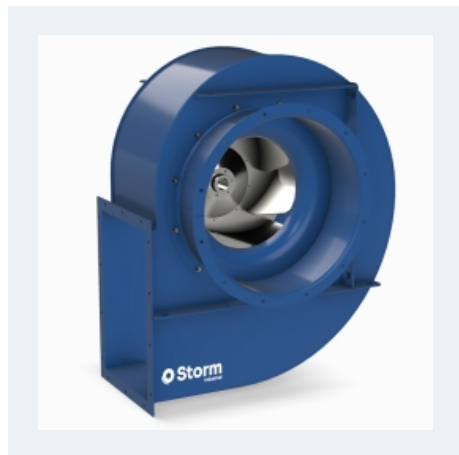


PRESTUR



MEDIUM PRESSURE FAN FOR PAINT BOOTHS

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), airtight axle
- Double suction flange
- Maximum working temperature in continuous: transported air: 130°C, ambient: 60°C.

- Available positions (to be indicated in case of order): LG and RD
- The indicated codes correspond to the model in position LG

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 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.
- Non-sparking air passage and standard motor
- Other brands of motors.

Accessories



Technical data

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
PS311280	PRESTUR 311 T2 1,1kW	2800	4,05	2,33	1,10	4.720	58	56	1
PS351290	PRESTUR 351 T2 2,2kW	2840	7,97	4,58	2,20	6.750	62	85	1
PS4012100	PRESTUR 401 T2 4kW	2880	13,3	7,63	4,00	9.660	66	108,50	1

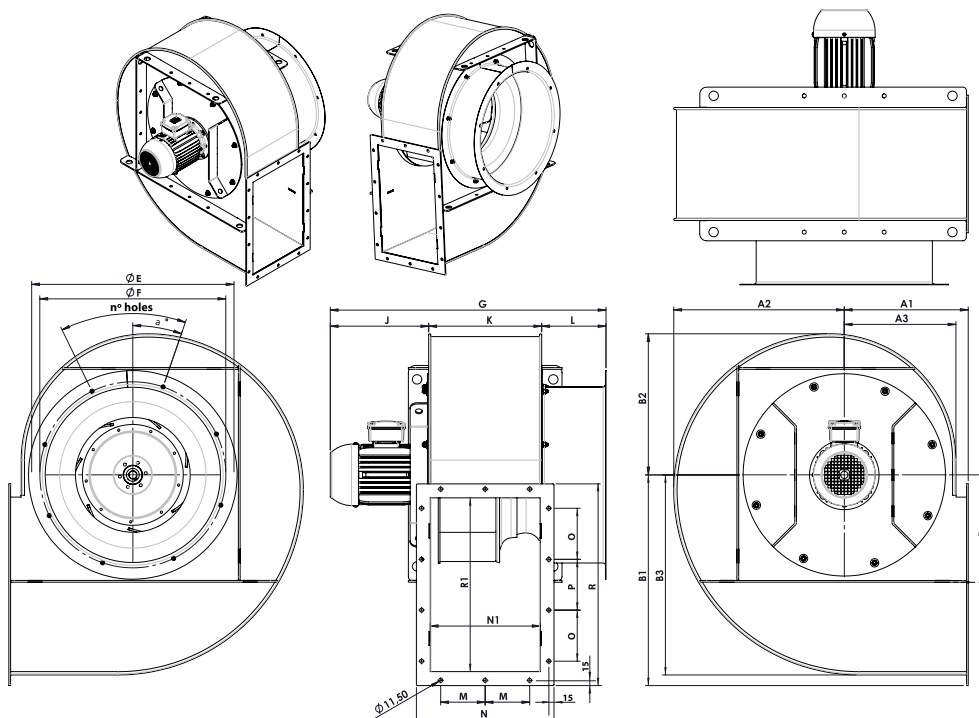
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
PS311471	PRESTUR 311 T4 0,37kW	1370	1,86	1,07	0,37	2.360	43	46,20	1
PS351471	PRESTUR 351 T4 0,37kW	1370	1,86	1,07	0,37	3.380	47	66,20	1
PS401480	PRESTUR 401 T4 0,55kW	1440	2,57	1,49	0,55	4.830	51	79	1
PS451480	PRESTUR 451 T4 0,75kW	1410	2,83	1,63	0,75	6.880	54	95	1
PS501490	PRESTUR 501 T4 1,5kW	1450	5,67	3,26	1,50	9.430	57	122	1
PS5614100	PRESTUR 561 T4 2,2kW	1435	8,07	4,64	2,20	13.250	61	154	1
PS6314112	PRESTUR 631 T4 4kW	1440	14,5	8,32	4,00	18.860	65	200,80	1
PS7114132	PRESTUR 711 T4 7,5kW	1455	-	14,1	7,50	26.990	68	308	1
PS8014160	PRESTUR 801 T4 15kW	1465	-	29,8	15,00	38.610	72	430	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	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 311 T4 0,37kW	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PRESTUR 351 T2 2,2kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 351 T4 0,37kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PRESTUR 401 T2 4kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 401 T4 0,55kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PRESTUR 451 T4 0,75kW	325.4	442.5	289.9	549.3	366.2	518.8	284.3	523	485
PRESTUR 501 T4 1,5kW	356.6	490.7	321.1	606	405.9	575.5	316	582	535
PRESTUR 561 T4 2,2kW	394	548.5	358.5	674	453.5	643.5	354	650	608
PRESTUR 631 T4 4kW	437.6	615.9	402.1	753.3	509	722.8	398.3	710	675
PRESTUR 711 T4 7,5kW	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PRESTUR 801 T4 15kW	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	626.5	234.5	207	185	79	278	198	90	95
PRESTUR 311 T4 0,37kW	610.5	218.5	207	185	79	278	198	90	95
PRESTUR 351 T2 2,2kW	696	278	233	185	92	304	224	105	105
PRESTUR 351 T4 0,37kW	636.5	218.5	233	185	92	304	224	105	105
PRESTUR 401 T2 4kW	781	335	261	185	106	332	252	120	120
PRESTUR 401 T4 0,55kW	680.5	234.5	261	185	106	332	252	120	120

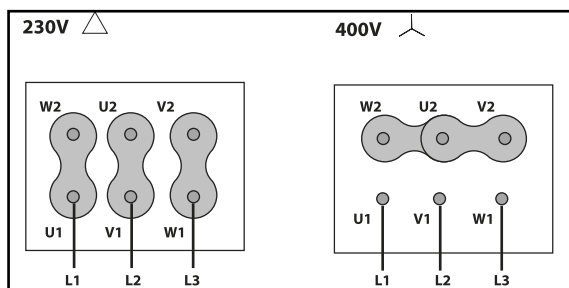
Model	G	J	K	L	M	N	N1	O	P
PRESTUR 451 T4 0,75kW	712.5	234.5	293	185	112	364	284	130	130
PRESTUR 501 T4 1,5kW	788	278	325	185	128	396	316	147	146
PRESTUR 561 T4 2,2kW	862.6	314.6	363	185	147	434	354	165	170
PRESTUR 631 T4 4kW	924.6	332.6	407	185	169	478	398	190	190
PRESTUR 711 T4 7,5kW	1051.3	408.3	458	185	184.5	529	449	210	210
PRESTUR 801 T4 15kW	1230.15	531.15	514	185	202.5	585	505	233	234

Model	R	R1	aº	nºholes
PRESTUR 311 T2 1,1kW	395	315	22,5º	8x45º
PRESTUR 311 T4 0,37kW	395	315	22,5º	8x45º
PRESTUR 351 T2 2,2kW	435	355	22,5º	8x45º
PRESTUR 351 T4 0,37kW	435	355	22,5º	8x45º
PRESTUR 401 T2 4kW	480	400	22,5º	8x45º
PRESTUR 401 T4 0,55kW	480	400	22,5º	8x45º
PRESTUR 451 T4 0,75kW	530	450	22,5º	8x45º
PRESTUR 501 T4 1,5kW	580	500	22,5º	8x45º
PRESTUR 561 T4 2,2kW	640	560	11,25º	16x22,5º
PRESTUR 631 T4 4kW	710	630	11,25º	16x22,5º
PRESTUR 711 T4 7,5kW	790	710	11,25º	16x22,5º
PRESTUR 801 T4 15kW	880	800	11,25º	16x11,25º

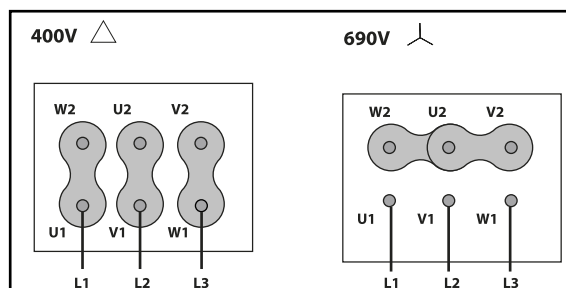
Wiring diagram

Wiring diagram Nº 1

230/400V



400/690V



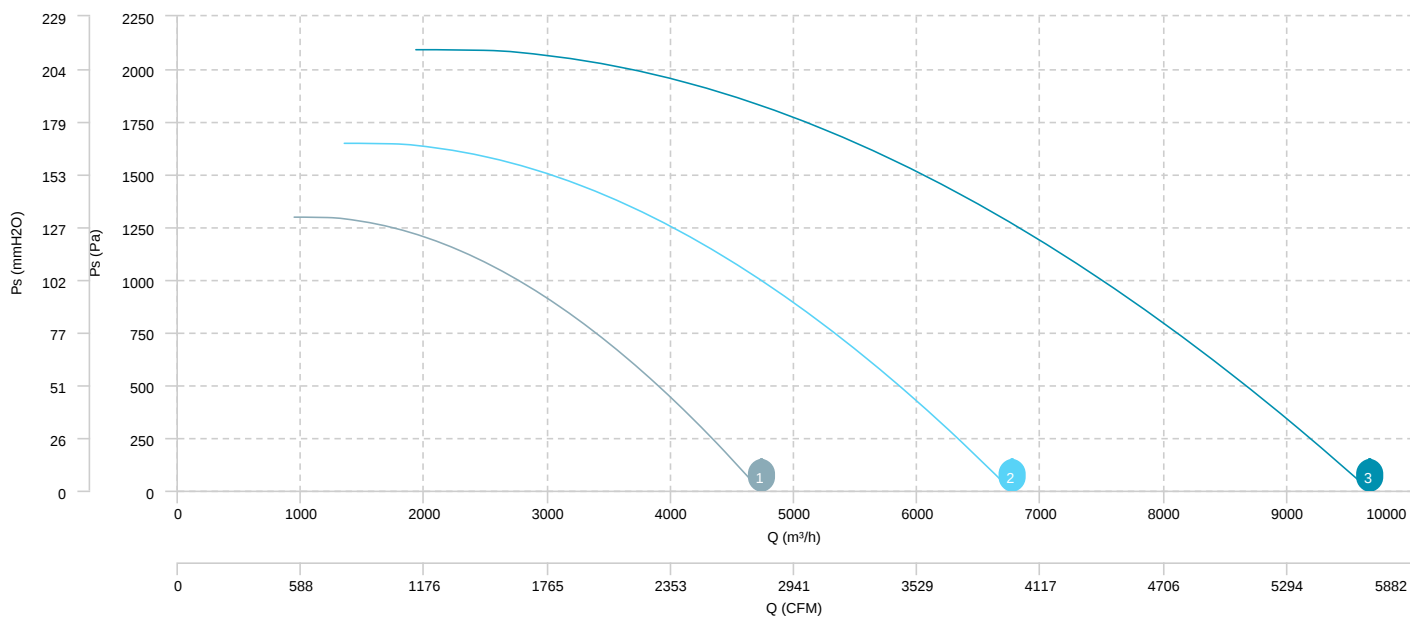
CHARACTERISCTIC CURVE

1 PRESTUR 311 T2 1,1kW

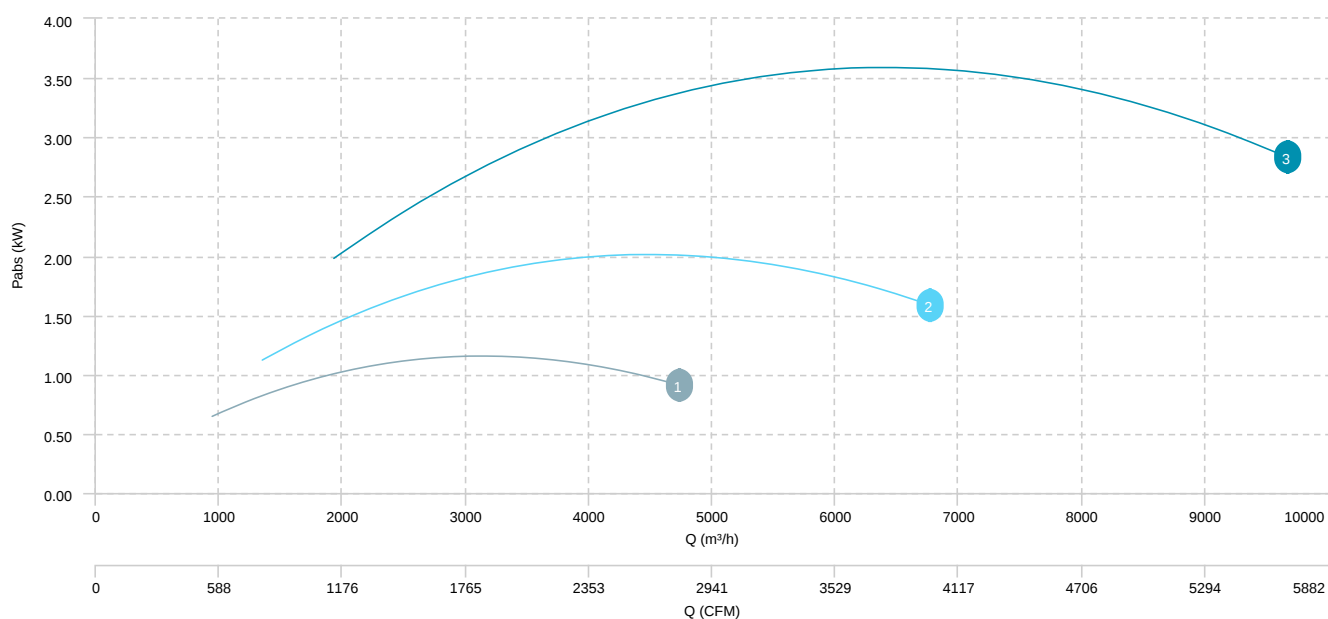
2 PRESTUR 351 T2 2,2kW

3 PRESTUR 401 T2 4kW

AIR FLOW - PRESSURE

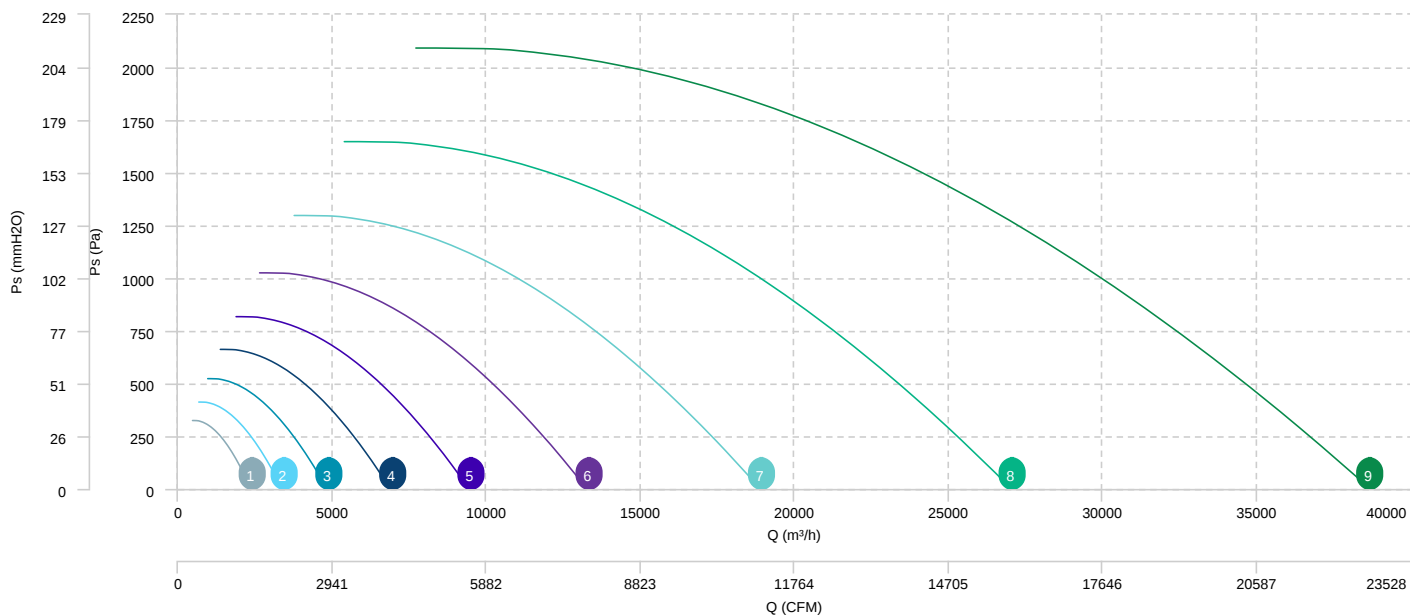


AIR FLOW - ABSORBED POWER

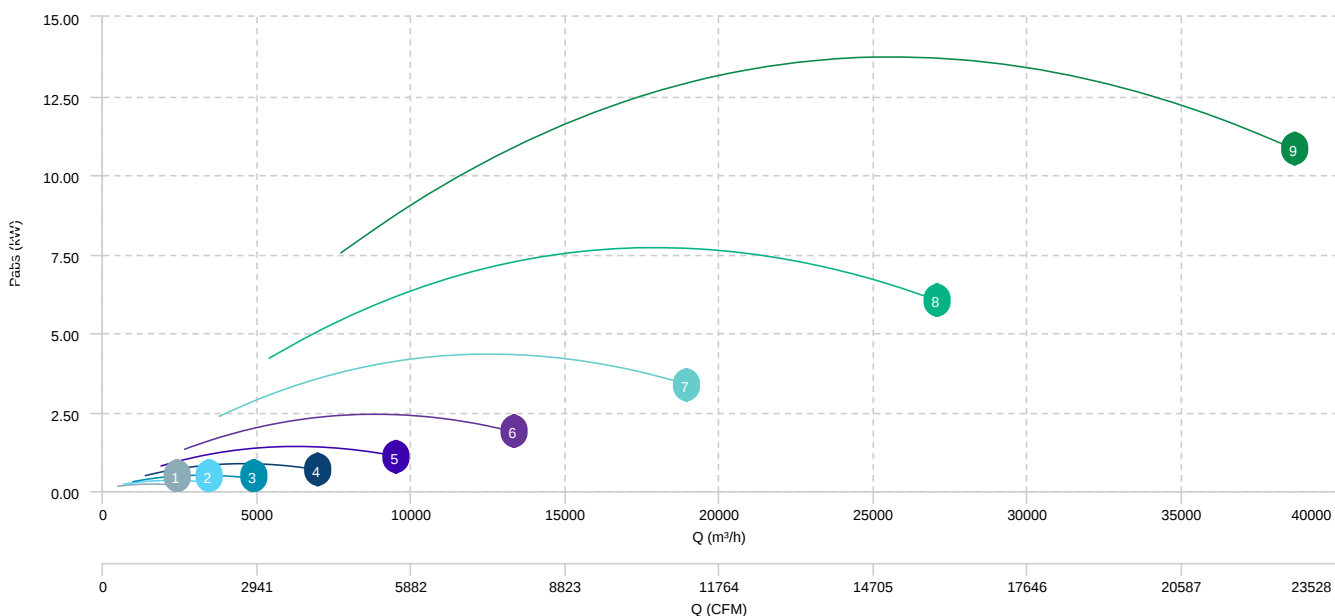


1	PRESTUR 311 T4 0,37kW	2	PRESTUR 351 T4 0,37kW	3	PRESTUR 401 T4 0,55kW	4	PRESTUR 451 T4 0,75kW
5	PRESTUR 501 T4 1,5kW	6	PRESTUR 561 T4 2,2kW	7	PRESTUR 631 T4 4kW	8	PRESTUR 711 T4 7,5kW
9	PRESTUR 801 T4 15kW						

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	Inlet	80	78	75	73	71	68	65	62	84
PRESTUR 351 T2 2,2kW	Inlet	84	82	79	77	75	72	69	66	88
PRESTUR 401 T2 4kW	Inlet	88	86	83	81	79	76	73	70	92

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	Inlet	65	63	60	58	56	53	50	47	69
PRESTUR 351 T4 0,37kW	Inlet	69	67	64	62	60	57	54	51	73
PRESTUR 401 T4 0,55kW	Inlet	73	71	68	66	64	61	58	55	77
PRESTUR 451 T4 0,75kW	Inlet	76	74	71	69	67	64	61	58	80
PRESTUR 501 T4 1,5kW	Inlet	79	77	74	72	70	67	64	61	83
PRESTUR 561 T4 2,2kW	Inlet	83	81	78	76	74	71	68	65	87
PRESTUR 631 T4 4kW	Inlet	87	85	82	80	78	75	72	69	91
PRESTUR 711 T4 7,5kW	Inlet	90	88	85	83	81	78	75	72	94
PRESTUR 801 T4 15kW	Inlet	94	92	89	87	85	82	79	76	98

erp data

ERP	
Fan type	Centrifugal fan backward blades with casing
Installation category	A
Efficiency category	Static
The fan has to be installed with FSC	No

ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
PRESTUR 311 T2 1,1kW	1,10	68,38	78,31	2.660,64	1.031,42	1,13	2800	1,01
PRESTUR 351 T2 2,2kW	2,20	71,36	78,76	3.808,63	1.309,93	1,97	2840	1,01
PRESTUR 401 T2 4kW	4	72,60	77,36	5.449,05	1.662,89	3,52	2880	1,02

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
PRESTUR 311 T4 0,37kW	0,37	44,86	62,35	1.359,99	252,98	0,22	1370	1,00
PRESTUR 351 T4 0,37kW	0,37	53,17	68,71	1.936,93	322,75	0,33	1370	1,00
PRESTUR 401 T4 0,55kW	0,55	65,22	78,97	2.741,55	413,55	0,49	1440	1,00
PRESTUR 451 T4 0,75kW	0,75	67,90	79,15	3.877,89	526,30	0,85	1410	1,01
PRESTUR 501 T4 1,5kW	1,50	70,53	79,55	5.325,57	649,13	1,38	1450	1,01
PRESTUR 561 T4 2,2kW	2,20	72,35	78,91	7.428,79	819,09	2,37	1435	1,01
PRESTUR 631 T4 4kW	4	72,94	76,85	10.619,52	1.033,28	4,24	1440	1,01
PRESTUR 711 T4 7,5kW	7,50	74,57	75,86	15.211,03	1.311,61	7,54	1455	1,01
PRESTUR 801 T4 15kW	15	75,91	75,65	21.786,53	1.663,50	13,46	1465	1,02