

EVEI Ducted helicoidal fans with "UNEL-MEC" motor



Description

EVEI line is suitable when large air capacities with relatively low pressures are required in duct mounted applications. For instance: ventilation and conditioning in naval and mining applications, evaporative towers, heat exchangers, cooling of electric and refrigerating equipments, etc. With this line is possible to attain higher pressures using the multistage version consisting of two single stages fans mounted in series, with contra-rotating impellers. This solution allows the recovery of the air rotative component turning it in pressure, developing up to 2.7 times the pressure of a single fan having the same geometry and speed. This line consists of 15 sizes with impeller diameter from 310 up to 1600 mm.

Caratteristiche

EVEI line is characterised by the extreme sturdiness of construction, thanks to the flanges directly bended on the casing, and the thickness of the materials. The variety of versions and models allows the solution of most of the problems of ventilation. Impeller consists of a strong hub, in die-cast aluminum alloy for the fixing of the blades. Available in different materials suitable for heavy duties. Casing in steel sheet protected with epoxy painting. Fixing flanges according to UNI- ISO 6580/EUROVENT 1-2 standards. Impeller with high efficiency airfoil blades in plastic material or in die-cast aluminum alloy. Hub in die-cast aluminum alloy. Balancing according to UNI ISO 1940. Variable pitch angle in still position. Asynchronous electric motor, protection IP 55, class F insulated, form B3, service S1 construction according to the IEC/EEC (UNEL-MEC) standard. Arrangement 4 (impeller directly coupled to motor shaft). Conveyed air: clean, not abrasive. Temperature of conveyed air: -20°C/+50°C. Voltage: three phase version (T) 400V-3Ph. Single phase version (M) 230V-1Ph. Frequency: 50Hz. Air flow from motor to impeller.

Versions

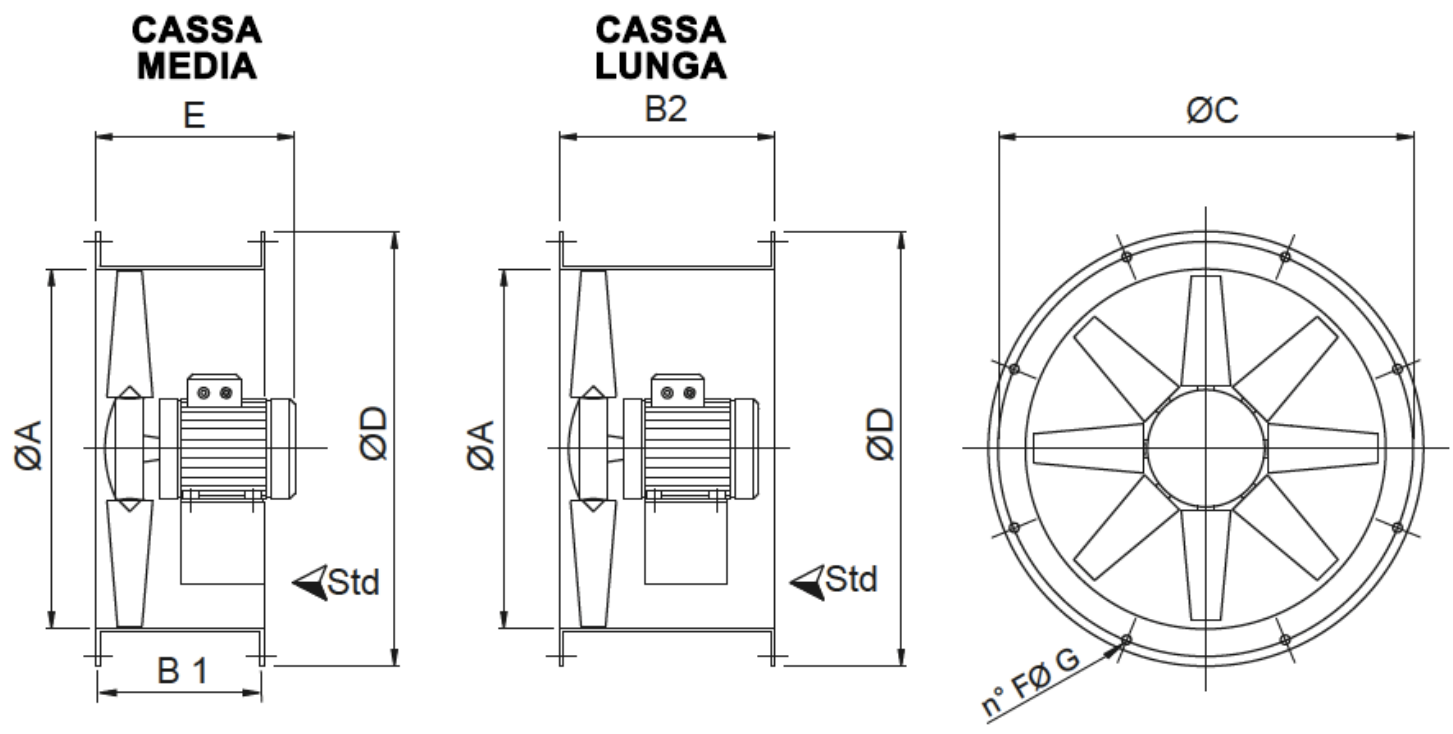
- Medium Case: motor / impeller unit almost completely included in the case length;
- Long Case: motor / impeller unit completely "included" in the case length.

Accessories

- Inlet nozzle.
- Silencers.
- Flat protection grid and conic (Necessary for use in free air).
- Inspection door.
- Flexible connection.
- Antivibration mounts.
- Counter flange.
- Outer terminal box.
- Fixing feet.
- Service switch.

On request

- Performance other than represented
- Versions with impeller with aluminum blades
- Versions with "actually" reversible air flow
- Atex versions
- Multistage versions
- Versions for smoke fumes
- Versions with conveyor in stainless steel or aluminum or hot galvanized sheet.
- Versions with air flow from impeller to motor.
- Prices for single-phase, 4-pole version available on request (models: 31A, 35A, 40A, 40B, 45A).



All dimensions are expressed in mm.

Models	A	Motor Size	B1	B2	C	D	*E	F	G	*Kg	*Kg
			Medium Casing	Long Casing						Medium Casing	Long Casing
31	310	56-63	260	400	355	390	250/320	8	10	13/17	13/19
35	360	56-71	260	400	395	430	250/320	8	10	14/19	14/22
40	410	63-80	260	400	450	490	300/380	8	12	16/24	19/27
45	460	71-80	260	450	500	540	350/390	8	12	21/30	23/33
50	510	71-80	260	450	560	595	350/390	12	12	24/35	27/38
56	570	71-90	260	450	620	655	350/390	12	12	28/37	34/43
63	640	90-100	350	500	690	725	400/490	12	12	37/54	44/61
71	710	90-112	350	600	770	805	400/490	16	12	44/67	53/77
80	810	90-132	450	600	860	900	450/610	16	12	54/110	60/115
90	910	100-132	450	700	970	1010	450/690	16	16	87/169	105/187
100	1010	100-160	560	800	1070	1110	700/830	16	16	107/330	123/346
		180	800	900							
112	1130	132	560	800	1190	1230	700/880	20	16	136/355	157/455
		160-200	800	900							
		225	800	1000							
		250	900	1150							
125	1260	132	560	800	1320	1360	700/1000	20	16	169/451	192/545
		160-200	800	900							
		225	800	1000							
		250-280	900	1150							
140	1400	160-225	800	1000	1470	1520	900/1000	20	16	381/895	411/935
		250-280	900	1150							
160	1610	160-255	800	1000	1680	1730	900/1100	24	20	489/963	519/1013
		250-280	900	1150							

*Indicative.

Performances

Le prestazioni indicate si riferiscono ad aria alla temperatura di 15°C ed all'altitudine di 0 mt s.l.m., e sono state ottenute in assenza di reti e accessori.
Tolleranze: prestazioni aerauliche e rumorosità rientrano nelle tolleranze indicate nella norma DIN 24166, Classe 2.
-Le prestazioni di portata aria riportata nelle tabelle si riferiscono ad una perdita di carico pari a 0 Pa.
* Solo per installazione extra U.E

2 poli (3000 rpm) - Three-Phase (3Ph-400V 50Hz)							
Models	Poli	Fan Type	Flow Rate (m³/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
31	2P	A	3500	0,25	0,7	63	70
35	2P	A	5200	0,55	1,6	71	74
40	2P	A	8200	1,1	2,6	80	79

4 poli (1500 rpm) - Single-Phase (1Ph-230V 50Hz)							
Models	Poli	Fan Type	Flow Rate (m³/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
31	4P	A	2.300	0,09	1	56	52
35	4P	A	3.200	0,09	1	56	56
40*	4P	A	4.000	0,12	1,1	63	61
40*	4P	B	5.200	0,18	1,4	63	62
45*	4P	A	6.500	0,25	1,8	71	65

4 poli (1500 rpm) - Three-phase (3Ph-400V 50Hz)							
Models	Poli	Fan Type	Flow Rate (m³/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
31	4P	A	2.300	0,09	0,4	56	52
35	4P	A	3.200	0,09	0,4	56	56
40*	4P	A	4.000	0,12	0,5	63	61
40	4P	B	5.200	0,18	0,6	63	62
45	4P	A	6.500	0,25	0,8	71	65
45	4P	B	7.600	0,37	1,2	71	66
50*	4P	A	8.000	0,37	1,2	71	68
50	4P	B	9.000	0,55	1,6	71	69
56*	4P	A	10.000	0,55	1,6	80	71
56	4P	B	12.500	0,75	2	80	72
63	4P	A	13.000	0,75	2	80	75
63	4P	B	16.000	1,1	2,8	90	76
63	4P	C	17.000	2,2	5	100	76
71	4P	A	17.000	1,5	3,5	90	77
71	4P	B	20.500	2,2	5	100	77
71	4P	C	18.500	2,2	5	100	77
71	4P	D	23.500	3	6,5	100	79
80	4P	A	24.000	3	6,5	100	78
80	4P	B	29.000	4	8,2	112	79
80	4P	C	35.000	5,5	11	132	80
80	4P	D	40.000	7,5	15	132	80
90	4P	A	38.000	5,5	11	132	85
90	4P	B	43.000	7,5	15	132	86
90	4P	C	47.000	7,5	15	132	86
90	4P	D	52.500	9,2	18	132	86
100	4P	A	41.000	5,5	11	132	88
100	4P	B	50.000	7,5	15	132	89
100	4P	C	59.000	11	21	160	89
100	4P	D	65.000	15	27,8	160	90
100	4P	E	72.500	18,5	32,6	180	90

112	4P	A	80.000	18,5	32,6	180	93
112	4P	B	87.000	22	38,8	180	94
112	4P	C	100.000	30	53	200	94
125	4P	A	95.000	22	38,8	180	97
125	4P	B	110.000	30	53	200	98
125	4P	C	125.000	37	64	225	98

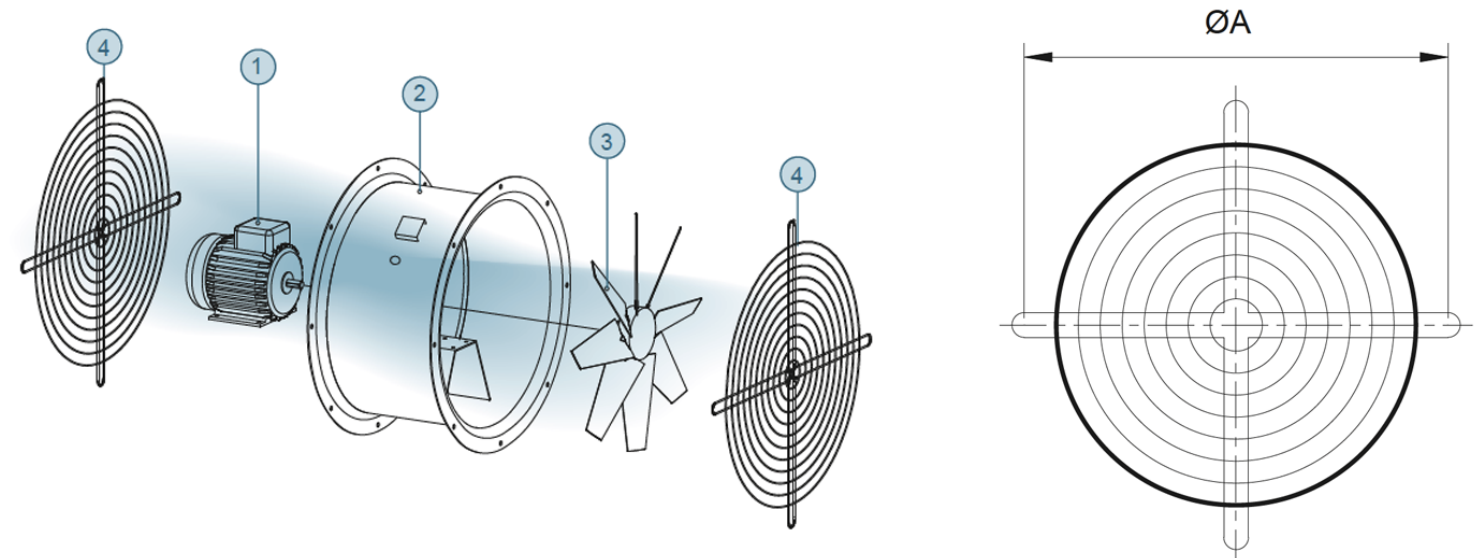
6 poli (1000 rpm) - Three-Phase (3Ph-400V 50Hz)							
Models	Poli	Fan Type	Flow Rate (m³/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
50*	6P	A	6.000	0,18	0,7	71	58
56	6P	A	8.500	0,25	1	71	62
63	6P	A	12.500	0,37	1,3	80	66
63	6P	B	14.000	0,75	2,2	90	65
71	6P	A	16.000	0,75	2,2	90	67
71	6P	B	17.000	1,1	3	90	66
80	6P	A	16.000	0,75	2,2	90	68
80	6P	B	19.000	1,1	3	90	68
80	6P	C	22.500	1,5	4	100	69
90	6P	A	25.000	1,5	4	100	75
90	6P	B	29.000	2,2	5	112	75
90	6P	C	32.000	2,2	5	112	75
100	6P	A	27.000	1,5	4	100	79
100	6P	B	33.000	2,2	5	112	79
100	6P	C	41.000	3	7	132	80
112	6P	B	45.000	4	9	132	83
112	6P	C	54.000	5,5	12	132	83
125	6P	B	61.000	7,5	15	160	87
125	6P	C	73.000	11	22	160	88
125	6P	D	85.000	11	22	160	88
140	6P	A	115.000	18,5	35	200	91

8 poli (750 rpm) - Three-Phase (3Ph-400V 50Hz)							
Models	Poli	Fan Type	Flow Rate (m ³ /h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
56	8P	A	6.000	0,12	0,7	71	56
63*	8P	A	8.000	0,18	0,8	80	60
71*	8P	A	11.000	0,37	1,5	90	61
80*	8P	A	10.000	0,37	1,5	90	61
80*	8P	B	13.000	0,37	1,5	90	62
90	8P	A	17.000	0,75	2,3	100	69
90	8P	B	20.500	0,75	2,3	100	69
100	8P	A	20.500	0,75	2,3	100	74
100	8P	B	25.000	1,1	3,4	100	74
112	8P	C	40.500	2,2	5,5	132	77
125	8P	A	34.500	2,2	5,5	132	81
125	8P	B	43.000	3	7,3	132	81
125	8P	C	52.000	4	9,3	160	82
125	8P	D	59.000	4	9,3	160	82
140	8P	A	87.000	7,5	14,7	160	85

Safety Guard

They preserve from the casual contact with the rotating parts of the fan. Manufactured in steel rod according to UNI EN ISO 12499, EUROVENT1/3 standards and protected against the atmospheric agents (Necessary for use in free air).

Models	Ø A	Kg
31	355	0,6
35	395	0,6
40	450	0,9
45	500	1
50	560	1,3
56	620	1,5
63	690	1,8
71	770	2,5
80	860	3
90	970	4
100	1070	5
112	1190	8
125	1320	10
140	1470	14
160	1680	20



- 1 - Motor.
- 2 - Casing.
- 3 - Impeller.
- 4 - Mesh "accessory" (mandatory for free air)

Price List – 2-Pole Three-Phase

Models EVEI	Poli	Fan Type	Cassa	Eur	Inverter IP20	
					Models	Eur
31	2P	A	LUNGA	1.061,11	M130L	744,33
35	2P	A	LUNGA	1.203,38	M130L	744,33
40	2P	A	LUNGA	1.517,57	M130M	877,53
31	2P	A	MEDIA	1.001,83	M130L	744,33
35	2P	A	MEDIA	1.124,34	M130L	744,33
40	2P	A	MEDIA	1.402,96	M130M	877,53

Price List – 4-Pole Three-Phase

Models EVEI	Poli	Fan Type	Cassa	Euro	Inverter IP20	
					Models	Euro
35	4P	A	LUNGA	999,86	M130L	744,33
40	4P	A	LUNGA	1.136,20	M130L	744,33
45	4P	A	LUNGA	1.308,11	M130L	744,33
50	4P	A	LUNGA	1.450,38	M130L	744,33
56	4P	A	LUNGA	1.738,88	M130L	744,33
63	4P	A	LUNGA	1.977,98	M130L	744,33
71	4P	A	LUNGA	2.432,46	M130M	877,53
80	4P	A	LUNGA	3.224,83	M130Q	1.261,45
90	4P	A	LUNGA	4.934,07	M130R	1.798,15
100	4P	A	LUNGA	5.568,37	M130R	1.798,15
31	4P	A	MEDIA	905,01	M130L	744,33
35	4P	A	MEDIA	926,74	M130L	744,33
40	4P	A	MEDIA	1.033,45	M130L	744,33
45	4P	A	MEDIA	1.171,77	M130L	744,33
50	4P	A	MEDIA	1.310,09	M130L	744,33
56	4P	A	MEDIA	1.568,94	M130L	744,33
63	4P	A	MEDIA	1.821,87	M130L	744,33
71	4P	A	MEDIA	2.219,05	M130M	877,53
80	4P	A	MEDIA	3.066,75	M130Q	1.261,45
90	4P	A	MEDIA	4.613,96	M130R	1.798,15
100	4P	A	MEDIA	4.910,36	M130R	1.798,15
40	4P	B	LUNGA	1.152,01	M130L	744,33
45	4P	B	LUNGA	1.353,56	M130L	744,33
50	4P	B	LUNGA	1.647,98	M130L	744,33
56	4P	B	LUNGA	1.887,08	M130L	744,33
63	4P	B	LUNGA	2.136,06	M130M	877,53
71	4P	B	LUNGA	2.796,04	M130P	1.081,24
80	4P	B	LUNGA	3.592,37	M130Q	1.261,45
90	4P	B	LUNGA	5.266,04	M130S	1.982,46

100	4P	B	LUNGA	5.900,34	M130S	1.982,46
40	4P	B	MEDIA	1.049,26	M130L	744,33
45	4P	B	MEDIA	1.215,24	M130L	744,33
50	4P	B	MEDIA	1.501,76	M130L	744,33
56	4P	B	MEDIA	1.713,19	M130L	744,33
63	4P	B	MEDIA	1.977,98	M130M	877,53
71	4P	B	MEDIA	2.572,75	M130P	1.081,24
80	4P	B	MEDIA	3.424,41	M130Q	1.261,45
90	4P	B	MEDIA	4.938,02	M130S	1.982,46
100	4P	B	MEDIA	5.234,42	M130S	1.982,46
63	4P	C	LUNGA	2.784,18	M130P	1.081,24
71	4P	C	LUNGA	2.958,07	M130P	1.081,24
90	4P	C	LUNGA	5.266,04	M130S	1.982,46
100	4P	C	LUNGA	7.439,64	M130T	2.467,06
63	4P	C	MEDIA	2.608,32	M130P	1.081,24
71	4P	C	MEDIA	2.728,86	M130P	1.081,24
80	4P	C	MEDIA	4.110,08	M130R	1.798,15
90	4P	C	MEDIA	4.938,02	M130S	1.982,46
100	4P	C	MEDIA	6.732,23	M130T	2.467,06
71	4P	D	LUNGA	3.141,84	M130Q	1.261,45
80	4P	D	LUNGA	4.627,79	M130S	1.982,46
90	4P	D	LUNGA	5.769,92	M130T	2.467,06
100	4P	D	LUNGA	8.504,70	M130W	3.260,07
71	4P	D	MEDIA	2.908,67	M130Q	1.261,45
80	4P	D	MEDIA	4.432,17	M130S	1.982,46
90	4P	D	MEDIA	5.428,07	M130T	2.467,06
100	4P	D	MEDIA	7.769,63	M130W	3.260,07
100	4P	E	LUNGA	11.237,51	M130X	3.819,60
100	4P	E	MEDIA	10.781,06	M130X	3.819,60

Price List – 6-Pole Three-Phase

Models EVEI	Poli	Fan Type	Cassa	Euro	Inverter IP20	
					Models	Euro
50	6P	A	LUNGA	1.448,41	M130L	744,33
56	6P	A	LUNGA	1.618,34	M130L	744,33
63	6P	A	LUNGA	2.242,76	M130L	744,33
71	6P	A	LUNGA	2.284,26	M130L	744,33
80	6P	A	LUNGA	2.529,28	M130L	744,33
90	6P	A	LUNGA	3.714,88	M130M	877,53
100	6P	A	LUNGA	4.351,15	M130M	877,53
50	6P	A	MEDIA	1.308,11	M130L	744,33
56	6P	A	MEDIA	1.450,38	M130L	744,33
63	6P	A	MEDIA	2.080,73	M130L	744,33
71	6P	A	MEDIA	2.074,80	M130L	744,33
80	6P	A	MEDIA	2.388,98	M130L	744,33
90	6P	A	MEDIA	3.428,36	M130M	877,53
100	6P	A	MEDIA	3.724,76	M130M	877,53
63	6P	B	LUNGA	2.274,38	M130L	744,33
71	6P	B	LUNGA	2.580,66	M130M	877,53
80	6P	B	LUNGA	2.663,65	M130M	877,53
90	6P	B	LUNGA	4.084,39	M130P	1.081,24
100	6P	B	LUNGA	4.718,69	M130P	1.081,24
63	6P	B	MEDIA	2.112,34	M130L	744,33
71	6P	B	MEDIA	2.363,30	M130M	877,53
80	6P	B	MEDIA	2.521,38	M130M	877,53
90	6P	B	MEDIA	3.786,02	M130P	1.081,24
100	6P	B	MEDIA	4.082,42	M130P	1.081,24
80	6P	C	LUNGA	3.076,63	M130M	877,53
90	6P	C	LUNGA	4.084,39	M130P	1.081,24
100	6P	C	LUNGA	5.410,29	M130Q	1.261,45
80	6P	C	MEDIA	2.922,50	M130M	877,53
90	6P	C	MEDIA	3.786,02	M130P	1.081,24

100	6P	C	MEDIA	4.756,23	M130Q	1.261,45
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Price List – 8-Pole Three-Phase

Models EVEI	Poli	Fan Type	Cassa	Euro	Inverter IP20	
					Models	Euro
56	8P	A	LUNGA	1.746,78	M130L	744,33
63	8P	A	LUNGA	1.855,46	M130L	744,33
71	8P	A	LUNGA	2.298,09	M130L	744,33
80	8P	A	LUNGA	2.543,11	M130L	744,33
90	8P	A	LUNGA	3.629,91	M130M	877,53
100	8P	A	LUNGA	4.266,18	M130M	877,53
56	8P	A	MEDIA	1.576,85	M130L	744,33
63	8P	A	MEDIA	1.703,31	M130L	744,33
71	8P	A	MEDIA	2.088,63	M130L	744,33
80	8P	A	MEDIA	2.402,82	M130L	744,33
90	8P	A	MEDIA	3.345,37	M130M	877,53
100	8P	A	MEDIA	3.641,77	M130M	877,53
80	8P	B	LUNGA	2.543,11	M130L	744,33
90	8P	B	LUNGA	3.629,91	M130M	877,53
100	8P	B	LUNGA	4.389,42	M130M	877,53
80	8P	B	MEDIA	2.402,82	M130L	744,33
90	8P	B	MEDIA	3.345,37	M130M	877,53
100	8P	B	MEDIA	3.807,75	M130M	877,53