

PREXTUR



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

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 painted, 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.

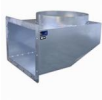
Accessories



AC



BAD



CPS



EIS



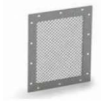
INT



JE 45



RA



RIS



SFC

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
- Non-sparking air passage and standard motor
- 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
PX313290	PREXTUR 313 T2 1,5kW	2865	3,14	1,50	5.240	60	67,50	1
PX314290	PREXTUR 314 T2 1,5kW	2865	3,14	1,50	5.500	60	69,50	1
PX353290	PREXTUR 353 T2 2,2kW	2840	4,58	2,20	7.500	63	91	1
PX3542100	PREXTUR 354 T2 3kW	2880	5,92	3	7.870	64	107,50	1
PX4032112	PREXTUR 403 T2 4kW	2880	7,63	4	10.730	67	119,50	1
PX4042132	PREXTUR 404 T2 5,5kW	2910	10,6	5,50	11.260	67	147	1

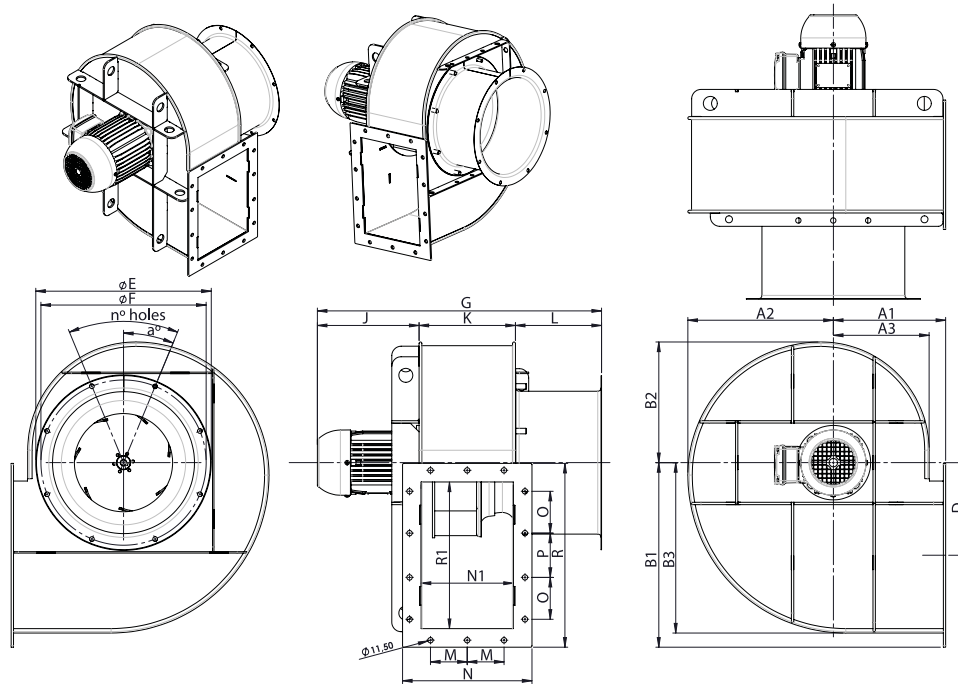
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
PX313471	PREXTUR 313 T4 0,37kW	1400	1,07	0,37	2.620	45	50,20	1
PX314471	PREXTUR 314 T4 0,37kW	1400	1,07	0,37	2.750	45	52,20	1
PX353471	PREXTUR 353 T4 0,37kW	1400	1,07	0,37	3.750	48	72,20	1
PX354471	PREXTUR 354 T4 0,37kW	1400	1,07	0,37	3.940	49	75,20	1
PX403480	PREXTUR 403 T4 0,55kW	1400	1,49	0,55	5.370	52	85	1
PX404480	PREXTUR 404 T4 0,55kW	1400	1,49	0,55	5.630	52	88	1
PX453490	PREXTUR 453 T4 1,1kW	1450	2,49	1,10	7.640	55	109	1
PX454490	PREXTUR 454 T4 1,1kW	1450	2,49	1,10	8.020	56	112	1
PX503490	PREXTUR 503 T4 1,5kW	1440	3,26	1,50	10.480	59	130	1
PX5044100	PREXTUR 504 T4 2,2kW	1435	4,64	2,20	11.000	59	146	1
PX5634100	PREXTUR 563 T4 3kW	1420	6,17	3	14.730	62	162	1
PX5644100	PREXTUR 564 T4 3kW	1420	6,17	3	15.460	63	166	1
PX6334132	PREXTUR 633 T4 5,5kW	1460	10,5	5,50	20.970	66	242	1
PX6344132	PREXTUR 634 T4 5,5kW	1460	10,5	5,50	22.010	66	247	1
PX7134132	PREXTUR 713 T4 9,2kW	1465	17,40	9,20	30.010	69	335,40	1
PX7144160	PREXTUR 714 T4 11kW	1455	21,2	11	31.500	70	355	1
PX8034180	PREXTUR 803 T4 18,5kW	1470	35,6	18,50	42.930	73	520	1
PX8044180	PREXTUR 804 T4 18,5kW	1470	35,6	18,50	45.060	73	530	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
PREXTUR 313 T2 1,5kW	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PREXTUR 313 T4 0,37kW	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PREXTUR 314 T2 1,5kW	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PREXTUR 314 T4 0,37kW	241.3	312.6	205.8	396.5	259.2	366	199	377	355
PREXTUR 353 T2 2,2kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PREXTUR 353 T4 0,37kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PREXTUR 354 T2 3kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PREXTUR 354 T4 0,37kW	266.2	351.1	230.7	441.8	290.9	411.3	224.3	418	395
PREXTUR 403 T2 4kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PREXTUR 403 T4 0,55kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PREXTUR 404 T2 5,5kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PREXTUR 404 T4 0,55kW	294.3	394.6	258.8	493	326.7	462.5	253	464	438
PREXTUR 453 T4 1,1kW	325.4	442.5	289.9	549.3	366.2	518.8	284.3	523	485
PREXTUR 454 T4 1,1kW	325.4	442.5	289.9	549.3	366.2	518.8	284.3	523	485
PREXTUR 503 T4 1,5kW	356.6	490.7	321.1	606	405.9	575.5	316	582	535
PREXTUR 504 T4 2,2kW	356.6	490.7	321.1	606	405.9	575.5	316	582	535
PREXTUR 563 T4 3kW	394	548.5	358.5	674	453.5	643.5	354	650	608
PREXTUR 564 T4 3kW	394	548.5	358.5	674	453.5	643.5	354	650	608
PREXTUR 633 T4 5,5kW	437.6	615.9	402.1	753.3	509	722.8	398.3	710	675
PREXTUR 634 T4 5,5kW	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
PREXTUR 713 T4 9,2kW	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PREXTUR 714 T4 11kW	487.5	692.8	452	843.7	572.4	813.2	448.7	826	755
PREXTUR 803 T4 18,5kW	543.6	779.53	508.1	945.74	643.77	915.28	505.74	930	845
PREXTUR 804 T4 18,5kW	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
PREXTUR 313 T2 1,5kW	693	278	230	185	91	301	221	90	95
PREXTUR 313 T4 0,37kW	633.5	218.5	230	185	91	301	221	90	95
PREXTUR 314 T2 1,5kW	693	278	230	185	91	301	221	90	95
PREXTUR 314 T4 0,37kW	633.5	218.5	230	185	91	301	221	90	95
PREXTUR 353 T2 2,2kW	722	278	259	185	105	330	250	105	105
PREXTUR 353 T4 0,37kW	662.5	218.5	259	185	105	330	250	105	105
PREXTUR 354 T2 3kW	758.6	314.6	259	185	105	330	250	105	105
PREXTUR 354 T4 0,37kW	662.5	218.5	259	185	105	330	250	105	105
PREXTUR 403 T2 4kW	807.6	332.6	290	185	121	361	281	120	120
PREXTUR 403 T4 0,55kW	709.5	234.5	290	185	121	361	281	120	120
PREXTUR 404 T2 5,5kW	758.6	314.6	290	185	121	361	281	120	120
PREXTUR 404 T4 0,55kW	709.5	234.5	290	185	121	361	281	120	120
PREXTUR 453 T4 1,1kW	788	278	325	185	128	396	316	130	130
PREXTUR 454 T4 1,1kW	788	278	325	185	128	396	316	130	130
PREXTUR 503 T4 1,5kW	824	278	361	185	146	432	352	147	146
PREXTUR 504 T4 2,2kW	860.6	314.6	361	185	146	432	352	147	146
PREXTUR 563 T4 3kW	902.6	314.6	474	185	167	474	394	165	170
PREXTUR 564 T4 3kW	902.6	314.6	474	185	167	474	394	165	170
PREXTUR 633 T4 5,5kW	1045.3	408.3	452	185	192	523	443	190	190
PREXTUR 634 T4 5,5kW	1045.3	408.3	452	185	192	523	443	190	190
PREXTUR 713 T4 9,2kW	1102.3	408.3	509	185	210	580	500	210	210
PREXTUR 714 T4 11kW	1225.15	531.15	509	185	210	580	500	210	210
PREXTUR 803 T4 18,5kW	1346.2	590.2	571	185	231	642	562	233	234
PREXTUR 804 T4 18,5kW	1346.2	590.2	571	185	231	642	562	233	234

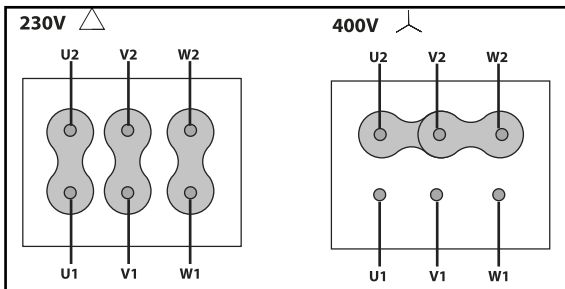
Model	R	R1	a°	n°holes
PREXTUR 313 T2 1,5kW	395	315	22,5°	8x45°
PREXTUR 313 T4 0,37kW	395	315	22,5°	8x45°
PREXTUR 314 T2 1,5kW	395	315	22,5°	8x45°
PREXTUR 314 T4 0,37kW	395	315	22,5°	8x45°
PREXTUR 353 T2 2,2kW	435	355	22,5°	8x45°
PREXTUR 353 T4 0,37kW	435	355	22,5°	8x45°
PREXTUR 354 T2 3kW	435	355	22,5°	8x45°
PREXTUR 354 T4 0,37kW	435	355	22,5°	8x45°

Model	R	R1	a°	n°holes
PREXTUR 403 T2 4kW	480	400	22,5°	8x45°
PREXTUR 403 T4 0,55kW	480	400	22,5°	8x45°
PREXTUR 404 T2 5,5kW	480	400	22,5°	8x45°
PREXTUR 404 T4 0,55kW	480	400	22,5°	8x45°
PREXTUR 453 T4 1,1kW	530	450	22,5°	8x45°
PREXTUR 454 T4 1,1kW	530	450	22,5°	8x45°
PREXTUR 503 T4 1,5kW	580	500	19°	8x45°
PREXTUR 504 T4 2,2kW	580	500	19°	8x45°
PREXTUR 563 T4 3kW	640	560	15°	12x30°
PREXTUR 564 T4 3kW	640	560	15°	12x30°
PREXTUR 633 T4 5,5kW	710	630	0°	12x30°
PREXTUR 634 T4 5,5kW	710	630	0°	12x30°
PREXTUR 713 T4 9,2kW	790	710	5°	16x22,5°
PREXTUR 714 T4 11kW	790	710	5°	16x22,5°
PREXTUR 803 T4 18,5kW	880	800	11,25°	16x22,5°
PREXTUR 804 T4 18,5kW	880	800	11,25°	16x22,5°

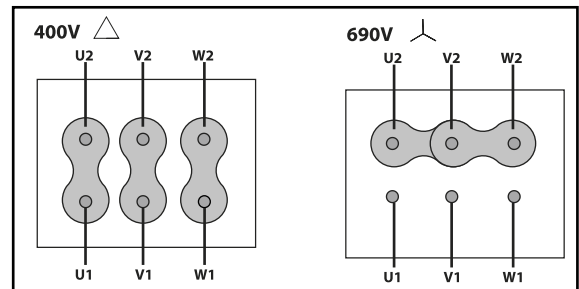
Wiring diagram

DIAGRAM N° 1

230/400V



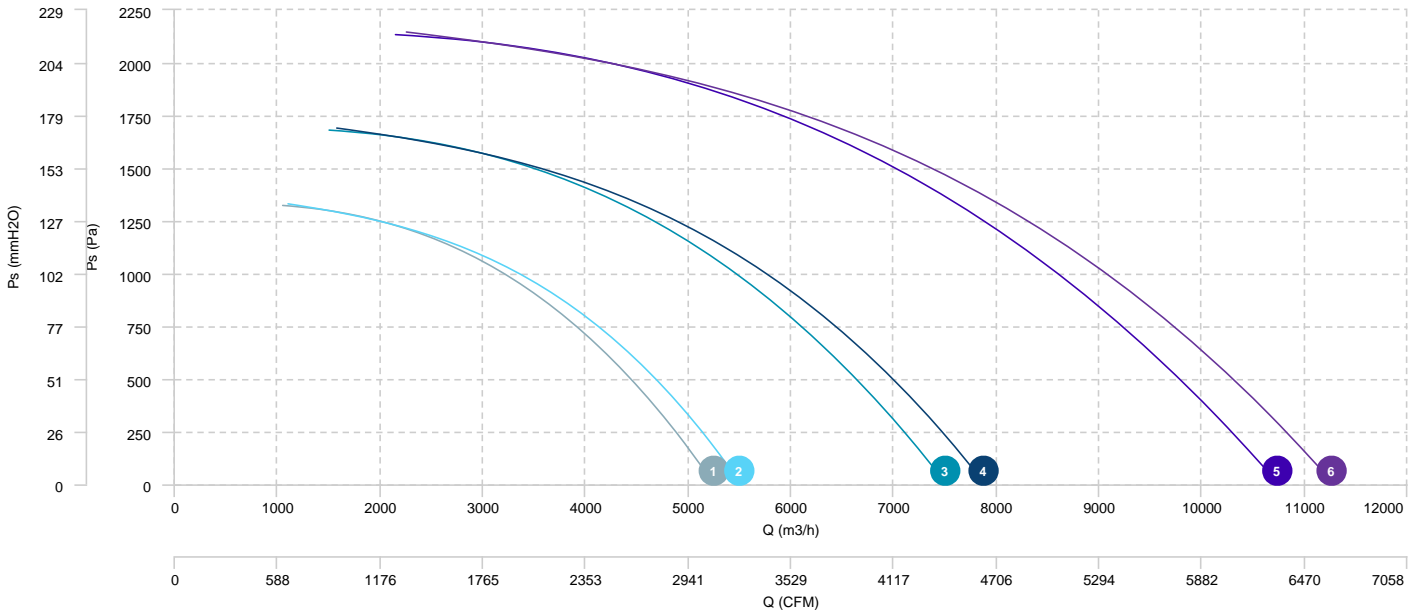
400/690V



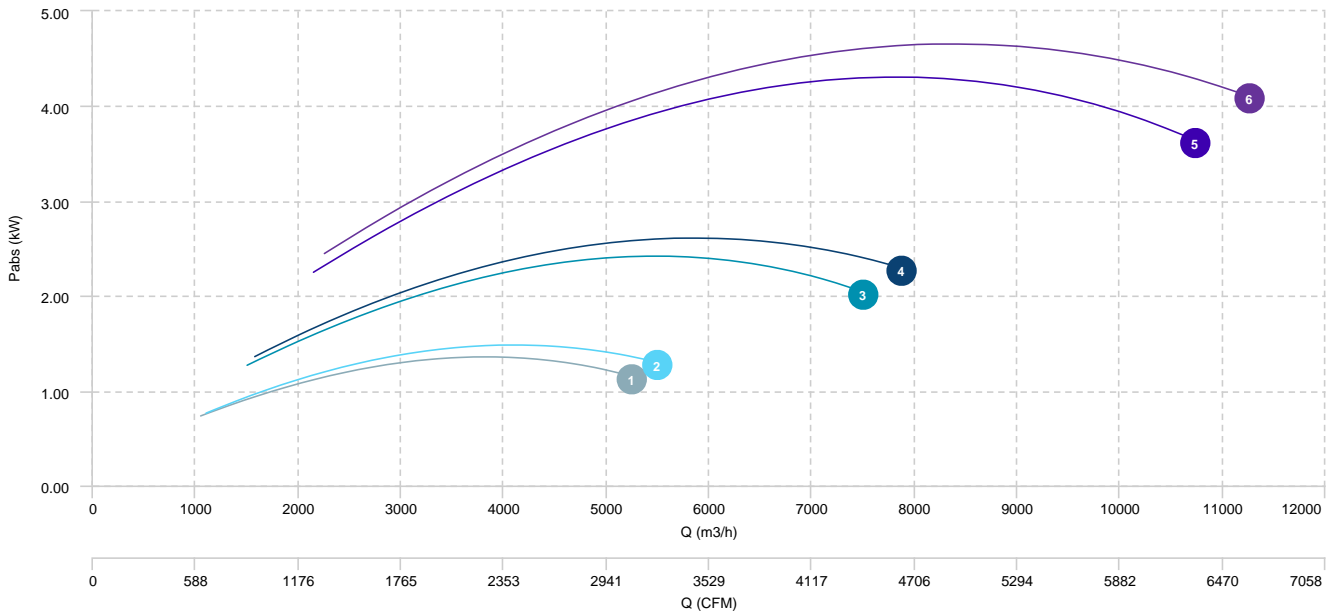
CHARACTERISTIC CURVE

1	PREXTUR 313 T2 1,5kW	2	PREXTUR 314 T2 1,5kW	3	PREXTUR 353 T2 2,2kW	4	PREXTUR 354 T2 3kW
5	PREXTUR 403 T2 4kW	6	PREXTUR 404 T2 5,5kW				

AIR FLOW - PRESSURE

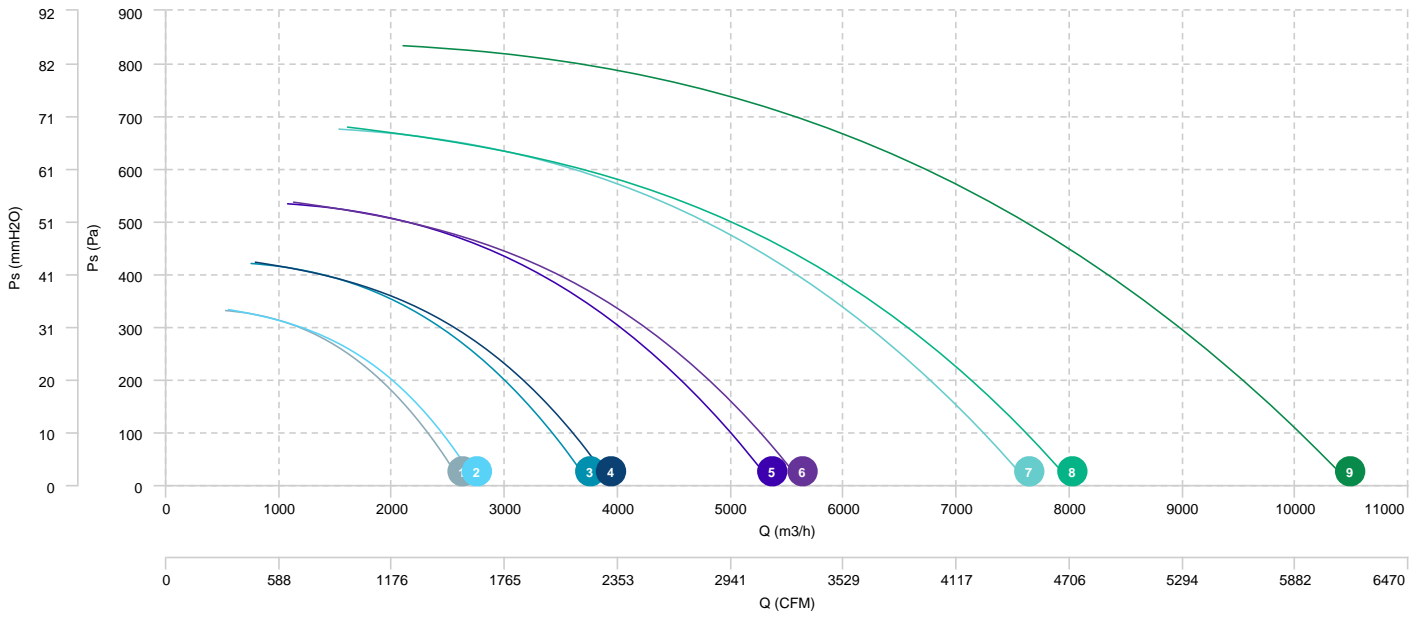


AIR FLOW - ABSORBED POWER

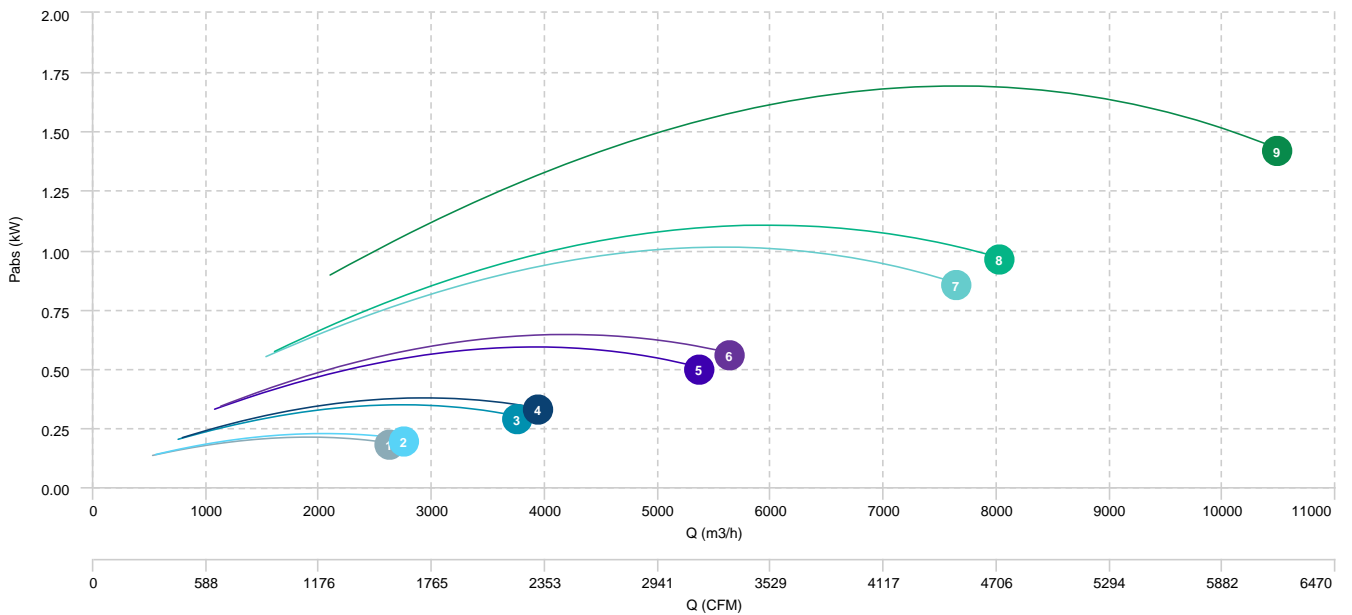


1	PREXTUR 313 T4 0,37kW	2	PREXTUR 314 T4 0,37kW	3	PREXTUR 353 T4 0,37kW	4	PREXTUR 354 T4 0,37kW
5	PREXTUR 403 T4 0,55kW	6	PREXTUR 404 T4 0,55kW	7	PREXTUR 453 T4 1,1kW	8	PREXTUR 454 T4 1,1kW
9	PREXTUR 503 T4 1,5kW						

AIR FLOW - PRESSURE

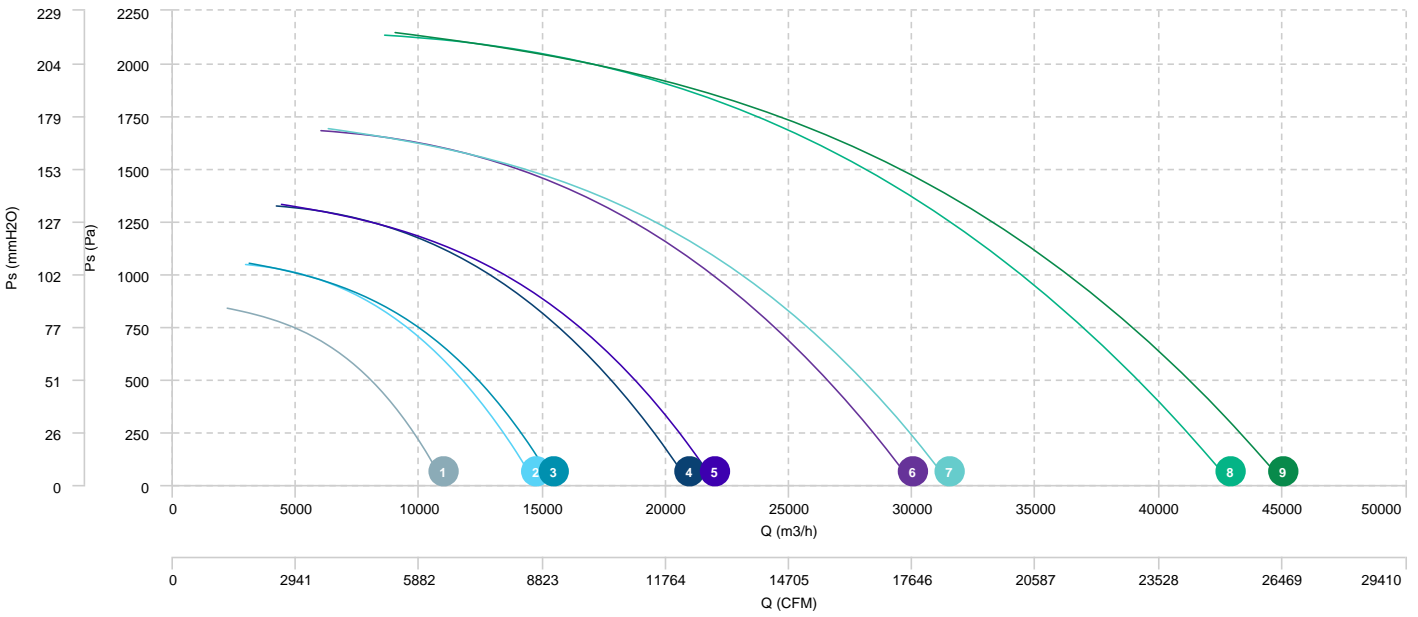


AIR FLOW - ABSORBED POWER

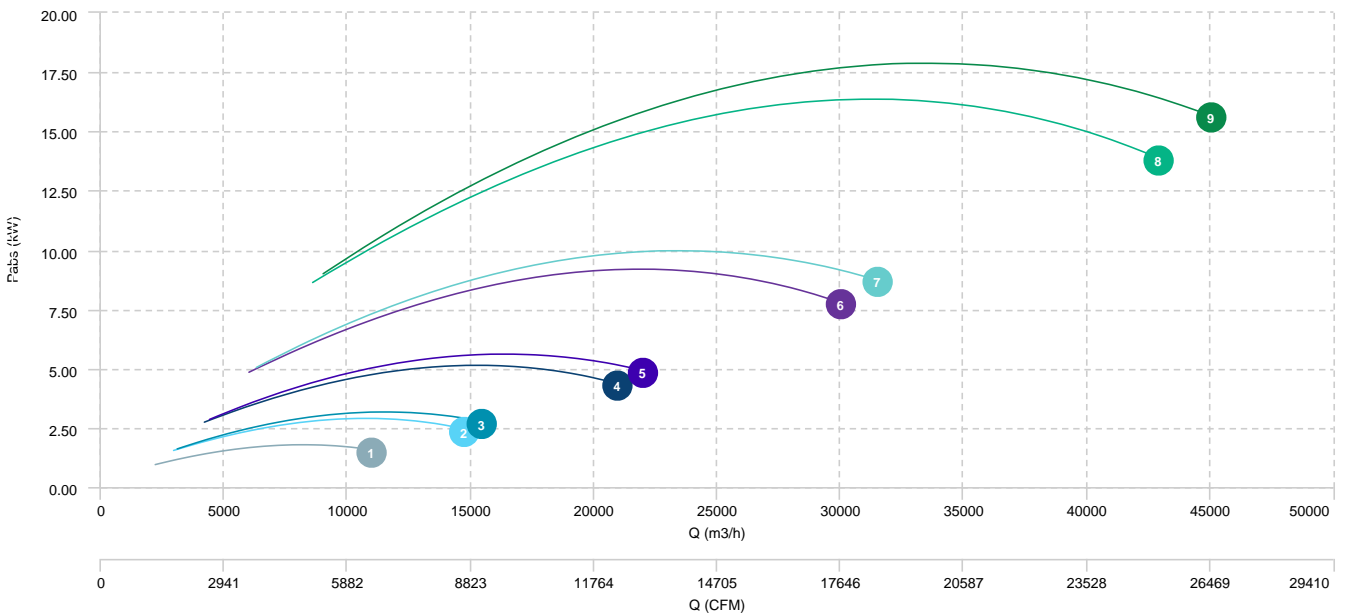


1	PREXTUR 504 T4 2,2kW	2	PREXTUR 563 T4 3kW	3	PREXTUR 564 T4 3kW	4	PREXTUR 633 T4 5,5kW
5	PREXTUR 634 T4 5,5kW	6	PREXTUR 713 T4 9,2kW	7	PREXTUR 714 T4 11kW	8	PREXTUR 803 T4 18,5kW
9	PREXTUR 804 T4 18,5kW						

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
PREXTUR 313 T2 1,5kW	Inlet	82	80	77	75	73	70	67	64	86
PREXTUR 314 T2 1,5kW	Inlet	82	80	77	75	73	70	67	64	86
PREXTUR 353 T2 2,2kW	Inlet	85	83	80	78	76	73	70	67	89
PREXTUR 354 T2 3kW	Inlet	86	84	81	79	77	74	71	68	90
PREXTUR 403 T2 4kW	Inlet	89	87	84	82	80	77	74	71	93
PREXTUR 404 T2 5,5kW	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
PREXTUR 313 T4 0,37kW	Inlet	67	65	62	60	58	55	52	49	71
PREXTUR 314 T4 0,37kW	Inlet	67	65	62	60	58	55	52	49	71
PREXTUR 353 T4 0,37kW	Inlet	70	68	65	63	61	58	55	52	74
PREXTUR 354 T4 0,37kW	Inlet	71	69	66	64	62	59	56	53	75
PREXTUR 403 T4 0,55kW	Inlet	74	72	69	67	65	62	59	56	78
PREXTUR 404 T4 0,55kW	Inlet	74	72	69	67	65	62	59	56	78
PREXTUR 453 T4 1,1kW	Inlet	77	75	72	70	68	65	62	59	81
PREXTUR 454 T4 1,1kW	Inlet	78	76	73	71	69	66	63	60	82
PREXTUR 503 T4 1,5kW	Inlet	81	79	76	74	72	69	66	63	85
PREXTUR 504 T4 2,2kW	Inlet	81	79	76	74	72	69	66	63	85
PREXTUR 563 T4 3kW	Inlet	84	82	79	77	75	72	69	66	88
PREXTUR 564 T4 3kW	Inlet	85	83	80	78	76	73	70	67	89
PREXTUR 633 T4 5,5kW	Inlet	88	86	83	81	79	76	73	70	92
PREXTUR 634 T4 5,5kW	Inlet	88	86	83	81	79	76	73	70	92
PREXTUR 713 T4 9,2kW	Inlet	91	89	86	84	82	79	76	73	95
PREXTUR 714 T4 11kW	Inlet	92	90	87	85	83	80	77	74	96
PREXTUR 803 T4 18,5kW	Inlet	95	93	90	88	86	83	80	77	99
PREXTUR 804 T4 18,5kW	Inlet	95	93	90	88	86	83	80	77	99

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
PREXTUR 313 T2 1,5kW	1,50	69,33	78,66	2.972,95	1.063,98	1,29	2865	1,01
PREXTUR 314 T2 1,5kW	1,50	66,74	75,70	3.134,41	1.054,33	1,40	2865	1,01
PREXTUR 353 T2 2,2kW	2,20	70,84	77,56	4.227,94	1.357,62	2,29	2840	1,01
PREXTUR 354 T2 3kW	3	68,77	75,14	4.503,45	1.335,56	2,48	2880	1,01
PREXTUR 403 T2 4kW	4	72,16	76,24	6.058,82	1.721,48	4,09	2880	1,02
PREXTUR 404 T2 5,5kW	5,50	69,92	73,63	6.457,17	1.692,84	4,43	2910	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
PREXTUR 313 T4 0,37kW	0,37	55,19	72,94	1.527,51	260,56	0,20	1400	1,00
PREXTUR 314 T4 0,37kW	0,37	54,17	71,62	1.613,71	257,98	0,22	1400	1,00
PREXTUR 353 T4 0,37kW	0,37	61,30	76,81	2.154,57	334,72	0,33	1400	1,00
PREXTUR 354 T4 0,37kW	0,37	59,49	74,67	2.273,17	331,62	0,36	1400	1,00
PREXTUR 403 T4 0,55kW	0,55	65,56	78,66	3.059,11	427,34	0,56	1400	1,00
PREXTUR 404 T4 0,55kW	0,55	63,31	76,06	3.226,20	423,43	0,61	1400	1,00
PREXTUR 453 T4 1,1kW	1,10	69,06	79,73	4.338,86	542,38	0,96	1450	1,01
PREXTUR 454 T4 1,1kW	1,10	66,54	76,83	4.575,48	537,40	1,05	1450	1,01
PREXTUR 503 T4 1,5kW	1,50	70,13	78,48	5.915,96	672,52	1,61	1440	1,01
PREXTUR 504 T4 2,2kW	2,20	69,84	77,95	6.285,92	662,75	1,69	1435	1,01
PREXTUR 563 T4 3kW	3	72,15	78,04	8.333,31	842,03	2,75	1420	1,01
PREXTUR 564 T4 3kW	3	69,38	74,88	8.788,15	834,20	2,99	1420	1,01
PREXTUR 633 T4 5,5kW	5,50	73,25	76,52	11.881,09	1.064,67	4,89	1460	1,01
PREXTUR 634 T4 5,5kW	5,50	70,50	73,39	12.539,51	1.054,22	5,31	1460	1,01
PREXTUR 713 T4 9,2kW	9,20	74,47	75,10	16.956,76	1.355,07	8,73	1465	1,01

Model	Maximum efficiency point data							
	Motor power (kW)	Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
PREXTUR 714 T4 11kW	11	72,10	72,37	17.929,72	1.339,95	9,43	1455	1,01
PREXTUR 803 T4 18,5kW	18,50	75,90	75,48	24.289,41	1.718,74	15,56	1470	1,02
PREXTUR 804 T4 18,5kW	18,50	73	72,49	25.644,94	1.701,37	16,91	1470	1,02