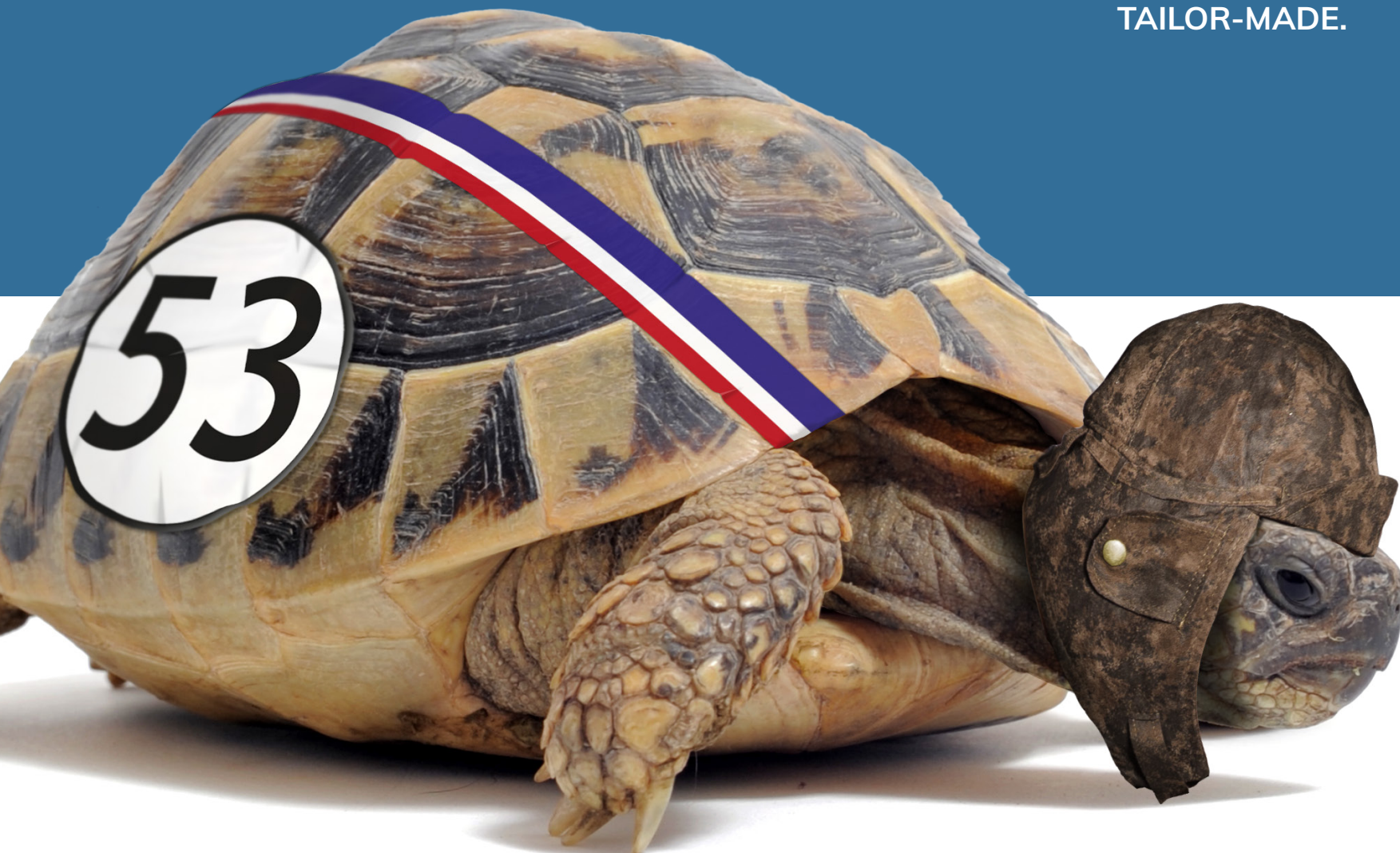
Rpm	Tq	A	W _{in}	W _{out}	Eff %
1856	0,045	0,031	3,50	0,86	24,5
1855	0,100	0,038	4,80	1,91	39,7
1855	0,200	0,054	7,00	3,81	54,4
1855	0,300	0,072	10,10	5,72	56,6
1855	0,400	0,090	12,66	7,62	60,2
1855	0,500	0,109	15,13	9,53	63,0
1855	0,600	0,128	18,07	11,43	63,3
1835	0,650	0,142	19,35	12,25	63,3
1755	0,700	0,150	20,39	12,62	61,9
1635	0,800	0,161	22,14	13,43	60,7
1530	0,9000	0,178	23,97	14,14	59,0
1430	1,000	0,193	26,07	14,69	56,3
1325	1,100	0,212	27,64	14,97	54,2
1185	1,200	0,223	28,70	14,60	50,9
1025	1,250	0,225	28,02	13,16	47,0

READY, STEADY...

GO!

YOU NEED THE RIGHT SPEED.

YOU BETTER CHOOSE OLMO!



KEY WORDS?
FLEXIBILITY AND
TAILOR-MADE.

The solutions offered by OLMO are extremely flexibles. We want to fulfill our customers' specific needs, committing to their philosophy and to the latest market trends.

OLMO aims to the maximum attention to detail trying to offer customized elements.

OLMO invested in innovative technologies, destined to improve consistently the performance of its products, optimizing energy consumption and fully respecting the environment.



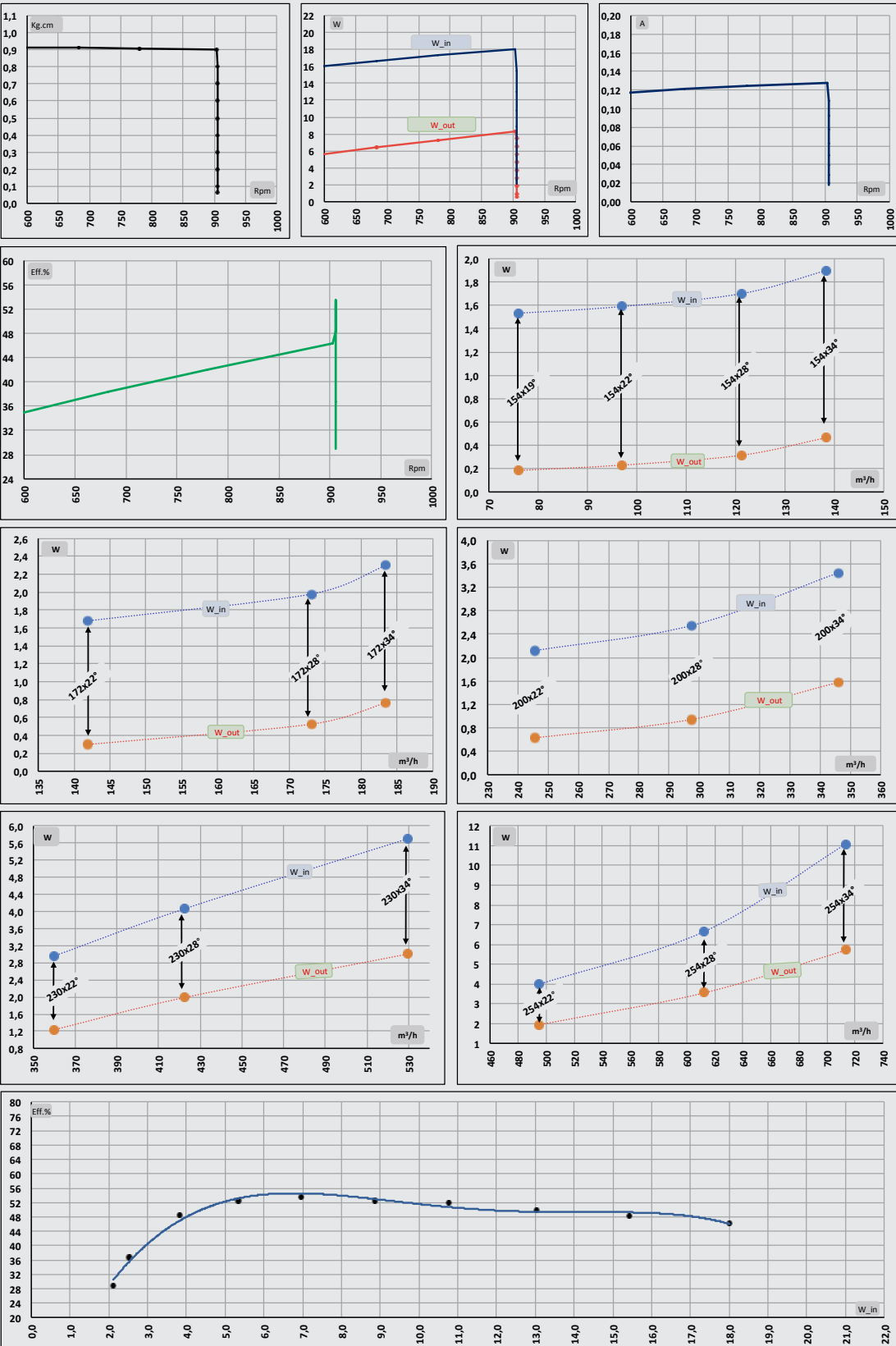
Motor type

EC072 H.12



900 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m ³ /h
EC072 H.12	154	19°	12,2	1,53	0,18	0,545	900	76
		22°	12,6	1,59	0,23	0,549	900	97
		28°	13,6	1,70	0,31	0,543	900	121
		34°	14,6	1,90	0,47	0,566	900	138
	172	22°	12,8	1,68	0,30	0,571	900	142
		28°	15,3	1,98	0,53	0,563	900	173
		34°	17,5	2,30	0,76	0,571	900	187
	200	22°	16,2	2,12	0,63	0,569	900	246
		28°	19,0	2,55	0,95	0,584	900	298
		34°	24,9	3,45	1,58	0,602	900	346
	230	22°	22,0	2,95	1,23	0,583	900	360
		28°	29,3	4,06	1,99	0,602	900	422
		34°	40,5	5,70	3,01	0,612	900	530
	254	22°	27,8	3,99	1,94	0,624	900	495
		28°	48,2	6,66	3,55	0,601	900	613
		34°	80,1	11,07	5,70	0,601	900	713

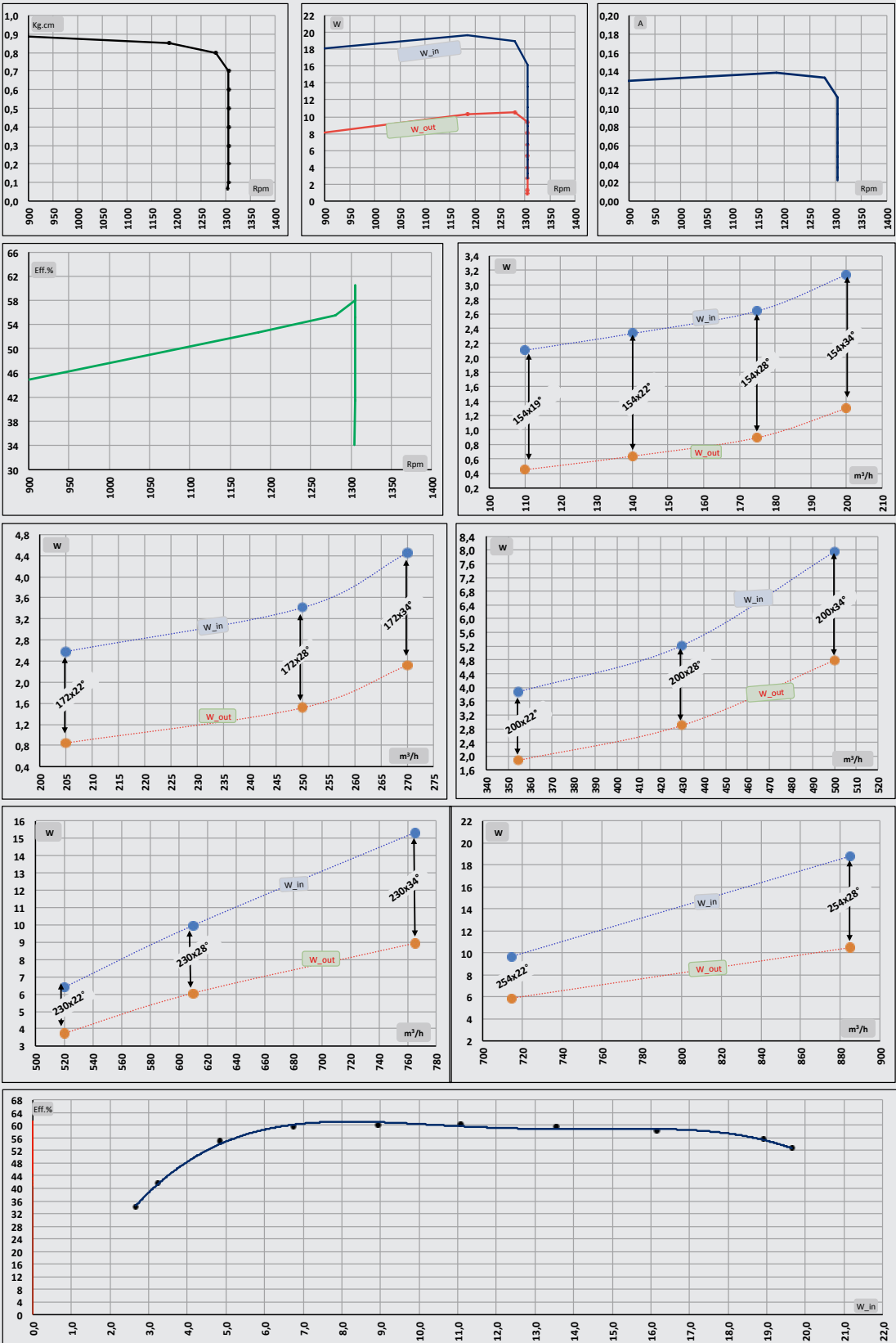


Motor type
EC072 H.12



1300 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m ³ /h
EC072 H.12	154	19°	15,6	2,10	0,45	0,585	1300	110
		22°	17,4	2,33	0,64	0,582	1300	140
		28°	19,1	2,64	0,89	0,601	1300	175
		34°	22,8	3,14	1,30	0,599	1300	200
	172	22°	18,3	2,58	0,84	0,613	1300	205
		28°	25,0	3,41	1,51	0,593	1300	250
		34°	32,1	4,45	2,32	0,603	1300	270
	200	22°	28,1	3,87	1,87	0,599	1300	355
		28°	36,5	5,22	2,89	0,622	1300	430
		34°	54,1	7,95	4,79	0,639	1300	500
	230	22°	45,2	6,40	3,74	0,616	1300	520
		28°	68,8	9,96	6,05	0,629	1300	610
		34°	104,5	15,33	8,94	0,638	1300	765
	254	22°	63,9	9,69	5,89	0,659	1300	715
		28°	128,1	18,81	10,49	0,638	1300	885

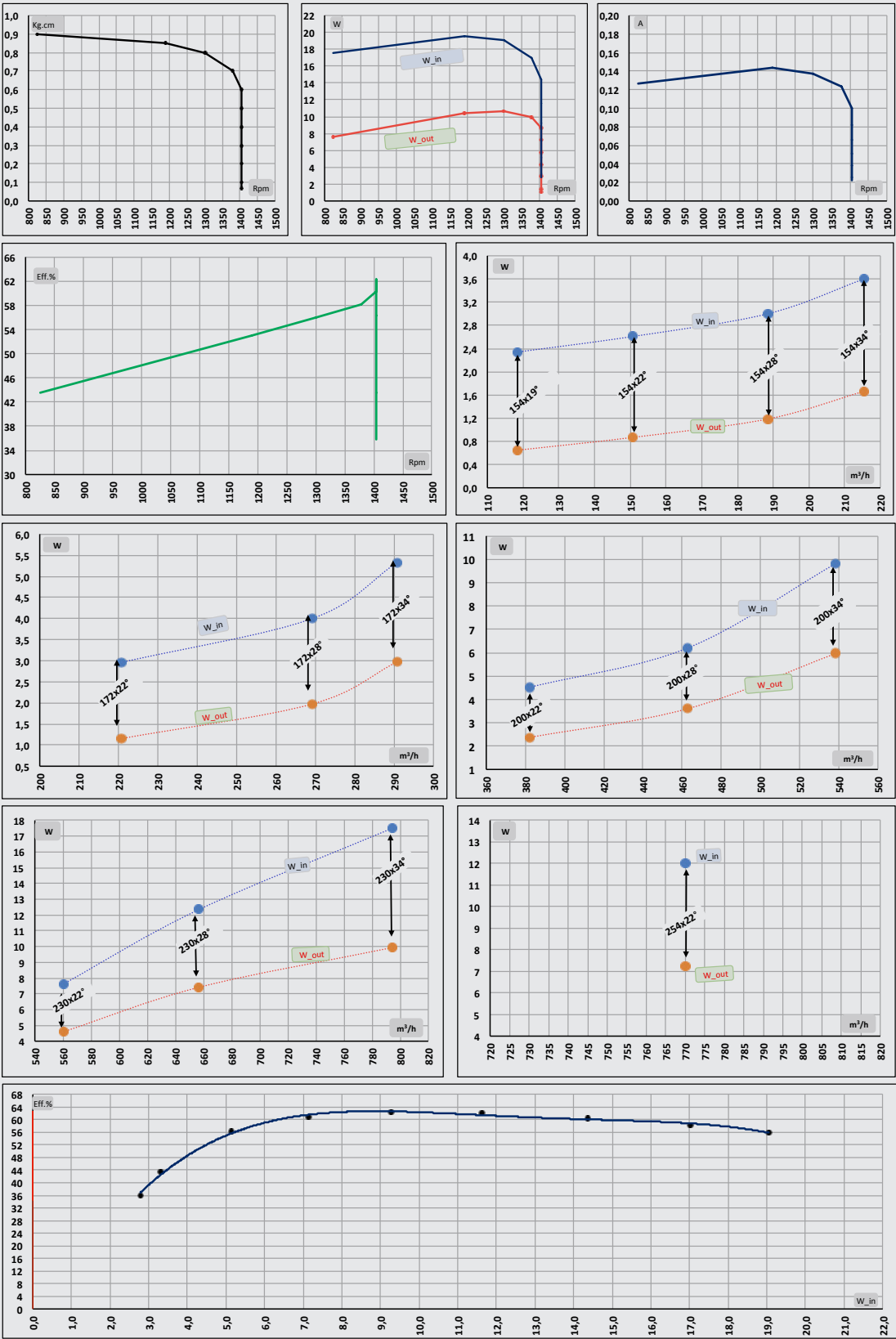


Motor type
EC072 H.12



1400 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m ³ /h
EC072 H.12	154	19°	17,1	2,34	0,65	0,595	1400	118
		22°	19,0	2,61	0,87	0,597	1400	151
		28°	21,0	3,00	1,19	0,621	1400	188
		34°	25,3	3,60	1,66	0,619	1400	215
	172	22°	20,5	2,96	1,15	0,628	1400	221
		28°	28,6	4,00	1,97	0,608	1400	269
		34°	37,8	5,33	2,97	0,613	1400	291
	200	22°	32,1	4,52	2,37	0,612	1400	382
		28°	43,0	6,21	3,61	0,628	1400	463
		34°	65,9	9,82	5,97	0,648	1400	538
	230	22°	53,3	7,62	4,57	0,622	1400	560
		28°	82,5	12,35	7,42	0,651	1400	657
		34°	118,8	17,50	9,93	0,640	1350	794
	254	22°	79,1	12,00	7,23	0,660	1400	770



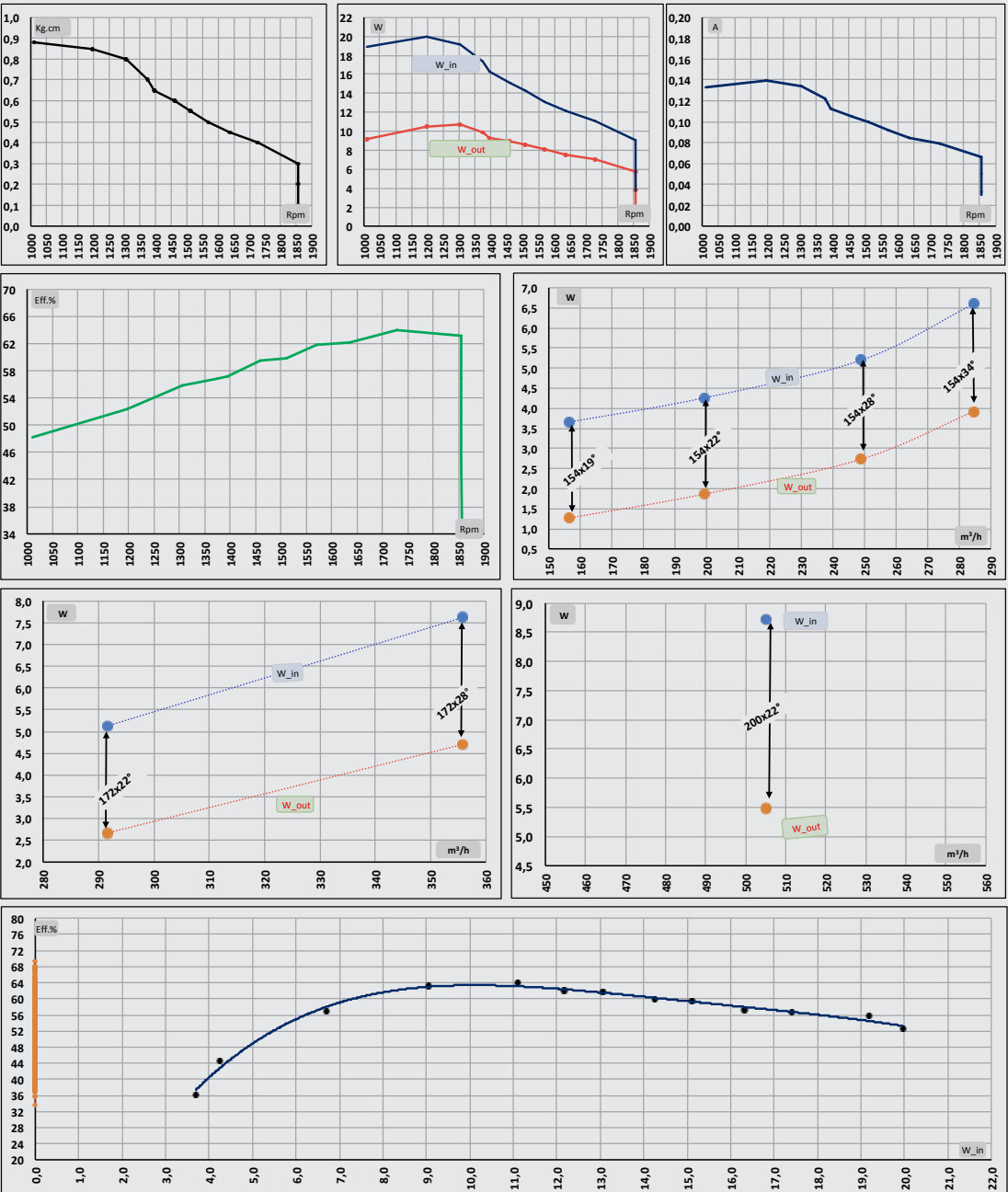
Motor type

EC072 H.12



1850 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m ³ /h
EC072 H.12	154	19°	25,3	3,65	1,26	0,627	1850	157
		22°	29,5	4,26	1,86	0,628	1850	199
		28°	36,0	5,20	2,73	0,628	1850	249
	172	34°	44,6	6,60	3,92	0,643	1850	285
		22°	33,8	5,13	2,67	0,660	1850	292
	172	28°	52,2	7,62	4,70	0,635	1850	356
	200	22°	60,3	8,72	5,48	0,629	1850	505

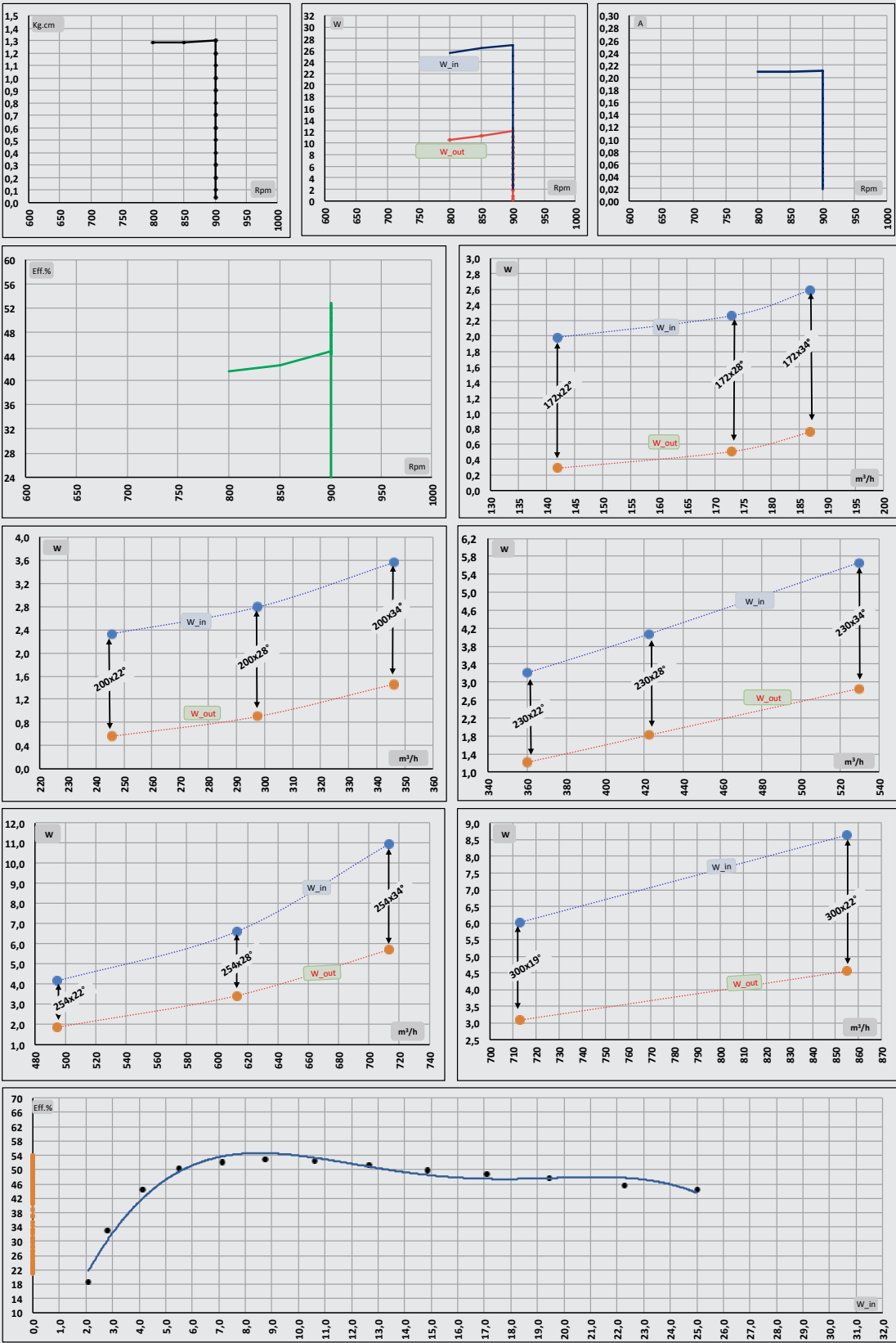


Motor type
EC072 H.20



900 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m³/h
EC072 H.20	172	22°	15,7	1,98	0,29	0,548	900	142
		28°	18,3	2,26	0,50	0,537	900	173
		34°	21,2	2,59	0,75	0,531	900	187
	200	22°	18,7	2,33	0,56	0,542	900	246
		28°	22,9	2,79	0,90	0,530	900	298
		34°	27,9	3,56	1,46	0,555	900	346
	230	22°	24,7	3,20	1,20	0,563	900	360
		28°	31,2	4,07	1,82	0,567	900	422
		34°	44,4	5,66	2,85	0,554	900	530
	254	22°	32,3	4,15	1,87	0,559	900	495
		28°	50,1	6,61	3,43	0,574	900	613
		34°	79,1	10,95	5,71	0,602	900	713
	300	19°	46,7	6,02	3,08	0,560	900	713
		22°	62,2	8,64	4,56	0,604	900	855

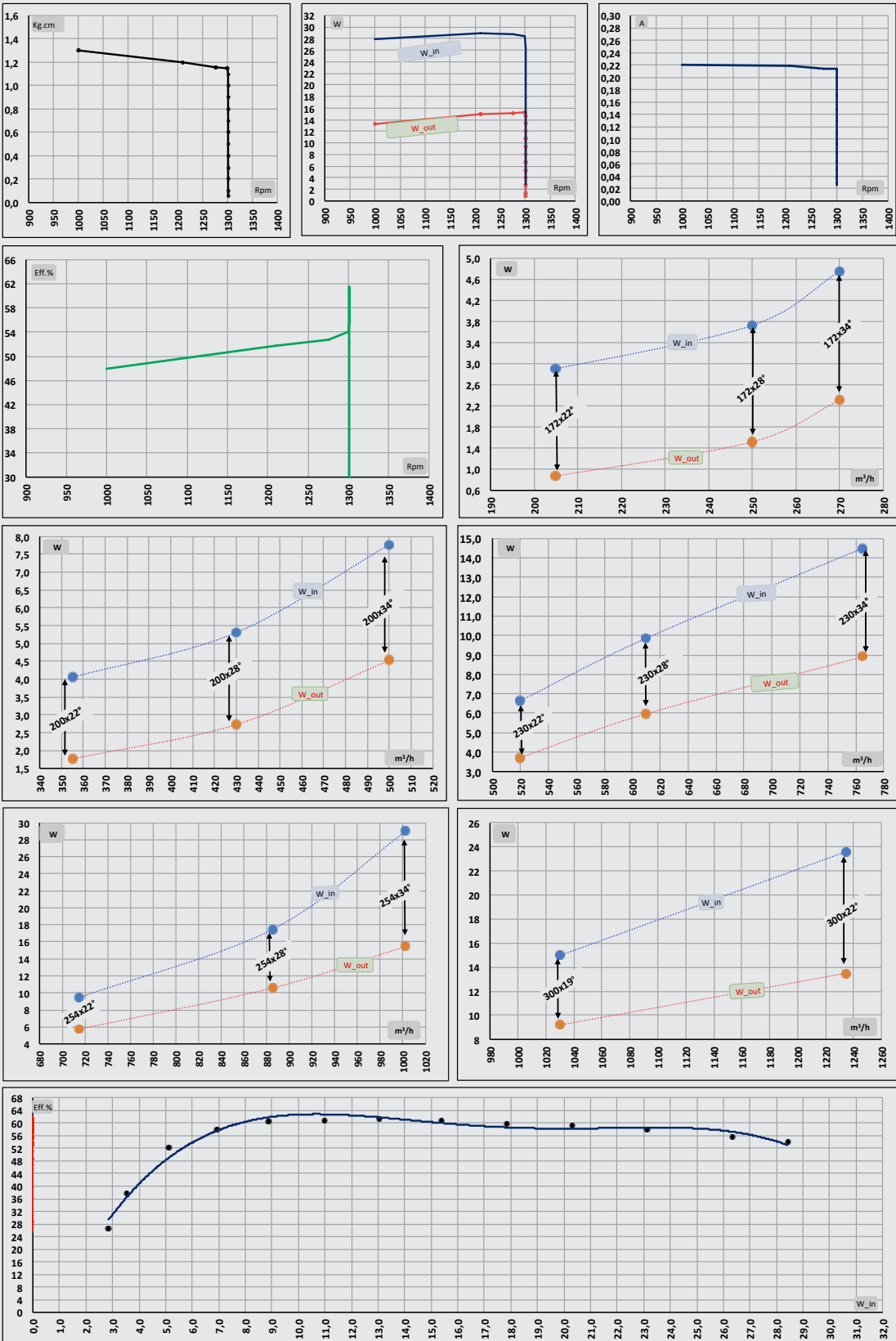


Motor type
EC072 H.20



1300 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m ³ /h
EC072 H.20	172	22°	22,4	2,90	0,87	0,563	1300	205
		28°	28,7	3,73	1,52	0,565	1300	250
		34°	35,8	4,76	2,31	0,578	1300	270
	200	22°	30,7	4,05	1,77	0,574	1300	355
		28°	40,1	5,31	2,73	0,576	1300	430
		34°	56,3	7,77	4,53	0,600	1300	500
	230	22°	47,8	6,64	3,71	0,604	1300	520
		28°	68,6	9,86	5,97	0,625	1300	610
		34°	100,9	14,49	8,90	0,625	1300	765
	254	22°	66,6	9,46	5,70	0,618	1300	715
		28°	121,2	17,46	10,58	0,626	1300	88 5
		34°	206,9	28,99	15,45	0,609	1265	1002
	300	19°	103,8	14,95	9,17	0,626	1300	1030
		22°	167,1	23,62	13,51	0,615	1300	1235

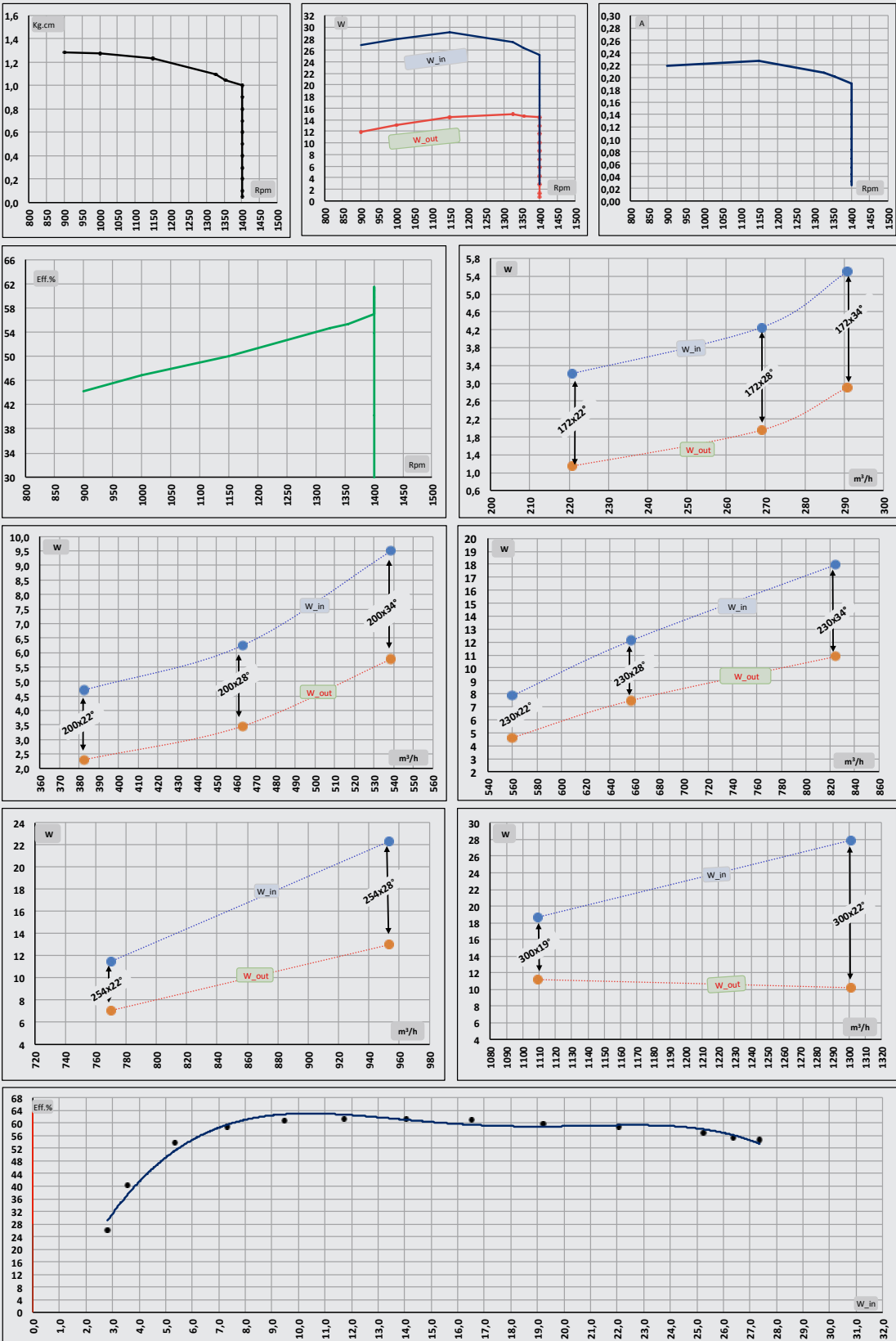


Motor type
EC072 H.20



1400 Rpm

			mA	W _{in}	W _{out}	cos φ	Rpm	m³/h
EC072 H.20	172	22°	24,7	3,22	1,14	0,567	1400	221
		28°	32,0	4,26	1,96	0,579	1400	269
		34°	41,0	5,50	2,90	0,583	1400	291
	200	22°	35,0	4,70	2,30	0,584	1400	382
		28°	46,4	6,24	3,46	0,585	1400	463
		34°	66,6	9,49	5,76	0,620	1400	538
	230	22°	56,1	7,84	4,62	0,608	1400	560
		28°	84,5	12,10	7,48	0,623	1400	657
		34°	125,8	17,94	10,87	0,620	1400	824
	254	22°	78,8	11,45	7,06	0,632	1400	770
		28°	155,1	22,32	12,99	0,626	1400	953
	300	19°	129,2	18,63	11,22	0,627	1400	1109
		22°	195,0	27,93	10,20	0,623	1370	1302

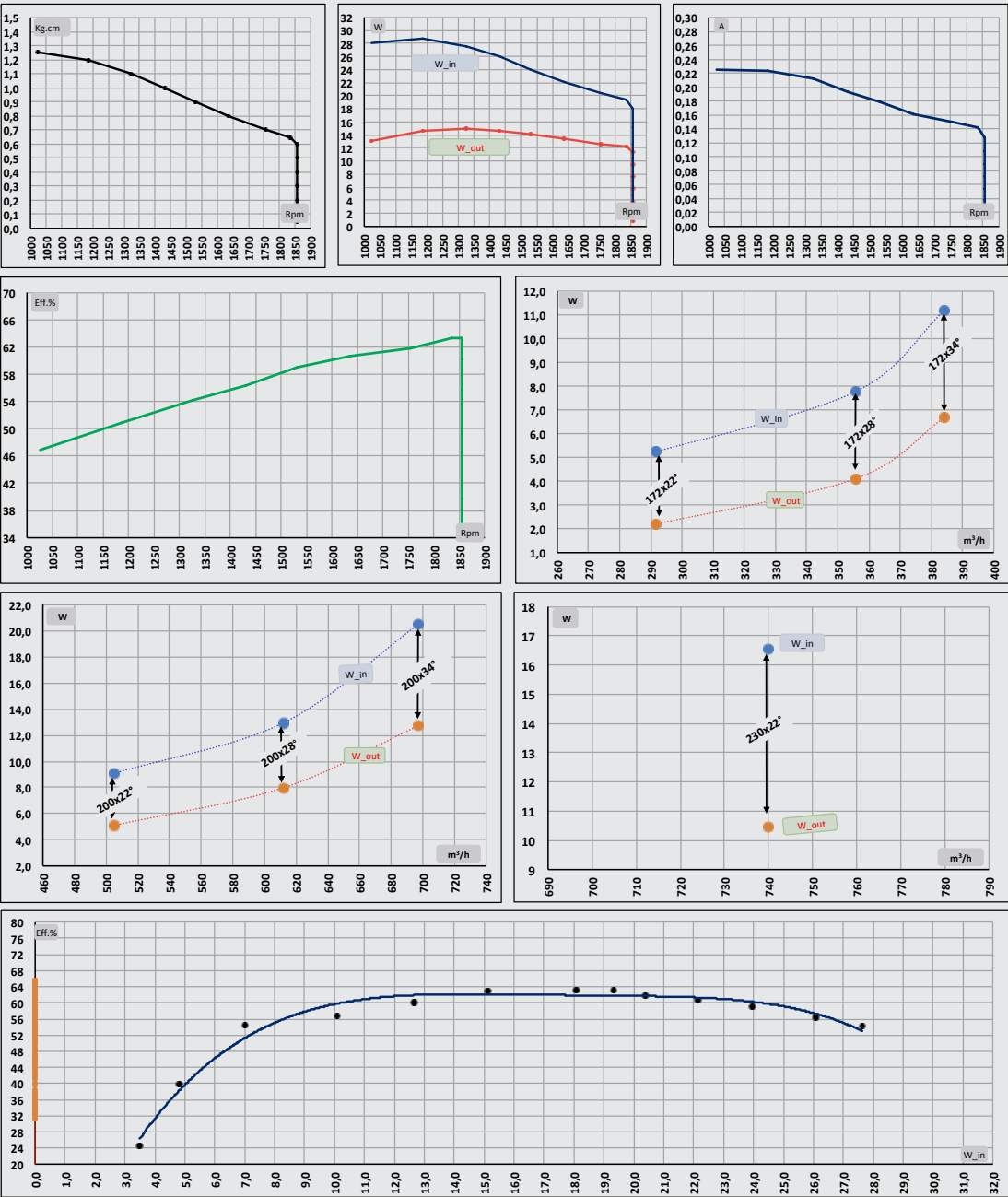


Motor type

EC072 H.20

1850 Rpm

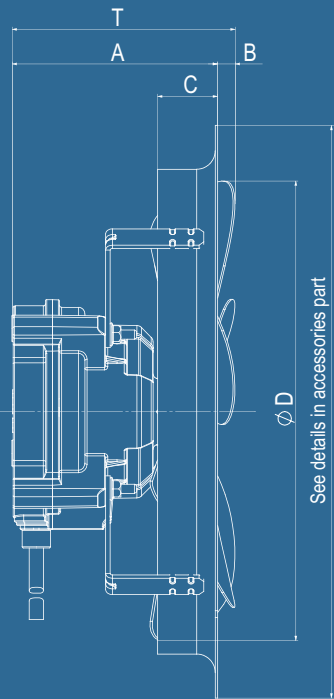
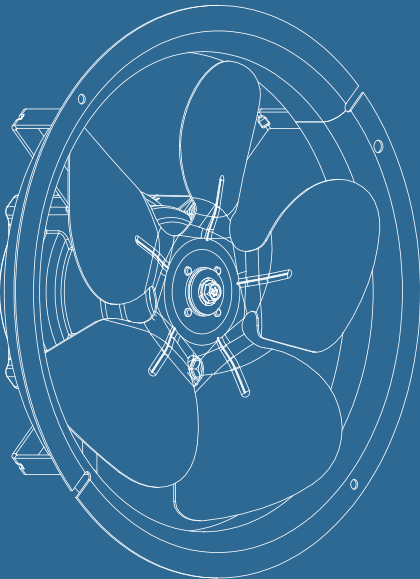
			mA	W _{in}	W _{out}	cos φ	Rpm	m³/h
EC072 H.20	172	22°	38,7	5,23	2,21	0,588	1850	292
		28°	55,7	7,78	4,11	0,607	1850	356
		34°	80,7	11,20	6,69	0,603	1850	384
	200	22°	64,2	9,09	5,11	0,616	1850	505
		28°	91,2	12,95	7,98	0,617	1850	612
		34°	141,7	20,47	12,71	0,628	1812	697
	230	22°	116,1	16,56	10,46	0,620	1850	740



EC072 Axial Fan Motor

Axial Fan Motor EC072

TECHNICAL DATA



The 5 blades axial fans are aluminium models in the following Ø154 to Ø300. Pitches available from 19° up to 34°. Steel rings painted.



FAN MOTOR

EC072 H.12

Ø FAN D	PICTH α	A	B	T	C
154	19	89	2,5	91,5	25
	22		4,5	93,5	
	28		6,5	95,5	
	34		10,5	99,5	
172	22	89	4,5	93,5	26
	28		6,5	95,5	
	34		10,5	99,5	
200	22	89	4,5	93,5	26
	28		7,5	96,5	
	34		12,5	101,5	
230	22	89	9,5	98,5	26
	28		13,5	102,5	
	34		18,5	107,5	
254	22	89	9,5	98,5	26
	28		11,5	100,5	
	34		19,5	108,5	

FAN MOTOR

EC072 H.20

Ø FAN D	PICTH α	A	B	T	C
154	19	101	2,5	103,5	25
	22		4,5	105,5	
	28		6,5	107,5	
	34		10,5	111,5	
172	22	101	4,5	105,5	26
	28		6,5	107,5	
	34		10,5	111,5	
200	22	101	4,5	105,5	26
	28		7,5	108,5	
	34		12,5	113,5	
230	22	101	9,5	110,5	26
	28		13,5	114,5	
	34		18,5	119,5	
254	22	101	9,5	110,5	26
	28		13,5	114,5	
	34		19,5	120,5	
300	19	101	12,5	114,5	26
	22		14,5	116,5	

Matching motor-fan

Here below there are all the matching available for motor & fan. You can find the performance results related to W, mA, and air flow.

EC072 H.12

230V-50Hz - Values @ Free Load With Ring

		900 Rpm				1000 Rpm				1100 Rpm				1200 Rpm				1300 Rpm				1400 Rpm			
		19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°
154	m³/h	76	96	121	138	84	110	134	153	93	118	148	169	101	129	161	184	110	140	175	200	118	150	188	215
	W	1.5	1.6	1.7	1.9	1.7	1.7	1.9	2.1	1.8	1.9	2.1	2.4	1.9	2.1	2.4	2.7	2.1	2.3	2.6	3.1	2.3	2.6	3.0	3.6
	mA	12.2	12.6	13.6	14.6	12.9	13.6	14.2	15.8	13.4	14.5	15.3	18.0	14.5	16.0	17.1	20.0	15.6	17.4	19.1	22.8	17.1	19.0	21.0	25.3
172	m³/h		141	173	186		157	192	207		173	211	228		189	230	249		205	250	270		220	269	290
	W		1.7	2.0	2.3		1.9	2.2	2.7		2.1	2.6	3.2		2.3	3.0	3.8		2.6	3.4	4.5		3.0	4.0	5.3
	mA		12.8	15.3	17.5		13.8	16.9	20.1		14.9	19.5	23.5		17.0	22.1	27.5		18.3	25.0	32.1		20.5	28.6	37.8
200	m³/h		245	297	346		273	330	384		300	363	423		327	396	461		355	430	500		382	463	538
	W		2.1	2.6	3.5		2.5	3.0	4.2		2.9	3.6	5.2		3.4	4.4	6.6		3.9	5.2	8.0		4.5	6.2	9.8
	mA		16.2	19.0	24.9		18.6	22.0	29.9		21.5	25.7	36.5		24.4	30.9	44.1		28.1	36.5	54.1		32.1	43.0	65.9
230	m³/h		360	422	529		400	469	588		440	516	647		480	563	706		520	610	765		560	656	794
	W		3.0	4.1	5.7		3.6	5.1	7.2		4.4	6.3	9.5		5.4	8.1	12.3		6.4	10.0	15.3		7.6	12.4	17.5
	mA		22.0	29.3	40.5		26.1	35.3	51.5		31.2	44.5	65.4		37.8	55.6	85.5		45.2	68.8	104.5		53.3	82.5	118.8
254	m³/h		495	612	713		550	680	792		605	748	859		660	816	859		715	885	860		770	885	860
	W		4.0	6.7	11.1		5.0	8.7	14.9		6.2	11.5	19.4		7.9	15.0	19.4		9.7	18.8	19.4		12.0	18.8	19.4
	mA		27.8	48.2	80.1		34.5	62.5	103.5		42.3	81.0	133.1		53.3	101.5	131.3		63.9	128.1	131.3		79.1	128.1	130.5

		1500 Rpm				1600 Rpm				1700 Rpm				1800 Rpm				1850 Rpm					
		19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°		
154	m³/h	126	161	201	230	135	172	215	246	143	183	228	261	152	193	242	276	156	199	249	284	m³/h	154
	W	2.6	2.9	3.3	4.1	2.8	3.2	3.8	4.6	3.1	3.6	4.3	5.2	3.5	4.0	4.8	6.0	3.7	4.3	5.2	6.6	W	
	mA	18.7	20.6	23.5	28.7	20.2	22.8	26.0	32.2	22.0	25.1	29.1	36.4	24.3	27.8	33.0	41.2	25.3	29.5	36.0	44.6	mA	
172	m³/h		236	288	311		252	307	332		268	326	353		283	346	369		291	355	369	m³/h	172
	W		3.3	4.6	6.3		3.7	5.2	7.3		4.2	6.1	8.6		4.9	7.1	9.8		5.1	7.6	9.8	W	
	mA		22.4	32.6	43.5		25.2	36.9	50.5		28.5	42.0	60.1		32.2	49.1	67.9		33.8	52.2	66.5	mA	
200	m³/h		409	496	576		436	529	596		464	562	596		491.5	572.2	596		505.2	572.2	596	m³/h	200
	W		5.3	7.3	11.7		6.2	8.4	12.8		7.1	10.0	12.9		8.1	10.6	13.0		8.7	10.6	13.1	W	
	mA		37.6	50.2	78.8		43.5	57.3	88.1		50.1	69.5	86.6		58.1	71.1	86.1		60.3	70.3	88.1	mA	
230	m³/h		600	685	800		640	689	800		656	689	800		656	689	800		656	689	800	m³/h	230
	W		9.4	14.7	17.7		11.1	14.7	17.7		11.9	14.7	17.7		11.9	14.7	17.7		11.9	14.7	17.7	W	
	mA		63.8	98.7	119.5		76.6	98.8	118.8		79.1	98.8	120.1		80.1	98.5	120.5		80.0	98.0	120.3	mA	
254	m³/h		810	885	860		810	885	860		810	885	860		810	885	860		810	885	860	m³/h	254
	W		14.3	18.8	19.4		14.3	18.8	19.4		14.3	18.8	19.4		14.2	18.8	19.4		14.3	18.8	19.4	W	
	mA		94.8	128.1	130.5		95.0	128.1	130.5		95.8	128.1	130.5		95.9	128.1	130.5		96.2	128.1	130.5	mA	

EC072 H.20

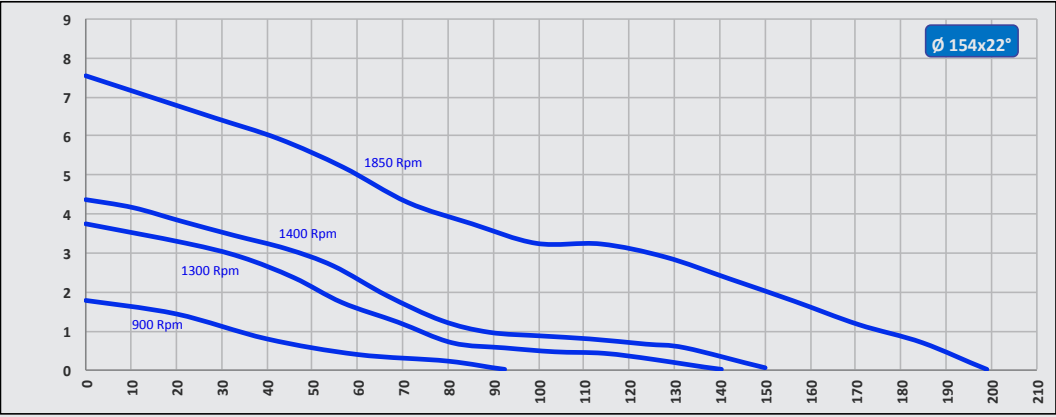
230V-50Hz - Values @ Free Load With Ring

		900 Rpm				1000 Rpm				1100 Rpm				1200 Rpm				1300 Rpm				1400 Rpm			
		19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°
172	m³/h		142	173	187		158	192	208		173	212	228		189	231	249		205	250	270		221	269	291
	W		1.98	2.26	2.59		2.18	2.54	2.96		2.36	2.86	3.46		2.66	3.26	4.07		2.90	3.73	4.76		3.22	4.26	5.50
	mA		15.7	18.3	21.2		17.4	20.4	22.7		18.6	22.5	26.5		20.6	25.3	30.8		22.4	28.7	35.8		24.7	32.0	41.0
200	m³/h		246	298	346		273	331	385		300	364	423		328	397	462		355	430	500		382	463	538
	W		2.33	2.79	3.56		2.66	3.23	4.32		3.06	3.83	5.35		3.59	4.56	6.54		4.05	5.31	7.77		4.70	6.24	9.49
	mA		18.7	22.9	27.9		21.4	26.2	33.6		23.8	30.4	40.3		27.6	35.3	47.8		30.7	40.1	56.3		35.0	46.4	66.6
230	m³/h		360	422	530		400	469	588		440	516	647		480	563	706		520	610	765.0		560	657	824
	W		3.20	4.07	5.66		3.82	5.25	7.20		4.56	6.46	9.28		5.64	8.04	11.6		6.64	9.86	14.5		7.84	12	18
	mA		24.7	31.2	44.4		29.5	38.7	53.2		34.1	47.5	66.8		41.9	57.0	83.2		47.8	68.6	100.9		56.1	85	126
254	m³/h		495	613	713		550	681	792		605	749	872		660	817	951		715	885	1002		770	953	1002
	W		4.15	6.61	11.0		5.12	8.54	14		6.27	10.9	18		7.78	14	25		9.46	17	29.0		11	22	29.5
	mA		32.3	50.1	79.1		38.8	62.4	102		45.8	76.8	130		55.8	98	176		66.6	121	207		79	155	206
300	m³/h		713	855			792	950			872	1045			951	1140			1030	1235			1109	1302	
	W		6.02	9			7.85	11			10	15			15	24			15	24			19	27.9	
	mA		46.7	62			57.8	80			70	102			84	132			104	167			129	195	

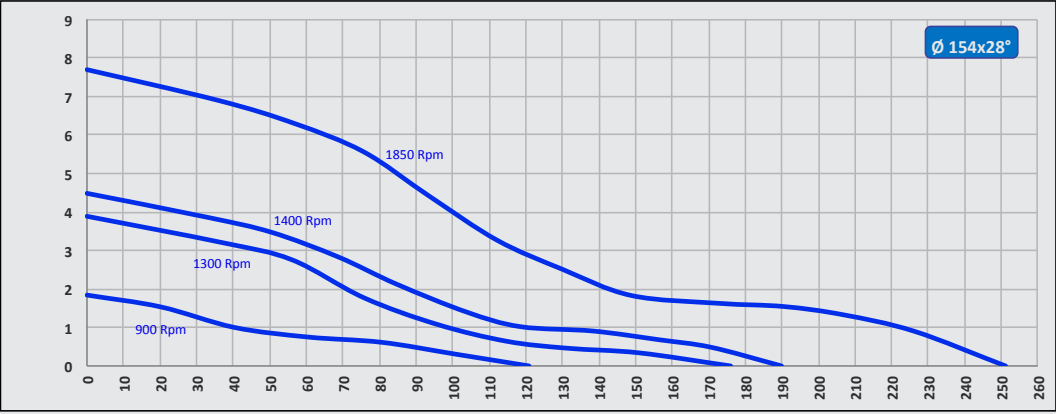
1500 Rpm				1600 Rpm				1700 Rpm				1800 Rpm				1850 Rpm					
19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°	19°	22°	28°	34°		
	237	288	312		252	308	332		268	327	353		284	346	374		292	356	384	m³/h	172
	3.60	4.80	6.38		4.04	5.45	7.39		4.44	6.23	8.60		5.06	7.23	10.3		5.23	7.78	11.2	W	
	27.4	35.9	46.9		30.5	41.0	53.3		30.5	41.0	53.3		37.4	51.9	73.3		38.7	55.7	80.7	mA	
	410	496	577		437	529	615		464	562	654		492	595	692		505	612	697	m³/h	200
	5.40	7.32	11.5		6.13	8.64	14		7.03	10	16		8.47	12.1	19.6		9.09	13.0	20.5	W	
	39.8	53.0	80.8		44.6	61.3	93		50.7	73	113		59.0	84.8	135		64.2	91.2	142	mA	
	600	704	883		640	751	909		680	798	909		720	809	909		740	809	909	m³/h	230
	9.32	15	22		11	17	23.8		13.1	20	24.6		15.3	21.5	23.9		16.6	21.5	23.8	W	
	66.1	101	156		78	118	167		91.6	142	169		108	150	167		116	150	167	mA	
	825	1001	1002		880	1001	1002		935	1001	1002		952	1001	1002		952	1001	1002	m³/h	254
	14	25.7	29.4		16	25.6	29.3		19	25.7	29.2		20.6	25.8	29.2		20.9	25.7	29.0	W	
	95	181	206		113	179	205		134	180	206		142	180	206		143	180	205	mA	
1188	1302			1214	1302			1214	1302			1214	1302			1214	1302			m³/h	300
23	27.6			24.4	27.9			24.4	27.8			24.3	28.0			24.4	27.5			W	
160	193.9			170.8	193.8			170.3	198.5			170.1	198			170.2	196.2			mA	

Performances

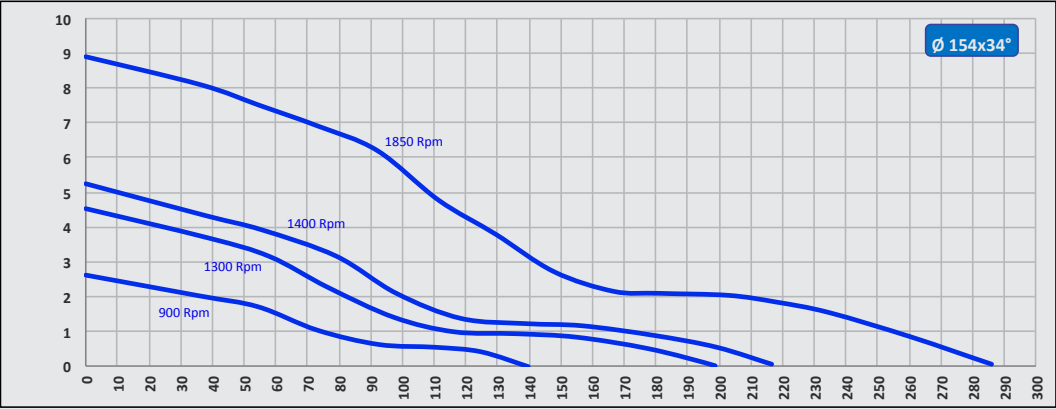
Ø 154



Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	97	140	151	199
	Win	1,59	2,33	2,87	4,26
	EC072	H.12	H.12	H.12	H.12

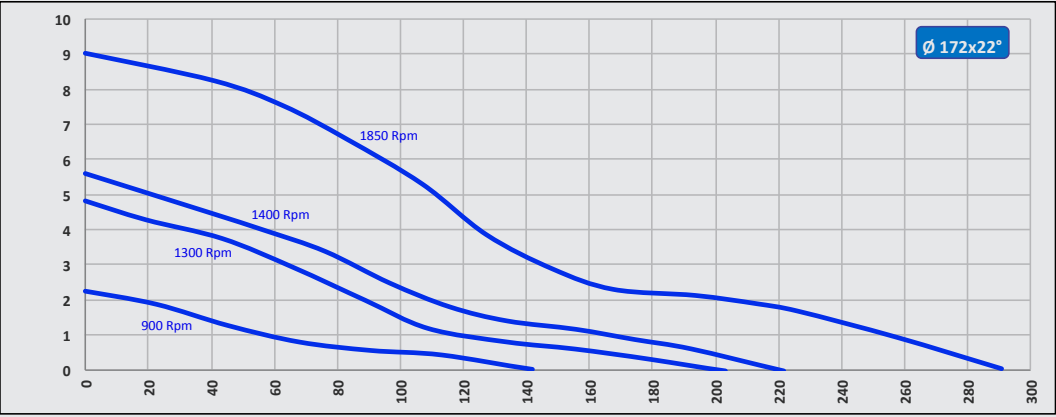


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	121	175	188	249
	Win	1,7	2,64	3	5,2
	EC072	H.12	H.12	H.12	H.12

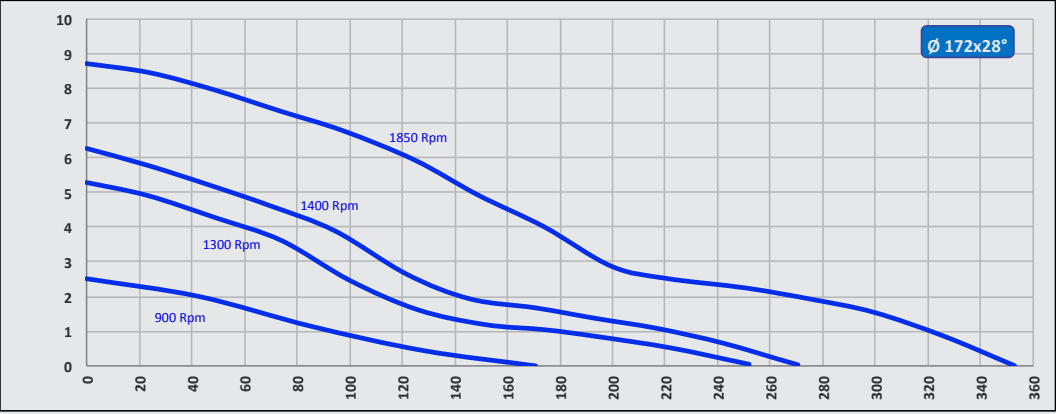


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	138	200	215	285
	Win	1,9	3,14	3,6	6,6
	EC072	H.12	H.12	H.12	H.12

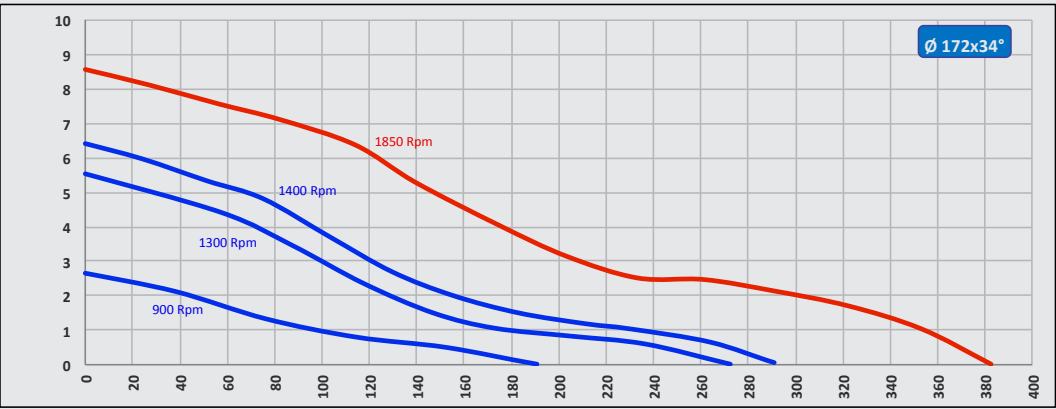
Ø 172



Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	142	205	221	292
	Win	1,68	2,58	2,96	5,13
	EC072	H.12	H.12	H.12	H.12

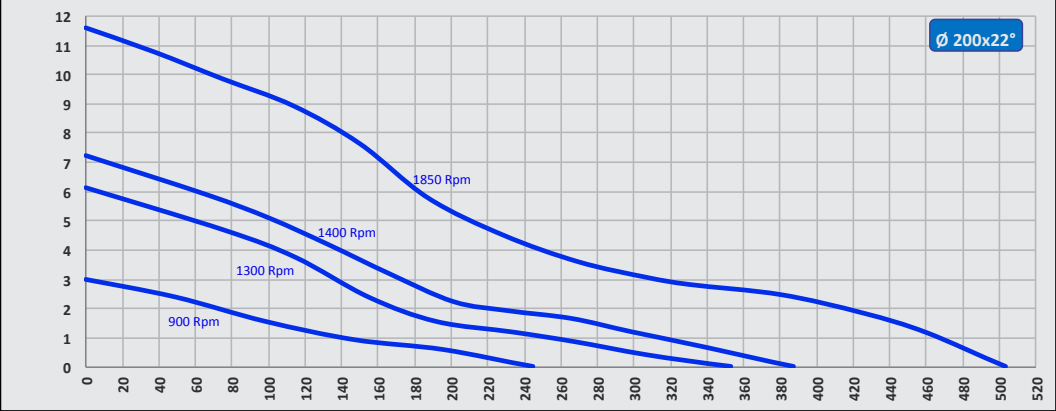


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	173	250	269	356
	Win	1,98	3,41	4,00	7,62
	EC072	H.12	H.12	H.12	H.12

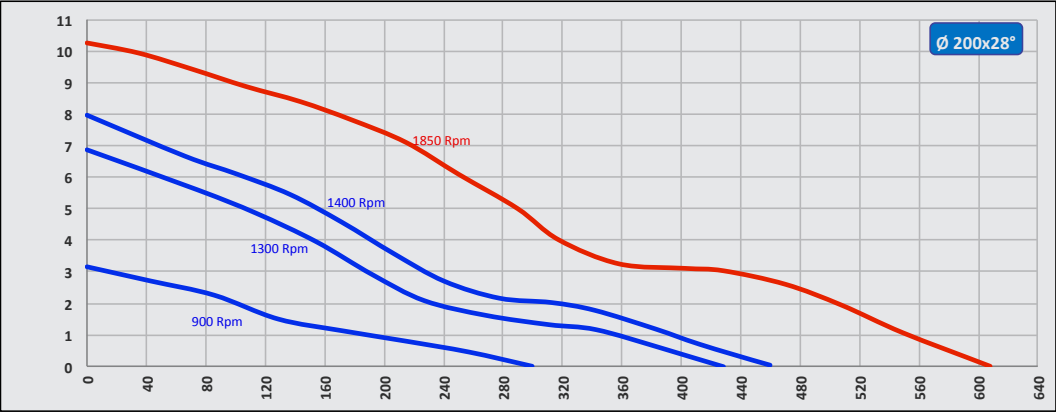


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	187	270	291	384
	Win	2,3	4,45	5,33	11,2
	EC072	H.12	H.12	H.12	H.20

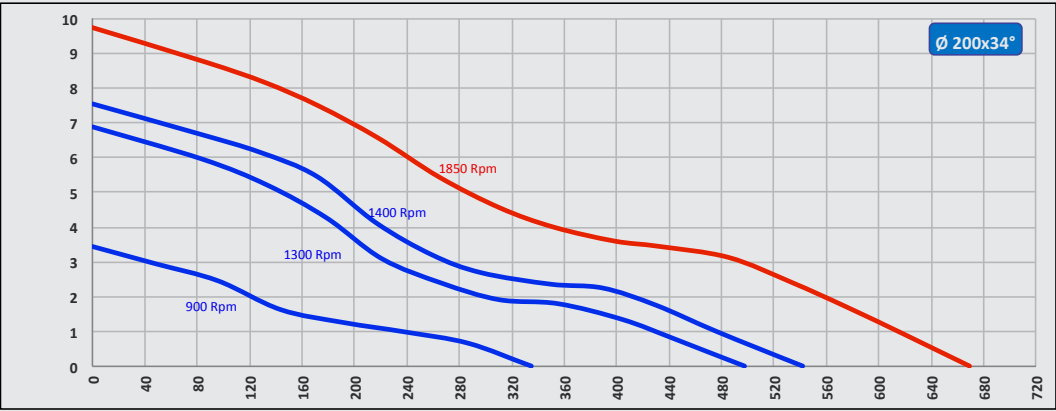
Ø 200



Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	246	355	382	505
	Win	2,12	3,87	4,52	8,72
	EC072	H.12	H.12	H.12	H.12

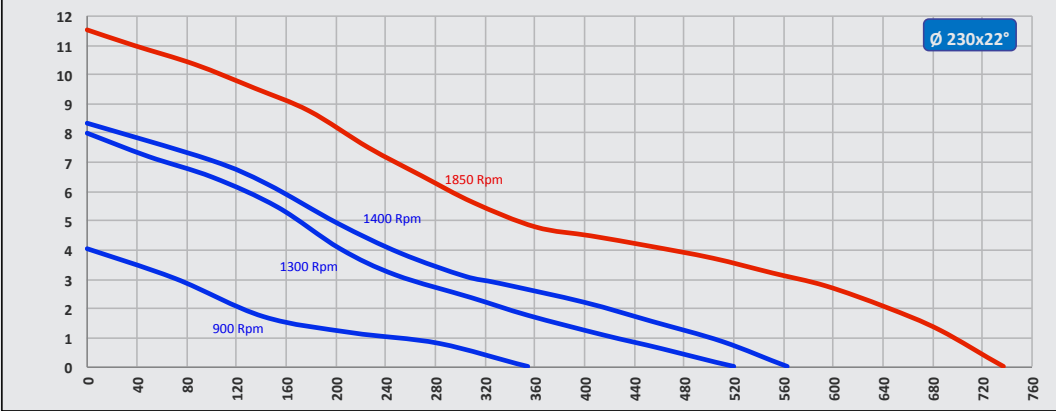


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	298	430	463	612
	Win	2,55	5,22	6,21	13
	EC072	H.12	H.12	H.12	H.20

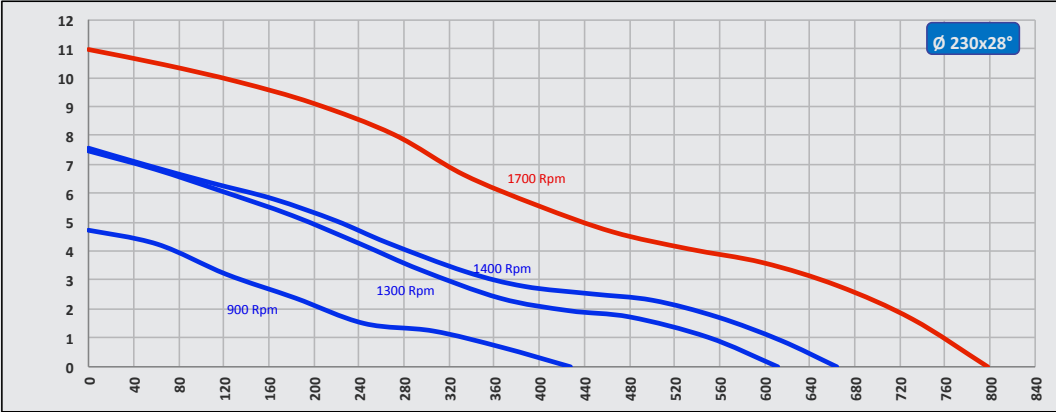


Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	346	500	538	697
	Win	3,45	7,95	9,82	20,5
	EC072	H.12	H.12	H.12	H.20

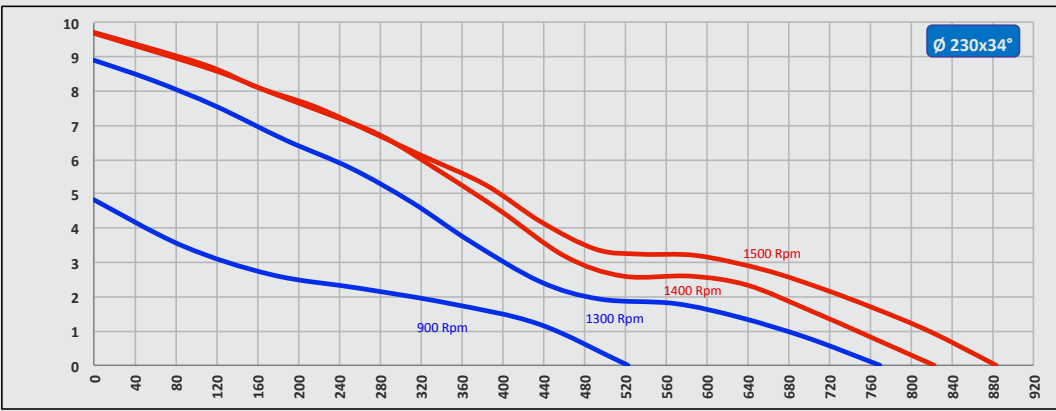
Ø 230



Values @ Free Load with Ring	Rpm	900	1300	1400	1850
	m³/h	360	520	560	740
	Win	2,95	6,4	7,62	16,6
	EC072	H.12	H.12	H.12	H.20

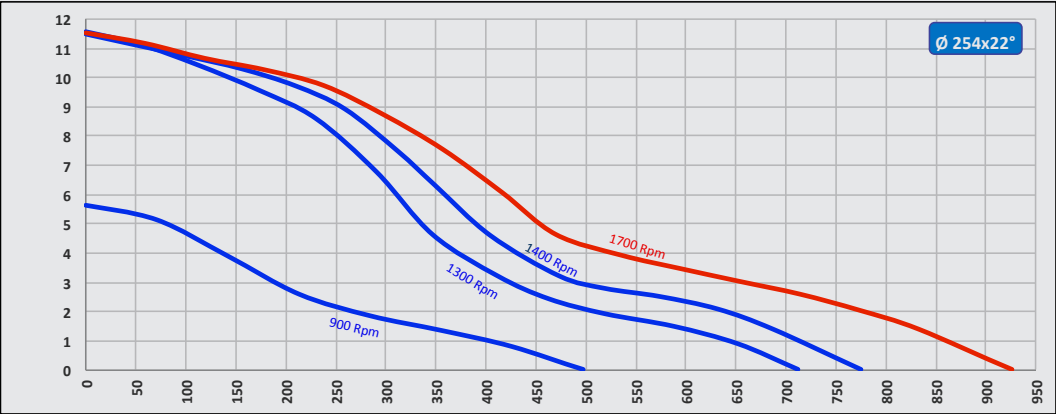


Values @ Free Load with Ring	Rpm	900	1300	1400	1700
	m³/h	422	610	657	798
	Win	4,06	9,96	12,40	20,4
	EC072	H.12	H.12	H.12	H.20

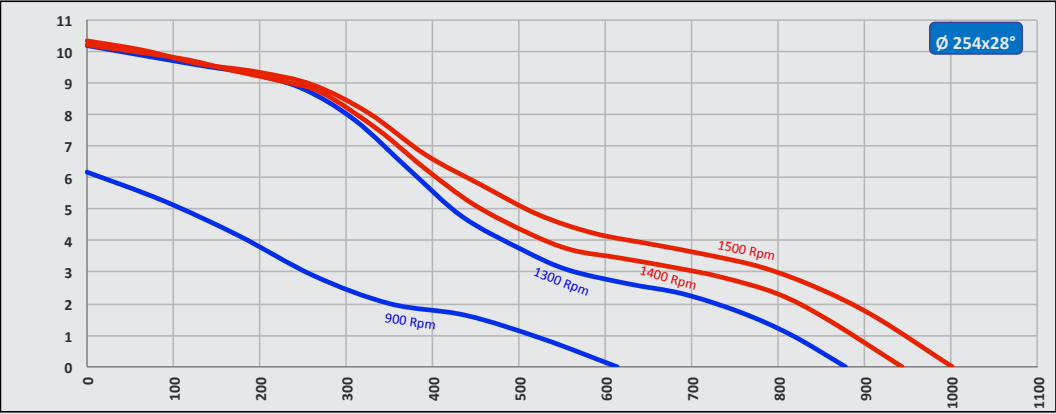


Values @ Free Load with Ring	Rpm	900	1300	1400	1500
	m³/h	530	765	824	883
	Win	5,7	15,3	17,9	21,7
	EC072	H.12	H.12	H.20	H.20

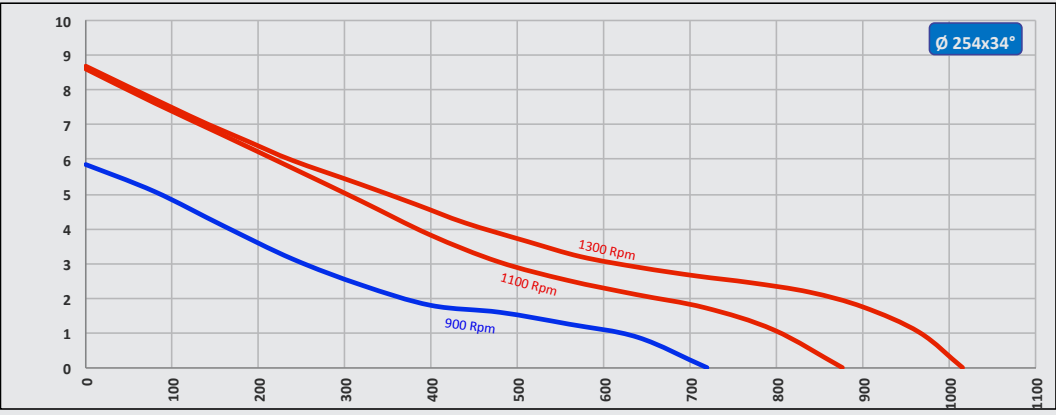
Ø 254



Values @ Free Load with Ring	Rpm	900	1300	1400	1700
	m ³ /h	495	715	770	935
	Win	3,99	9,69	12	19,4
	EC072	H.12	H.12	H.12	H.20

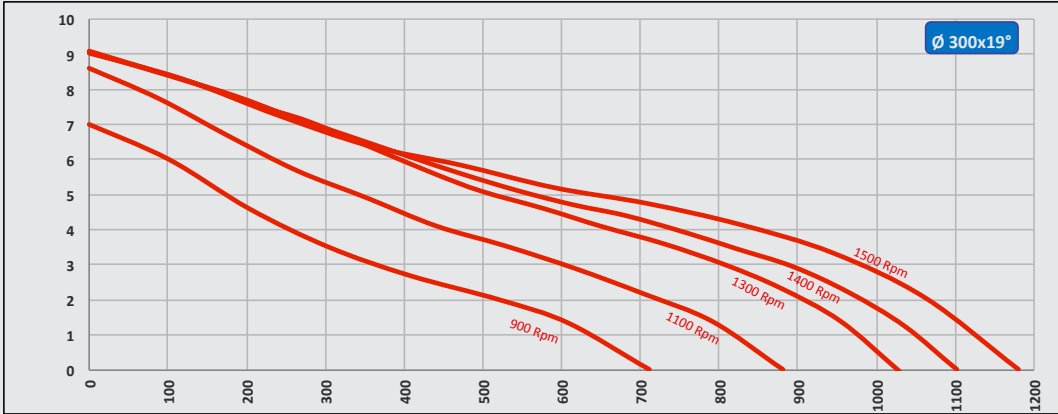


Values @ Free Load with Ring	Rpm	900	1300	1400	1500
	m ³ /h	613	885	953	1001
	Win	6,66	18,8	22,3	25,7
	EC072	H.12	H.12	H.20	H.20

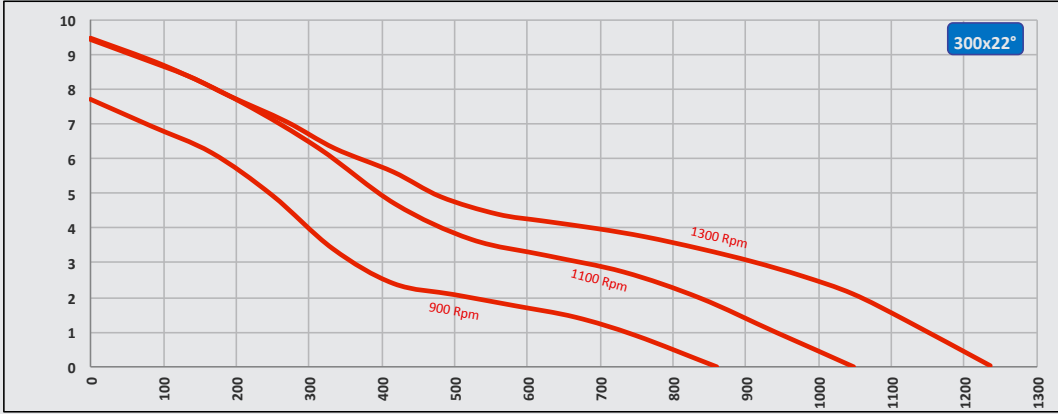


Values @ Free Load with Ring	Rpm	900	1100	1300
	m ³ /h	713	872	1002
	Win	11,1	9,75	29,5
	EC072	H.12	H.20	H.20

Ø 300



Values @ Free Load with Ring	Rpm	900	1100	1300	1400	1500
	m ³ /h	713	872	1030	1109	1188
	Win	6,02	9,75	15	18,6	23,2
	EC072	H.20	H.20	H.20	H.20	H.20



Values @ Free Load with Ring	Rpm	900	1100	1300
	m ³ /h	855	1045	1235
	Win	8,64	14,6	23,60
	EC072	H.20	H.20	H.20

Pressure / air performance of Axial Fan Motor EC072 H.12 / H.20.

The proposed motor / fan combinations derive from a wide applications experience. The curves which follow have been determined on nominal

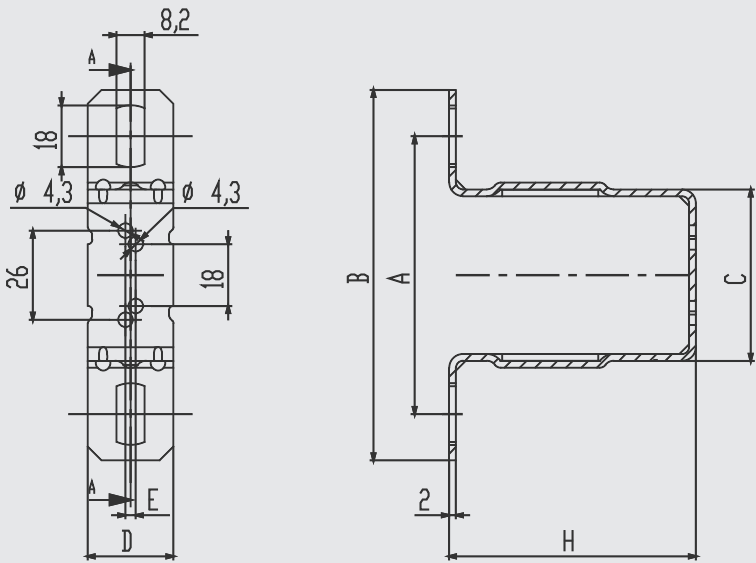
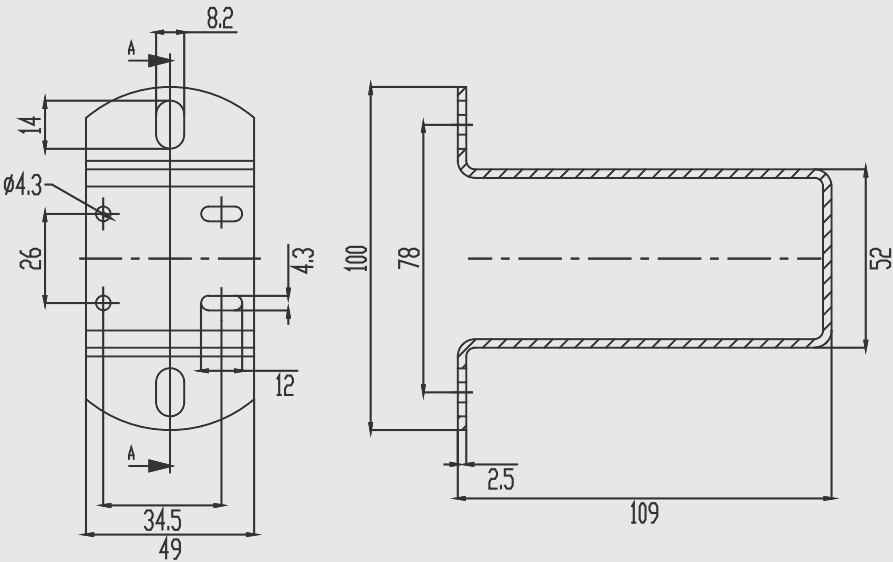
input condition at 220 V 50Hz and 230 V 60Hz and, though with certain tolerances, apply to both the sucking fans and blowing fans.

Accessories

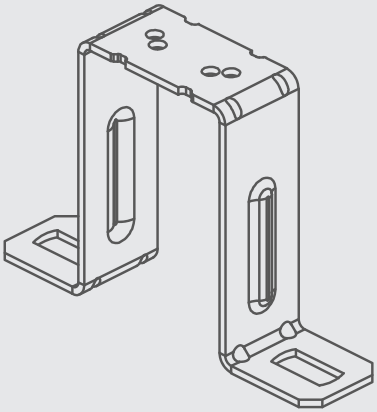
motor standard
accessories
available



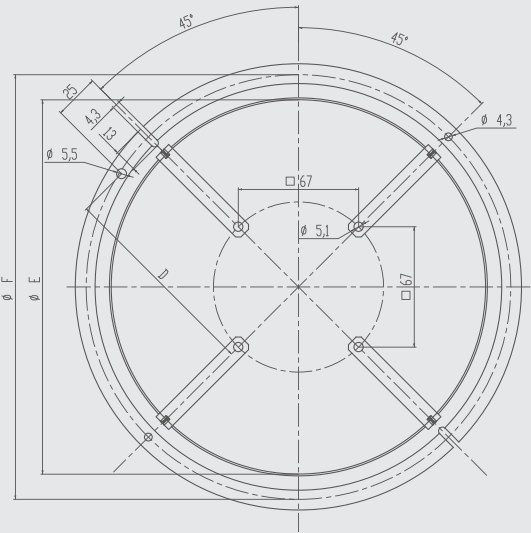
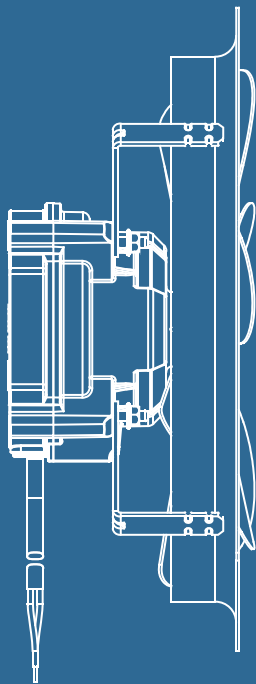
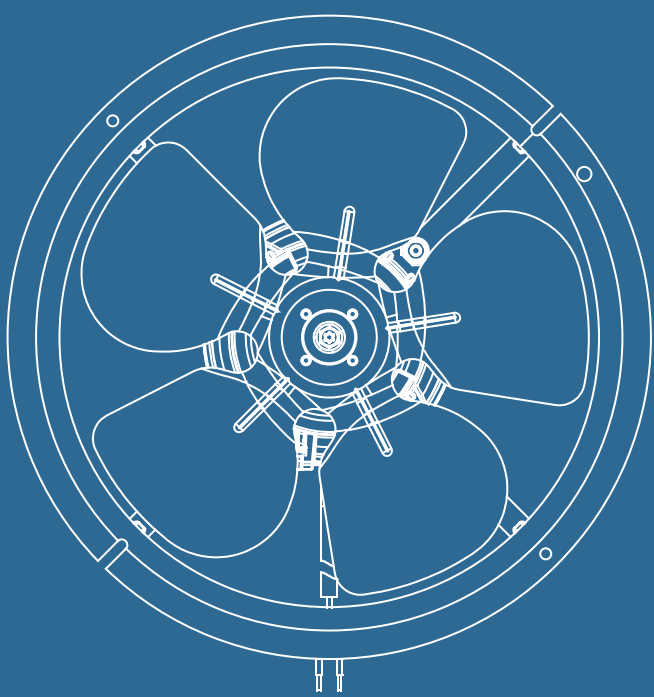
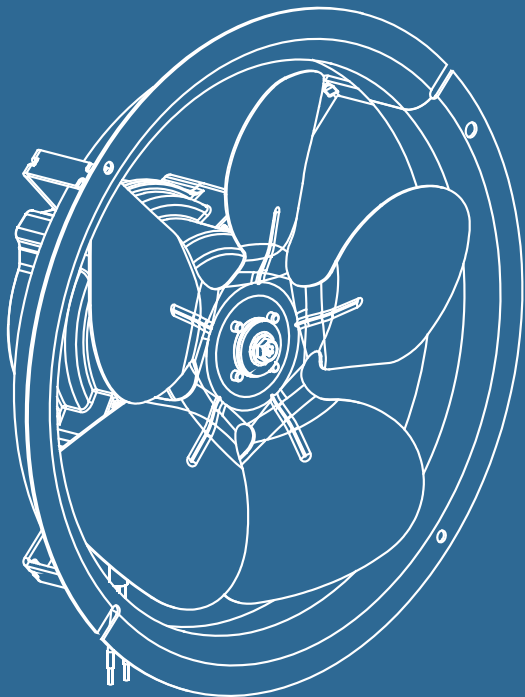
Brackets



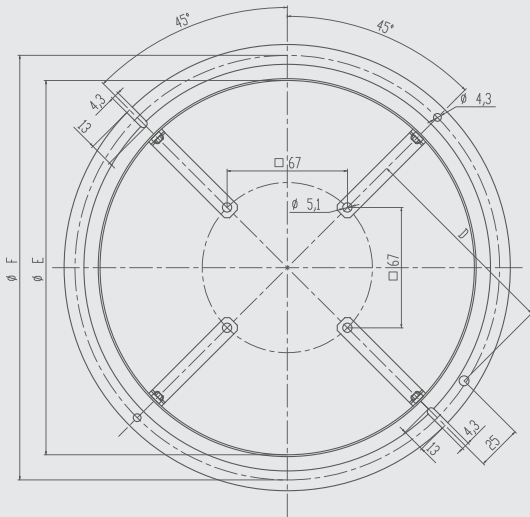
H	A	B	C	D	E
39	81	106	50	25	3
52	81	106	50	25	3
72	81	106	50	25	3
84	81	106	50	25	3
84	78	100	52	39	21
109	78	100	52	39	21
109	78	100	52	49	34,5



Steel Painted Rings



Sucking

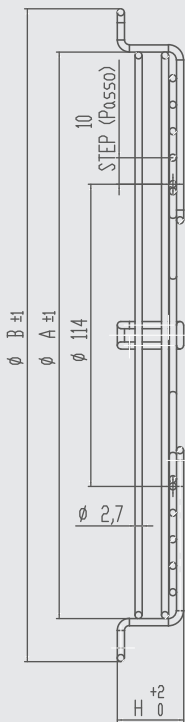
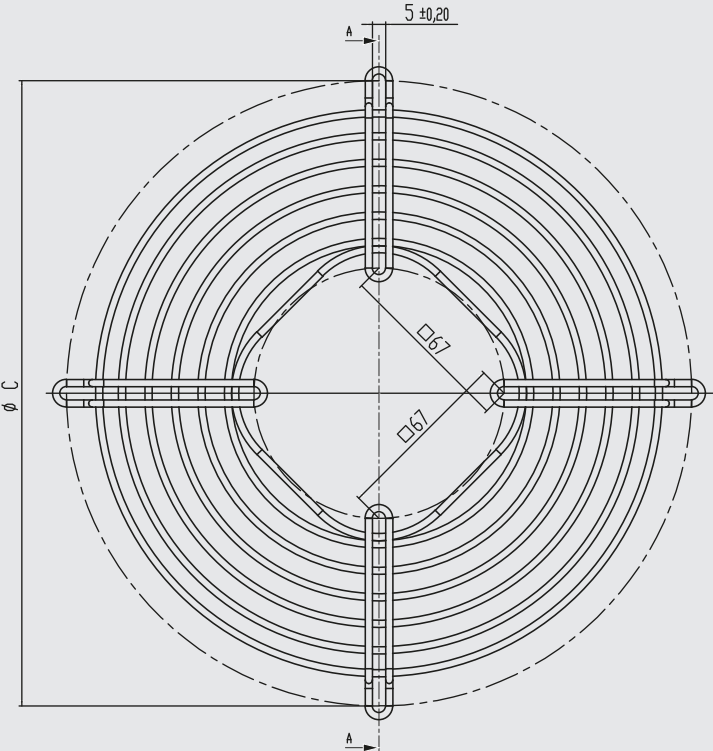
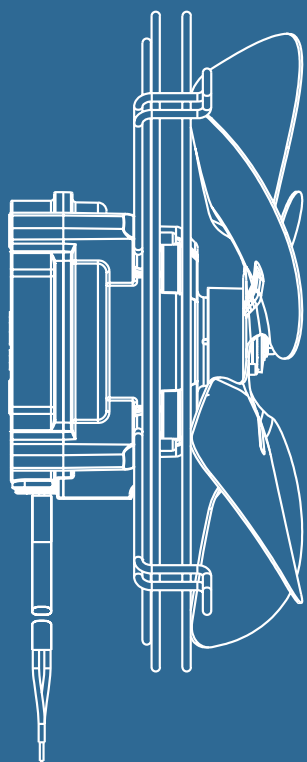
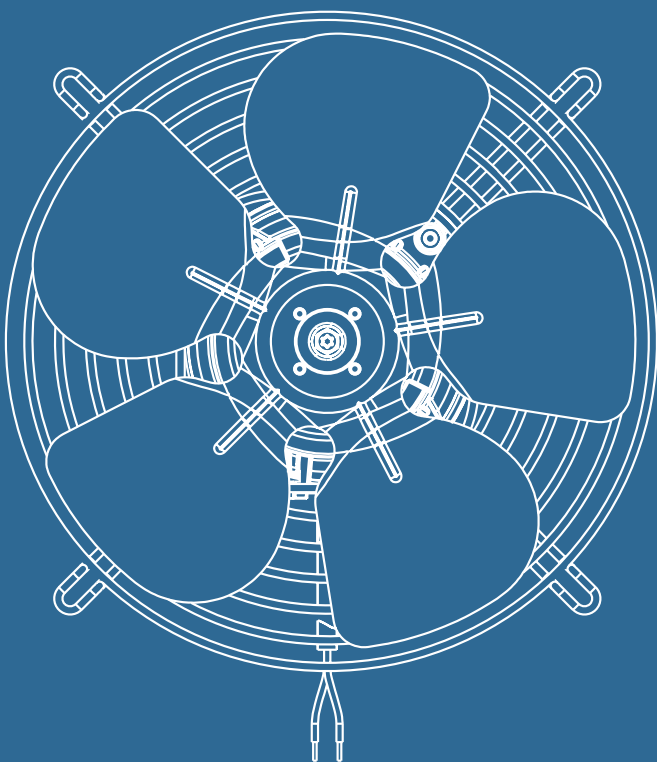
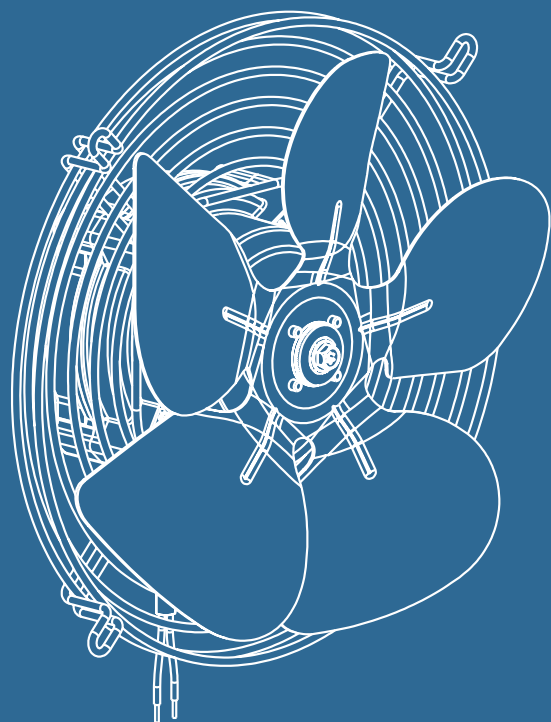


Blowing

Ø Fan Blade	A	B	C	E	F
154	200	25	49	162	190
172	220	26	49	180	208
200	248	26	49	208	236
230	278	26	49	238	266
254	302	26	49	262	290
300	350	26	49	308	344

Ø Fan Blade	A	B	C	E	F
154	200	25	36	162	190
172	220	26	36	180	208
200	248	26	36	208	236
230	278	26	36	238	266
254	302	26	36	262	290
300	356	26	36	308	344

Galvanized Steel Grid



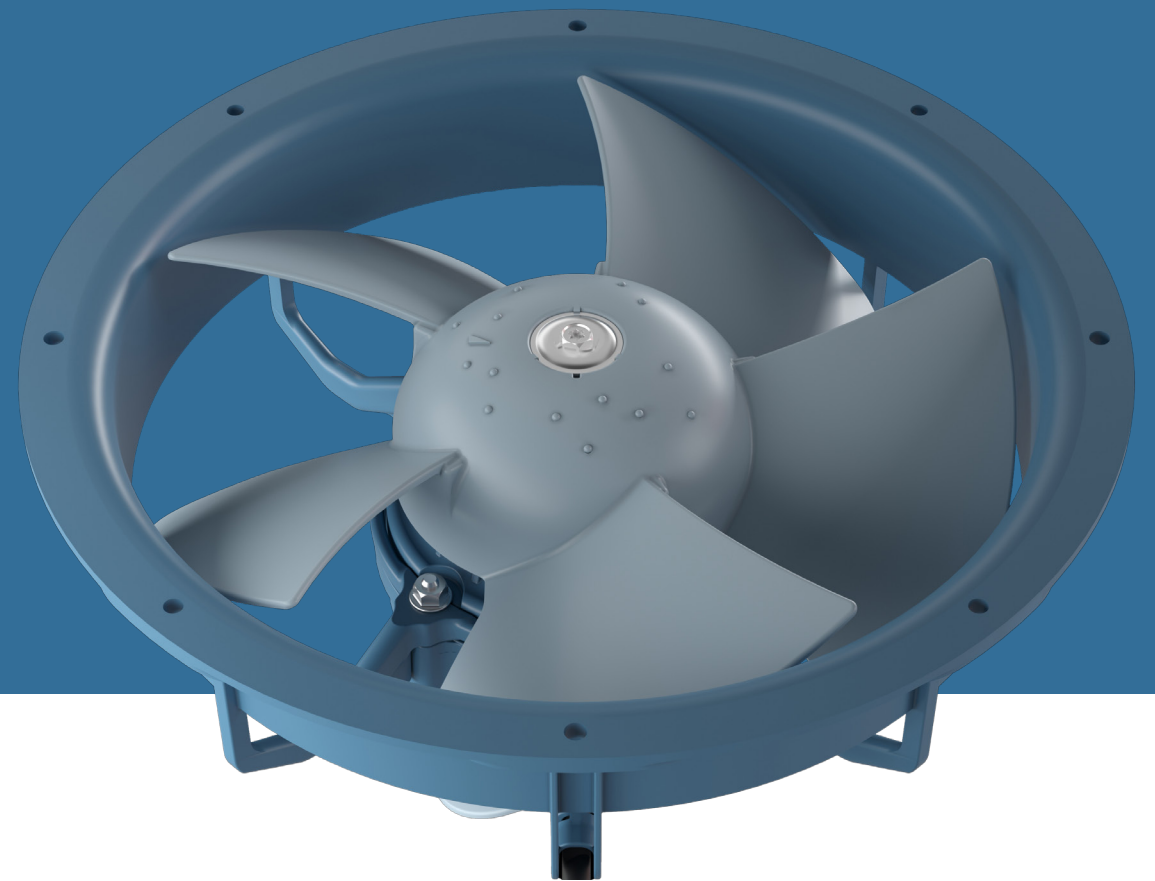
SEZIONE A-A

Ø Fan Blade	A	B	C	H
154	170	202	190	11
172	188	220	208	11
200	214	248	236	25
230	246	278	266	27
254	270	300	290	27

Shhh! OLMO is here

OLMO PRODUCTS HAVE SOMETHING LESS: THE NOISE.

Low noise is critical for the customer refrigeration system. Multiple fans used by large rows of cabinets can cause noise levels to be intrusive, driving customers away. To combat this problem low noise fans and motors are needed, and OLMO offers some of the quietest air movement solutions available.



Do you know that...

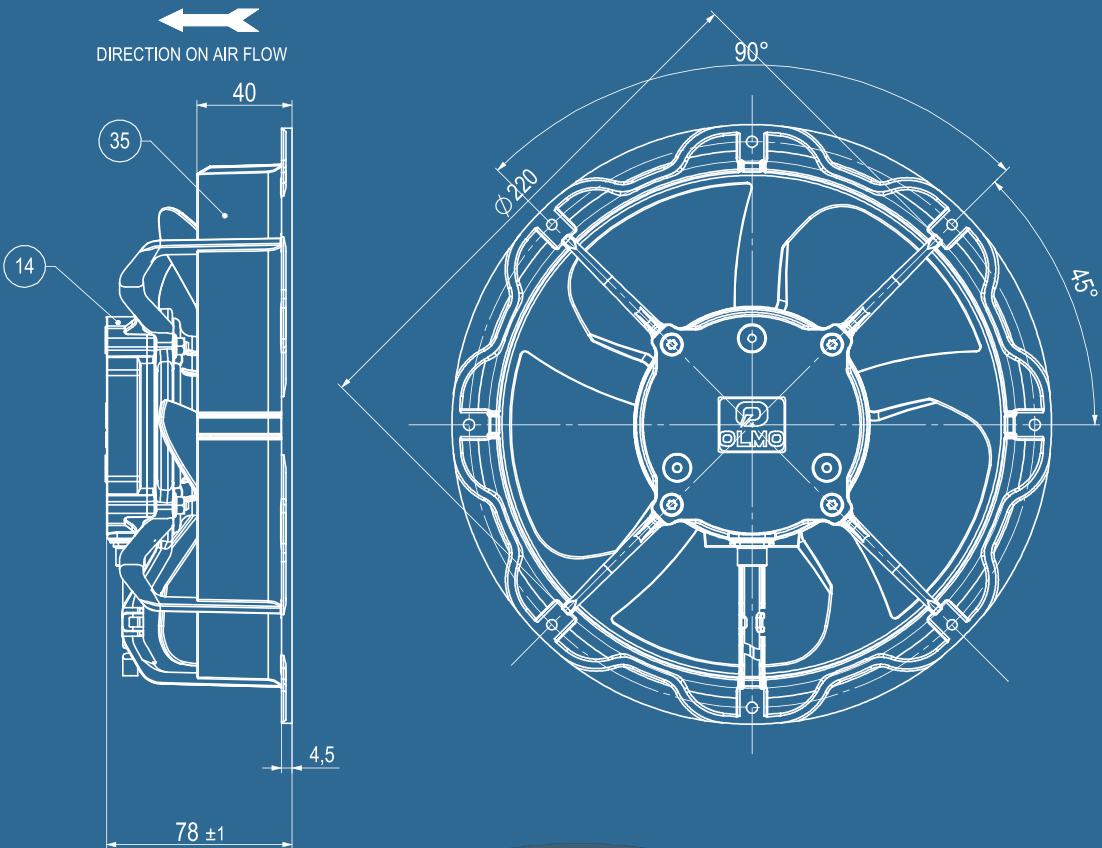
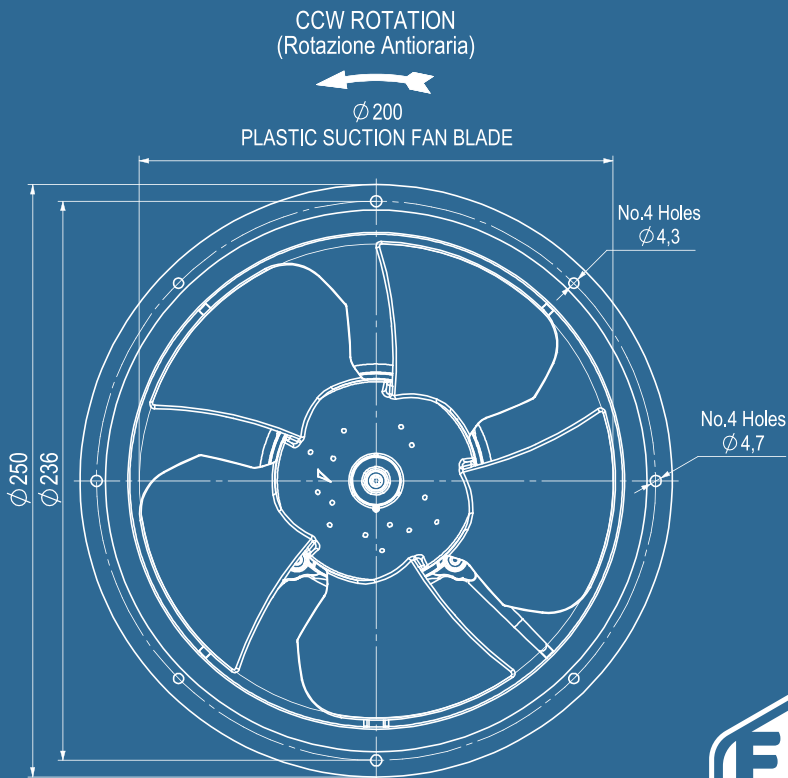
OLMO can help OEMs and supermarket chains reduce energy usage, and have more efficient and quiet applications, offering long life and smart features. A typical supermarket has roughly 400 evaporator fan motors in refrigerators and cabinets which run 100% of the time, even when the store is closed. The efficiency of the shaded pole motors usually used for this application is 15-20%. Using EC motors, with an efficiency up to 70%, reduces power by over two thirds. Payback is 6 months.



EC072K Compact Fan Motor

EC072K - Compact fan Motor

TECHNICAL DATA

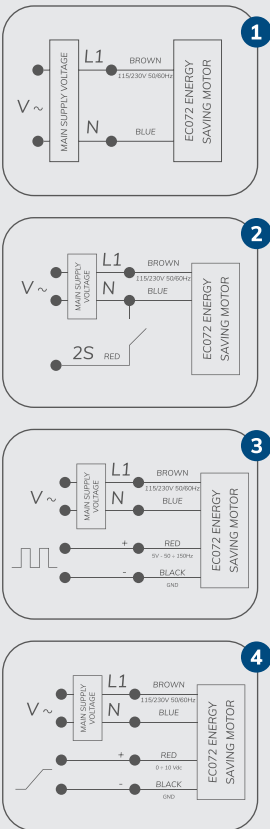


SPECIFICATIONS

Input Voltage range	230V±10%, 50/60Hz 115V±10%, 50/60Hz 100V/240V, 50/60Hz
Speed range	900-1500 Rpm
Max. Input power	5/8/20 W
EMC Protection / Noise	EN 60335-1; CE
Covers / IP Rating	Plastic / IP 64
Direction Air Flow	Sucking
Thermal Protection	Electronic Protection
Software Protection	-30°C / +50°C
Weight	0,8 Kg
Approvals	CE

- 1 EC072KFS – Speed pre-set by OLMO
- 2 EC072KDS – 2 Speeds pre-set by OLMO
- 3 EC072KVS – Full controll in frequency
- 4 EC072KVD – Full controll 0 – 10 Vdc

ELECTRIC DIAGRAM



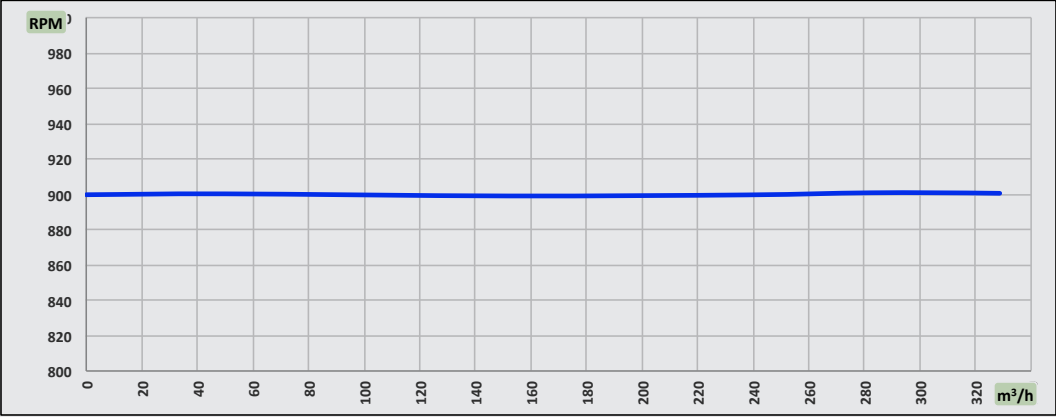
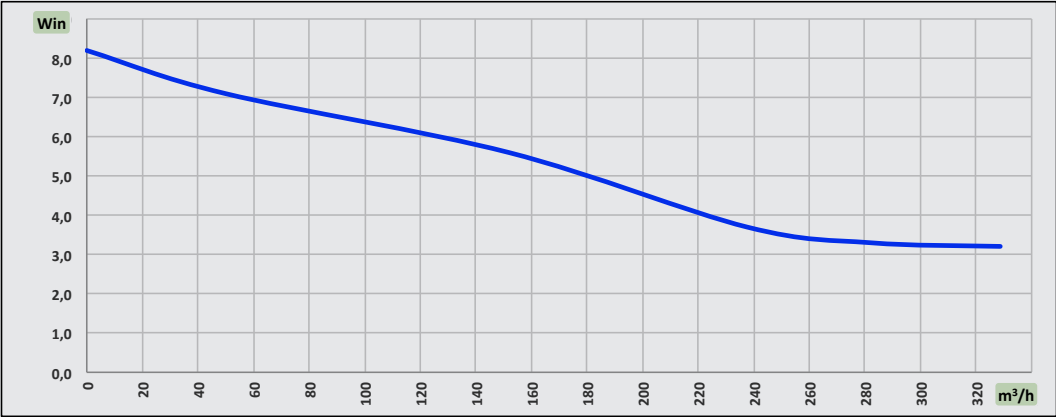
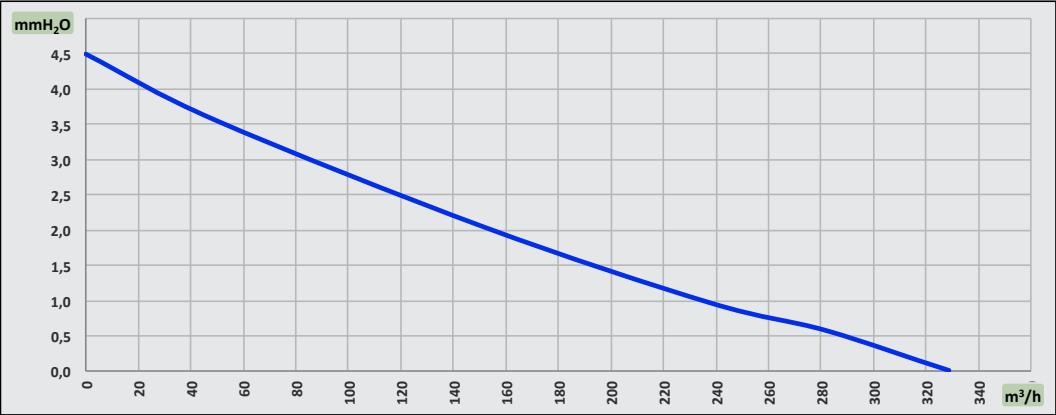
Performances

Ø200

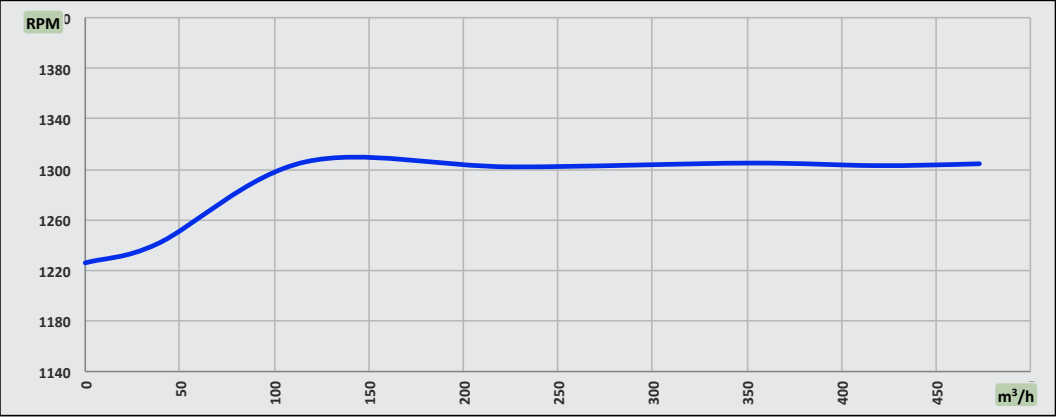
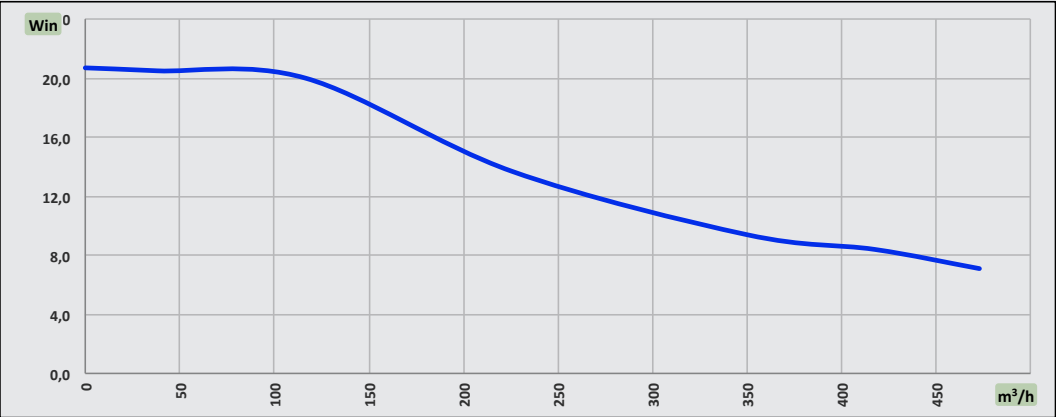
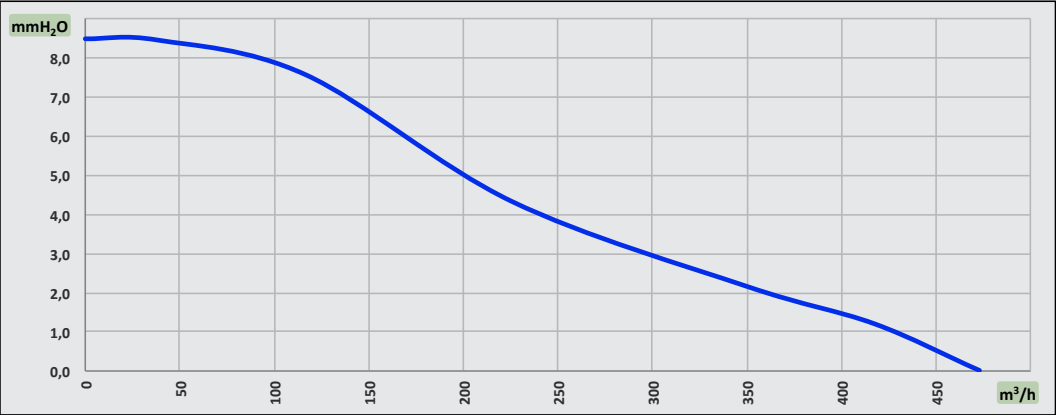
EC072K - Performances

900 Rpm

1300 Rpm



EC072K	Values @ Free Load	Rpm	m³/h	Win	mA	Pmax [mmH₂O]
Ø200		900	330	3,2	23,0	4,5



EC072K	Values @ Free Load	Rpm	m³/h	Win	mA	Pmax [mmH₂O]
Ø200		1300	475	7,1	56,0	8,5

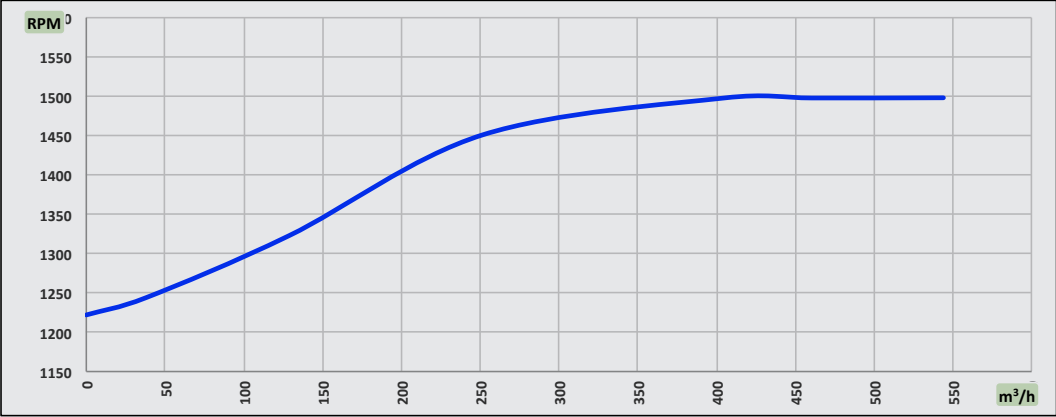
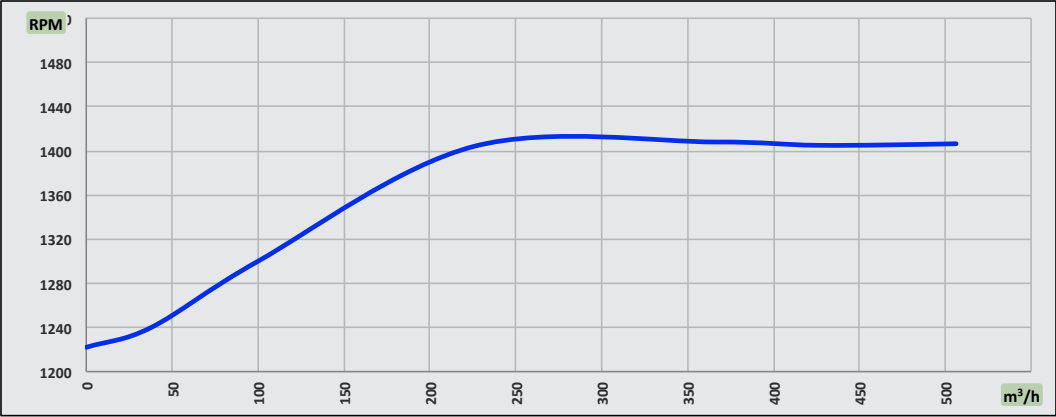
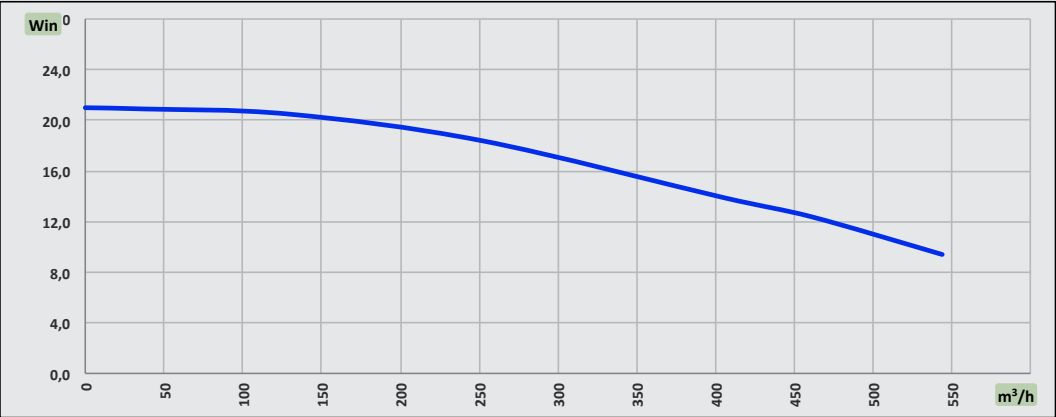
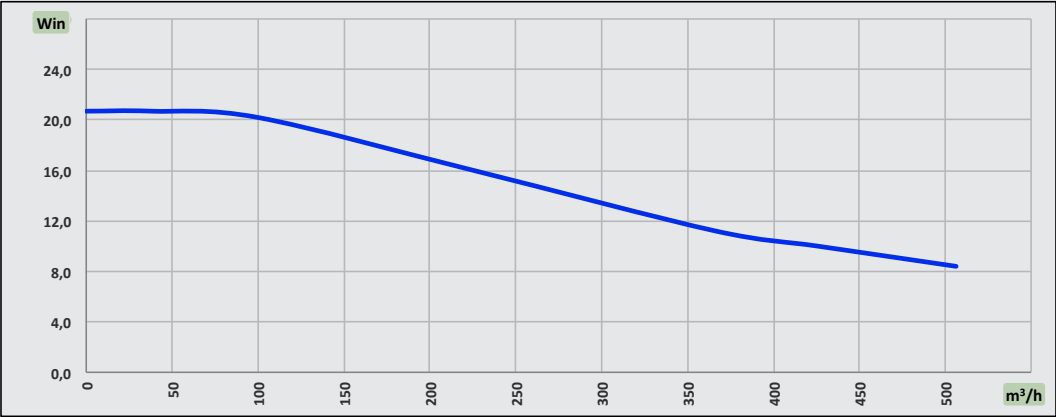
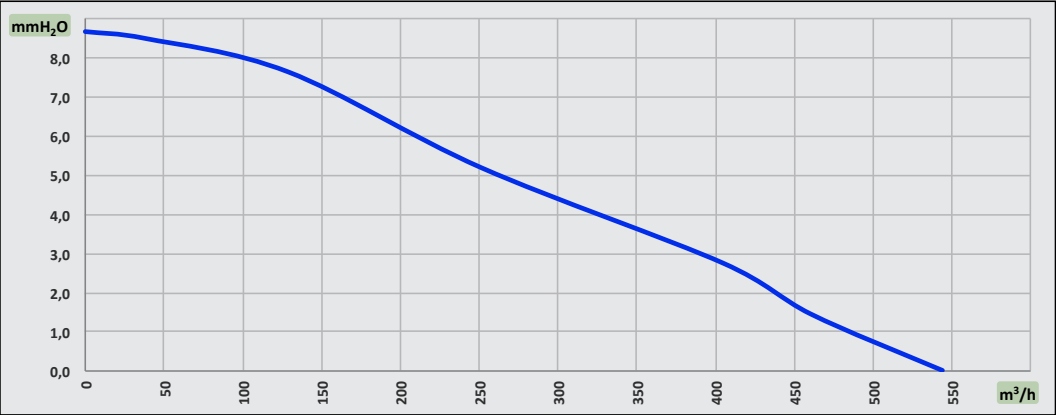
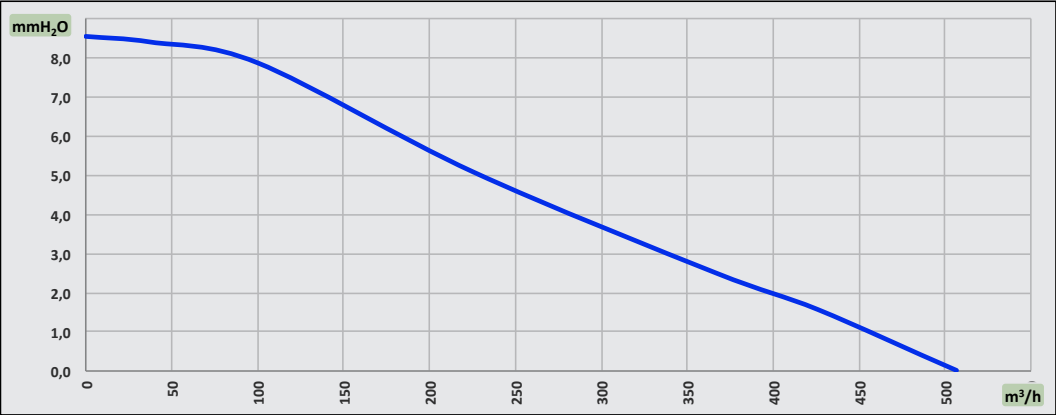
Performances

Ø200

EC072K - Performances

1400 Rpm

1500 Rpm



EC072K	Values @ Free Load	Rpm	m³/h	Win	mA	Pmax [mmH ₂ O]
Ø200		1400	510	8,4	66,0	8,4

EC072K	Values @ Free Load	Rpm	m³/h	Win	mA	Pmax [mmH ₂ O]
Ø200		1500	545	9,4	77,0	8,7



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S.r.l.**

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