

PRESTUR ATEX (2G)



MEDIUM PRESSURE FAN, BACKWARD IMPELER, DIRECT DRIVEN WITH FLANGED MOTOR ATEX

MANUFACTURING FEATURES:

- Medium pressure centrifugal fan with direct coupling.
- Reinforced housing made of carbon laminated steel, protected against corrosion by powder coating polyester resin RAL 5010. Finish C3.
- Casing fully latched and adjustable.
- Self-cleaning turbine and reinforced impeller with high-performance backward (reaction) blades made of carbon laminated steel dynamically balanced to minimize noise and vibrations. Black painting RAL 9005
- Squirrel cage standardized asynchronous IEC motor with IP-55 protection and class F electrical insulation. Standard voltages 230/400V 50Hz for three-phase motors up to 4kW and 400/690V 50Hz, for higher powers.
- Motor with flange (B5)
- Double suction flange
- Available in the following guidelines (to be indicated in case of order): LG and RD.
- Maximum working temperature in continuous: transported air: 130°C, ambient: 60°C.

Available in the following versions (to be indicated in case of order):

- ATEX II2G Ex_d
- ATEX II2G Ex_e
- ATEX II3GD Ex_na (see PRESTUR ATEX (3G))

APPLICATIONS

Suitable for moving clean or dusty air. Designed to be fixed in the double suction flange, with the motor in vertical position.

- Paint booths
- Collection of dust
- Food industry dryers
- Food processing
- Incineration
- Odor control in industry
- Indoor / outdoor pollution control
- Big buildings
- Malls
- Factories / Industrial buildings
- Warehouses
- Extraction of smoke
- Boilers and ovens
- Manufacture and treatment of chemical products.
- Tunnels, underground stations.

ON DEMAND

- Fans for 60Hz and special voltages.
- 2 speed motor.
- C4 or C5 coating painting
- Hot dip galvanized

- Inox 304 (normal or electropolished finish)
- Inox 316 (normal or electropolished finish)
- Cooling wheel
- Anticaloric paint
- Fully welded housing (waterproof)
- Inspection door to facilitate maintenance and cleaning
- Drain plug.
- Airtight axle
- Other brands of motors.

Technical data

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
PS311280X_	PRESTUR 311 T2 1,1kW ATEX (2G)	2800	2,6	1,10	4.710	58	56	1
PS312280X_	PRESTUR 312 T2 1,1kW ATEX (2G)	2800	2,6	1,10	4.960	59	58	1
PS351290X_	PRESTUR 351 T2 2,2kW ATEX (2G)	2840	5,4	2,20	6.750	62	85	1
PS352290X_	PRESTUR 352 T2 2,2kW ATEX (2G)	2840	5,4	2,20	7.100	63	88	1
PS4012100X_	PRESTUR 401 T2 3kW ATEX (2G)	2880	7,3	3	9.650	66	108,50	1
PS4022112X_	PRESTUR 402 T2 4kW ATEX (2G)	2880	9,2	4	10.160	67	116,50	1

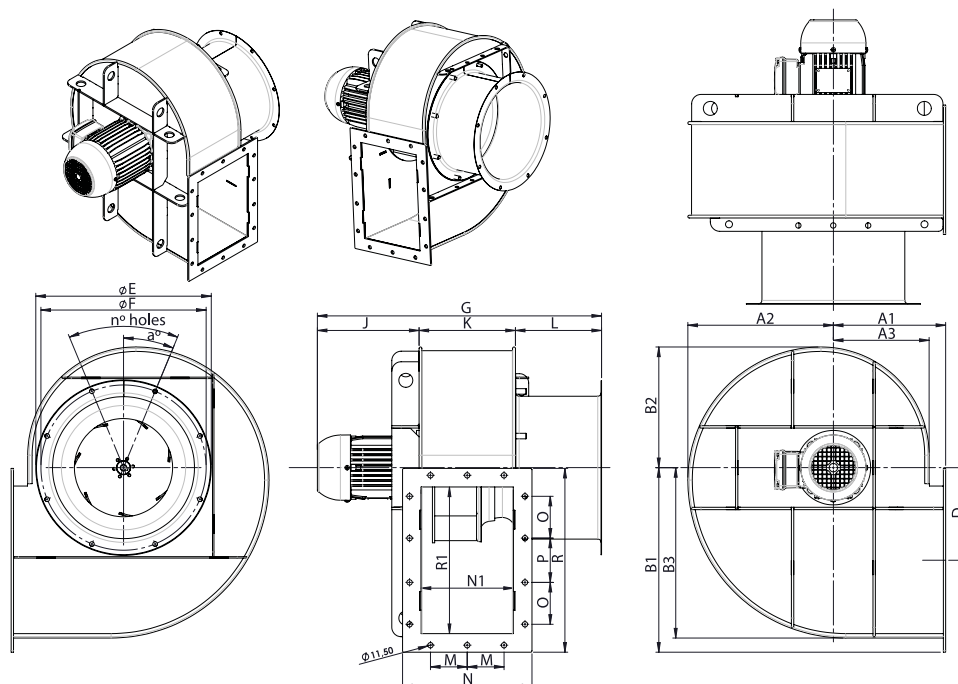
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
PS311471X_	PRESTUR 311 T4 0,37kW ATEX (2G)	1400	1,2	0,37	2.360	43	46,20	1
PS312471X_	PRESTUR 312 T4 0,37kW ATEX (2G)	1400	1,2	0,37	2.480	44	48,20	1
PS351471X_	PRESTUR 351 T4 0,37kW ATEX (2G)	1400	1,2	0,37	3.370	47	66,20	1
PS352471X_	PRESTUR 352 T4 0,37kW ATEX (2G)	1400	1,2	0,37	3.550	48	69,20	1
PS401480X_	PRESTUR 401 T4 0,55kW ATEX (2G)	1400	1,75	0,55	4.830	51	79	1
PS402480X_	PRESTUR 402 T4 0,55kW ATEX (2G)	1400	1,75	0,55	5.080	51	82	1
PS451480X_	PRESTUR 451 T4 0,75kW ATEX (2G)	1410	2,1	0,75	6.870	54	95	1
PS452490X_	PRESTUR 452 T4 1,1kW ATEX (2G)	1450	3,3	1,10	7.230	55	106	1
PS501490X_	PRESTUR 501 T4 1,5kW ATEX (2G)	1440	3,8	1,50	9.420	57	122	1
PS502490X_	PRESTUR 502 T4 1,5kW ATEX (2G)	1440	3,8	1,50	9.920	58	126	1
PS5614100X_	PRESTUR 561 T4 2,2kW ATEX (2G)	1435	5,8	2,20	13.240	61	154	1
PS5624100X_	PRESTUR 562 T4 3kW ATEX (2G)	1420	6,8	3	13.940	62	158	1
PS6314112X_	PRESTUR 631 T4 4kW ATEX (2G)	1440	9,1	4	18.850	65	200,80	1
PS6324132X_	PRESTUR 632 T4 5,5kW ATEX (2G)	1460	11,5	5,50	19.850	65	237	1
PS7114132X_	PRESTUR 711 T4 7,5kW ATEX (2G)	1455	15,6	7,50	26.980	68	308	1
PS7124132X_	PRESTUR 712 T4 9,2kW ATEX (2G)	1465	17,40	9,20	28.410	69	330,40	1
PS7124160X_	PRESTUR 712 T4 11kW ATEX (2G)	1465	20,9	11	28.410	69	330,40	1
PS8014160X_	PRESTUR 801 T4 15kW ATEX (2G)	1465	29,8	15	38.600	72	430	1
PS8024160X_	PRESTUR 802 T4 15kW ATEX (2G)	1465	29,8	15	40.640	73	440	1

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A1	A2	A3	B1	B2	B3	D	E	F
PRESTUR 311 T2 1,1kW ATEX (2G)	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 311 T4 0,37kW ATEX (2G)	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 312 T2 1,1kW ATEX (2G)	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 312 T4 0,37kW ATEX (2G)	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 351 T2 2,2kW ATEX (2G)	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 351 T4 0,37kW ATEX (2G)	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 352 T2 2,2kW ATEX (2G)	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 352 T4 0,37kW ATEX (2G)	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 401 T2 3kW ATEX (2G)	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 401 T4 0,55kW ATEX (2G)	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 402 T2 4kW ATEX (2G)	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 402 T4 0,55kW ATEX (2G)	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 451 T4 0,75kW ATEX (2G)	325.4	442.5	289.9	549.3	366.2	518.8	284.3	523	485
PRESTUR 452 T4 1,1kW ATEX (2G)	325.4	442.5	289.9	549.3	366.2	518.8	284.3	523	485
PRESTUR 501 T4 1,5kW ATEX (2G)	356.6	490.7	321.1	606	405.9	575.5	316	582	535
PRESTUR 502 T4 1,5kW ATEX (2G)	356.6	490.7	321.1	606	405.9	575.5	316	582	535
PRESTUR 561 T4 2,2kW ATEX (2G)	394	548.5	358.5	674	453.5	643.5	354	650	608
PRESTUR 562 T4 3kW ATEX (2G)	394	548.5	358.5	674	453.5	643.5	354	650	608
PRESTUR 631 T4 4kW ATEX (2G)	437.6	615.9	402.1	753.3	509	722.8	398.3	710	675
PRESTUR 632 T4 5,5kW ATEX (2G)	437.6	615.9	402.1	753.3	509	722.8	398.3	710	675

Model	A1	A2	A3	B1	B2	B3	D	E	F
PRESTUR 711 T4 7,5kW ATEX (2G)	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PRESTUR 712 T4 9,2kW ATEX (2G)	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PRESTUR 712 T4 11kW ATEX (2G)	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PRESTUR 801 T4 15kW ATEX (2G)	543.6	779.53	508.1	945.74	643.77	915.28	505.74	930	845
PRESTUR 802 T4 15kW ATEX (2G)	543.6	779.53	508.1	945.74	643.77	915.28	505.74	930	845

Model	G	J	K	L	M	N	N1	O	P
PRESTUR 311 T2 1,1kW ATEX (2G)	626.5	234.5	207	185	79	278	198	90	95
PRESTUR 311 T4 0,37kW ATEX (2G)	610.5	218.5	207	185	79	278	198	90	95
PRESTUR 312 T2 1,1kW ATEX (2G)	626.5	234.5	207	185	79	278	198	90	95
PRESTUR 312 T4 0,37kW ATEX (2G)	610.5	218.5	207	185	79	278	198	90	95
PRESTUR 351 T2 2,2kW ATEX (2G)	696	278	233	185	92	304	224	105	105
PRESTUR 351 T4 0,37kW ATEX (2G)	636.5	218.5	233	185	92	304	224	105	105
PRESTUR 352 T2 2,2kW ATEX (2G)	696	278	233	185	92	304	224	105	105
PRESTUR 352 T4 0,37kW ATEX (2G)	636.5	218.5	233	185	92	304	224	105	105
PRESTUR 401 T2 3kW ATEX (2G)	760.6	314.6	261	185	106	332	252	120	120
PRESTUR 401 T4 0,55kW ATEX (2G)	680.5	234.5	261	185	106	332	252	120	120
PRESTUR 402 T2 4kW ATEX (2G)	778.6	332.6	261	185	106	332	252	120	120
PRESTUR 402 T4 0,55kW ATEX (2G)	680.5	234.5	261	185	106	332	252	120	120
PRESTUR 451 T4 0,75kW ATEX (2G)	712.5	234.5	293	185	112	364	284	130	130
PRESTUR 452 T4 1,1kW ATEX (2G)	756	278	293	185	112	364	284	130	130
PRESTUR 501 T4 1,5kW ATEX (2G)	788	278	325	185	128	396	316	147	146
PRESTUR 502 T4 1,5kW ATEX (2G)	788	278	325	185	128	396	316	147	146
PRESTUR 561 T4 2,2kW ATEX (2G)	862.6	314.6	363	185	147	434	354	165	170
PRESTUR 562 T4 3kW ATEX (2G)	862.6	314.6	363	185	147	434	354	165	170
PRESTUR 631 T4 4kW ATEX (2G)	924.6	332.6	407	185	169	478	398	190	190
PRESTUR 632 T4 5,5kW ATEX (2G)	1000.3	408.3	407	185	169	478	398	190	190
PRESTUR 711 T4 7,5kW ATEX (2G)	1051.3	408.3	458	185	184.5	529	449	210	210
PRESTUR 712 T4 9,2kW ATEX (2G)	1051.3	408.3	458	185	184.5	529	449	210	210
PRESTUR 712 T4 11kW ATEX (2G)	1174.15	531.15	458	185	184.5	529	449	210	210
PRESTUR 801 T4 15kW ATEX (2G)	1230.15	531.15	514	185	202.5	585	505	233	234
PRESTUR 802 T4 15kW ATEX (2G)	1230.15	531.15	514	185	202.5	585	505	233	234

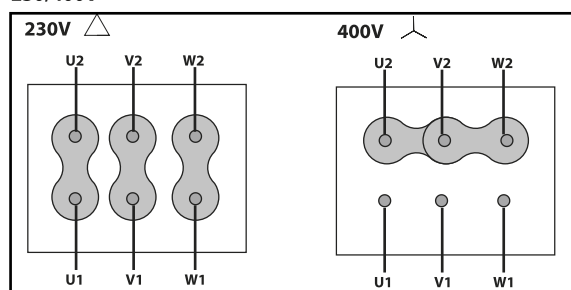
Model	R	R1	a°	n°holes
PRESTUR 311 T2 1,1kW ATEX (2G)	395	315	22,5°	8x45°
PRESTUR 311 T4 0,37kW ATEX (2G)	395	315	22,5°	8x45°
PRESTUR 312 T2 1,1kW ATEX (2G)	395	315	22,5°	8x45°
PRESTUR 312 T4 0,37kW ATEX (2G)	395	315	22,5°	8x45°
PRESTUR 351 T2 2,2kW ATEX (2G)	435	355	22,5°	8x45°
PRESTUR 351 T4 0,37kW ATEX (2G)	435	355	22,5°	8x45°

Model	R	R1	a°	n°holes
PRESTUR 352 T2 2,2kW ATEX (2G)	435	355	22,5°	8x45°
PRESTUR 352 T4 0,37kW ATEX (2G)	435	355	22,5°	8x45°
PRESTUR 401 T2 3kW ATEX (2G)	480	400	22,5°	8x45°
PRESTUR 401 T4 0,55kW ATEX (2G)	480	400	22,5°	8x45°
PRESTUR 402 T2 4kW ATEX (2G)	480	400	22,5°	8x45°
PRESTUR 402 T4 0,55kW ATEX (2G)	480	400	22,5°	8x45°
PRESTUR 451 T4 0,75kW ATEX (2G)	530	450	22,5°	8x45°
PRESTUR 452 T4 1,1kW ATEX (2G)	530	450	22,5°	8x45°
PRESTUR 501 T4 1,5kW ATEX (2G)	580	500	19°	8x45°
PRESTUR 502 T4 1,5kW ATEX (2G)	580	500	19°	8x45°
PRESTUR 561 T4 2,2kW ATEX (2G)	640	560	15°	12x30°
PRESTUR 562 T4 3kW ATEX (2G)	640	560	15°	12x30°
PRESTUR 631 T4 4kW ATEX (2G)	710	630	0°	12x30°
PRESTUR 632 T4 5,5kW ATEX (2G)	710	630	0°	12x30°
PRESTUR 711 T4 7,5kW ATEX (2G)	790	710	5°	16x22,5°
PRESTUR 712 T4 9,2kW ATEX (2G)	790	710	5°	16x22,5°
PRESTUR 712 T4 11kW ATEX (2G)	790	710	5°	16x22,5°
PRESTUR 801 T4 15kW ATEX (2G)	880	800	11,25°	16x11,25°
PRESTUR 802 T4 15kW ATEX (2G)	880	800	11,25°	16x11,25°

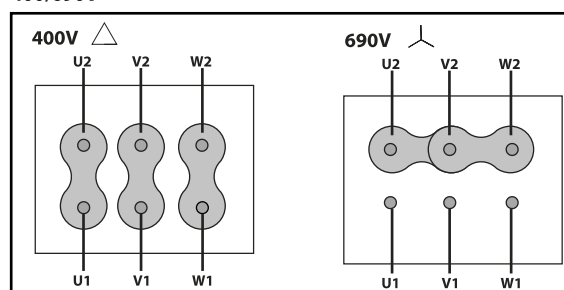
Wiring diagram

DIAGRAM N° 1

230/400V



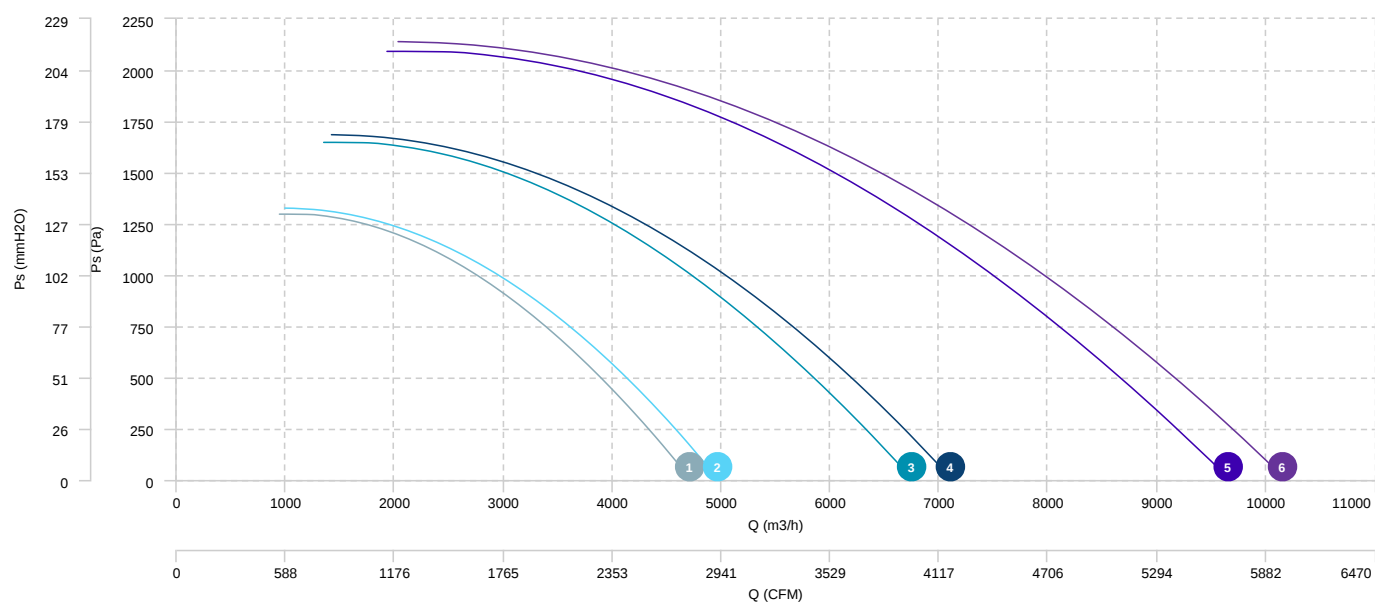
400/690V



CHARACTERISCTIC CURVE

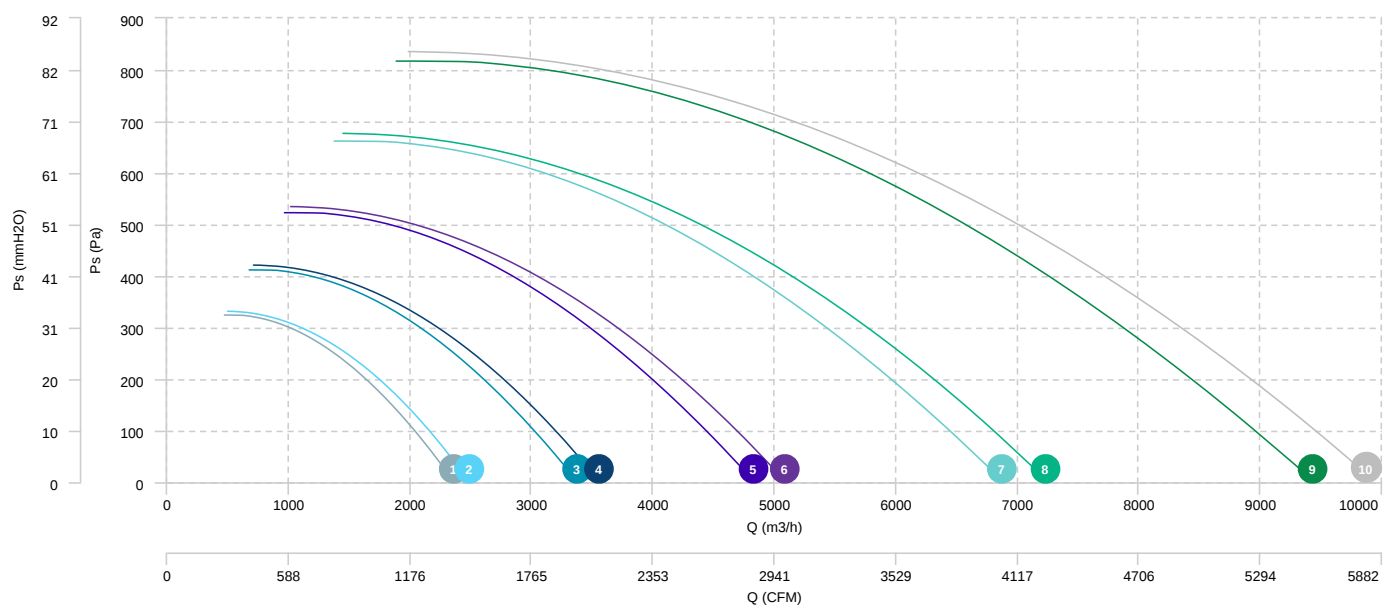
1	PRESTUR 311 T2 1,1kW ATEX (2G)	2	PRESTUR 312 T2 1,1kW ATEX (2G)	3	PRESTUR 351 T2 2,2kW ATEX (2G)	4	PRESTUR 352 T2 2,2kW ATEX (2G)
5	PRESTUR 401 T2 3kW ATEX (2G)	6	PRESTUR 402 T2 4kW ATEX (2G)				

AIR FLOW - PRESSURE



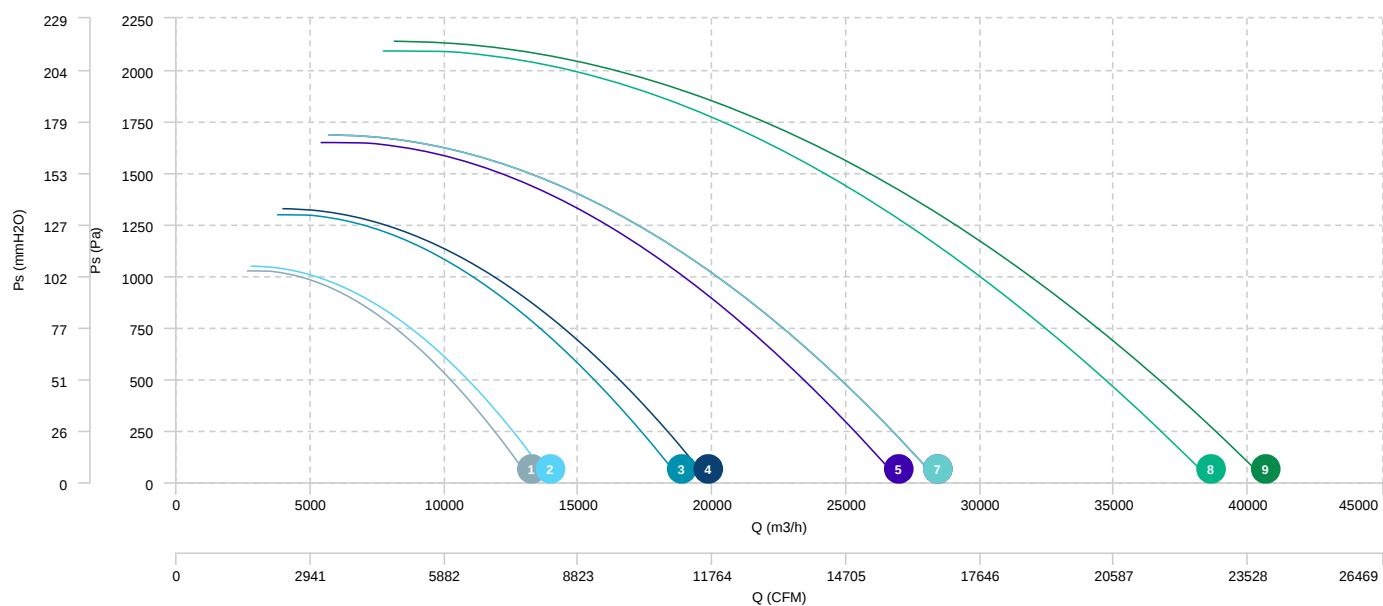
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5	PRESTUR 401 T4 0,55kW ATEX (2G)	6	PRESTUR 402 T4 0,55kW ATEX (2G)	7	PRESTUR 451 T4 0,75kW ATEX (2G)	8	PRESTUR 452 T4 1,1kW ATEX (2G)
9	PRESTUR 501 T4 1,5kW ATEX (2G)	10	PRESTUR 502 T4 1,5kW ATEX (2G)				

AIR FLOW - PRESSURE

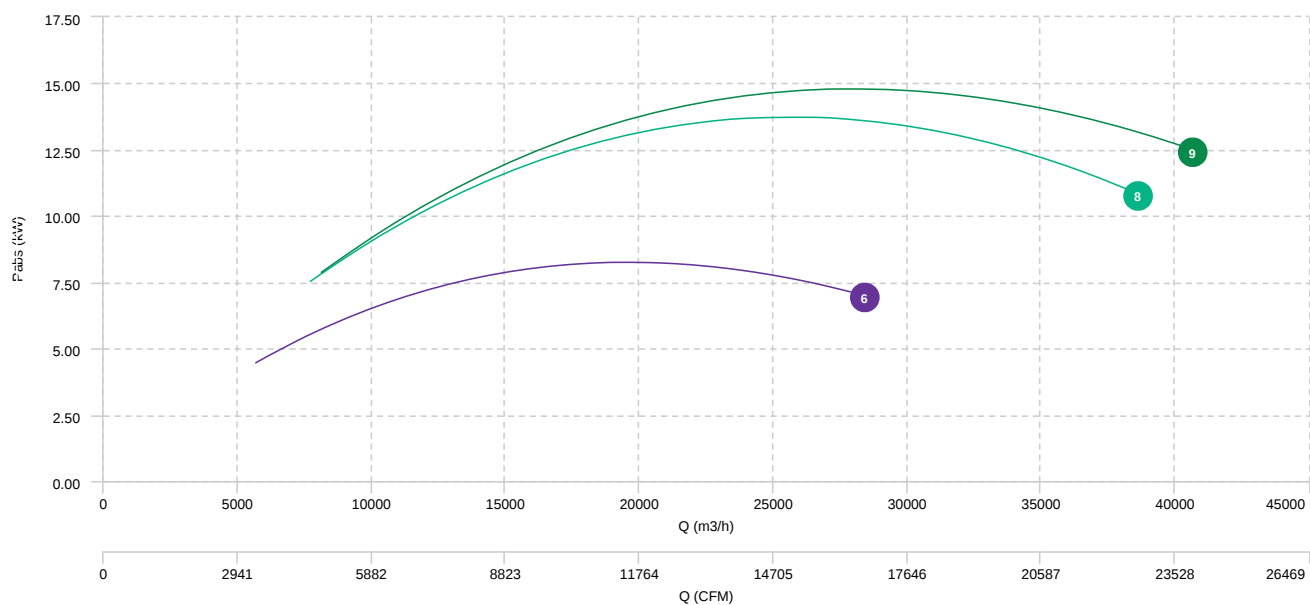


1	PRESTUR 561 T4 2,2kW ATEX (2G)	2	PRESTUR 562 T4 3kW ATEX (2G)	3	PRESTUR 631 T4 4kW ATEX (2G)	4	PRESTUR 632 T4 5,5kW ATEX (2G)
5	PRESTUR 711 T4 7,5kW ATEX (2G)	6	PRESTUR 712 T4 9,2kW ATEX (2G)	7	PRESTUR 712 T4 11kW ATEX (2G)	8	PRESTUR 801 T4 15kW ATEX (2G)
9	PRESTUR 802 T4 15kW ATEX (2G)						

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
PRESTUR 311 T2 1,1kW ATEX (2G)	Inlet	80	78	75	73	71	68	65	62	84
PRESTUR 312 T2 1,1kW ATEX (2G)	Inlet	81	79	76	74	72	69	66	63	85
PRESTUR 351 T2 2,2kW ATEX (2G)	Inlet	84	82	79	77	75	72	69	66	88
PRESTUR 352 T2 2,2kW ATEX (2G)	Inlet	85	83	80	78	76	73	70	67	89
PRESTUR 401 T2 3kW ATEX (2G)	Inlet	88	86	83	81	79	76	73	70	92
PRESTUR 402 T2 4kW ATEX (2G)	Inlet	89	87	84	82	80	77	74	71	93

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
PRESTUR 311 T4 0,37kW ATEX (2G)	Inlet	65	63	60	58	56	53	50	47	69
PRESTUR 312 T4 0,37kW ATEX (2G)	Inlet	66	64	61	59	57	54	51	48	70
PRESTUR 351 T4 0,37kW ATEX (2G)	Inlet	69	67	64	62	60	57	54	51	73
PRESTUR 352 T4 0,37kW ATEX (2G)	Inlet	70	68	65	63	61	58	55	52	74
PRESTUR 401 T4 0,55kW ATEX (2G)	Inlet	73	71	68	66	64	61	58	55	77
PRESTUR 402 T4 0,55kW ATEX (2G)	Inlet	73	71	68	66	64	61	58	55	77
PRESTUR 451 T4 0,75kW ATEX (2G)	Inlet	76	74	71	69	67	64	61	58	80
PRESTUR 452 T4 1,1kW ATEX (2G)	Inlet	77	75	72	70	68	65	62	59	81
PRESTUR 501 T4 1,5kW ATEX (2G)	Inlet	79	77	74	72	70	67	64	61	83
PRESTUR 502 T4 1,5kW ATEX (2G)	Inlet	80	78	75	73	71	68	65	62	84
PRESTUR 561 T4 2,2kW ATEX (2G)	Inlet	83	81	78	76	74	71	68	65	87
PRESTUR 562 T4 3kW ATEX (2G)	Inlet	84	82	79	77	75	72	69	66	88
PRESTUR 631 T4 4kW ATEX (2G)	Inlet	87	85	82	80	78	75	72	69	91
PRESTUR 632 T4 5,5kW ATEX (2G)	Inlet	87	85	82	80	78	75	72	69	91
PRESTUR 711 T4 7,5kW ATEX (2G)	Inlet	90	88	85	83	81	78	75	72	94
PRESTUR 712 T4 9,2kW ATEX (2G)	Inlet	91	89	86	84	82	79	76	73	95
PRESTUR 712 T4 11kW ATEX (2G)	Inlet	91	89	86	84	82	79	76	73	95
PRESTUR 801 T4 15kW ATEX (2G)	Inlet	94	92	89	87	85	82	79	76	98
PRESTUR 802 T4 15kW ATEX (2G)	Inlet	95	93	90	88	86	83	80	77	99