

TWIN BOX BV



BELT DRIVEN CENTRIFUGAL IN SOUNDPROOF CABINET

MANUFACTURING FEATURES

- Impellers made of polyamide reinforced with fibreglass up to size 12/12 (33/33). Other models are made of galvanised steel sheet.
- BV , BVC , BVCR range fans assembled in soundproof cabinets with thermo-acoustic insulation, Bs1d0 fire class on the supply panel.
- Fan assembled on antivibration mountings.
- Supplied with motor, pulleys and belts.
- Connection gland included.
- Squirrel cage asynchronous standard motor, IP-55 protection and rated class F insulation. Standard voltages 230/400V 50Hz for three phase, motors up to 4kW and 400/690V 50Hz for higher powers.
- Fans can run separately or simultaneously.

APPLICATIONS

Designed for inline installation, indoor or outdoor assembly, they are suitable for:

- Air renewal in buildings and industries.
- Industrial and professional kitchen hood.
- Maximum working temperature: 60°C.

UNDER REQUEST

- 2 speed motors and special voltages.
- LG0 position. Add 10% additional cost.
- Impeller made of galvanized sheet.
- Aluminium box up to size 12/12.

* All data are referred to a single working fan. If both fans are working at the same time, data should be twice (x2) except for weight.

Accessories



AVR



AVS



BAC



INT



PI



**REG
TWIN**



SFC



TIAC



VIS

Technical data

Three-phase motor

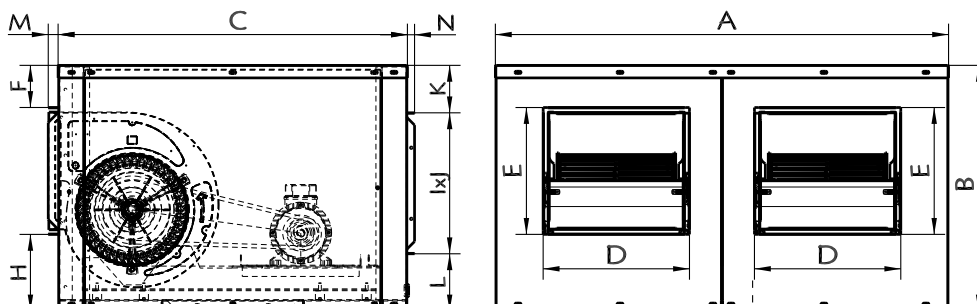
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	TWIN BOX BV 7/7	1650 - 2000	0,37	0,75	3.170	50	64	1
	TWIN BOX BV 9/9	1200 - 1700	0,37	1,10	4.690	53	92	1
	TWIN BOX BV 10/10	1000 - 1650	0,37	1,50	6.150	56	96	1
	TWIN BOX BV 12/12	700 - 1400	0,37	2,20	9.080	60	124	1
	TWIN BOX BV 15/15	600 - 1100	0,55	4,00	11.790	56	152	1
	TWIN BOX BV 18/18	450 - 950	1,10	5,50	18.100	53	220	1

Notes:

* The motor is not included in fan weight

** 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



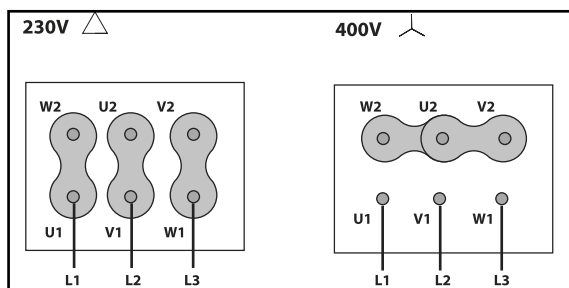
Model	A	B	C	D	E	F	H	I	J
TWIN BOX BV 7/7	850	450	700	244	218	81	152	636	280
TWIN BOX BV 9/9	1000	535	770	313	270	96	170	658	311
TWIN BOX BV 10/10	1085	580	800	344	301	84	196	790	361
TWIN BOX BV 12/12	1220	651	872	409	351	84	216	940	423
TWIN BOX BV 15/15	1432,5	777	992	484	413	118	244	1106	502
TWIN BOX BV 18/18	1625,5	886	1174	568	492	103	290,5	1200	625

Model	K	L	M	N
TWIN BOX BV 7/7	76	94	23	17
TWIN BOX BV 9/9	103	121	23	17
TWIN BOX BV 10/10	100	119	23	17
TWIN BOX BV 12/12	104	123	23	17
TWIN BOX BV 15/15	127	147	23	17
TWIN BOX BV 18/18	120,5	140	23	17

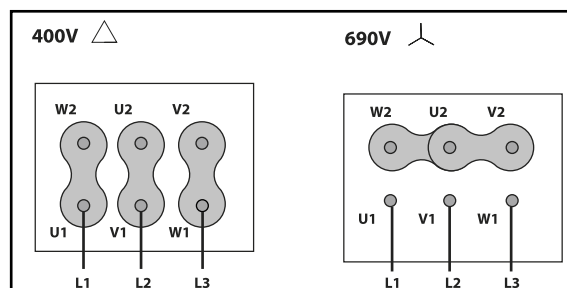
Wiring diagram

Wiring diagram N° 1

230/400V



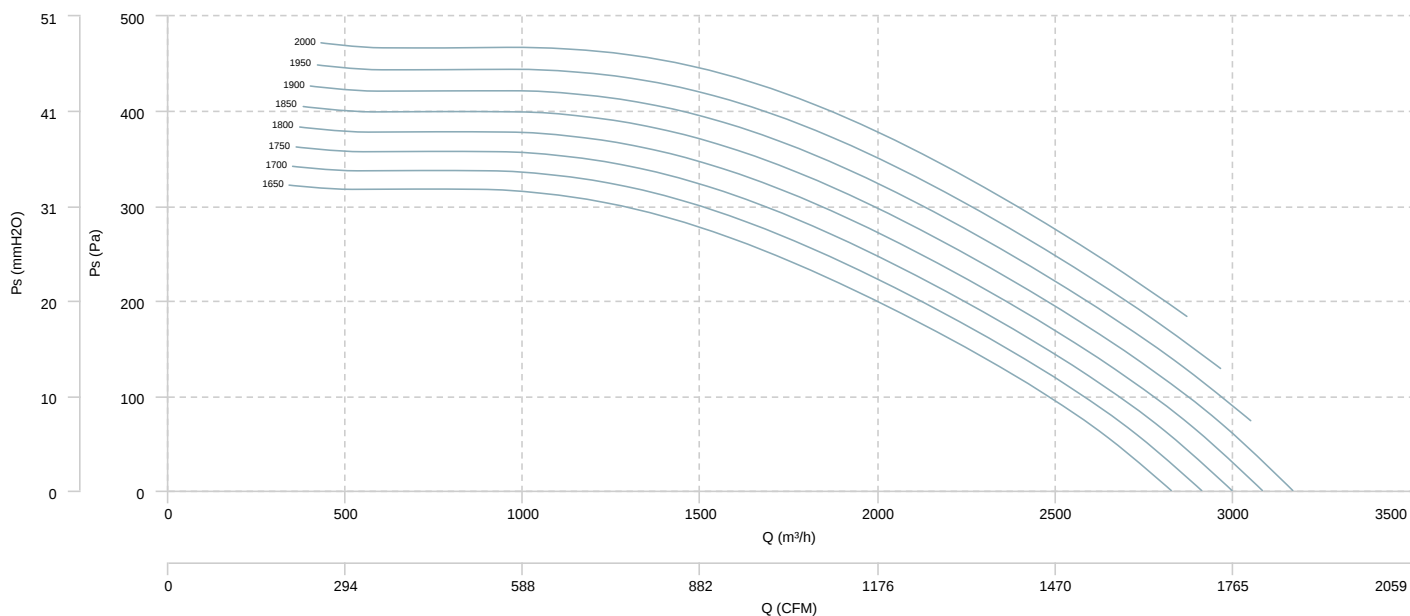
400/690V



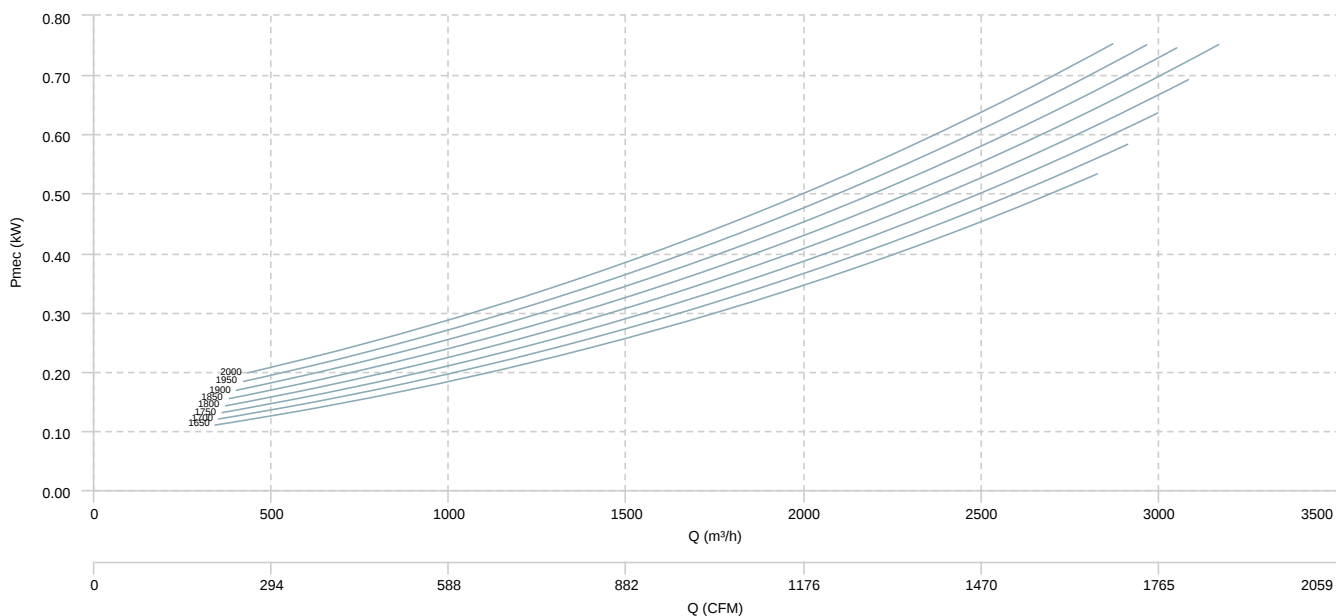
CHARACTERISCTIC CURVE

TWIN BOX BV 7/7

AIR FLOW - PRESSURE

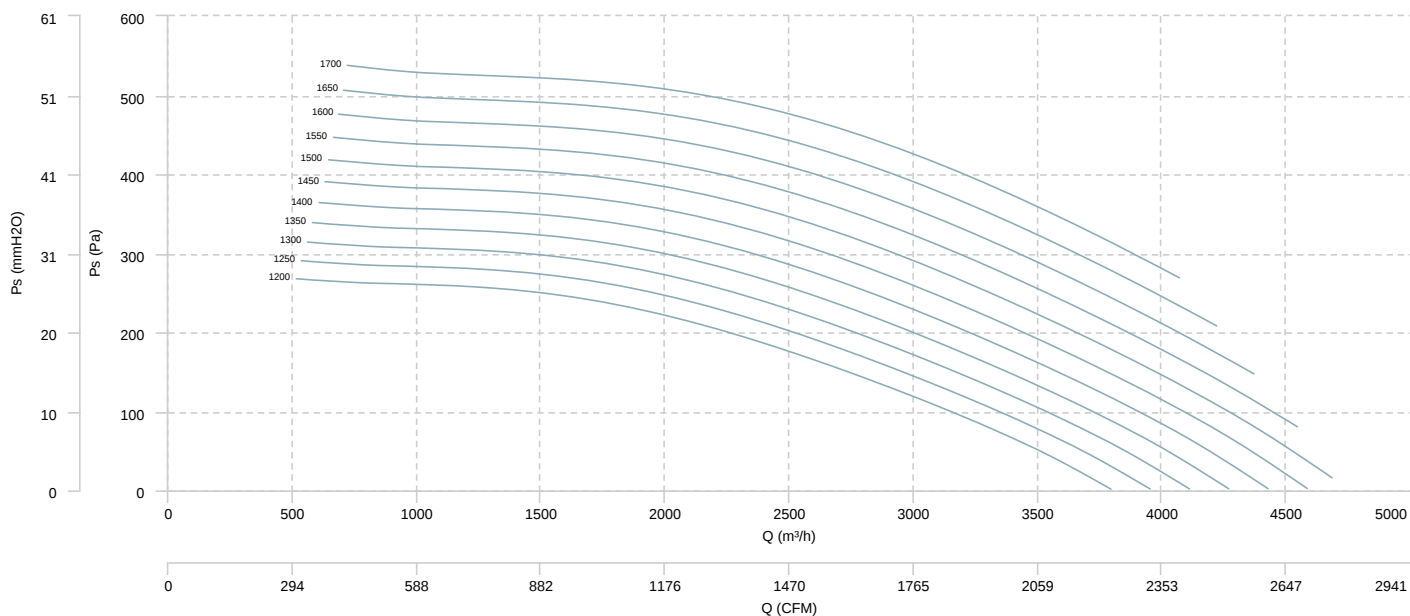


AIR FLOW - MECHANICAL POWER

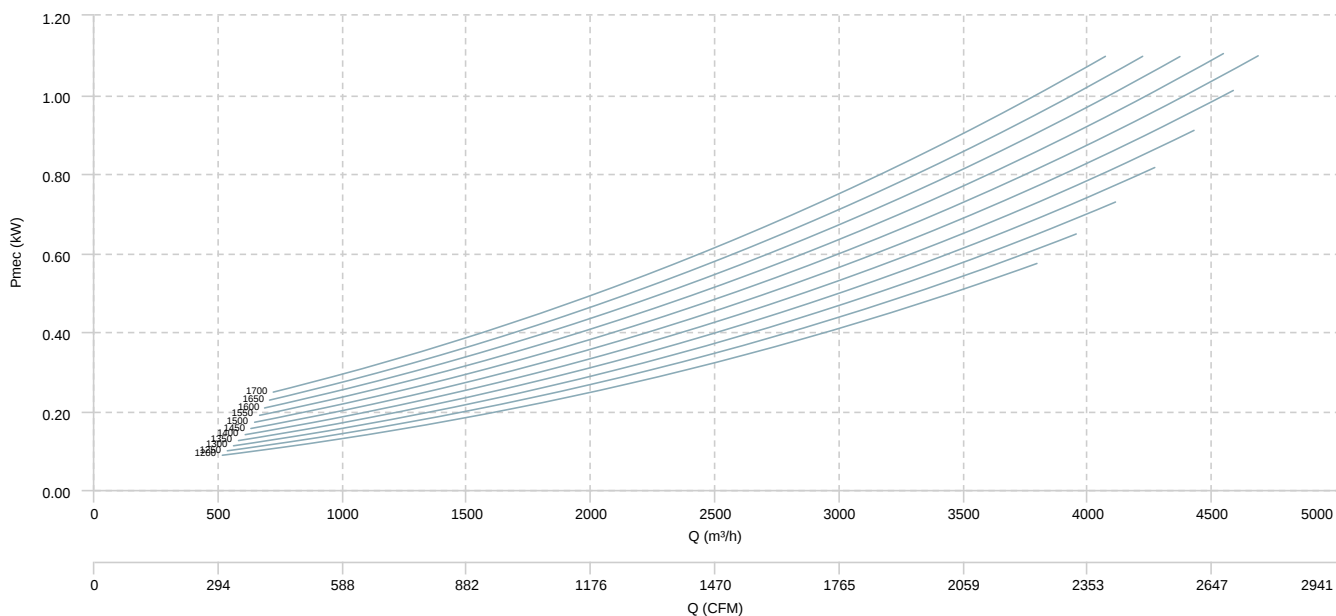


TWIN BOX BV 9/9

AIR FLOW - PRESSURE

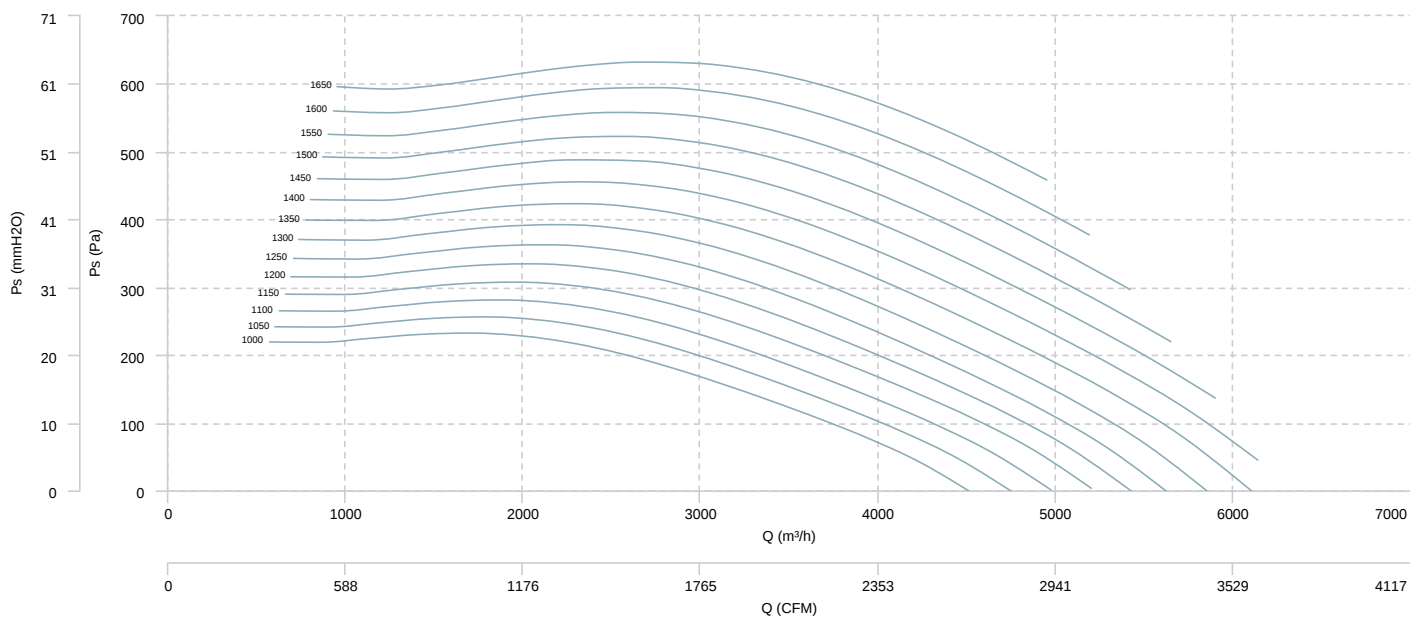


AIR FLOW - MECHANICAL POWER

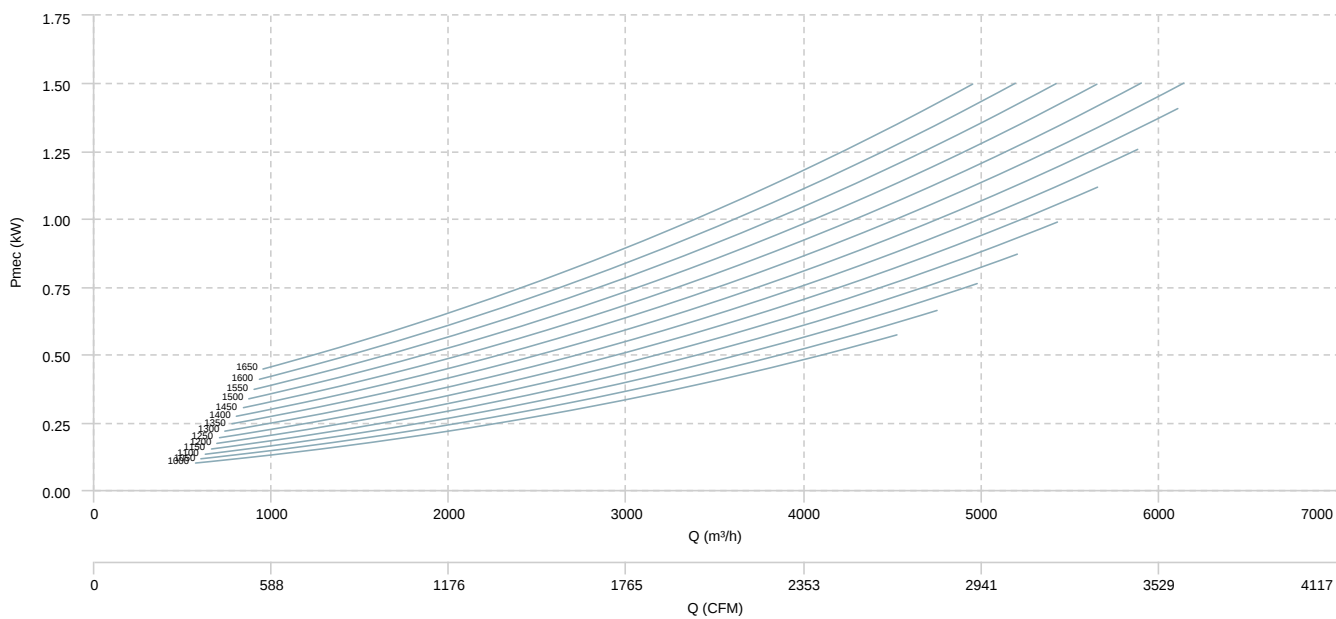


TWIN BOX BV 10/10

AIR FLOW - PRESSURE

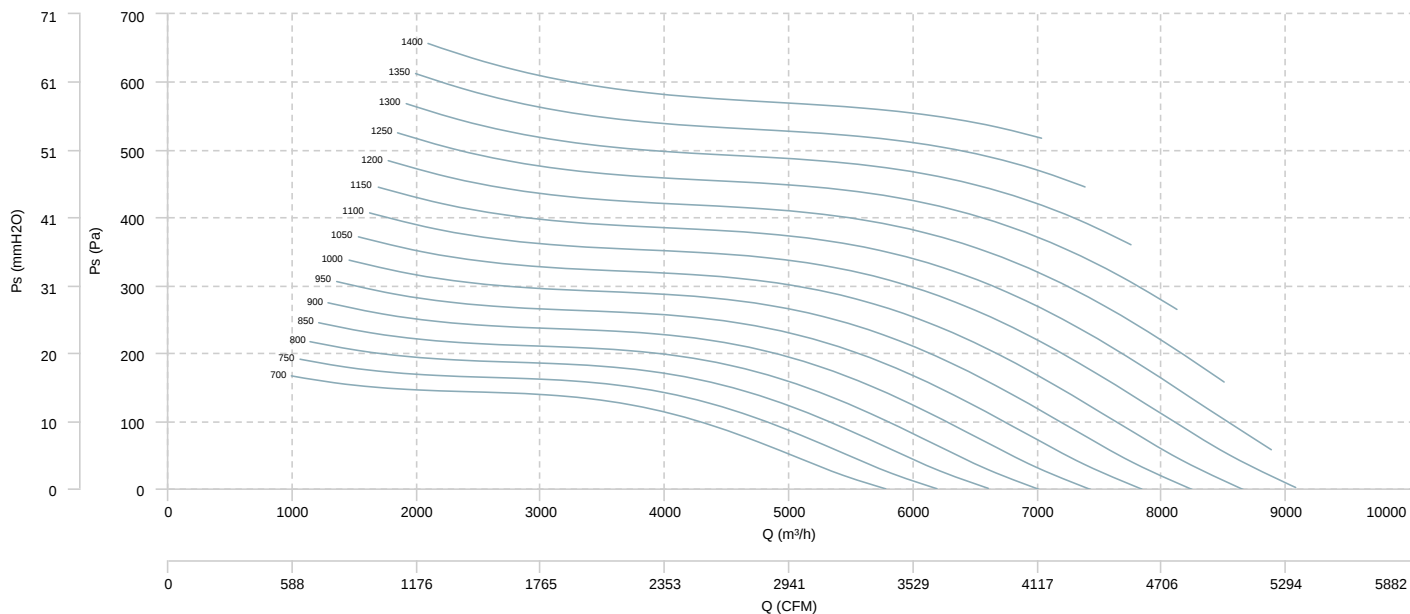


AIR FLOW - MECHANICAL POWER

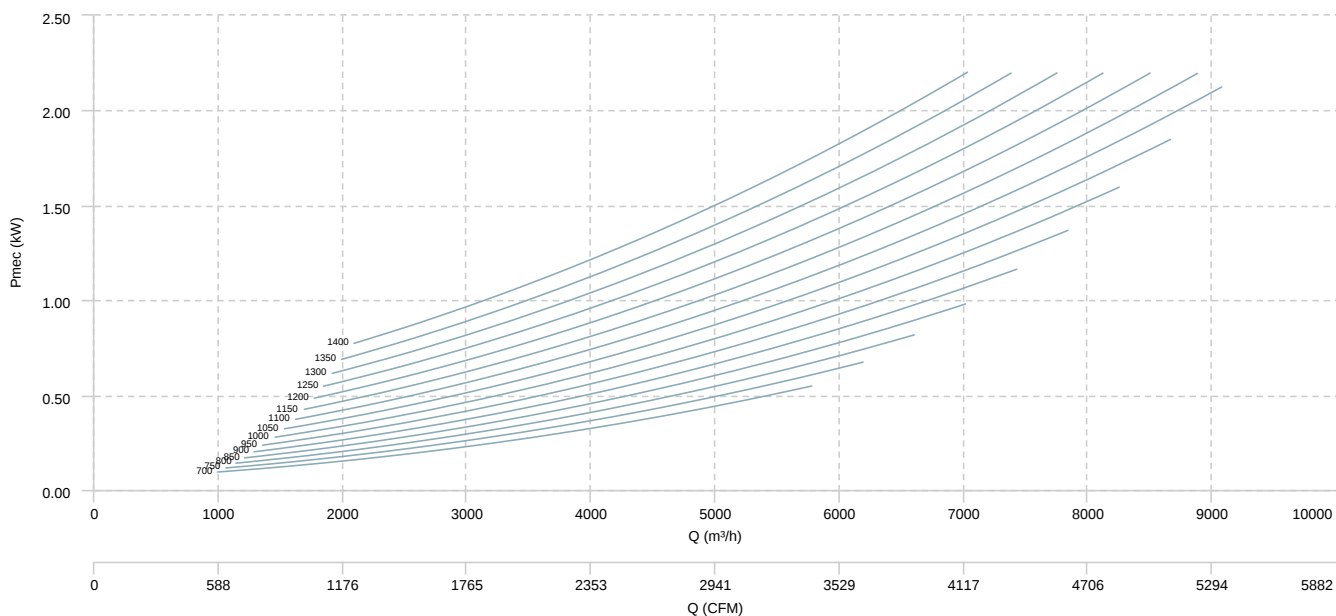


TWIN BOX BV 12/12

AIR FLOW - PRESSURE

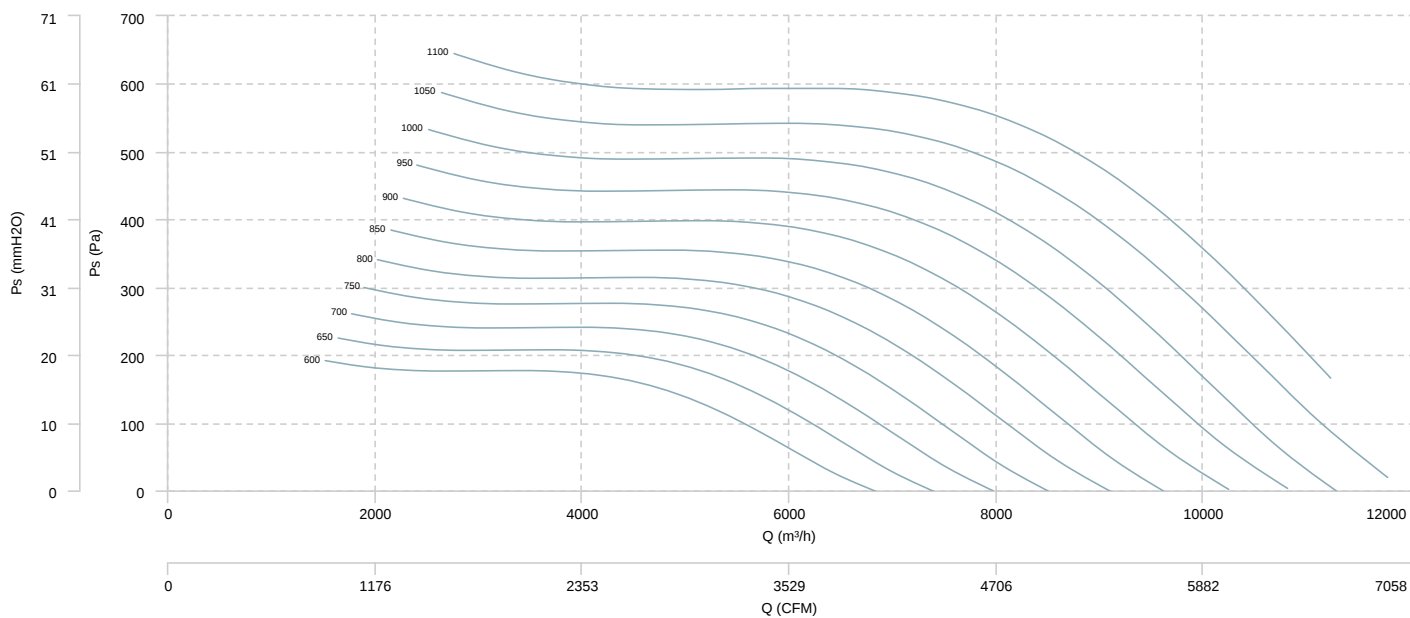


AIR FLOW - MECHANICAL POWER

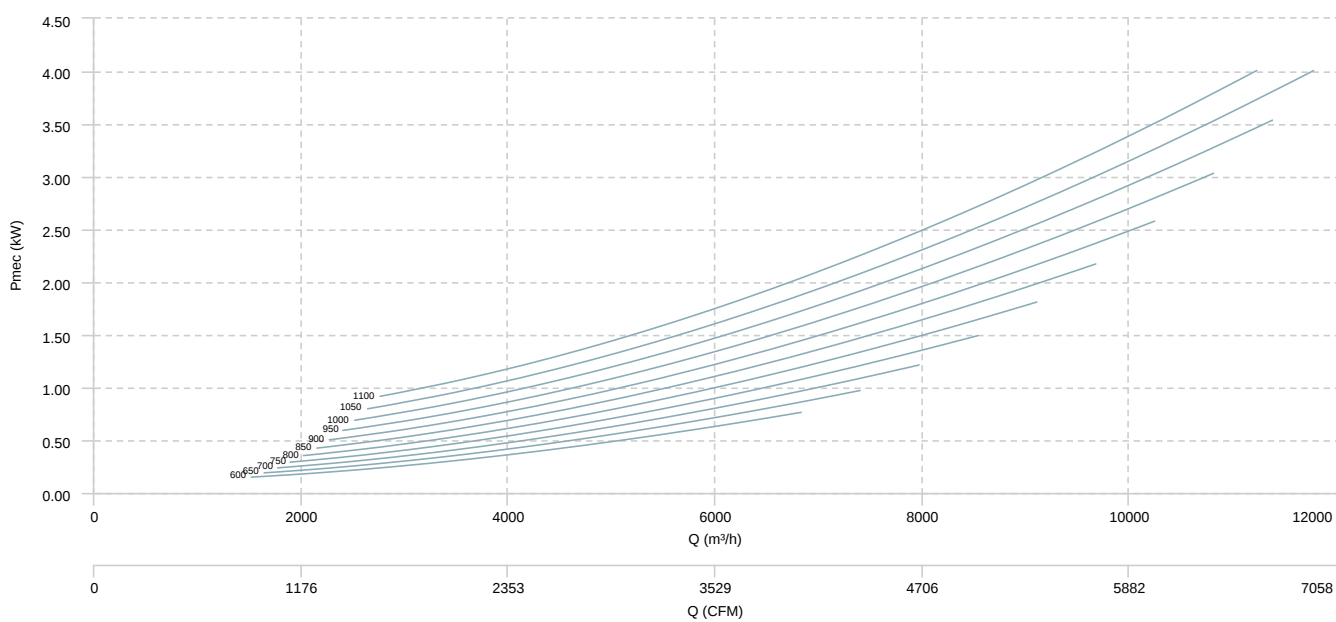


TWIN BOX BV 15/15

AIR FLOW - PRESSURE

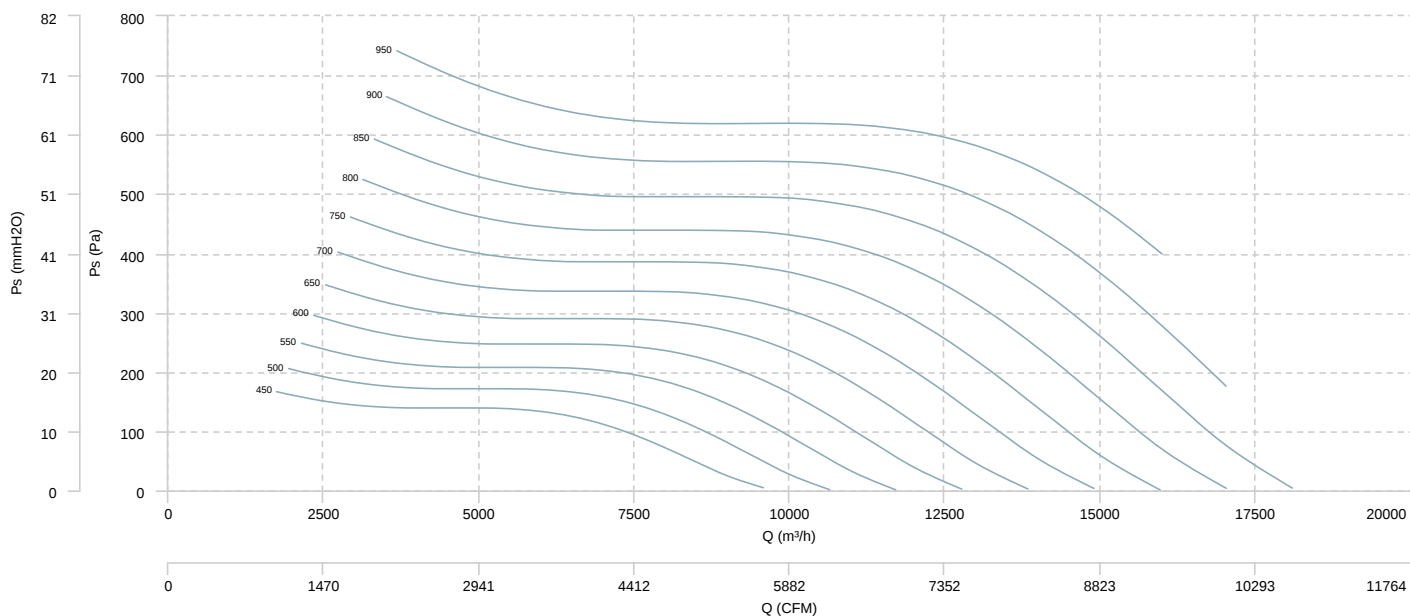


AIR FLOW - MECHANICAL POWER

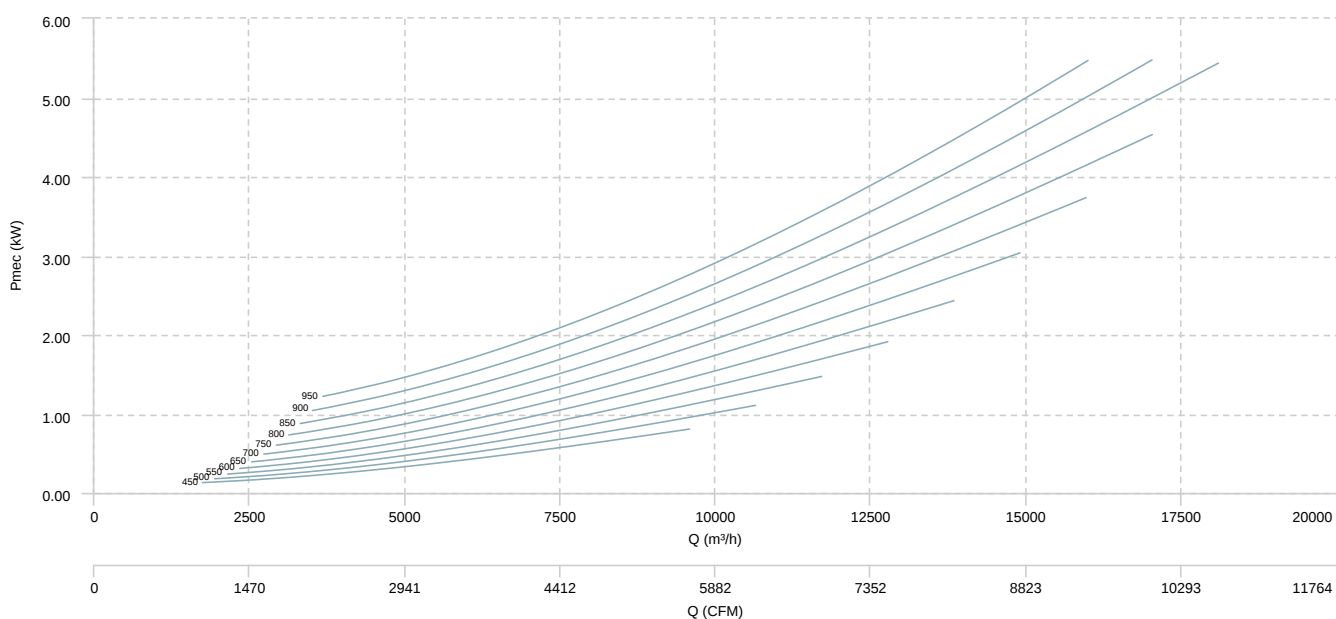


TWIN BOX BV 18/18

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

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
TWIN BOX BV 7/7 (1650)	Inlet	55	57	61	60	68	67	58	53	72
TWIN BOX BV 9/9 (1200)	Inlet	55	57	61	60	68	67	58	53	72
TWIN BOX BV 10/10 (1000)	Inlet	55	57	61	60	68	67	58	52	71
TWIN BOX BV 12/12 (700)	Inlet	55	57	60	61	66	66	56	50	71
TWIN BOX BV 15/15 (600)	Inlet	61	61	64	64	69	69	59	52	74
TWIN BOX BV 18/18 (450)	Inlet	54	53	56	56	60	59	50	43	65

Notes:

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

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