

BSTB-M**SIMPLE INLET BACKWARD IMPELLER, BELT DRIVEN (WIT MOTOR AND TRANSMISSION)****MANUFACTURING FEATURES:**

- Fully made of galvanised steel sheet.
- Simple inlet, backward impeller with self-cleaning system.
- Transmission shaft with anticorrosion treatment.

- Supplied with motor, belts and pulleys
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 4kW and 400/690V 50Hz for higher powers.

APPLICATIONS:

Designed for assembly in equipment:

- Ventilation boxes and air handling units.
- Centrifugal heaters.
- Industrial and professional kitchen hoods.
- Maximum working temperature: carried air: 130°C, ambient: 60°C.

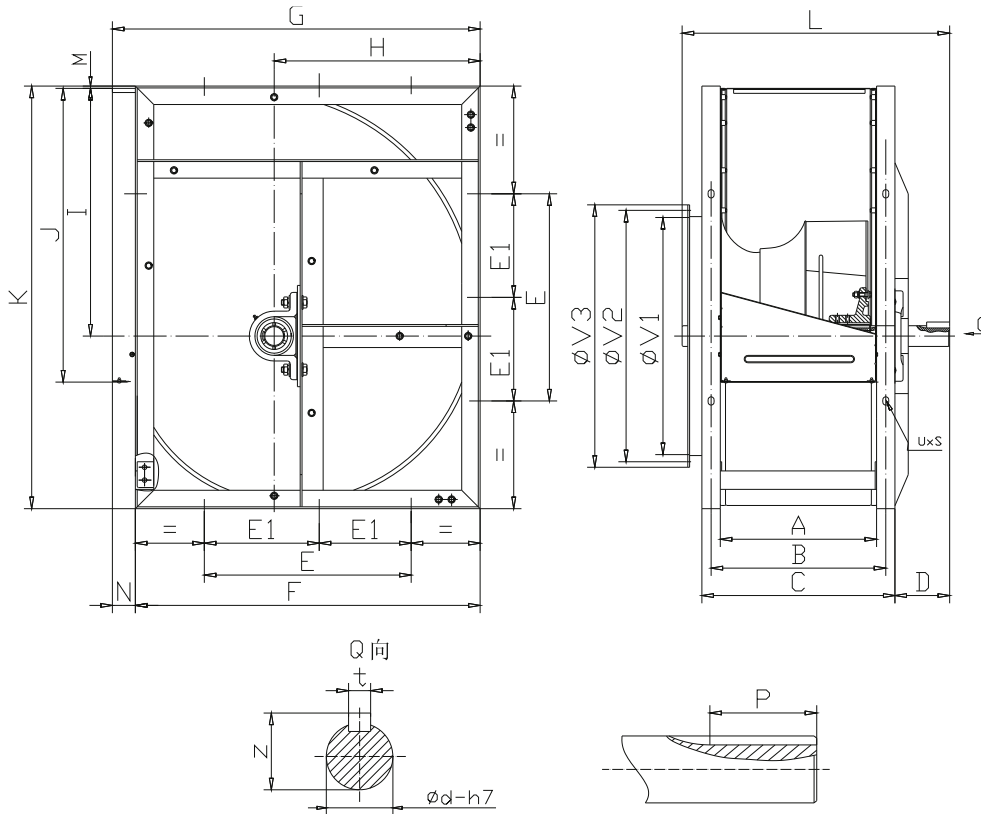
Technical data

Code	Model	Max. Airflow m ³ /h	Weight
-	BSTB-M 315	5.540	63
-	BSTB-M 355	6.980	64
-	BSTB-M 400	8.710	66
-	BSTB-M 450	12.980	93
-	BSTB-M 500	14.300	116
-	BSTB-M 560	19.100	146
-	BSTB-M 630	24.170	185
-	BSTB-M 710	29.390	223

Notes:

* The motor is not included in fan weight

Dimensions



Model	A	B	C	D	E	F	G	H	I
BSTB-M 315	230	260	290	80	280	480	518	282	340
BSTB-M 355	252	292	332	93	315	548	578	318	383
BSTB-M 400	280	320	360	93	355	612	650	360	432
BSTB-M 450	309	349	389	115	400	681	726	404	486
BSTB-M 500	340	380	420	119	450	750	800	448	538
BSTB-M 560	382	432	482	133	250	844	892	502	603
BSTB-M 630	425	475	525	133	280	945	998	564	679
BSTB-M 710	478	528	578	141	315	1075	1120	636	765

Model	J	K	L	M	N	P	UxS	t	z
BSTB-M 315	404	572	415	3	38	50	13x18	8	28,3
BSTB-M 355	452	654	460	6	30	40	13x18	8	33,3
BSTB-M 400	506	736	490	5	38	50	13x18	10	38,3
BSTB-M 450	586	827	542	5	45	70	13x18	12	43,3
BSTB-M 500	638	918	582	5	50	70	13x18	12	43,3
BSTB-M 560	714	1030	650	7	48	90	13x18	14	53,5
BSTB-M 630	800	1157	700	6	53	90	13x18	14	53,5

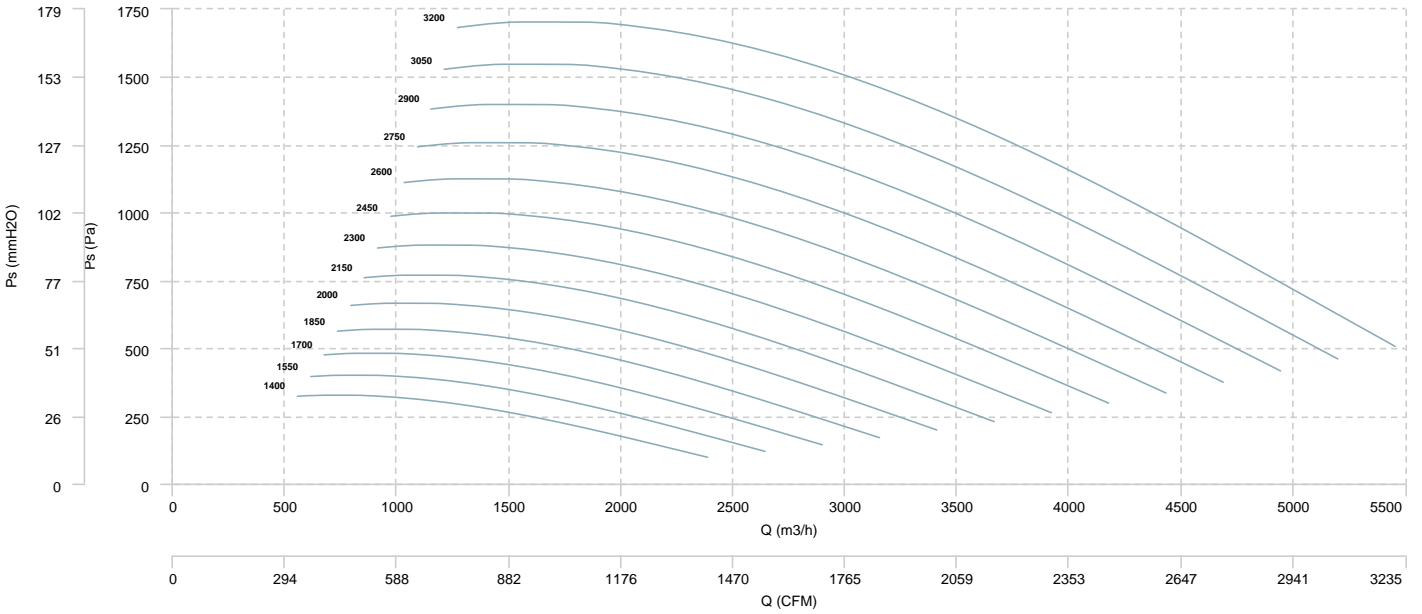
Model	J	K	L	M	N	P	UxS	t	z
BSTB-M 710	898	1302	758	7	63	90	17x22	14	53,5

Model	ØV1	ØV2	ØV3	Ød
BSTB-M 315	320	356	380	25
BSTB-M 355	362	397	420	30
BSTB-M 400	410	438	464	35
BSTB-M 450	457	490	520	40
BSTB-M 500	506	546	570	40
BSTB-M 560	570	600	636	50
BSTB-M 630	641	580	710	50
BSTB-M 710	709	762	800	50

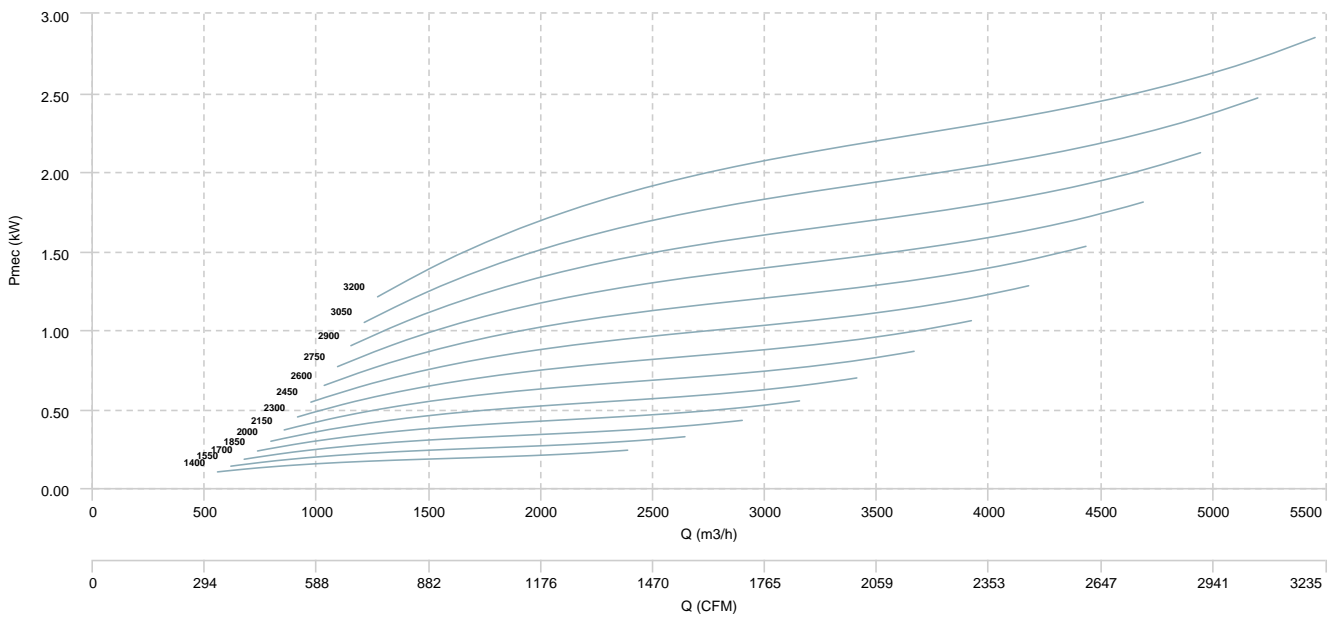
CHARACTERISTIC CURVE

BSTB-M 315

AIR FLOW - PRESSURE

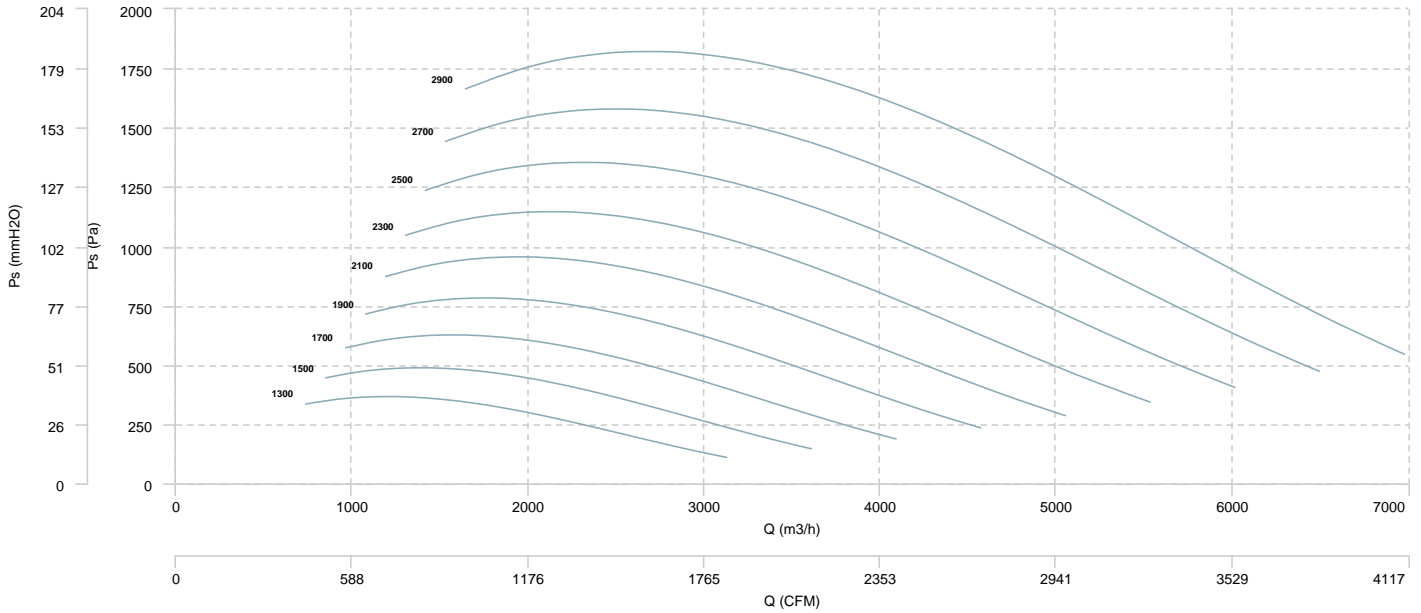


AIR FLOW - MECHANICAL POWER

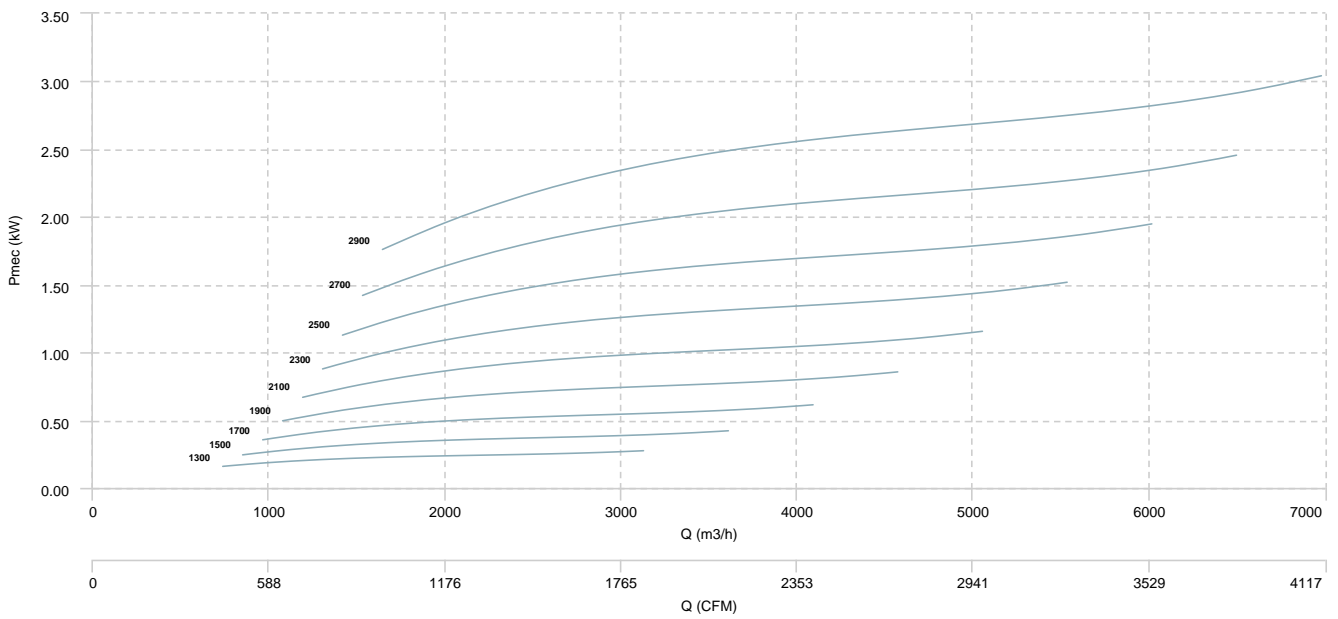


BSTB-M 355

AIR FLOW - PRESSURE

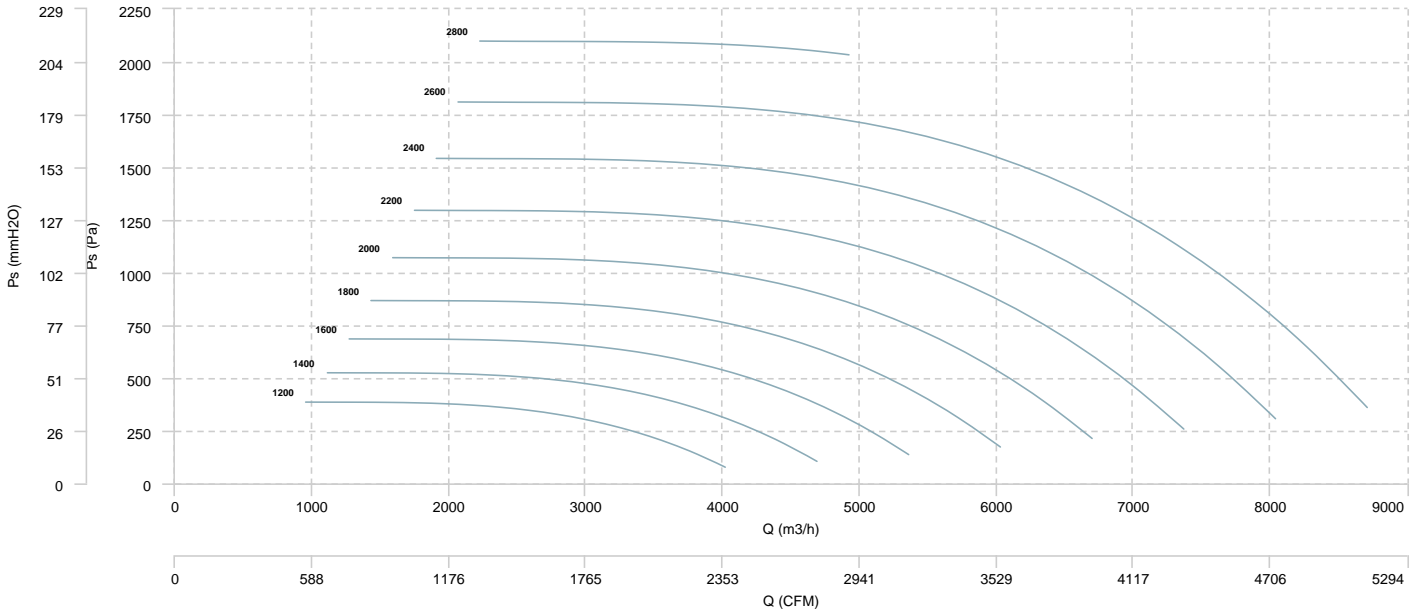


AIR FLOW - MECHANICAL POWER

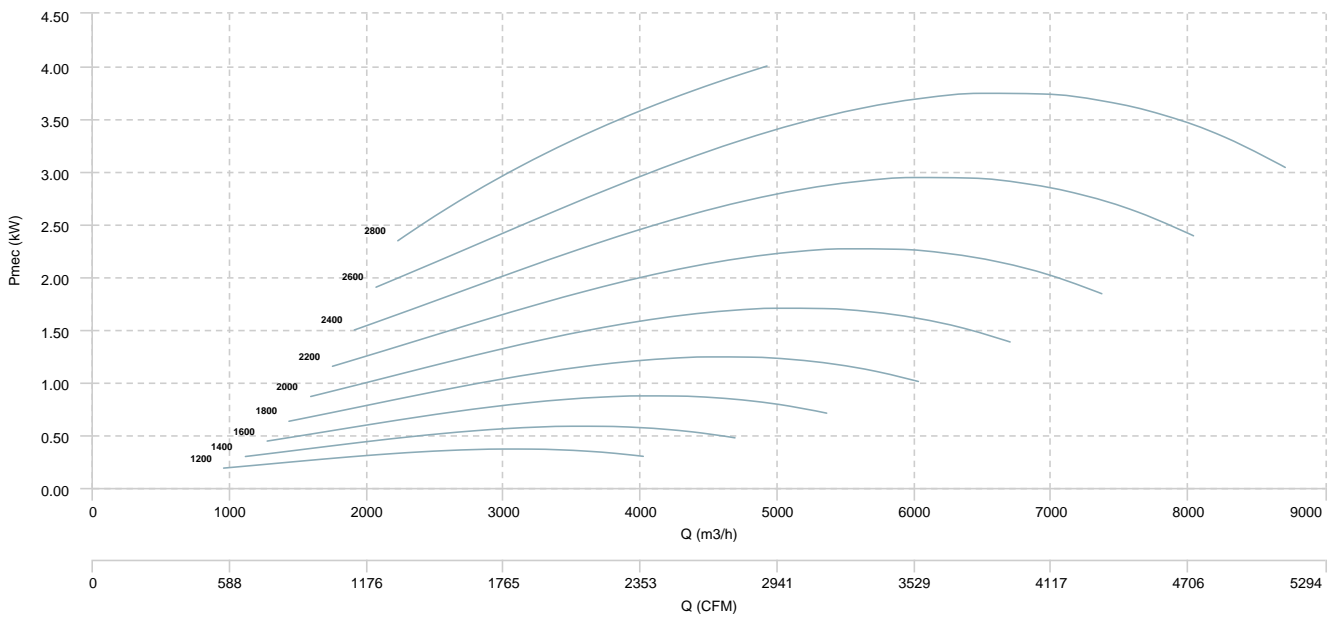


BSTB-M 400

AIR FLOW - PRESSURE

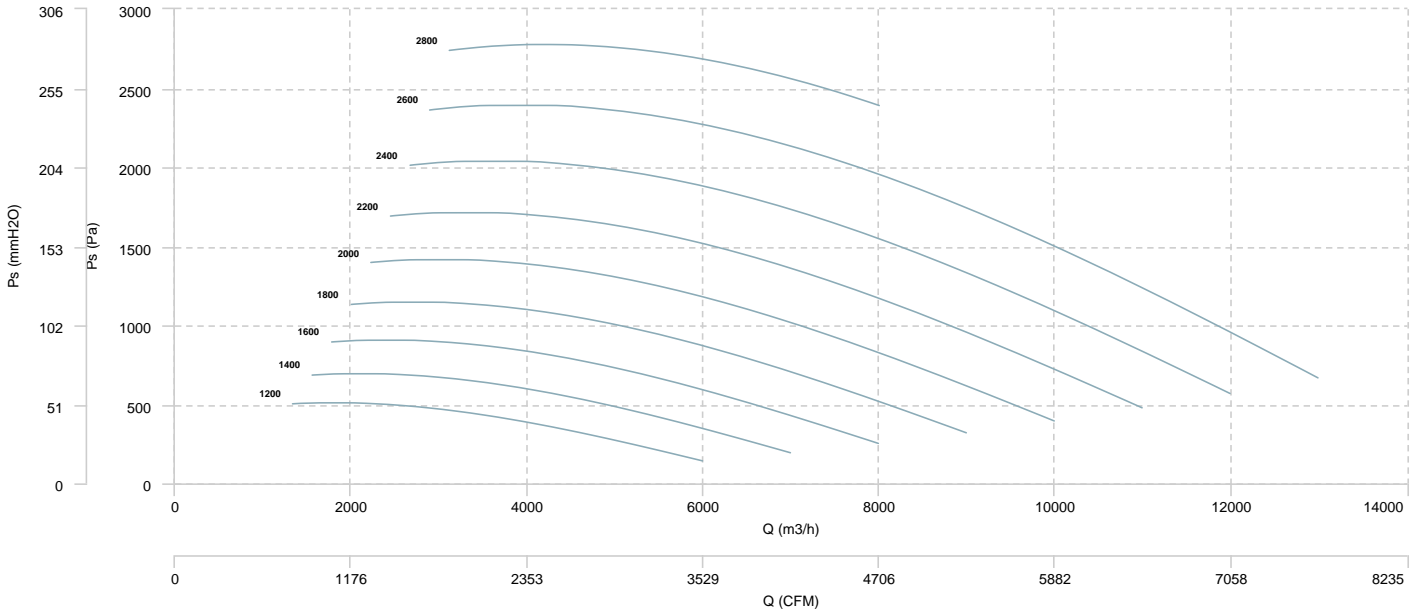


AIR FLOW - MECHANICAL POWER

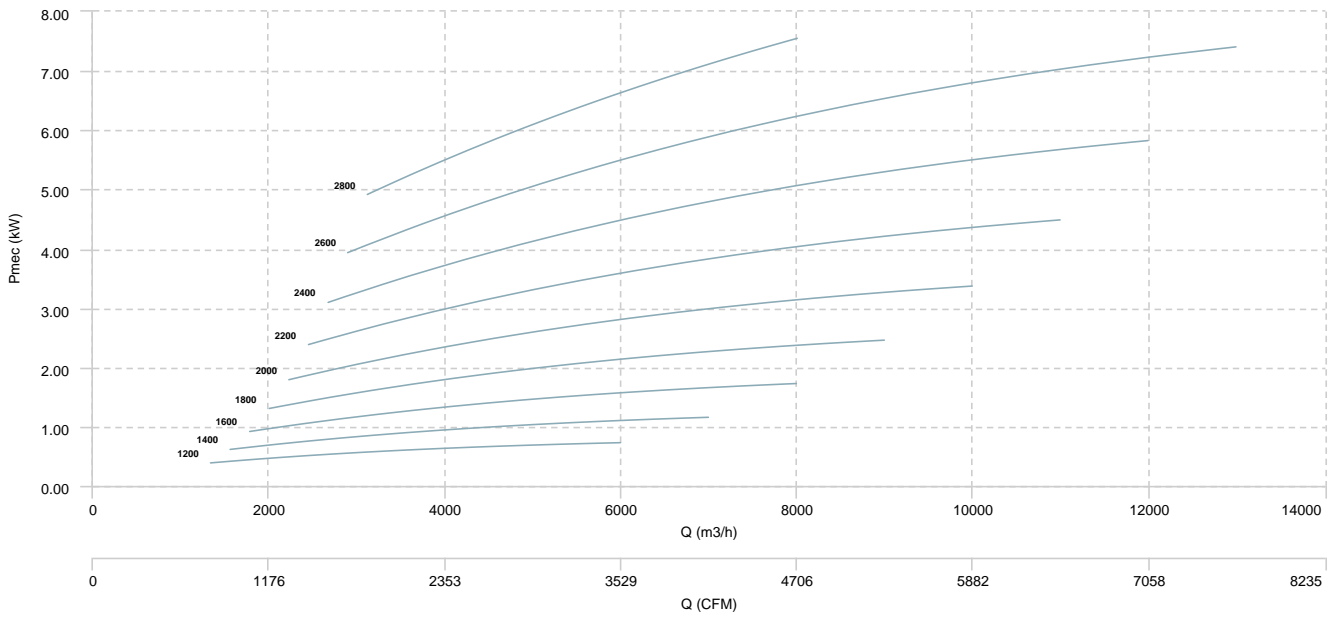


BSTB-M 450

AIR FLOW - PRESSURE

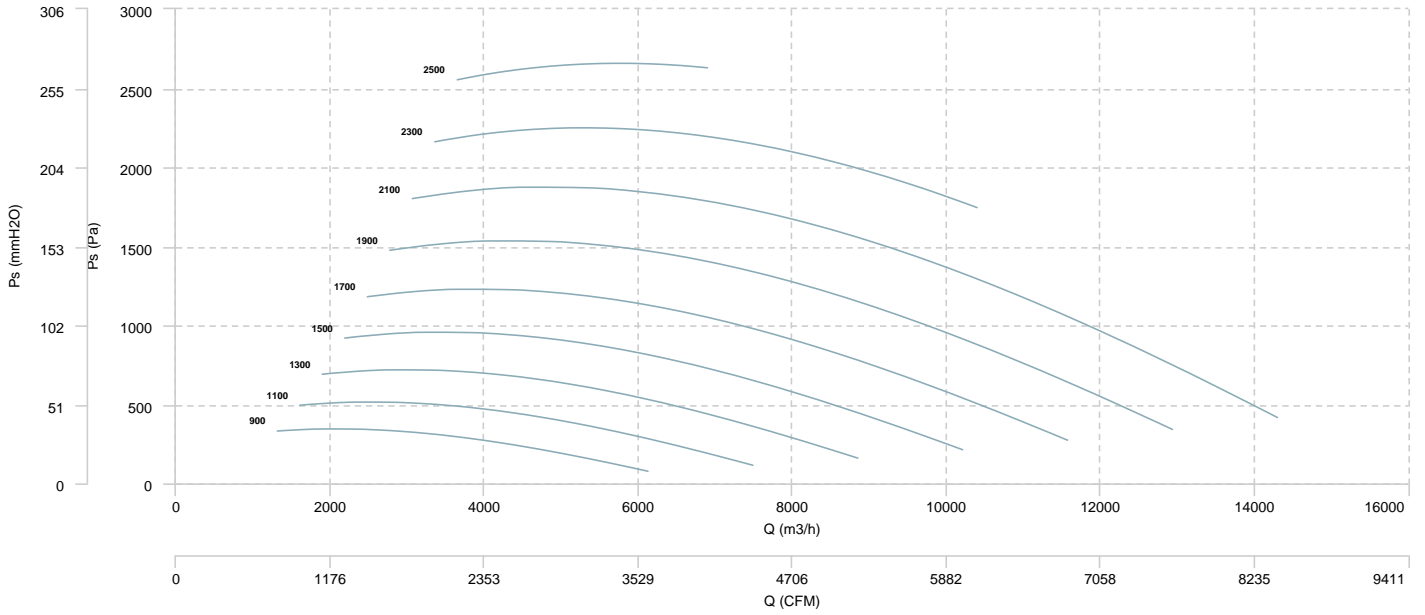


AIR FLOW - MECHANICAL POWER

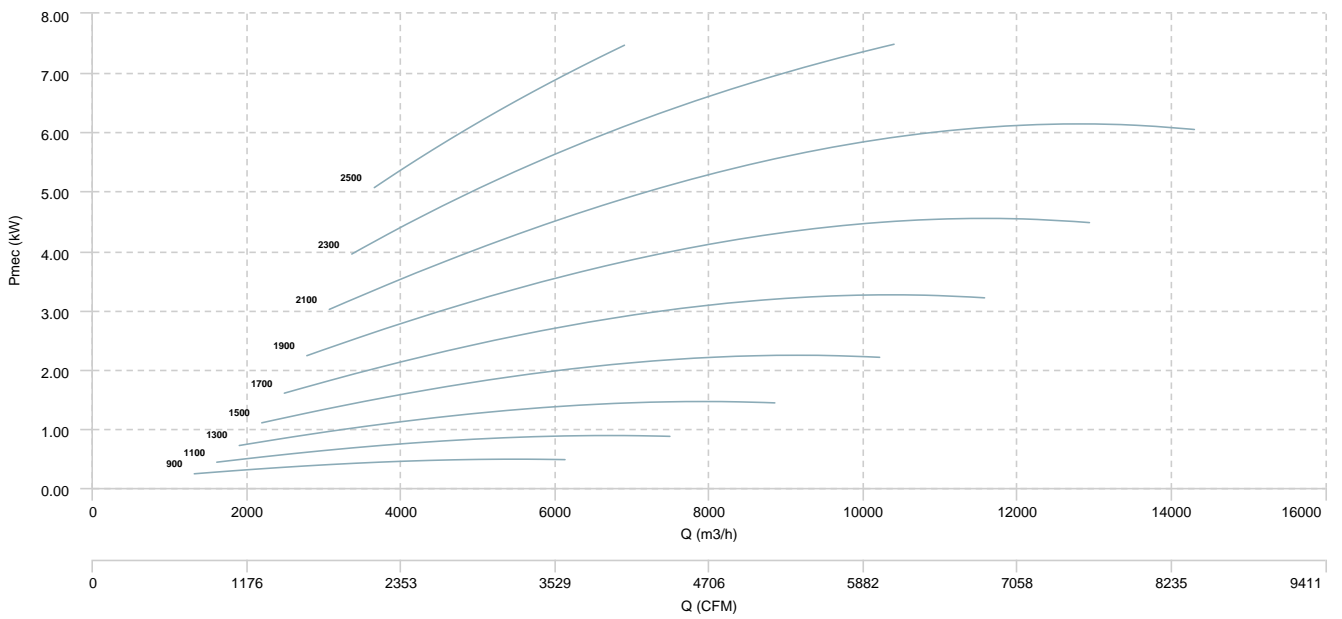


BSTB-M 500

AIR FLOW - PRESSURE

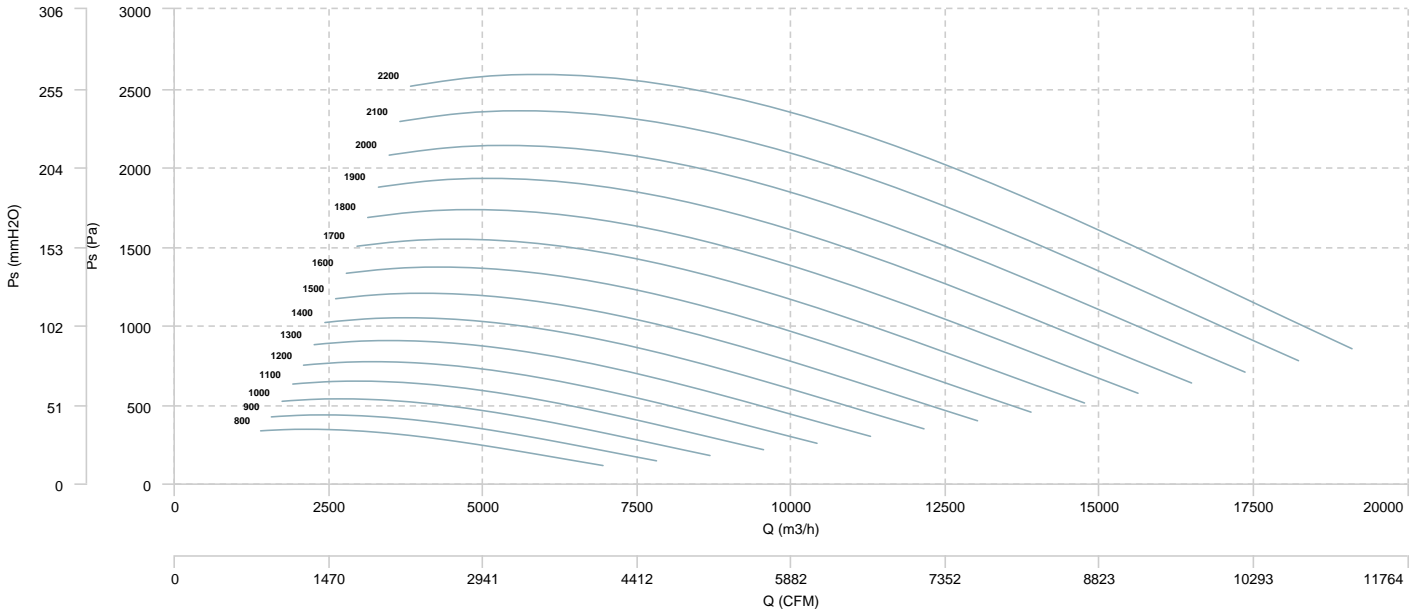


AIR FLOW - MECHANICAL POWER

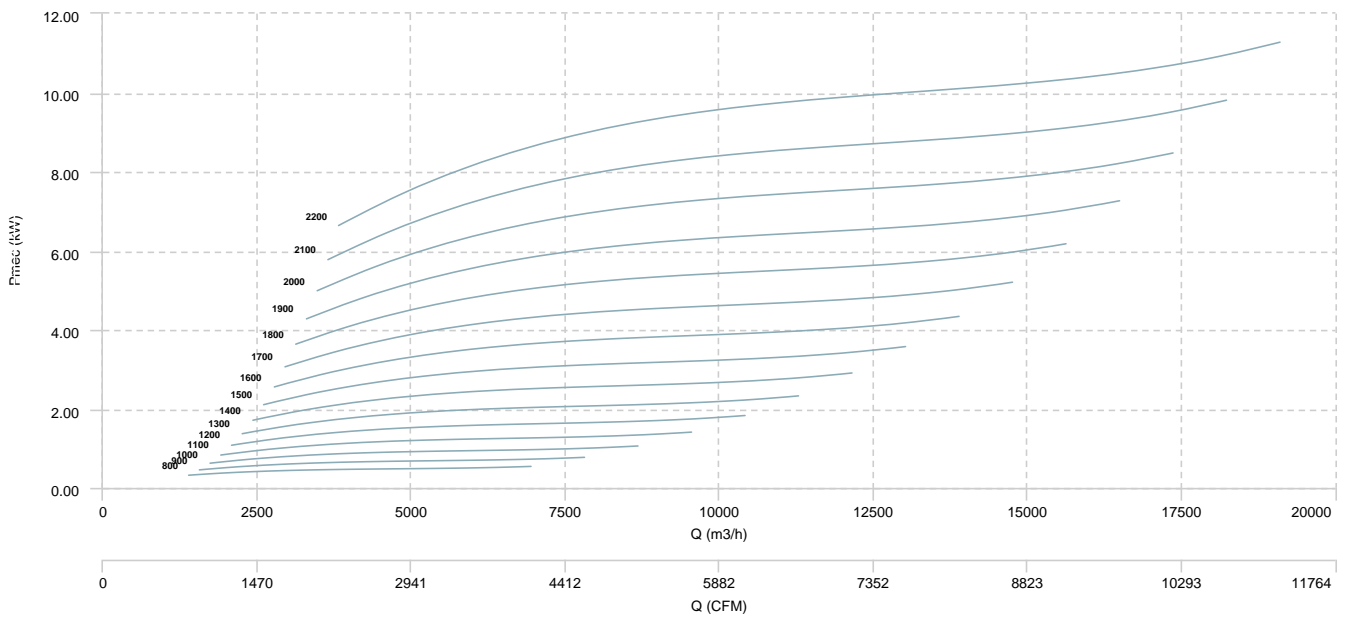


BSTB-M 560

AIR FLOW - PRESSURE

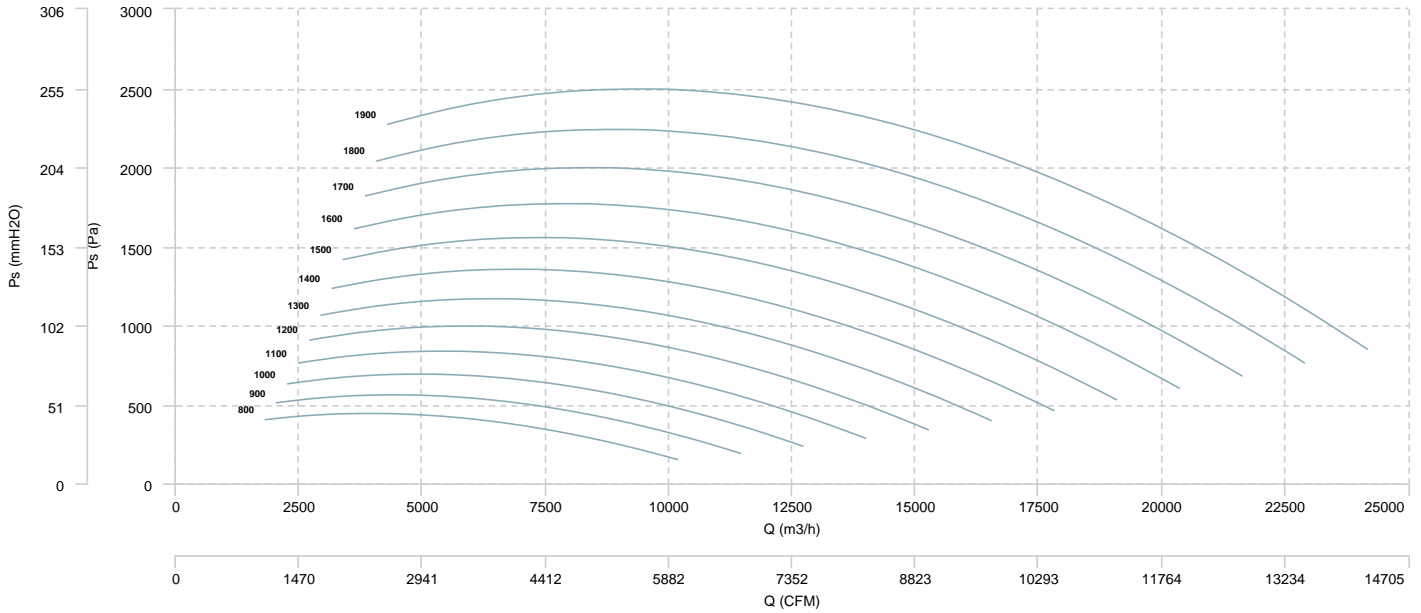


AIR FLOW - MECHANICAL POWER

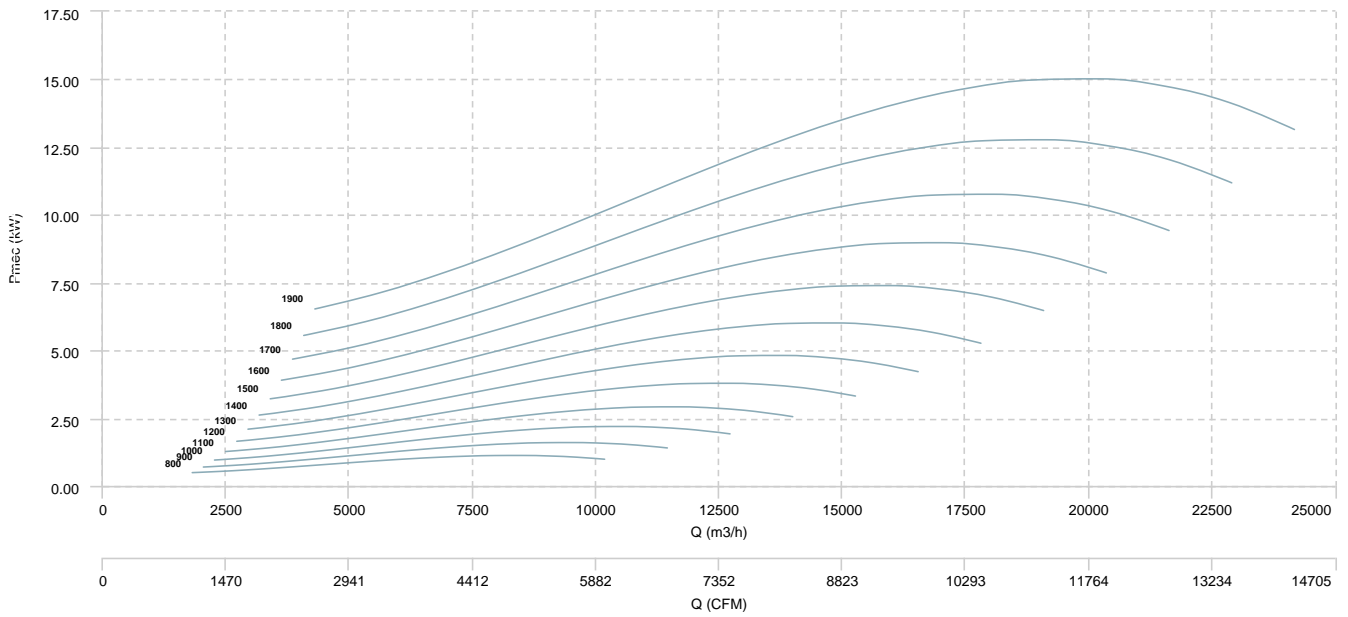


BSTB-M 630

AIR FLOW - PRESSURE

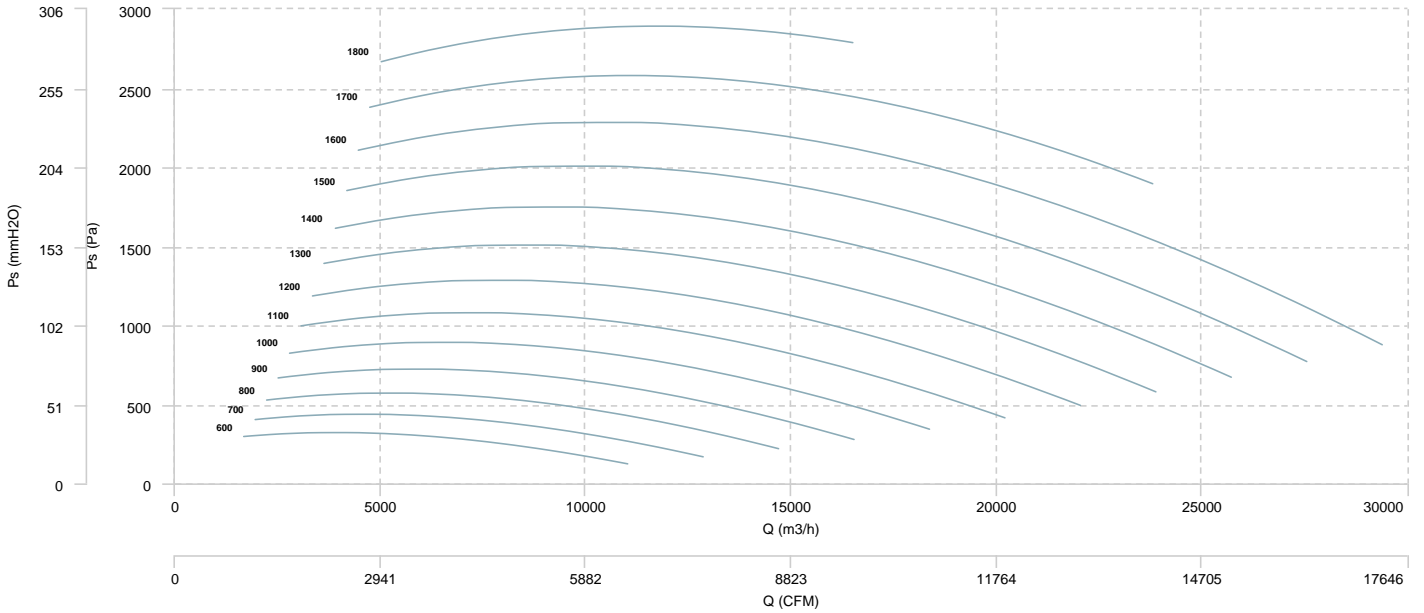


AIR FLOW - MECHANICAL POWER

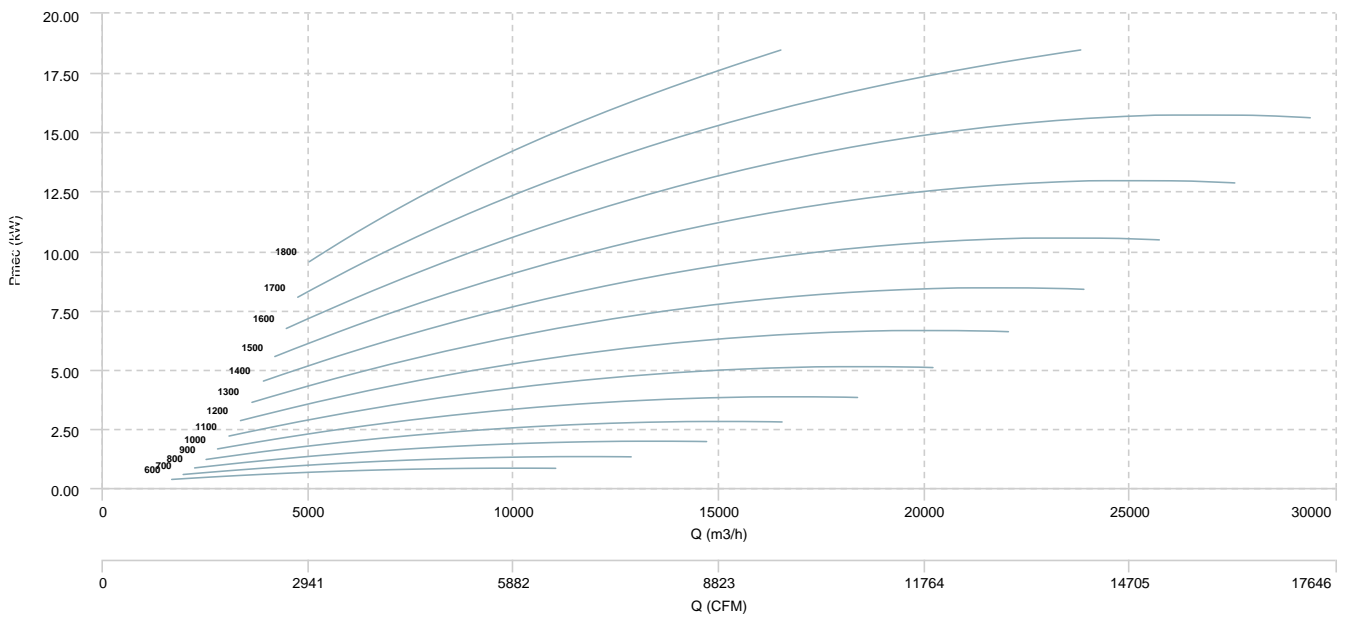


BSTB-M 710

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

		Sound power Lw dB (A)								
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
BSTB-M 315 (1400 RPM)	Inlet	46	57	68	69	69	68	59	48	75
	Radiated	41	52	63	64	64	63	54	43	70
BSTB-M 355 (2900 RPM)	Inlet	65	76	87	88	88	87	78	67	94
	Radiated	60	71	82	83	83	82	73	62	89
BSTB-M 400 (2800 RPM)	Inlet	73	81	92	93	96	93	84	72	100
	Radiated	68	76	87	88	91	88	79	67	95
BSTB-M 450 (2800 RPM)	Inlet	76	88	98	99	100	97	88	75	105
	Radiated	71	83	93	94	95	92	83	70	100
BSTB-M 500 (2500 RPM)	Inlet	72	88	95	97	100	96	89	75	104
	Radiated	67	83	90	92	95	91	84	70	99
BSTB-M 560 (2200 RPM)	Inlet	72	90	96	98	102	97	90	77	105
	Radiated	67	85	91	93	97	92	85	72	100
BSTB-M 630 (1900 RPM)	Inlet	71	88	95	97	101	97	89	77	104
	Radiated	66	83	90	92	96	92	84	72	100
BSTB-M 710 (1800 RPM)	Inlet	71	88	95	98	101	96	89	74	105
	Radiated	67	84	91	94	97	92	85	70	100

Notes:

* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$Lw\ dB(A)_{rpmA} = Lw\ dB(A)_{rpmB} + 52.5 \cdot \log_{10} \frac{rpmA}{rpmB}$$

erp data

ERP	
Fan type	Centrifugal fan radial or forward blades
Installation category	A
Efficiency category	Static
The fan has to be installed with FSC	No

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
BSTB-M 315	3	31,16	40,48	1.312,97	288,37	0,34	1400	1,00
BSTB-M 315	3	32,73	41,89	1.359,87	309,34	0,36	1450	1,00
BSTB-M 315	3	34,20	43,20	1.406,76	331,04	0,38	1500	1,00
BSTB-M 315	3	34,32	43,07	1.453,64	353,48	0,42	1550	1,00
BSTB-M 315	3	35,63	44,22	1.500,54	376,65	0,44	1600	1,00
BSTB-M 315	3	36,87	45,29	1.547,42	400,56	0,47	1650	1,00
BSTB-M 315	3	38,03	46,30	1.594,31	425,20	0,49	1700	1,00
BSTB-M 315	3	39,13	47,23	1.641,22	450,58	0,52	1750	1,00
BSTB-M 315	3	40,17	48,11	1.688,10	476,70	0,56	1800	1,00
BSTB-M 315	3	41,14	48,93	1.734,99	503,55	0,59	1850	1,00
BSTB-M 315	3	42,06	49,69	1.781,91	531,13	0,62	1900	1,00
BSTB-M 315	3	42,93	50,39	1.828,80	559,45	0,66	1950	1,00
BSTB-M 315	3	43,74	51,05	1.875,68	588,51	0,70	2000	1,00
BSTB-M 315	3	44,51	51,66	1.922,57	618,31	0,74	2050	1,00
BSTB-M 315	3	45,23	52,23	1.969,47	648,83	0,78	2100	1,00
BSTB-M 315	3	45,91	52,75	2.016,34	680,10	0,83	2150	1,00
BSTB-M 315	3	46,54	53,24	2.063,27	712,09	0,87	2200	1,00
BSTB-M 315	3	47,13	53,68	2.110,15	744,83	0,92	2250	1,00
BSTB-M 315	3	47,69	54,09	2.157,01	778,31	0,98	2300	1,00
BSTB-M 315	3	48,21	54,47	2.203,89	812,52	1,03	2350	1,00
BSTB-M 315	3	48,70	54,81	2.250,83	847,45	1,08	2400	1,00
BSTB-M 315	3	49,15	55,11	2.297,68	883,14	1,14	2450	1,00
BSTB-M 315	3	49,57	55,39	2.344,60	919,55	1,20	2500	1,00
BSTB-M 315	3	49,96	55,64	2.391,46	956,71	1,27	2550	1,00
BSTB-M 315	3	50,32	55,86	2.438,35	994,59	1,33	2600	1,00
BSTB-M 315	3	50,65	56,05	2.485,22	1.033,22	1,40	2650	1,00
BSTB-M 315	3	50,96	56,22	2.532,18	1.072,56	1,48	2700	1,00
BSTB-M 315	3	51,24	56,37	2.579,12	1.112,64	1,55	2750	1,00
BSTB-M 315	3	51,49	56,49	2.625,94	1.153,49	1,63	2800	1,00

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
BSTB-M 315	3	51,72	56,58	2.672,76	1.195,07	1,71	2850	1,00
BSTB-M 315	3	51,93	56,66	2.719,76	1.237,34	1,79	2900	1,00
BSTB-M 315	3	52,11	56,71	2.766,60	1.280,39	1,88	2950	1,00
BSTB-M 315	3	52,28	56,75	2.813,55	1.324,14	1,97	3000	1,00
BSTB-M 315	3	52,42	56,77	2.860,51	1.368,63	2,07	3050	1,00
BSTB-M 315	3	52,55	56,76	2.907,39	1.413,88	2,16	3100	1,00
BSTB-M 315	3	52,65	56,74	2.954,11	1.459,90	2,27	3150	1,00
BSTB-M 315	3	52,74	56,70	3.001,20	1.506,56	2,37	3200	1,00
BSTB-M 315	3	52,81	56,65	3.048,10	1.554	2,48	3250	1,00
BSTB-M 355	-	61,49	64,88	4.088,66	1.600,73	2,93	2900	1,00
BSTB-M 355	-	61,27	65,23	3.806,46	1.387,75	2,38	2700	1,00
BSTB-M 355	-	60,59	65,15	3.524,86	1.189,65	1,91	2500	1,00
BSTB-M 355	-	59,35	64,54	3.242,86	1.006,96	1,52	2300	1,00
BSTB-M 355	-	57,45	63,30	2.960,70	839,48	1,19	2100	1,00
BSTB-M 355	-	54,73	61,27	2.678,74	687,20	0,93	1900	1,00
BSTB-M 355	-	51,02	58,29	2.396,71	550,15	0,71	1700	1,00
BSTB-M 355	-	47,44	55,53	2.114,77	428,32	0,53	1500	1,00
BSTB-M 355	-	39,49	48,26	1.832,81	321,70	0,41	1300	1,00
BSTB-M 400	-	61,21	63,39	4.922	2.034,17	4,54	2800	1,00
BSTB-M 400	-	63,55	66,03	5.577,91	1.631,43	4,07	2600	1,00
BSTB-M 400	-	63,60	66,74	5.149,84	1.389,92	3,20	2400	1,00
BSTB-M 400	-	63,31	67,16	4.720,25	1.167,96	2,47	2200	1,00
BSTB-M 400	-	62,57	67,17	4.290,85	965,34	1,88	2000	1,00
BSTB-M 400	-	61,21	66,61	3.862,17	781,86	1,40	1800	1,00
BSTB-M 400	-	58,95	65,22	3.433,06	617,78	1,02	1600	1,00
BSTB-M 400	-	53,75	60,87	3.003,83	472,97	0,75	1400	1,00
BSTB-M 400	-	49,83	58,01	2.574,61	347,50	0,51	1200	1,00
BSTB-M 450	-	63,51	64,06	7.710,59	2.444,48	8,24	2800	1,00
BSTB-M 450	-	63,45	64,61	7.160,83	2.107,65	6,61	2600	1,00
BSTB-M 450	-	62,97	64,77	6.613,03	1.795,36	5,24	2400	1,00
BSTB-M 450	-	61,98	64,45	6.058,89	1.509,07	4,10	2200	1,00
BSTB-M 450	-	60,35	63,52	5.508,11	1.247,12	3,16	2000	1,00
BSTB-M 450	-	57,90	61,83	4.958,41	1.010,06	2,40	1800	1,00
BSTB-M 450	-	54,40	59,13	4.407,28	798,08	1,79	1600	1,00
BSTB-M 450	-	53,67	59,46	3.856,11	611,08	1,22	1400	1,00
BSTB-M 450	-	42,71	49,14	3.305,37	448,95	0,96	1200	1,00
BSTB-M 500	-	60,84	61,37	6.900	2.630,02	8,29	2500	1,00
BSTB-M 500	-	63,73	64,54	8.361,88	2.056,70	7,50	2300	1,00



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
BSTB-M 500	-	63,43	64,97	7.614,77	1.716,84	5,74	2100	1,00
BSTB-M 500	-	62,45	64,77	6.888,31	1.405,48	4,32	1900	1,00
BSTB-M 500	-	60,60	63,76	6.166,47	1.124,86	3,19	1700	1,00
BSTB-M 500	-	60,56	64,75	5.440,27	875,80	2,19	1500	1,00
BSTB-M 500	-	53,12	58,12	4.713,75	657,90	1,62	1300	1,00
BSTB-M 500	-	46,45	52,46	3.988,99	471,04	1,12	1100	1,00
BSTB-M 500	-	37,52	44,60	3.263,79	315,32	0,76	900	1,00
BSTB-M 560	-	64,13	64,16	12.028,68	2.086,77	10,81	2200	1,00
BSTB-M 560	-	64,10	64,29	11.472,69	1.902,63	9,41	2100	1,00
BSTB-M 560	-	63,94	64,52	10.928,34	1.725,46	8,15	2000	1,00
BSTB-M 560	-	63,64	64,63	10.388,54	1.556,35	7,02	1900	1,00
BSTB-M 560	-	63,17	64,59	9.836,49	1.397,51	6,01	1800	1,00
BSTB-M 560	-	62,49	64,35	9.288,47	1.246,67	5,12	1700	1,00
BSTB-M 560	-	61,59	63,90	8.747,87	1.103,83	4,33	1600	1,00
BSTB-M 560	-	61,32	64,15	8.195,26	970,71	3,59	1500	1,00
BSTB-M 560	-	59,89	63,22	7.651,01	845,40	2,99	1400	1,00
BSTB-M 560	-	56,91	60,71	7.107,45	728,68	2,52	1300	1,00
BSTB-M 560	-	54,44	58,78	6.557,63	621,12	2,07	1200	1,00
BSTB-M 560	-	51,33	56,22	6.011,91	521,86	1,69	1100	1,00
BSTB-M 560	-	45,56	50,91	5.465,88	431,25	1,43	1000	1,00
BSTB-M 560	-	40,56	46,46	4.919,35	349,30	1,17	900	1,00
BSTB-M 560	-	36,03	42,57	4.373,08	275,99	0,93	800	1,00
BSTB-M 630	-	65,65	65,52	12.794,40	2.397,05	13,14	1900	1,00
BSTB-M 630	-	65,46	65,45	12.137,64	2.150,52	11,21	1800	1,00
BSTB-M 630	-	65,10	65,26	11.464,01	1.918,08	9,49	1700	1,00
BSTB-M 630	-	64,56	65,20	10.768,84	1.700,14	7,97	1600	1,00
BSTB-M 630	-	64,91	66,09	10.098,71	1.494,03	6,53	1500	1,00
BSTB-M 630	-	64,07	65,79	9.437,84	1.301,01	5,38	1400	1,00
BSTB-M 630	-	61,32	63,53	8.759,95	1.121,89	4,49	1300	1,00
BSTB-M 630	-	59,45	62,24	8.091,20	955,78	3,65	1200	1,00
BSTB-M 630	-	57	60,39	7.419,30	803,07	2,93	1100	1,00
BSTB-M 630	-	54,63	58,69	6.741,50	663,77	2,29	1000	1,00
BSTB-M 630	-	50,41	55,12	6.067,90	537,64	1,81	900	1,00
BSTB-M 630	-	43,91	49,22	5.392,44	424,83	1,45	800	1,00
BSTB-M 710	-	64,02	63,56	16.500	2.789,40	19,98	1800	1,00
BSTB-M 710	-	66,01	65,62	19.318,60	2.280,84	18,52	1700	1,00
BSTB-M 710	-	65,91	65,65	18.066,66	2.027,90	15,51	1600	1,00
BSTB-M 710	-	66,18	66,07	16.965,15	1.780,60	12,74	1500	1,00



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
BSTB-M 710	-	65,83	65,88	15.797	1.553,31	10,40	1400	1,00
BSTB-M 710	-	64,49	64,95	14.753,15	1.334,87	8,52	1300	1,00
BSTB-M 710	-	63,41	64,49	13.608,64	1.137,85	6,81	1200	1,00
BSTB-M 710	-	61,88	63,60	12.466,06	956,49	5,37	1100	1,00
BSTB-M 710	-	59,40	61,80	11.289,85	792,24	4,20	1000	1,00
BSTB-M 710	-	56,39	59,51	10.167,17	641,48	3,22	900	1,00
BSTB-M 710	-	52,50	56,39	9.049,73	506,46	2,43	800	1,00
BSTB-M 710	-	38,09	43,49	6.783,33	284,97	1,40	600	1,00