



Smart Fan technology



RF



SQ W



TB

**RF – SQ W – TB Plastic
Impeller Blades Axial Fans**



Impeller Construction

AXI-PI-10/30 “Plastic Polyimide Blades” Axial Impeller

- AXI-PL: High efficiency fixed pitch angle reinforced extruded polyimide airfoil blades.
- No of airfoil fixed blades is 10 with pitch angle 30 °
- Die Cast Aluminum hub directly coupled with Impeller blades balanced statically and dynamically in accordance with DIN ISO 1940-1, quality grade G6,3.
- low / medium pressure available in sizes from 350 up to 700 mm impeller diameter.
- Maximum air flow rate is 20,000 m³/h , maximum static pressure is 350 pa.
- Standard airflow direction is from motor to impeller, the opposite direction available on request.
- The AXI - PL axial impeller fans have been locally performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99



Applications / Construction

RF – Roof top dome type axial fans

- Smart Fan Square Roof Top Propeller Axial direct drive fan series model range RF - AXI-PL of low / medium pressure available in sizes from 350 up to 700 mm impeller diameter.
- High efficiency fixed pitch angle airfoil Nyl/plastic Impeller blades.
- Die Cast Aluminum hub directly coupled with Impeller blades balanced statically and dynamically in accordance with DIN ISO 1940-1, quality grade G6,3.
- Body and Cap fabricated from formed steel protected by an electrostatic powder coating paint.
- Standard airflow is from motor to impeller, the opposite direction available on request;
- The RF - AXI - PL axial fans have been locally performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99
- IEC standard three phase motor, directly derive in the air stream.
- CE certified Motor Protection class IP55, insulation class F, according IEC standard.



SQ W - Square Wall Mounted type axial fans

- Smart Fan Square Wall mounting propeller Axial direct derive fan series model range SQ-W-AXI-PL of low / medium pressure available in sizes from 350 up to 700 mm impeller diameter.
- High efficiency fixed pitch angle airfoil Nyl/plastic Impeller blades.
- Die Cast Aluminum hub directly coupled with Impeller blades balanced statically and dynamically in accordance with DIN ISO 1940-1, quality grade G6,3.
- Body and protection grille in steel protected by an electrostatic powder coating paint.
- Standard airflow is from motor to impeller, the opposite direction available on request;
- The SQ-W - AXI - PL axial fans have been locally performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99
- IEC standard three phase motor, directly derive in the air stream.
- CE certified Motor Protection class IP55, insulation class F, according IEC standard.



TB - Ducted Type Tube axial fans

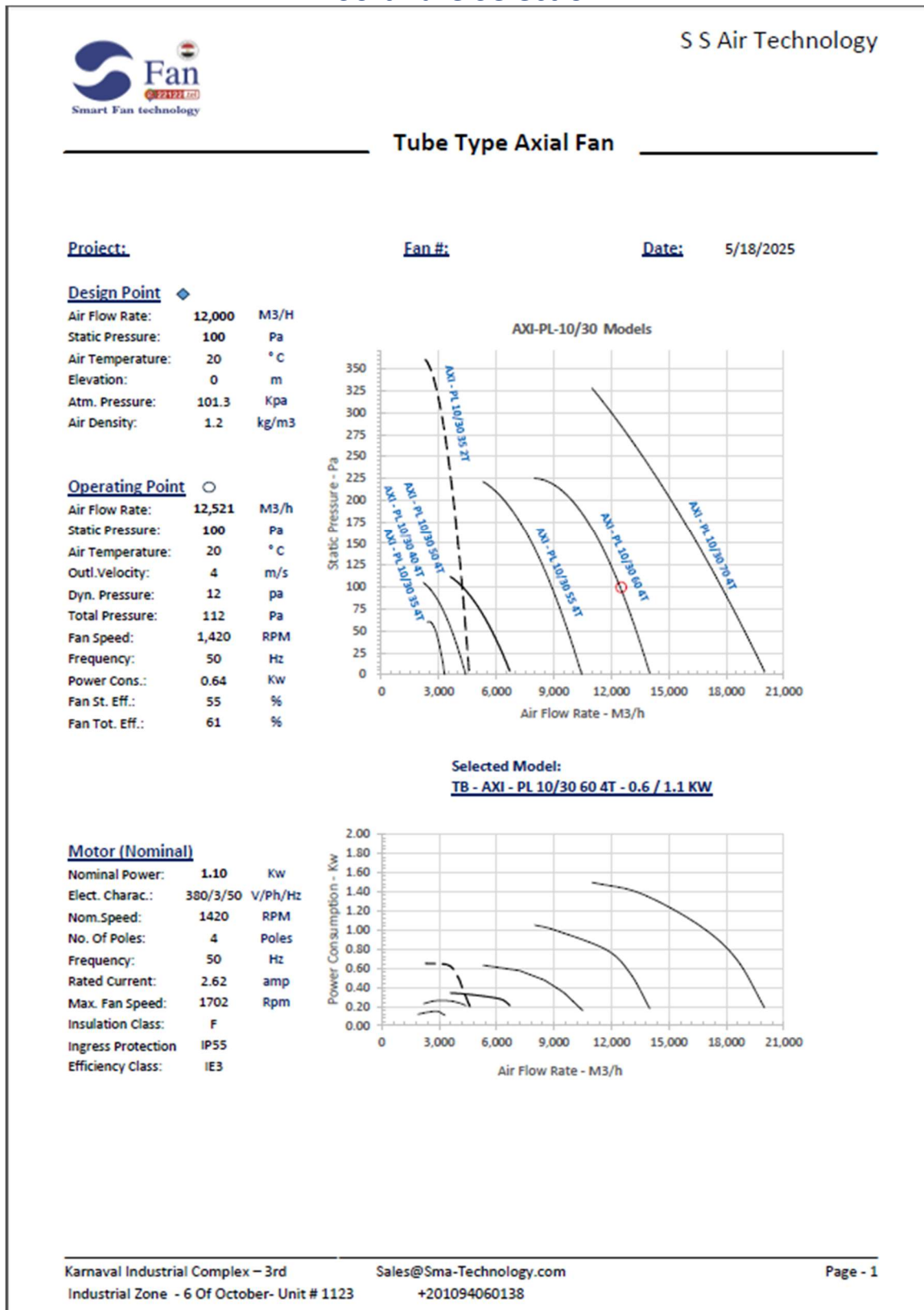
- Smart Fan ducted Type Tube Axial In - line direct derive fan series model range TB - AXI-PL of low / medium pressure available in sizes from 350 up to 700 mm impeller diameter. -
- High efficiency fixed pitch angle airfoil Nyl/plastic Impeller blades.
- Die Cast Aluminum hub directly coupled with Impeller blades balanced statically and dynamically in accordance with DIN ISO 1940-1, quality grade G6,3.
- Casing in steel sheet protected with epoxy painting.
- Standard airflow is from motor to impeller, the opposite direction available on request
- The TB - AXI - PL axial fans have been locally performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99 - IEC standard three phase motor, directly derive in the air stream.
- CE certified Asynchronous electric motor Protection class IP55, insulation class F, form B3, service S1 construction according to the IEC/EEC (UNEL-MEC).

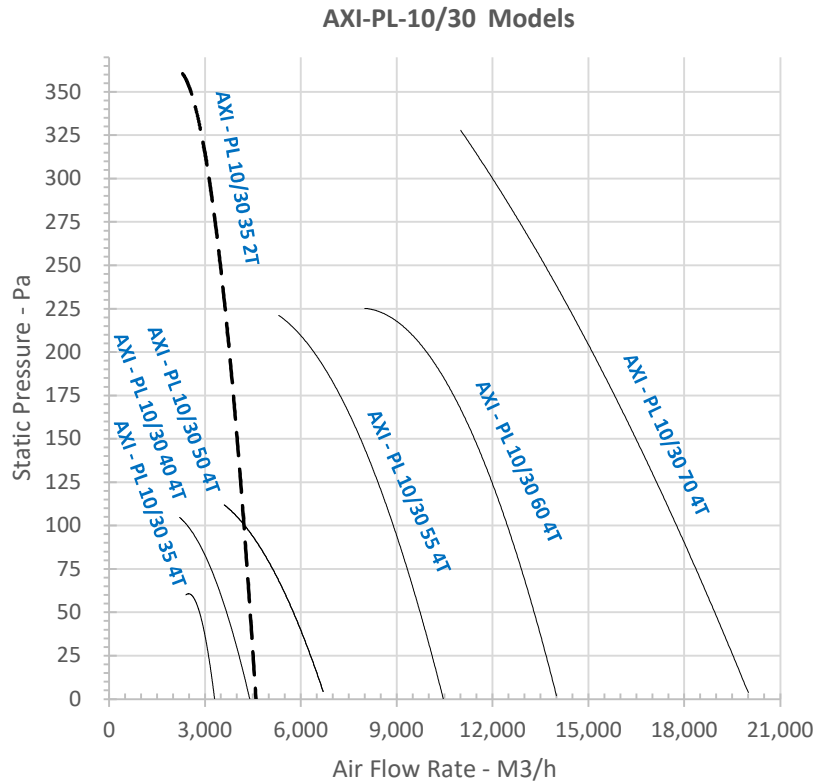


Nomenclature

TYPE	RF – SQ W – TB : Smart Air axial Fans type
Impeller	AXI – PL – 10 / 30 Axial Plastic 10 blades fixed angle 30 °C
Size	350 – 400 – 500 - 550 – 600 - 700
Arrangement	RF (roof type) – SQ W (wall type) – TB (tube type)
Air Flow Direction	MI : Motor to impeller or IM: Impeller to motor
Motor	Power (KW), M: mono, T : Three Phase P : No. Of Poles, IE: Efficiency Class
Accessories	FL: Flexible Connection MC : Motor Cover SC: Special Epoxy Coating. VI: Vibration Isolator VSD: Frequency inverter DS : Disconnect Switch

Software Selection

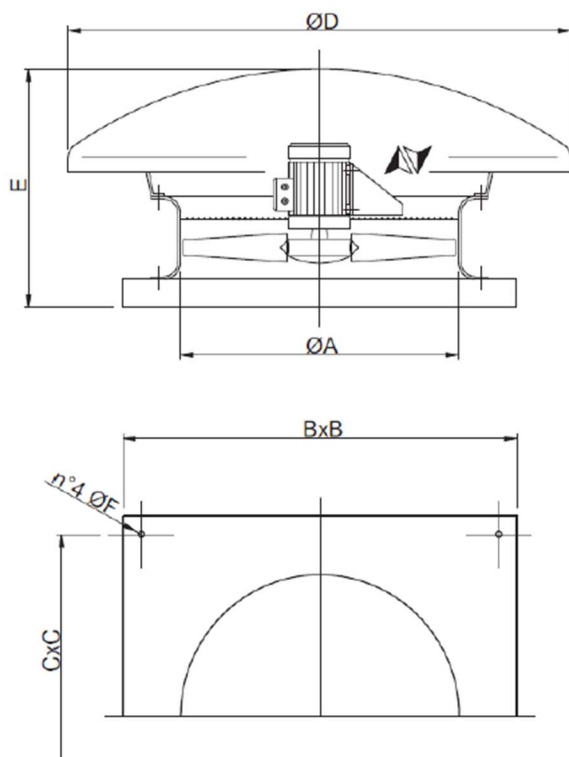




Model	Motor	N° Poles	Rev. Minute (RPM)	Voltage (V)	Frequency (Hz)	Flow Rate (m3/h)	Max Press. (mm H2O)	Max Press. (Pa)	Power (W)	Nom. Curr. 400v	Ip Motor	Noise db(A)2m	Weight (KG)
AXI - PL 10/30 35 4T	Three p.	4	1450	400	50	2980	9	90	140	0.35	IP55	49	12
AXI - PL 10/30 40 4T	Three p.	4	1450	400	50	3380	9.5	95	140	0.34	IP55	54	13
AXI - PL 10/30 50 4T	Three p.	4	1450	400	50	5650	10.5	105	240	0.59	IP55	62	20
AXI - PL 10/30 50 4T	Three p.	4	1450	400	50	5650	10.5	105	240	0.59	IP55	62	20
AXI - PL 10/30 55 4T	Three p.	4	1450	400	50	8300	19	190	630	1.31	IP55	61	28
AXI - PL 10/30 60 4T	Three p.	4	1450	400	50	10750	22	220	770	1.60	IP55	66	34
AXI - PL 10/30 70 4T	Three p.	4	1450	400	50	15800	31	305	1480	3.05	IP55	74	50
AXI - PL 10/30 35 2T	Three p.	2	2900	400	50	4700	38	370	630	1.19	IP55	67	14

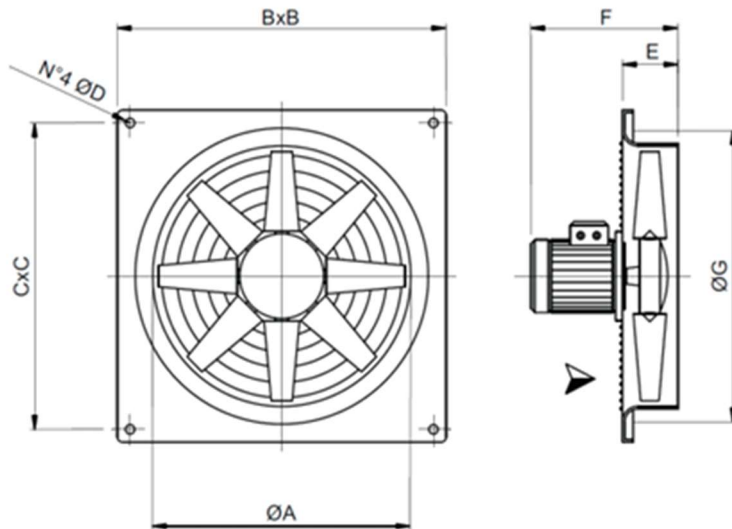
Dimensions

RF – Roof Top



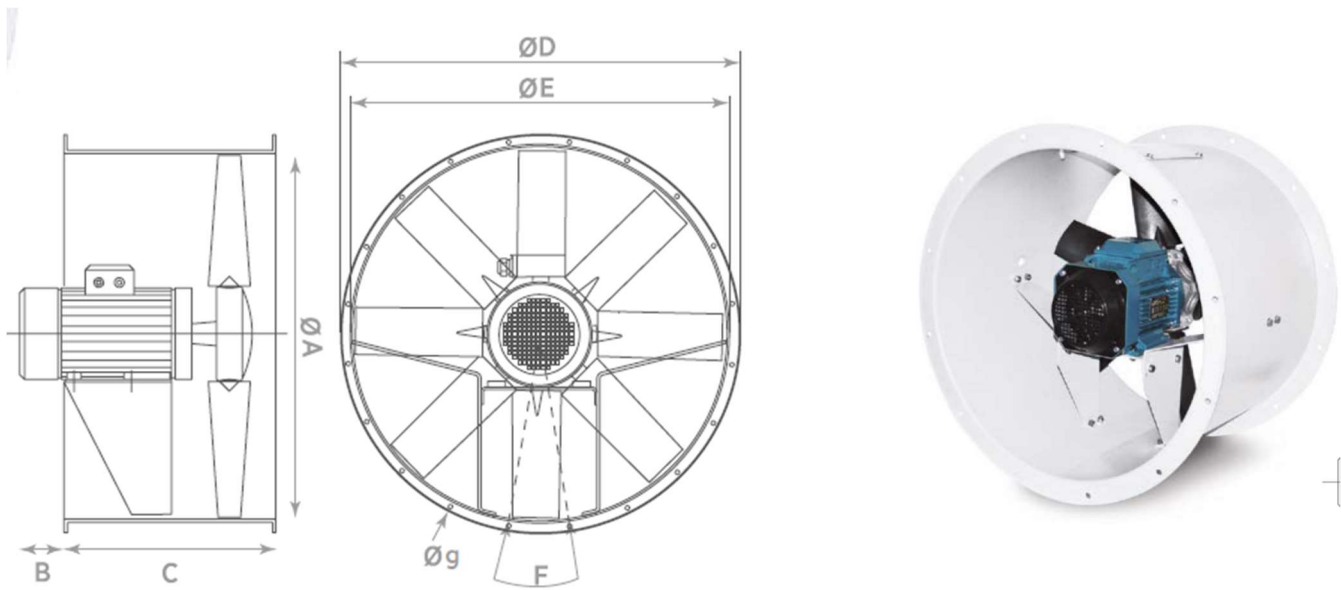
Model	$\varnothing A$	$B \times B$	$C \times C$	$\varnothing D$	E	$\varnothing F$	dB(A)	Kg
AXI - PL 10/30 35 4T	355	375	360	600	350	8	49	10.2
AXI - PL 10/30 40 4T	410	650	610	700	375	8	55	12.2
AXI - PL 10/30 50 4T	510	760	710	1000	450	10	62	13.4
AXI - PL 10/30 55 4T	570	760	710	1000	450	10	63	15.6
AXI - PL 10/30 60 4T	640	930	870	1200	500	10	65	18.8
AXI - PL 10/30 70 4T	710	930	870	1200	500	10	73	22.8
AXI - PL 10/30 35 2T	1027	1300	1200	1600	700	12	67	10.2

SQ W - Square Wall type



Model	Ø A	BxB	CxC	Ø D	E	F (*)	dB(A)	Kg
AXI - PL 10/30 35 4T	360	440	400	10	110	360	49	7.2
AXI - PL 10/30 40 4T	410	500	450	10	110	390	55	8
AXI - PL 10/30 50 4T	510	650	580	10	110	400	62	10.6
AXI - PL 10/30 55 4T	570	700	630	10	130	410	63	11.2
AXI - PL 10/30 60 4T	640	800	730	12	130	410	65	11.5
AXI - PL 10/30 70 4T	710	850	800	12	130	510	73	12.7
AXI - PL 10/30 35 2T	360	440	400	10	110	360	67	6.8

TB – Tube Axial



Model	Ø A	B	C	Ø D	Ø E	F	Ø G	dB(A)	Kg
AXI - PL 10/30 35 4T	356	50	250	421	395	45	10	49	12
AXI - PL 10/30 40 4T	400	50	250	472	450	45	12	54	13
AXI - PL 10/30 50 4T	503	57	280	590	560	30	12	62	20
AXI - PL 10/30 55 4T	559	53	330	650	620	30	12	61	28
AXI - PL 10/30 60 4T	634	57	340	720	690	30	12	66	34
AXI - PL 10/30 70 4T	711	73	390	800	770	22.5	12	74	50
AXI - PL 10/30 35 2T	356	40	280	421	395	45	10	67	14