ELIC Ex

fanevolution

RING AXIAL FAN IN EXPLOSIVE ATMOSPHERE G OR D GROUP II CATEGORY 2 OR 3

FIELD OF APPLICATION
ELIC Ex line is designed to grant a correct air extraction avoiding risks of explosion due to the presence of flammable gases. For instance in ventilation of battery rooms, petro-chemical platforms, laboratories etc., for wall or panel fixing.

SERIES
This line consists of 13 sizes with impeller diameter from 300 up to 1250 mm.

ADVANTAGES
ELIC Ex line is characterized by particular materials and design to avoid as much as possible the risk of explosion, according to the ATEX 2014/34/UE directive. Different constructions are foreseen for fans in category 2G, 2D or 3G, 3D.

ARRANGEMENT
- Ring casing , in epoxy painted steel sheet with or without aluminum stripe around the impeller rotation area.
- Motor side protection grid, manufactured according to UNI EN ISO 12499 standards, in steel rod, protected against the atmospheric agents.
- Impeller with high efficiency airfoil blades, in aluminum, or in antistatic plastic material, hub in die-cast aluminum alloy. Balancing according to UNI ISO 21940-11.
- Variable pitch angle in still position.
- Asynchronous three phase or single phase electric motor, IP55, class F, service S1 mounting type B3, according to IEC/EEC (UNEL-MEC) Explasion proof ATEX APPROVED FOR EXPLOSIVE ATMOSPHERE G or D GROUP II.
- Arrangement 4 (impeller directly coupled to motor shaft):

TECHNICAL DETAILS
ELIC Ex (ATEX version)
- Conveyed fluid: clean gas, not abrasive or corrosive.
- Temperature of conveyed fluid: -20 °C / +40°C.
- Voltage: three-phase version (T) 400 - 415V - 3Ph - 50Hz
  single-phase version (M) 230 - 240V - 1Ph - 50Hz
- Air flow from motor to impeller (AMI).

VARIANTS
ELIC-RDS: casing with double round shaped nozzle.
ELIC-RSS: casing with single round shaped nozzle.

OPTIONALS
- Protection grid, impeller side (RPW-RPP) (Necessary for use in free air)
- Gravity shutter (SHT and SHU) (for safe area).
- Square panel (SP).
- Fixing feet (FT-EL).

ON DEMAND
- Performances different from catalogue.
- Versions with 100% reversible air flow (ELIC REV).
- Versions with conveyors in stainless steel, or aluminum or other materials according to the actual directives.
- Versions with casing with one round shaped inlet and flat flange impeller side (ELIC-RDI).
- Versions with casing with one round shaped inlet and flat flange motor side (ELIC-RDM).
- Versions with air flow from impeller to motor (AIM).
- Special voltage and frequency

ELIC Ex Performances

Performance shown in the selection diagrams refer to air at 15°C temperature and 0 mt a.s.l. altitude, and they were obtained in installation type "D" with no grid nor accessories.

2 poles **(3000 rpm) -** single-phase **(230 - 240V - 1Ph - 50Hz)**

Model	Flow rate (m^3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
312/A M	3.400	0,25	1,7	63	70
352/A M	4.500	0,55	4	71	74
402/A M	7.600	1,1	8	80	79

2 poles **(3000 rpm)** - three-phase **(400 - 415V - 3Ph - 50Hz)**

Model	Flow rate (m^3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
312/A T	3.400	0,25	0,7	63	70
352/A T	4.500	0,55	1,6	71	74
402/A T	7.600	1,1	2,6	80	79

4 poles **(1500 rpm)** - single-phase **(230 - 240V - 1Ph - 50Hz)**

Model	Flow rate (m^3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
314/A M	2.400	0,09	1	56	52
354/A M	3.200	0,18	1,6	63	56
404/A M	3.200	0,18	1,6	63	61
404/B M	4.500	0,18	1,6	63	62
454/A M	6.000	0,25	2,3	71	65
454/B M	7.200	0,37	3,3	71	66

4 poles **(1500 rpm)** - three-phase **(400 - 415V - 3Ph - 50Hz)**

Model	Flow rate (m^3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
314/A T	2.400	0,09	0,4	56	52
354/A T	3.200	0,18	0,6	63	56
404/A T	3.700	0,18	0,6	63	61
404/B T	4.500	0,18	0,6	63	62
454/A T	6.000	0,25	0,8	71	65
454/B T	7.200	0,37	1,2	71	66
504/A T	7.700	0,37	1,2	71	68
504/B T	9.200	0,55	1,6	80	69
564/A T	10.000	0,55	1,6	80	71
564/B T	11.000	0,75	2	80	72
634/A T	12.000	0,75	2	80	75
634/B T	15.000	1,1	2,8	90	76
634/C T	16.000	2,2	5	100	76
714/A T	16.000	1,5	3,5	90	77
714/B T	21.000	2,2	5	100	77
714/C T	18.000	2,2	5	100	77
714/D T	22.000	3	6,5	100	79
804/A T	22.000	3	6,5	100	78
804/B T	27.000	4	8,2	112	79
804/C T	32.000	5,5	11	132	**80**
804/D T	40.000	7,5	15	132	**80**
904/A T	36.000	5,5	11	132	**85**
904/B T	40.000	7,5	15	132	**86**
904/C T	43.000	7,5	15	132	**86**
904/D T	50.000	9,2	18	132	**86**
1004/A T	40.000	5,5	11	132	**88**
1004/B T	49.000	7,5	15	132	**89**
1004/C T	55.000	11	21	160	**89**

6 poles **(1000 rpm)** - three-phase **(400 - 415V - 3Ph - 50Hz)**

Model	Flow rate (m_3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
506/A T	6.000	0,18	0,7	71	58
566/A T	8.500	0,25	1	71	62
636/A T	11.000	0,37	1,3	80	66
636/B T	13.500	0,75	2,2	90	65
716/A T	15.000	0,75	2,2	90	67
716/B T	16.500	1,10	3	90	66
806/A T	14.500	0,75	2,2	90	68
806/B T	18.000	1,1	3	90	68
806/C T	21.000	1,5	4	100	69
906/A T	23.500	1,5	4	100	74
906/B T	28.000	2,2	5	112	75
906/C T	30.500	2,2	5	112	75
1006/A T	25.500	1,5	4	100	79
1006/B T	32.000	2,2	5	112	79
1006/C T	38.500	3	7	132	**80**
1126/B T	45.000	4	9	132	**83**
1126/C T	54.000	5,5	12	132	**83**
1256/B T	50.000	7,5	15	160	**87**
1256/C T	70.000	11	22	160	**88**

8 poles **(750 rpm)** - three-phase **(400 - 415V - 3Ph - 50Hz)**

Model	Flow rate (m_3/h)	Pm (kW)	In max (A)	Mot. (H)	Lp dB(A)
568/A T	6.500	0,12	0,7	71	56
638/A T	8.000	0,18	0,8	80	60
718/A T	11.000	0,37	1,5	90	61
808/A T	10.500	0,37	1,5	90	61
808/B T	12.000	0,37	1,5	90	62
908/A T	17.000	0,75	2,3	100	69
908/B T	19.000	0,75	2,3	100	74
1008/A T	19.500	0,75	2,3	100	74
1008/B T	24.000	1,1	3,4	100	74
1128/C T	40.500	2,2	5,5	132	77
1258/A T	31.600	2,2	5,5	132	**81**
1258/B T	37.300	3	7,3	132	**81**
1258/C T	46.700	4	9,3	160	**82**

Tolerances: performances and sound power levels within the tolerances allowed by the DIN 24166 standard for Class 2.

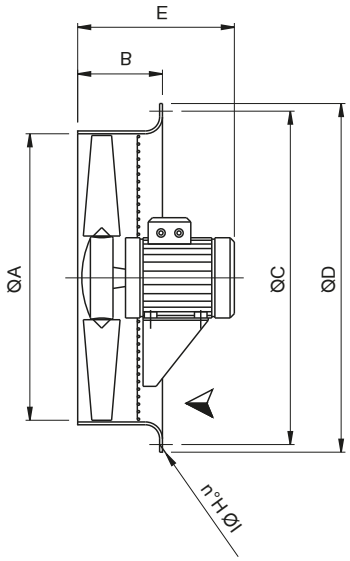
Attention: sound pressure level is measured in free field at 3 m from the fan, in any direction, with ducted inlet and outlet.

ELIC Ex Dimensions

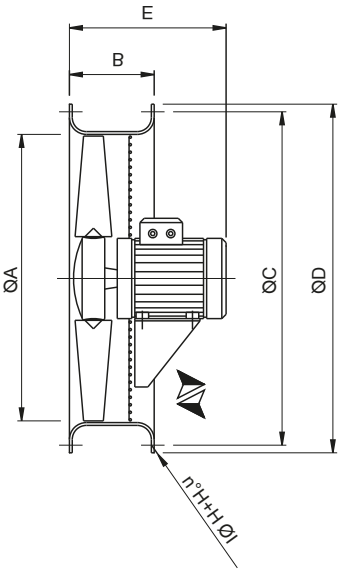
Model	ØA	B(sr)	B(dr)	B(drp)	ØC	ØD	E(*)	ØF	ØG	n°H	Øl	n°L	ØM	*kg
25	260	135	150	-	310	320	310	-	-	4	8	-	-	13/21
31	310	135	150	150	365	390	360	-	-	4	8	-	-	19/24
35	360	135	150	150	430	455	390	-	-	4	8	-	-	20/39
40	410	135	150	150	480	510	420	450	480	4	10	8	12	22/41
45	460	150	150	150	535	560	420	500	530	4	10	8	12	25/49
50	510	150	150	150	590	620	420	560	595	8	10	12	12	29/52
56	570	180	180	180	645	680	450	620	655	8	10	12	12	36/57
60	610	180	180	180	680	720	500	640	670	8	10	12	12	45/72
63	640	180	180	180	720	750	530	690	725	8	10	12	12	46/73
71	710	180	180	180	780	816	560	770	805	8	12	16	12	56/125
80	810	200	200	200	880	915	630	860	900	8	12	16	12	70/155
90	910	250	250	250	980	1015	680	970	1010	16	12	16	16	90/220
100	1010	250	250	250	1080	1115	740	1070	1110	16	12	16	16	110/260
112	1130	250	250	250	1226	1250	740	1190	1230	16	12	20	16	135/285
125	1260	250	250	250	1350	1380	780	1320	1360	16	12	20	16	170/340
140	1400	400	400	400	1580	1620	1000	1470	1520	20	16	20	16	300/510
160	1610	450	450	450	1810	1860	1050	1680	1735	24	16	24	20	410/630

Dimensions in mm
(*) Indicative

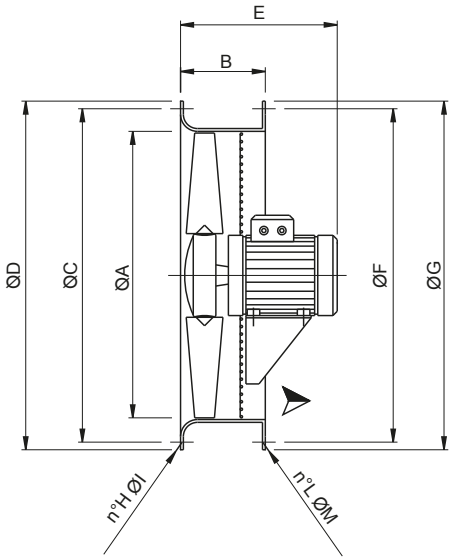
ELIC-RSS Ex



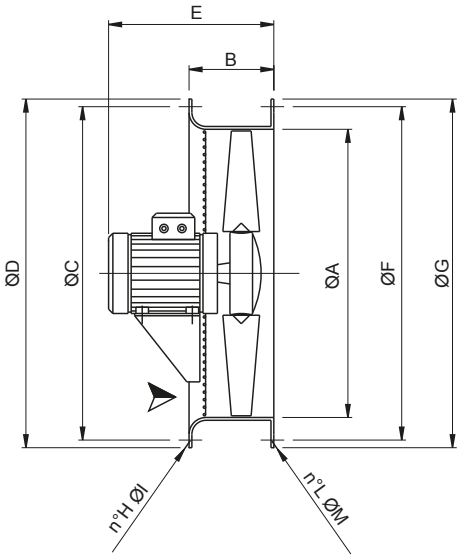
ELIC-RSD Ex

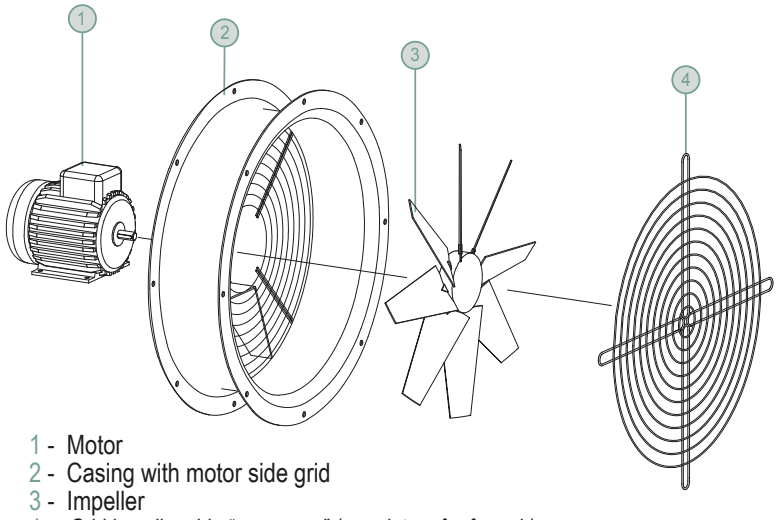


ELIC-RDM Ex



ELIC-RDI Ex





1 - Motor
2 - Casing with motor side grid
3 - Impeller
4 - Grid impeller side “accessory” (mandatory for free air)