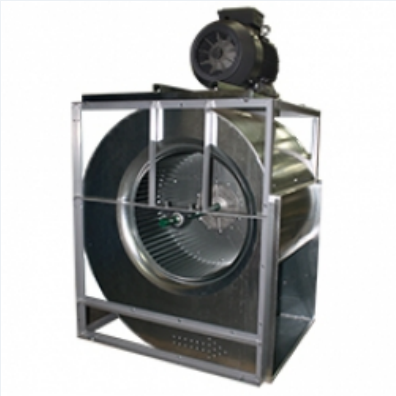
BST-M



SIMPLE INLET FORWARD IMPELLER, BELT DRIVEN (WIT MOTOR AND TRANSMISION)

MANUFACTURING FEATURES:

• Fully made of galvanised steel sheet.
• Simple inlet forward curved impeller in all models.
• 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:

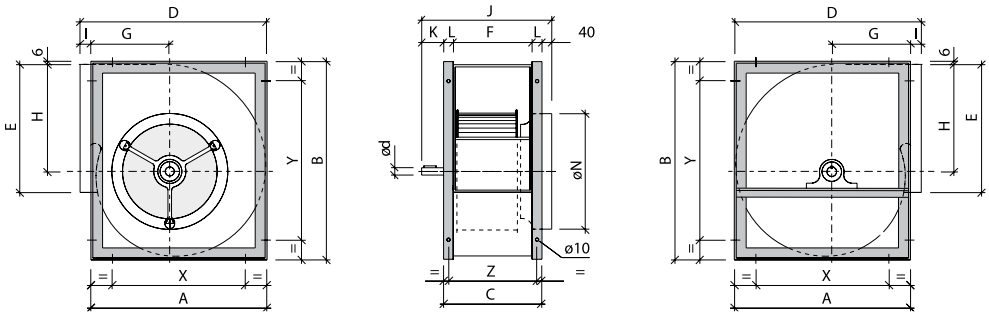
Designed for assembly in equipment:
• Ventilation boxes and air handling units.
• Centrifugal heaters.
• Industrial and professional kitchen hoods.
• Maximum working temperature: carried air: 130ºC, ambient: 60ºC.

Technical data

Code	Model	Max. Airflow m3/h	Weight
-	BST-M 9/4	2.800	10
-	BST-M 10/5	3.400	11
-	BST-M 12/6	4.500	15
-	BST-M 15/7	7.000	23
-	BST-M 18/9	9.000	30
-	BSTR-M 20/10	12.000	68
-	BSTR-M 22/11	16.000	75
-	BSTR-M 25/13	20.000	89
-	BSTR-M 30/14	28.000	120

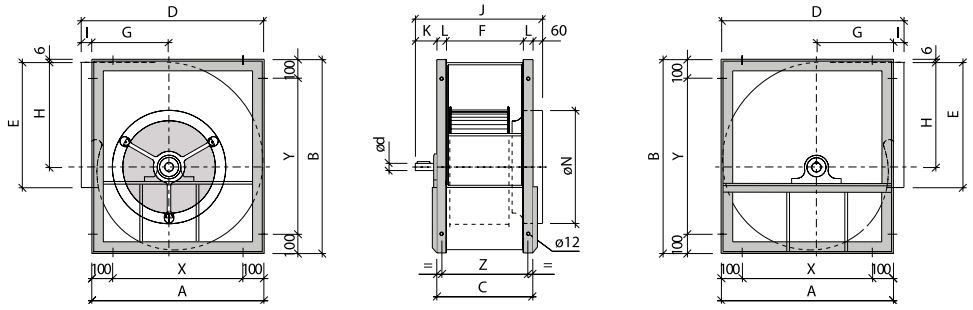
Notes:
* The motor is not included in fan weight

Dimensions



Model	A	B	C	D	E	F	G	H	I
BST-M 9/4	355	404	217	380	265	169	155	218	25
BST-M 10/5	402	452	230	432	290	182	177	245	30
BST-M 12/6	475	534	268	505	342	210	203	290	30
BST-M 15/7	553	622	329	583	404	271	238	343	30
BST-M 18/9	666	754	368	700	480	298	285	417	34

Model	J	K	L	X	Y	Z	ØN	Ød
BST-M 9/4	297	40	24	280	327	193	248	20
BST-M 10/5	310	40	24	326	377	206	278	20
BST-M 12/6	358	20	29	384	453	240	313	25
BST-M 15/7	417	50	29	460	531	300	398	25
BST-M 18/9	458	50	35	553	641	333	448	25



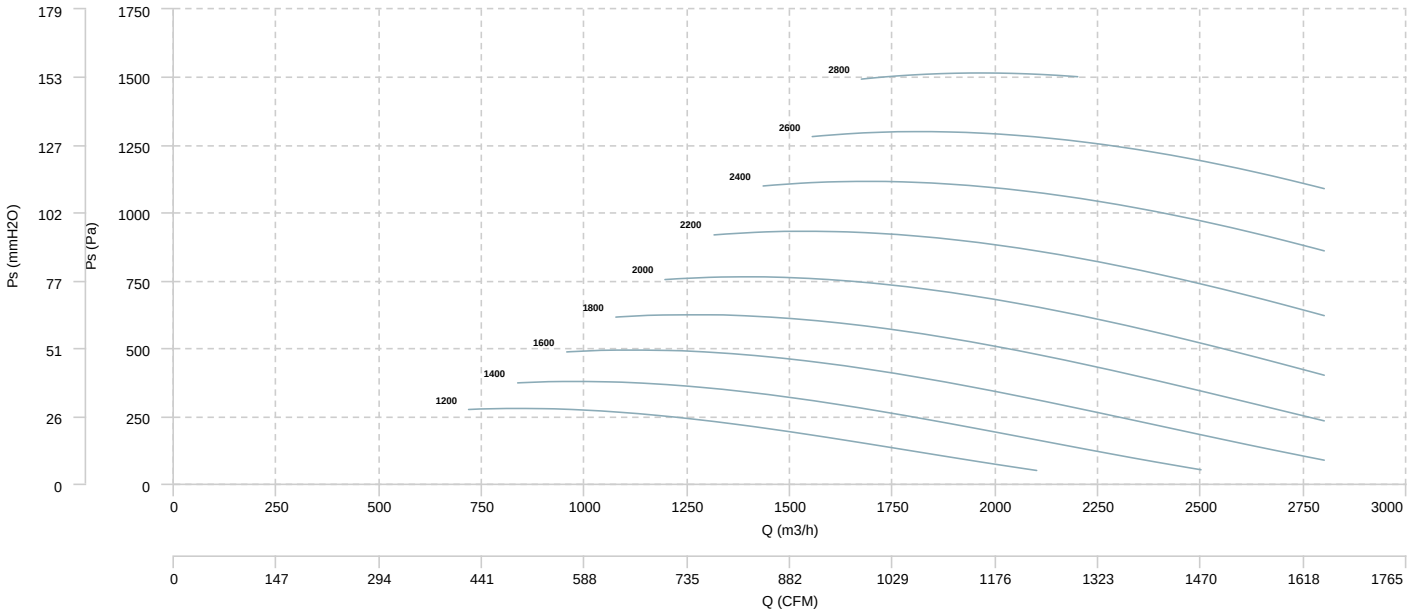
Model	A	B	C	D	E	F	G	H	I
BSTR-M 20/10	795	935	395	840	604	315	328	523	45
BSTR-M 22/11	863	1019	430	908	695	350	354	571	45
BSTR-M 25/13	953	1142	487	998	794	407	382	640	45
BSTR-M 30/14	1159	1374	547	1204	933	467	472	778	45

Model	J	K	L	X	Y	Z	ØN	Ød
BSTR-M 20/10	550	95	40	595	735	359	558	35
BSTR-M 22/11	583	95	40	663	819	392	628	35
BSTR-M 25/13	642	95	40	753	942	451	708	35
BSTR-M 30/14	734	130	40	959	1174	508	798	40

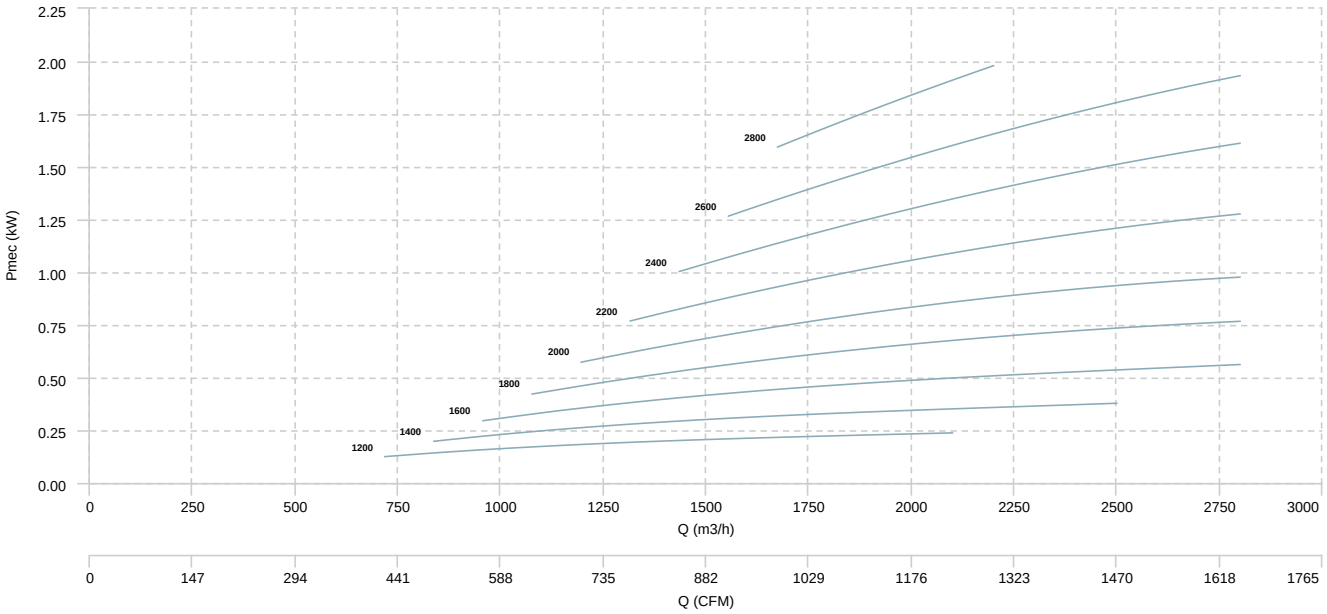
CHARACTERISCTIC CURVE

BST-M 9/4

AIR FLOW - PRESSURE

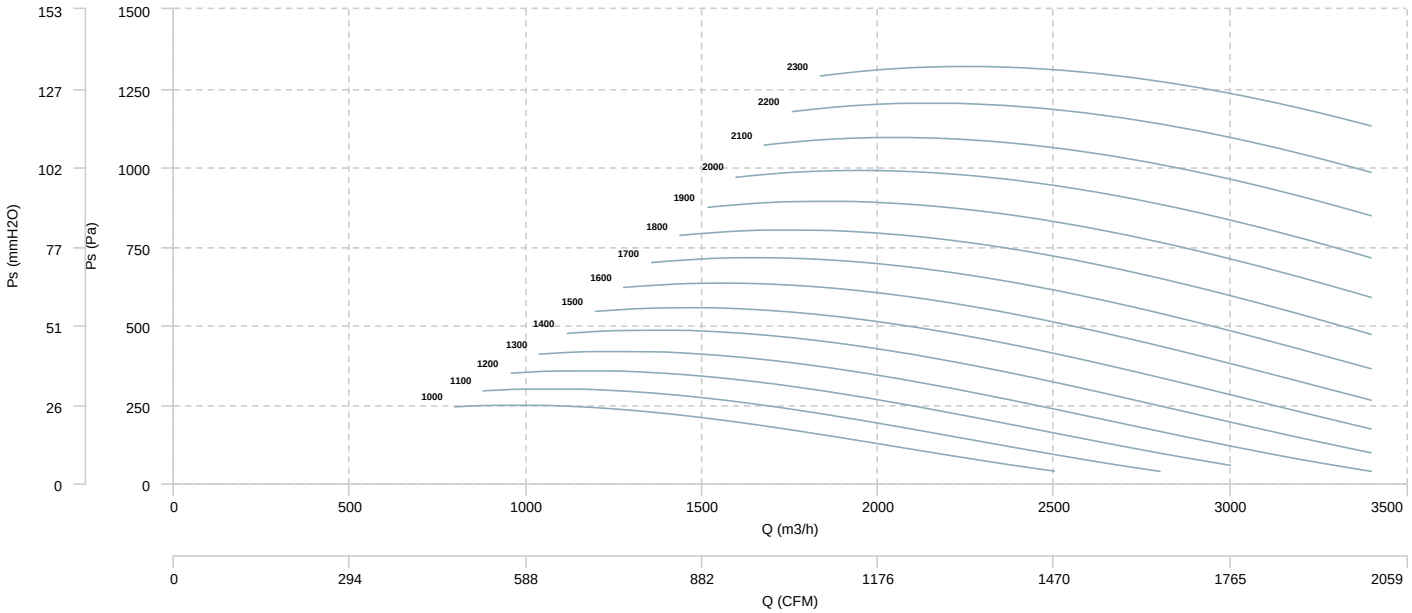


AIR FLOW - MECHANICAL POWER

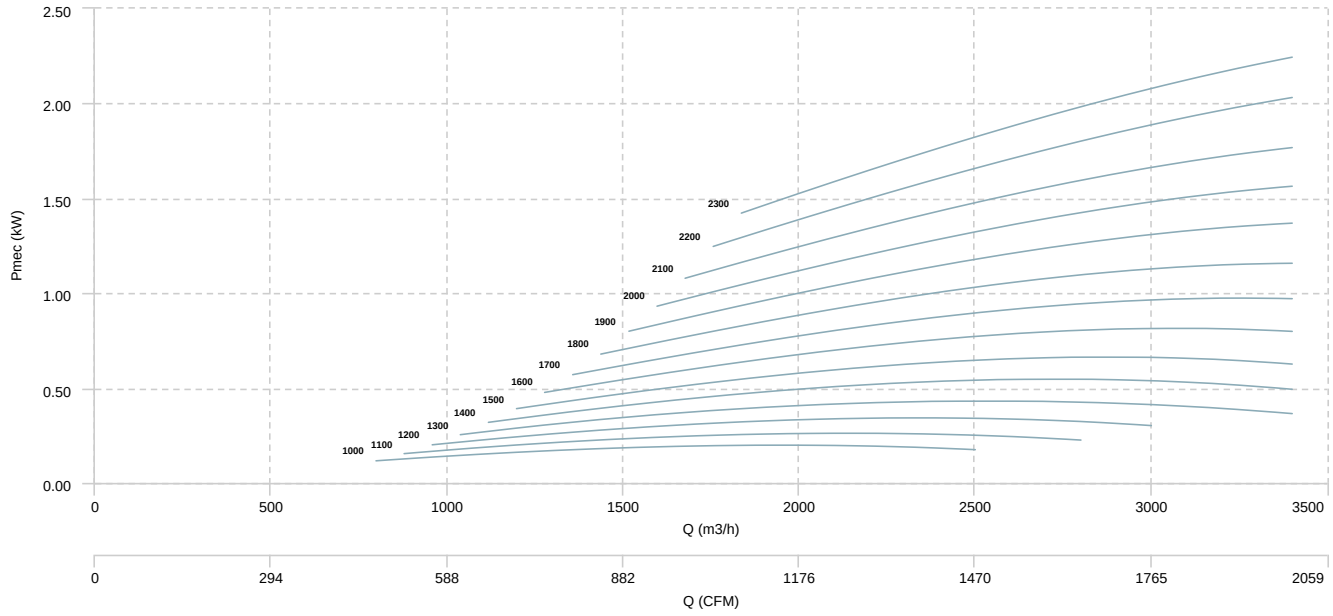


BST-M 10/5

AIR FLOW - PRESSURE

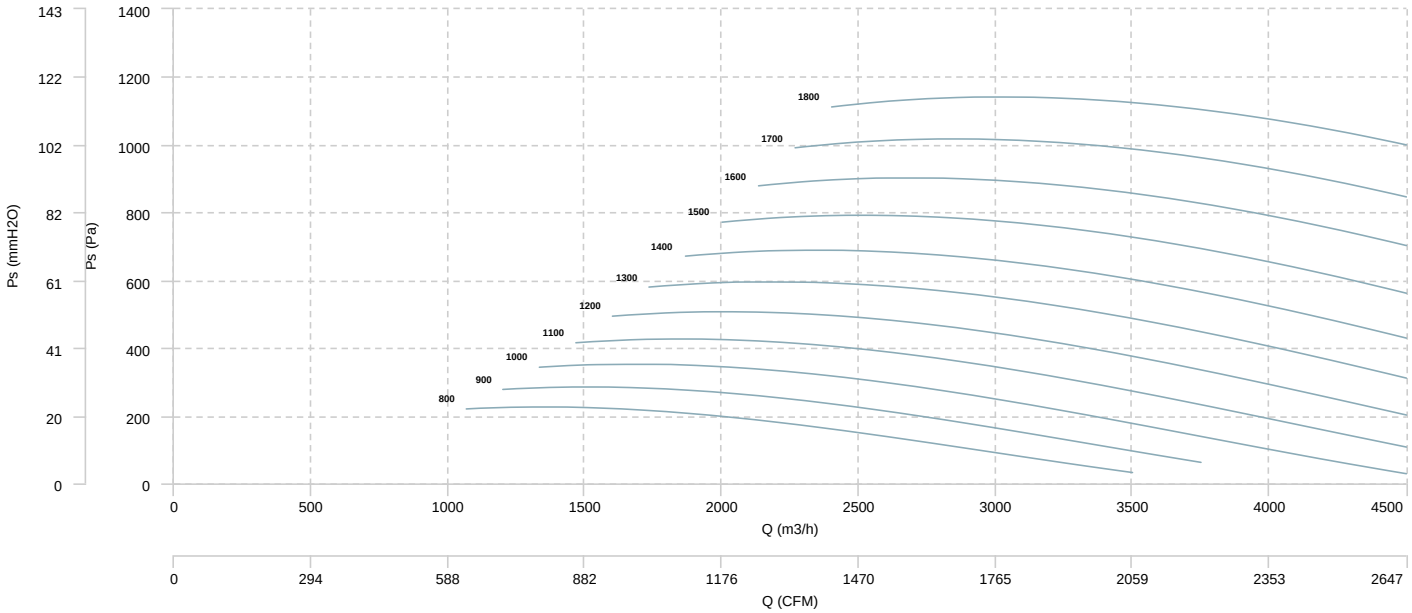


AIR FLOW - MECHANICAL POWER

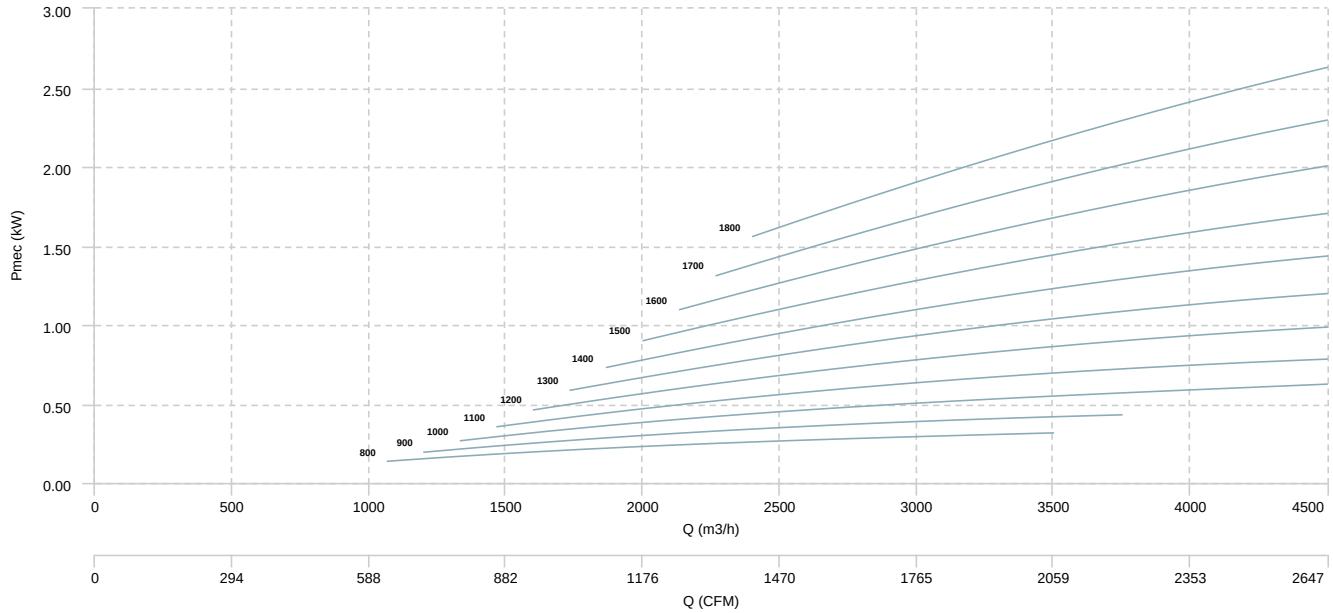


BST-M 12/6

AIR FLOW - PRESSURE

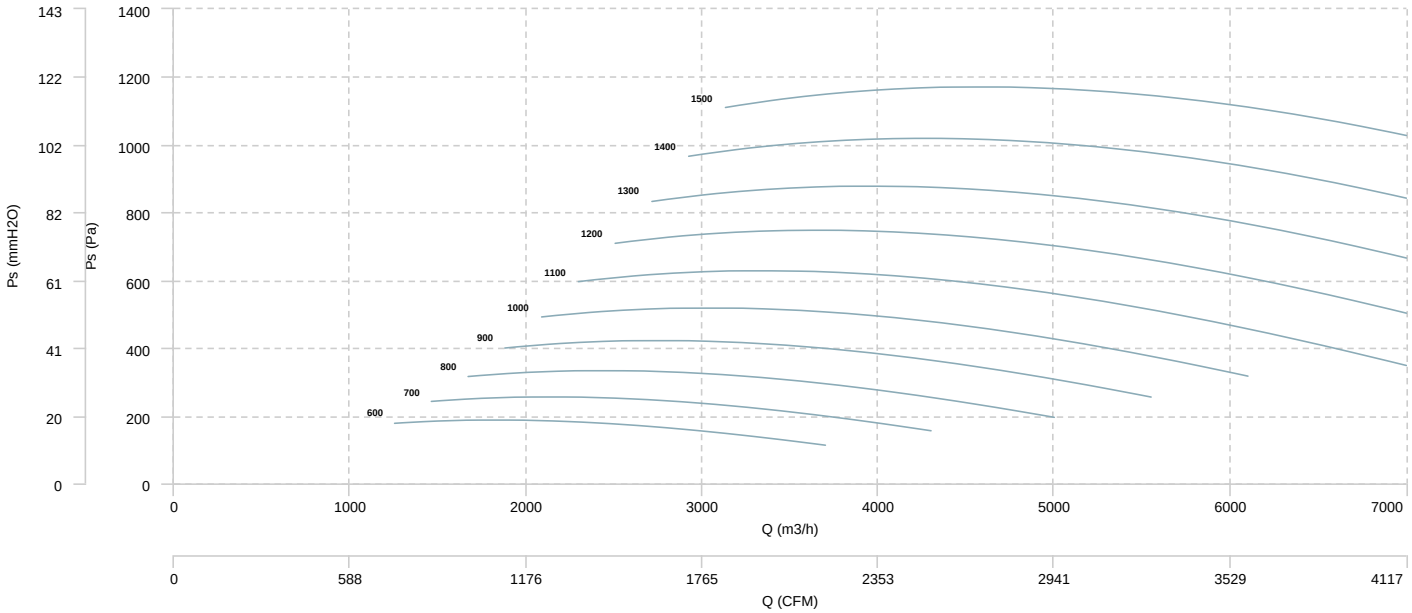


AIR FLOW - MECHANICAL POWER

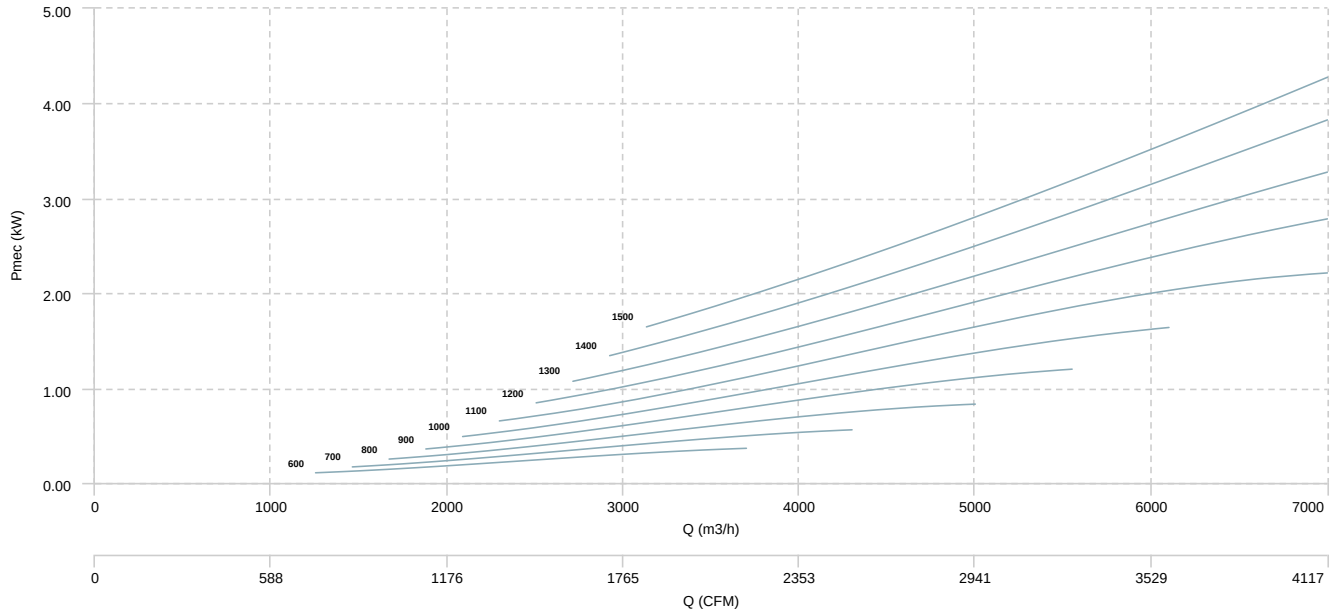


BST-M 15/7

AIR FLOW - PRESSURE

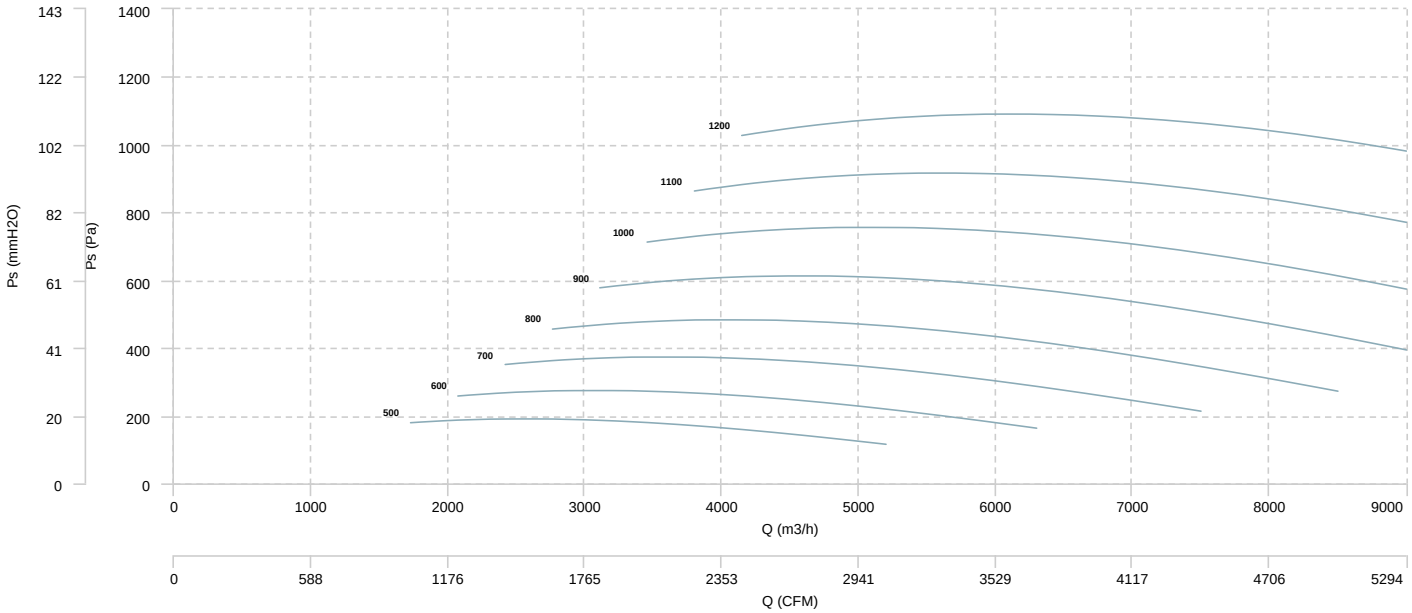


AIR FLOW - MECHANICAL POWER

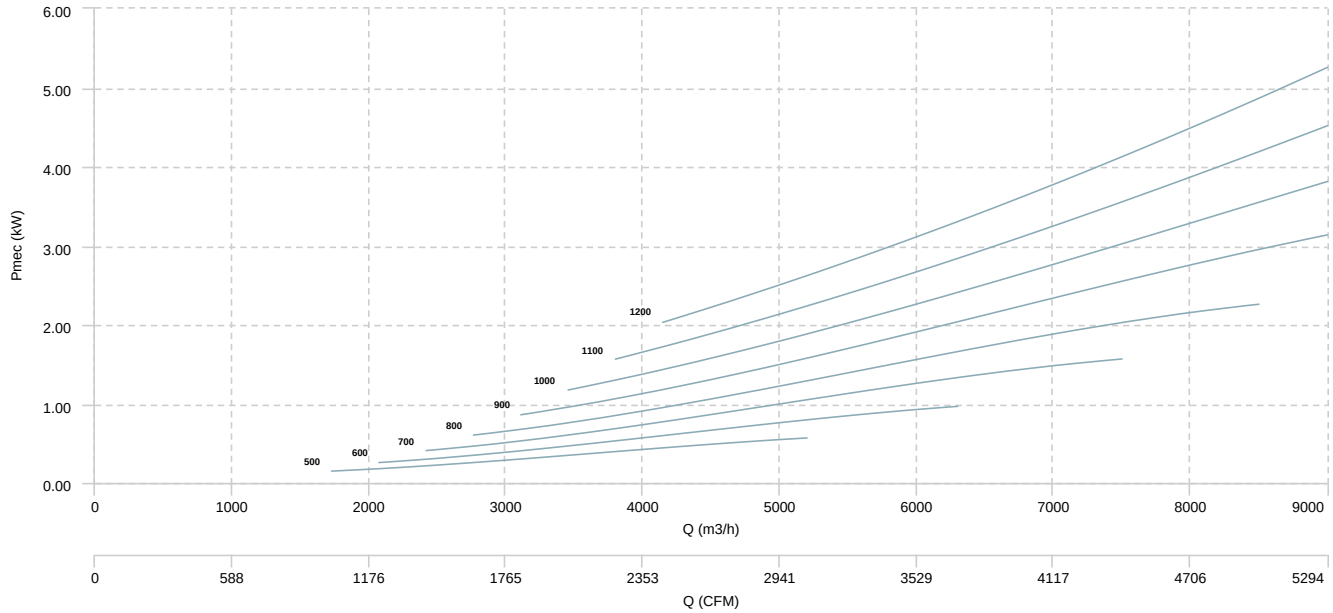


BST-M 18/9

AIR FLOW - PRESSURE

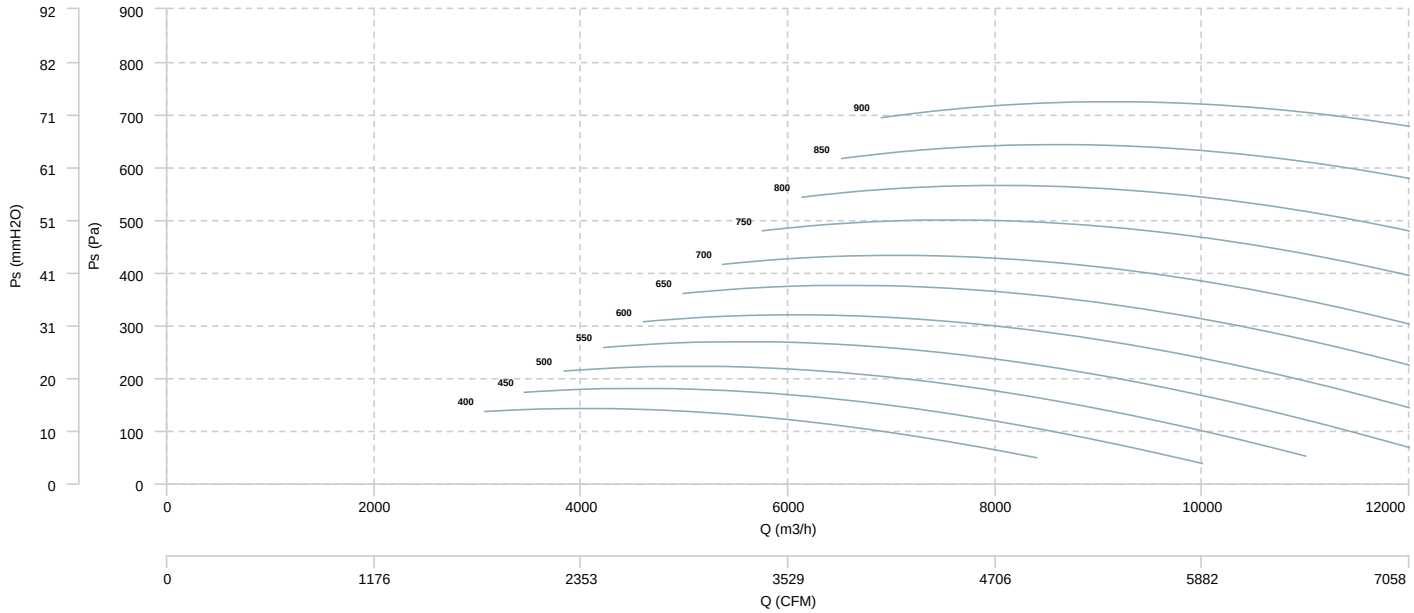


AIR FLOW - MECHANICAL POWER

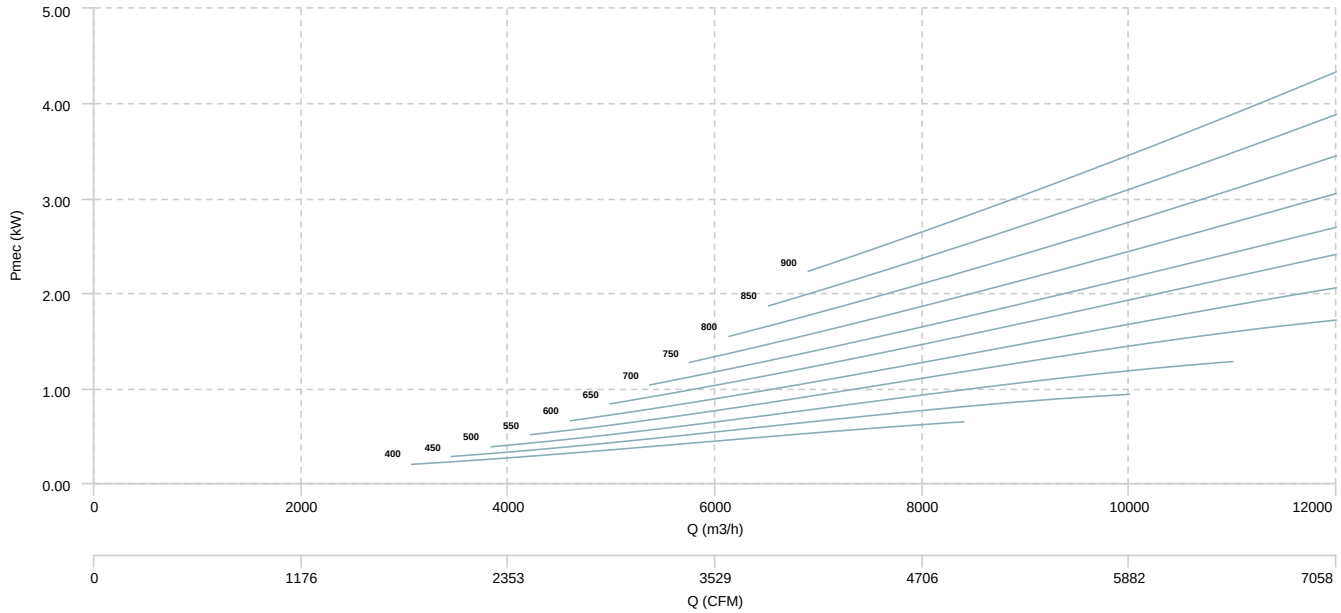


BSTR-M 20/10

AIR FLOW - PRESSURE

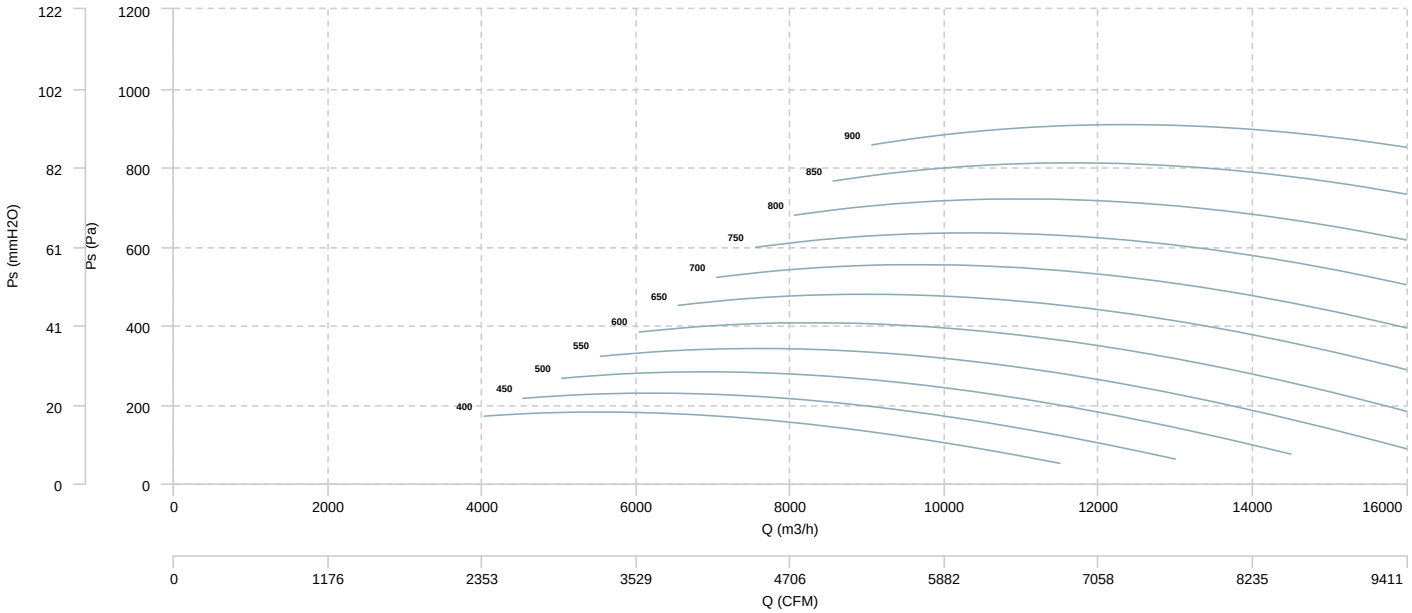


AIR FLOW - MECHANICAL POWER

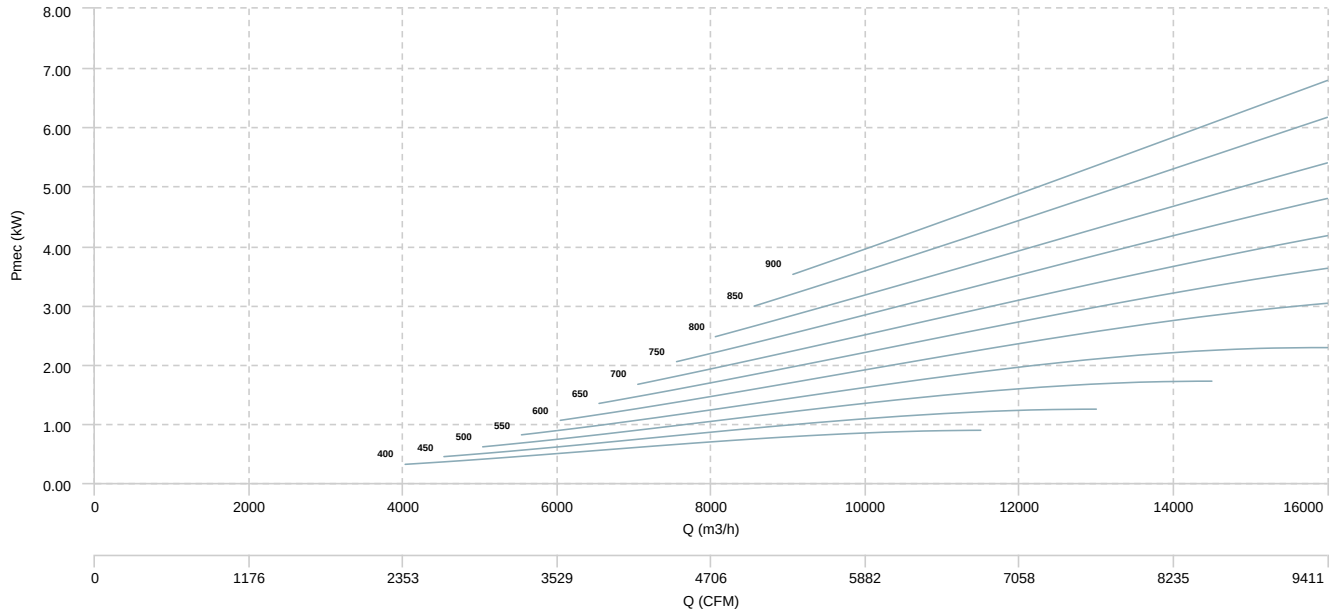


BSTR-M 22/11

AIR FLOW - PRESSURE

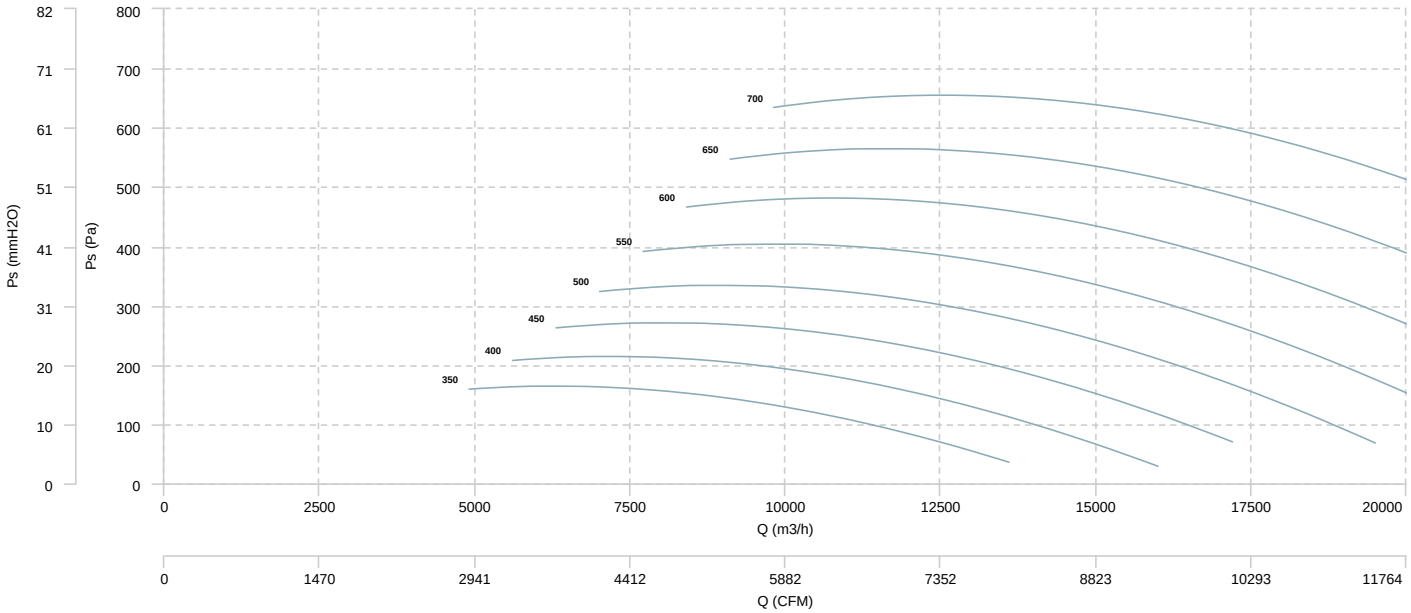


AIR FLOW - MECHANICAL POWER

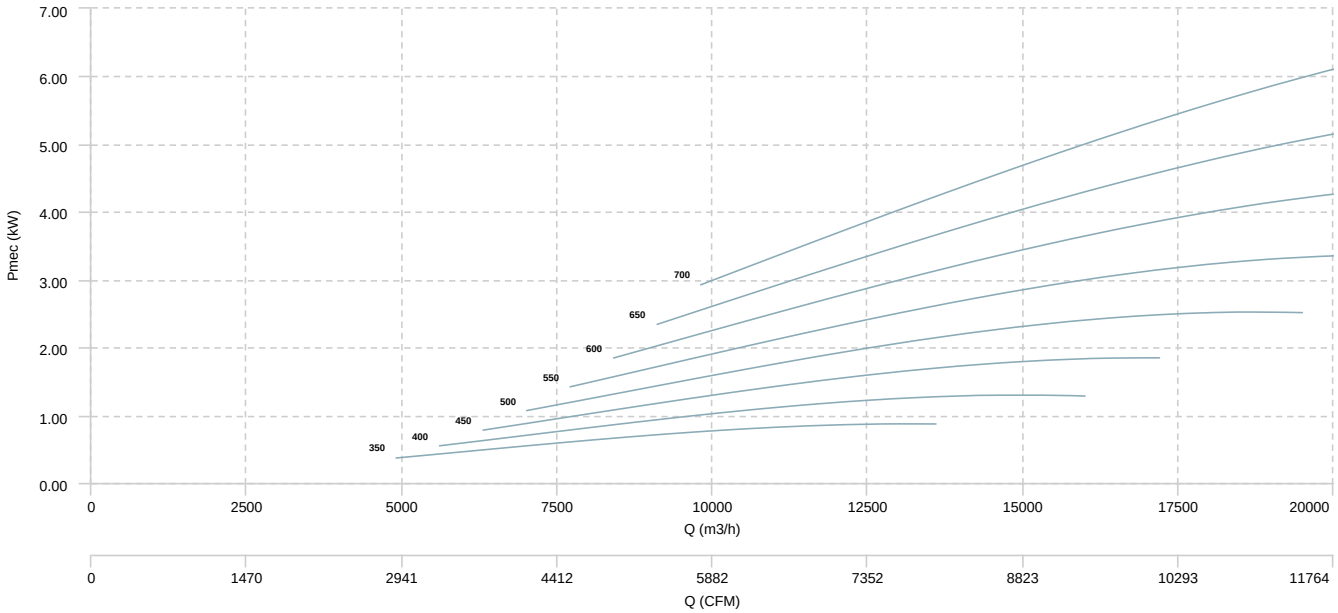


BSTR-M 25/13

AIR FLOW - PRESSURE

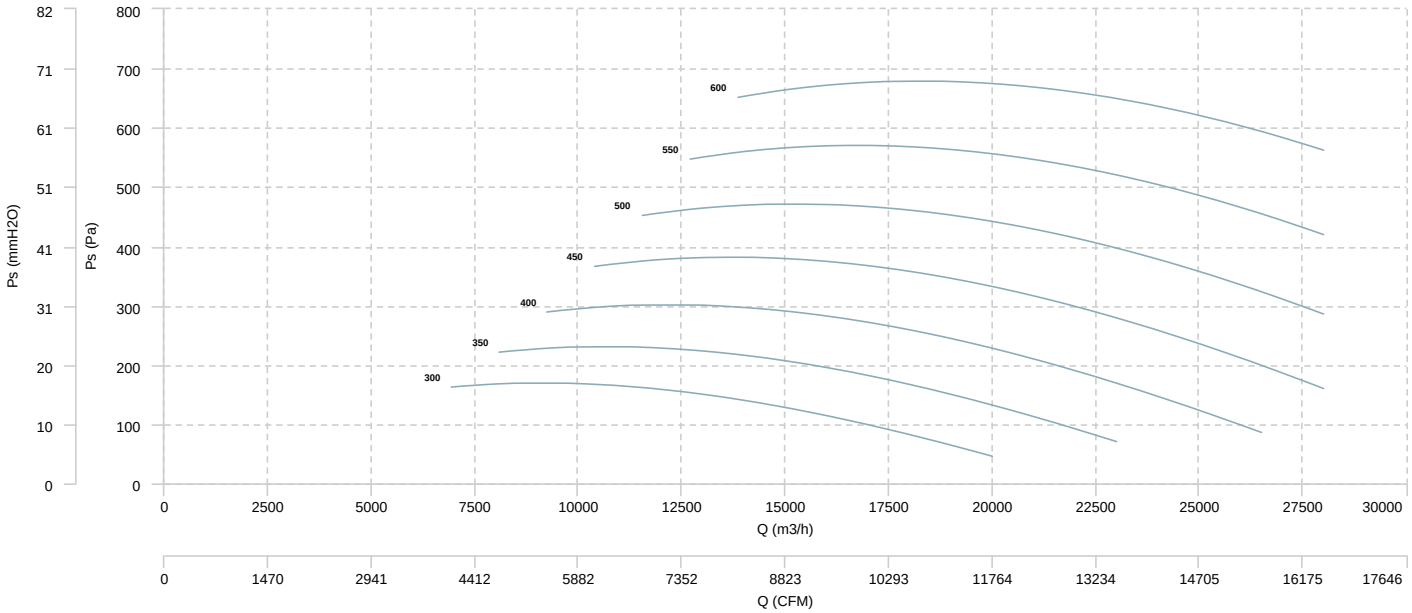


AIR FLOW - MECHANICAL POWER

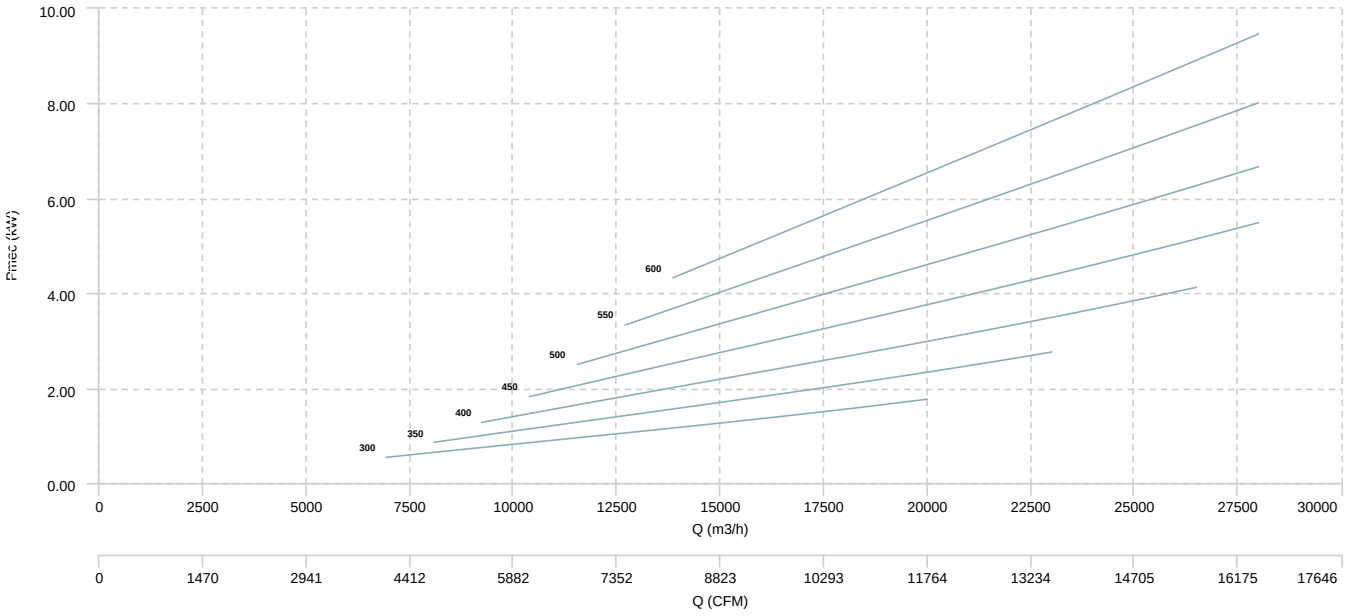


BSTR-M 30/14

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**
BST-M 9/4 (1200 RPM)	Inlet	76	72	65	60	59	56	53	48	78
BST-M 10/5 (1000 RPM)	Inlet	74	70	63	58	57	54	51	46	76
BST-M 12/6 (800 RPM)	Inlet	71	67	60	55	54	51	48	43	73
BST-M 15/7 (600 RPM)	Inlet	77	73	66	61	60	57	54	49	79
BST-M 18/9 (500 RPM)	Inlet	73	69	62	57	56	53	50	45	75
BSTR-M 20/10 (400 RPM)	Inlet	71	67	60	55	54	51	48	43	73
BSTR-M 22/11 (400 RPM)	Inlet	76	72	65	60	59	56	53	48	78
BSTR-M 25/13 (350 RPM)	Inlet	70	66	59	54	53	50	47	42	72
BSTR-M 30/14 (300 RPM)	Inlet	75	71	64	59	58	55	52	47	77

Notes:

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

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

erp data

ERP	
Fan type	Centrifugal fan radial or forward blades
Instalation cathegory	A
Efficency cathegory	Static
The fan has to be installed with FSC	No

		Maximum efficiency point data						
Model	Motor power (kW)	Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
BST-M 9/4	2	51,49	62,79	1.002,25	270,98	0,16	1200	1,00
BST-M 9/4	2	51,58	62,23	1.086,65	317,12	0,21	1300	1,00
BST-M 9/4	2	51,52	61,56	1.169,31	368,14	0,26	1400	1,00
BST-M 9/4	2	51,41	60,88	1.250,63	423,12	0,32	1500	1,00
BST-M 9/4	2	51,56	60,50	1.337,17	481,61	0,39	1600	1,00
BST-M 9/4	2	51,47	59,92	1.419,71	542,57	0,46	1700	1,00
BST-M 9/4	2	51,28	59,27	1.498,33	609,53	0,55	1800	1,00
BST-M 9/4	2	51,54	59,10	1.587,84	674,91	0,64	1900	1,00
BST-M 9/4	2	51,56	58,71	1.669,85	744,20	0,74	2000	1,00
BST-M 9/4	2	51,66	58,36	1.759,46	833,10	0,87	2100	1,00
BST-M 9/4	2	51,54	57,87	1.840,21	909,27	1	2200	1,00
BST-M 9/4	2	51,55	57,54	1.921,46	989,02	1,13	2300	1,00
BST-M 9/4	2	51,48	57,08	2.005,26	1.090,87	1,30	2400	1,00
BST-M 9/4	2	51,41	56,69	2.085,34	1.178,49	1,47	2500	1,00
BST-M 9/4	2	51,56	56,54	2.170,90	1.268,59	1,64	2600	1,00
BST-M 9/4	2	51,65	56,33	2.255,47	1.362,35	1,83	2700	1,00
BST-M 9/4	2	50,60	55,05	2.200	1.501,97	1,98	2800	1,00
BST-M 10/5	2,5	53,87	65,26	1.163,96	241,56	0,16	1000	1,00
BST-M 10/5	2,5	54,05	64,65	1.285	291,39	0,21	1100	1,00
BST-M 10/5	2,5	53,95	63,84	1.400,09	347,70	0,27	1200	1,00
BST-M 10/5	2,5	54,08	63,30	1.519,63	407,18	0,35	1300	1,00
BST-M 10/5	2,5	53,81	62,45	1.625,58	473,70	0,43	1400	1,00
BST-M 10/5	2,5	54,11	62,19	1.747,69	542,44	0,53	1500	1,00
BST-M 10/5	2,5	53,84	61,39	1.852,21	619,45	0,64	1600	1,00
BST-M 10/5	2,5	53,91	60,97	1.964,26	698,56	0,77	1700	1,00
BST-M 10/5	2,5	53,83	60,43	2.076,09	784,78	0,91	1800	1,00
BST-M 10/5	2,5	53,53	59,69	2.175,02	875,40	1,07	1900	1,00
BST-M 10/5	2,5	53,76	59,49	2.299,48	970,08	1,25	2000	1,00
BST-M 10/5	2,5	54,05	59,37	2.432,06	1.070,74	1,45	2100	1,00

		Maximum efficiency point data						
Model	Motor power (kW)	Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
BST-M 10/5	2,5	53,46	58,39	2.510,97	1.181,67	1,66	2200	1,00
BST-M 10/5	2,5	54,04	58,60	2.661,25	1.292,06	1,91	2300	1,00
BST-M 12/6	3	55,57	66,48	1.523,86	223,28	0,19	800	1,00
BST-M 12/6	3	55,61	65,57	1.714,70	281,51	0,27	900	1,00
BST-M 12/6	3	55,39	64,47	1.898,99	348,30	0,37	1000	1,00
BST-M 12/6	3	55,56	63,86	2.096,61	421,78	0,49	1100	1,00
BST-M 12/6	3	55,36	62,96	2.279,23	501,59	0,63	1200	1,00
BST-M 12/6	3	55,57	62,51	2.474,62	588,84	0,80	1300	1,00
BST-M 12/6	3	55,56	61,90	2.662,30	681,33	1	1400	1,00
BST-M 12/6	3	55,54	61,31	2.852,59	783,48	1,23	1500	1,00
BST-M 12/6	3	55,32	60,55	3.034,27	893,33	1,49	1600	1,00
BST-M 12/6	3	55,50	60,24	3.231,26	1.006,57	1,79	1700	1,00
BST-M 12/6	3	55,41	59,67	3.419,32	1.129,59	2,13	1800	1,00
BST-M 15/7	-	63,01	74,91	1.548,27	184,81	0,13	600	1,00
BST-M 15/7	-	63,41	74,02	1.820,95	252,49	0,21	700	1,00
BST-M 15/7	-	63,42	72,94	2.084,04	329,31	0,31	800	1,00
BST-M 15/7	-	63,33	71,88	2.338,07	417,03	0,45	900	1,00
BST-M 15/7	-	63,25	70,95	2.589	512,26	0,61	1000	1,00
BST-M 15/7	-	63,15	70,07	2.846,66	620,99	0,81	1100	1,00
BST-M 15/7	-	63,24	69,42	3.105,67	739,14	1,05	1200	1,00
BST-M 15/7	-	63,27	68,79	3.367,28	868,06	1,35	1300	1,00
BST-M 15/7	-	63,01	67,90	3.610,52	1.006,84	1,69	1400	1,00
BST-M 15/7	-	63,32	67,65	3.889,34	1.157,84	2,08	1500	1,00
BST-M 18/9	5	63,04	74,03	2.104,29	187,09	0,18	500	1,00
BST-M 18/9	5	63,22	72,72	2.536,01	269,70	0,32	600	1,00
BST-M 18/9	5	63,03	71,26	2.953,81	366,99	0,50	700	1,00
BST-M 18/9	5	63,19	70,35	3.375,33	475,73	0,74	800	1,00
BST-M 18/9	5	63,04	69,21	3.788,55	602,97	1,06	900	1,00
BST-M 18/9	5	63,26	68,54	4.222,58	744,42	1,46	1000	1,00
BST-M 18/9	5	63,20	67,69	4.646,46	902,12	1,96	1100	1,00
BST-M 18/9	5	63,20	66,98	5.059,77	1.073,22	2,54	1200	1,00
BSTR-M 20/10	7	36,65	43,10	4.784,12	265,37	0,96	550	1,00
BSTR-M 20/10	7	40,25	46,21	5.251,21	316,03	1,14	600	1,00
BSTR-M 20/10	7	49,05	53,19	7.009,08	559,30	2,22	800	1,00
BSTR-M 20/10	7	50,80	54,52	7.445,65	635,27	2,59	850	1,00
BSTR-M 20/10	7	51,68	54,97	7.881,55	715,34	3,03	900	1,00
BSTR-M 22/11	7	31,41	38,51	4.807,93	178,25	0,76	400	1,00
BSTR-M 22/11	7	44,70	50,15	6.626,79	337,16	1,38	550	1,00

		Maximum efficiency point data						
Model	Motor power (kW)	Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
BSTR-M 22/11	7	47,30	52,19	7.204,74	401,29	1,69	600	1,00
BSTR-M 22/11	7	54,43	57,30	9.726,17	712,55	3,54	800	1,00
BSTR-M 22/11	7	54,76	57,17	10.267,10	802,20	4,18	850	1,00
BSTR-M 22/11	7	55,53	57,51	10.895,69	898,48	4,90	900	1,00
BSTR-M 30/14	11	35,05	41,12	8.230,01	168,23	1,10	300	1,00
BSTR-M 30/14	11	41,05	46,29	9.601,83	229,21	1,49	350	1,00
BSTR-M 30/14	11	45,35	49,75	10.990,03	299,46	2,02	400	1,00
BSTR-M 30/14	11	51,71	53,91	14.888,86	565,66	4,52	550	1,00
BSTR-M 30/14	11	52,69	54,17	16.504,32	674,74	5,87	600	1,00