

KUVIO-Q EEC



SOUND-PROOF ENERGY SAVING MIXED FLOW EXTRACTOR FANS

The products in the KUVIO-Q EEC range differ from the corresponding versions of the KUVIO-Q range due to the use of electronically controlled EC brushless (low consumption) motors. Each speed can be set at installation. Alternatively the units can run at 1 speed only adjustable by user through 0-10V signal.

- Enclosures made of fire resistant plastic resin, E2 class, according with ISO EN 11925-2: 2010, in areas close to motor and electrical components.
- Casing integrating a sound-absorbing coating, optimized to minimize sound emissions radiated into the environment and transmitted through exhaust and supply ducts.
- Nominal diameter from Ø100 to Ø315 mm.
- EC (brushless) motor, thermally protected, with shaft mounted on ball bearing supports, coupled with a centrifugal impeller.
- High water resistance: IPX5 (if installed in a duct).
- Equipped with a thermal fuse overheating safety device.
- Speed adjustable through potentiometer (0-10V signal) or two-speed switch (to be set at the installation in a preset range).

Accessories



APPLICATIONS

For use in spaces where silence is essential. For small and medium-sized ventilation installations for air renewal in:

- Bathrooms and changing rooms.
- Commercial offices.
- Extraction in domestic kitchens (after the extraction hood).
- Schools.
- Waiting rooms.
- Commercial premises.
- Laundries.
- Shops.
- Bars.
- Restaurants.
- Laboratories.
- Etc...

-THIS PRODUCT IS ONLY AVAILABLE IN SPANISH MARKET.-
SORRY FOR THE INCONVENIENCES

Technical data

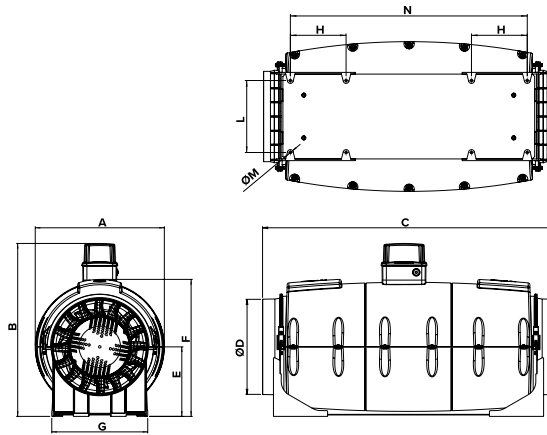
Single-phase motor

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
KUVQ100EEC	KUVIO-Q 100 EEC	2510	0,26	0,02	300	29	4,70	1
KUVQ125EEC	KUVIO-Q 125 EEC	2210	0,27	0,02	380	29	4,50	1
KUVQ150EEC	KUVIO-Q 150 EEC	2030	0,34	0,03	520	32	6,60	1
KUVQ160EEC	KUVIO-Q 160 EEC	2035	0,34	0,03	530	33	6,30	1
KUVQ200EEC	KUVIO-Q 200 EEC	2700	0,78	0,09	1.150	39	10,50	1
KUVQ250EEC	KUVIO-Q 250 EEC	2680	0,97	0,13	1.480	44	17	1
KUVQ315EEC	KUVIO-Q 315 EEC	2350	1,52	0,22	2.640	48	33	2

Notes:

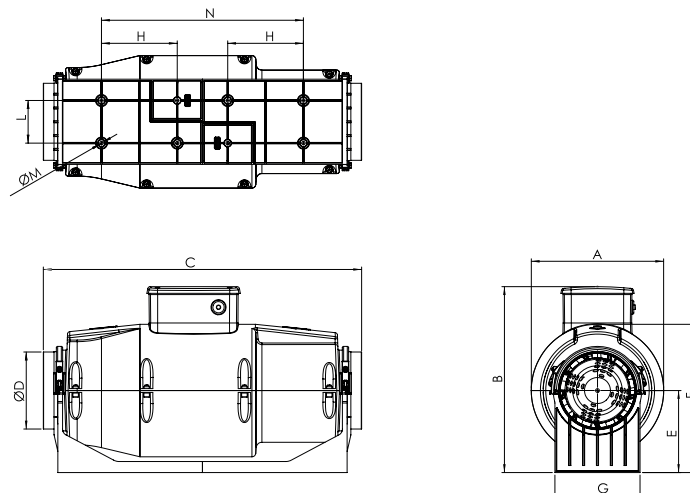
** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



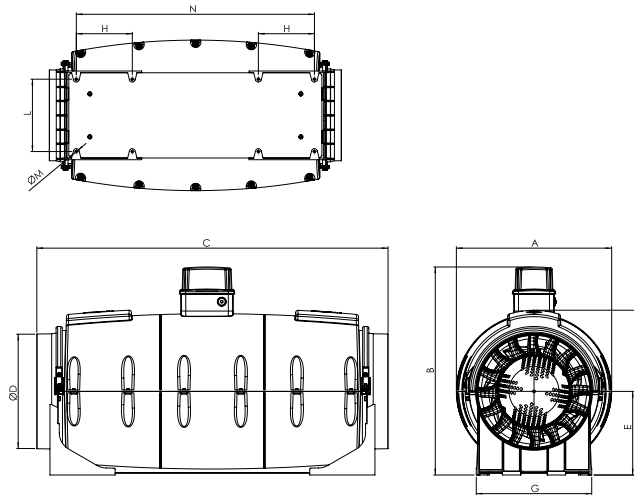
Model	A	B	C	E	F	G	H	L	N
KUVIO-Q 100 EEC	210	294.5	639	130	235	135	120	67.5	320
KUVIO-Q 125 EEC	210	294.5	504.5	130	235	135	120	67.5	320
KUVIO-Q 150 EEC	232	320.5	685	145	261.5	170	132	85	360
KUVIO-Q 160 EEC	232	320.5	570	145	261.5	170	135	85	360

Model	ØD	ØM
KUVIO-Q 100 EEC	97	5.5
KUVIO-Q 125 EEC	122	5.5
KUVIO-Q 150 EEC	147	5.5
KUVIO-Q 160 EEC	156.5	5.5



Model	A	B	C	E	F	G	H	L	N
KUVIO-Q 200 EEC	322.5	417.5	625.5	195	363.5	190	120	155	510
KUVIO-Q 250 EEC	318	411.9	751.5	189.5	363.5	200	70	170	604.5

Model	ØD	ØM
KUVIO-Q 200 EEC	194.5	5.5
KUVIO-Q 250 EEC	243	6.5



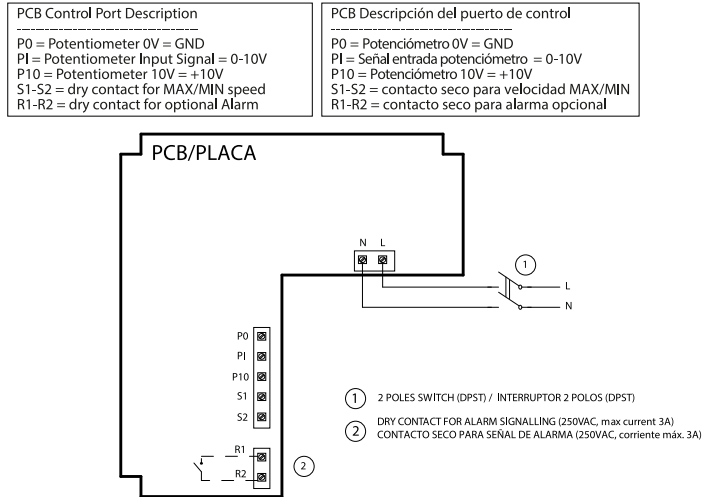
Model	A	B	C	E	F	G	H	L	N
KUVIO-Q 315 EEC	415.5	557.8	940	234	441	309	110	255	780

Model	ØD	ØM
KUVIO-Q 315 EEC	307	8.5

Wiring diagram

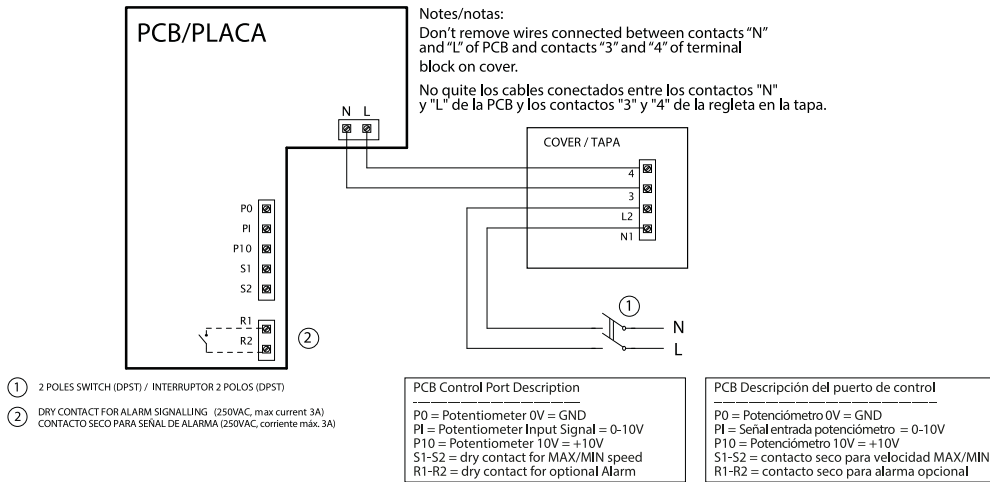
Wiring diagram Nº 1

KUVIO-Q (100-125-150-160) EEC



Wiring diagram Nº 2

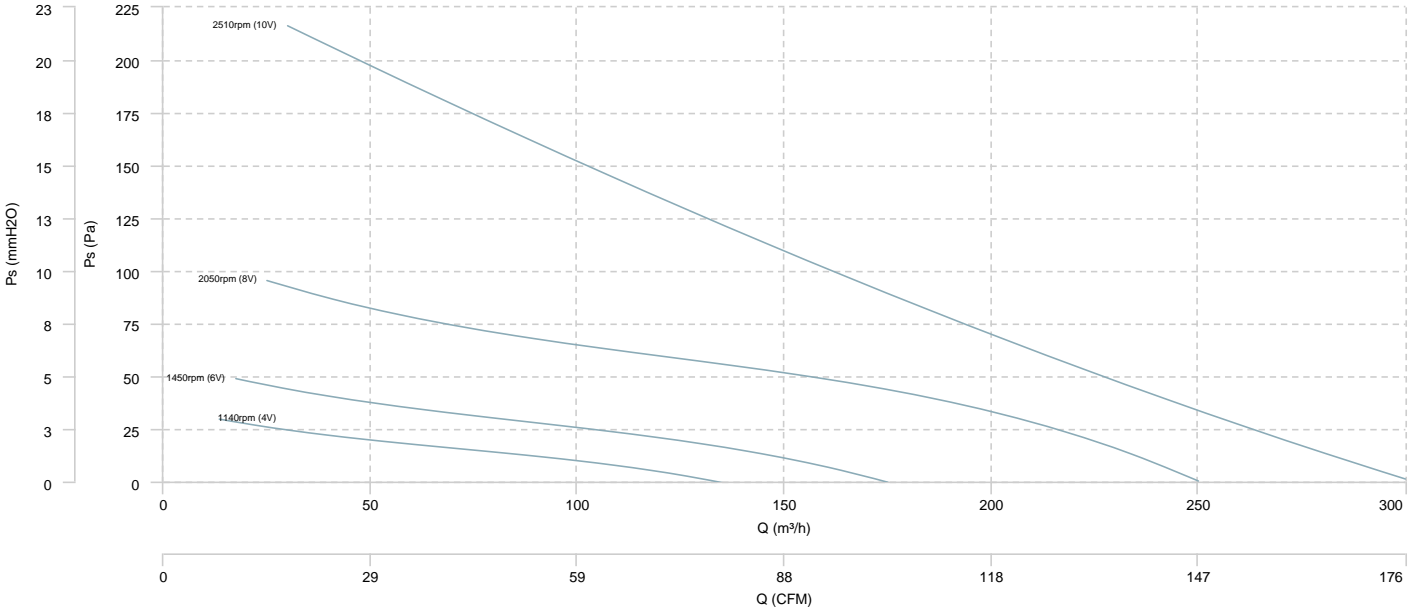
KUVIO-Q 315 EEC



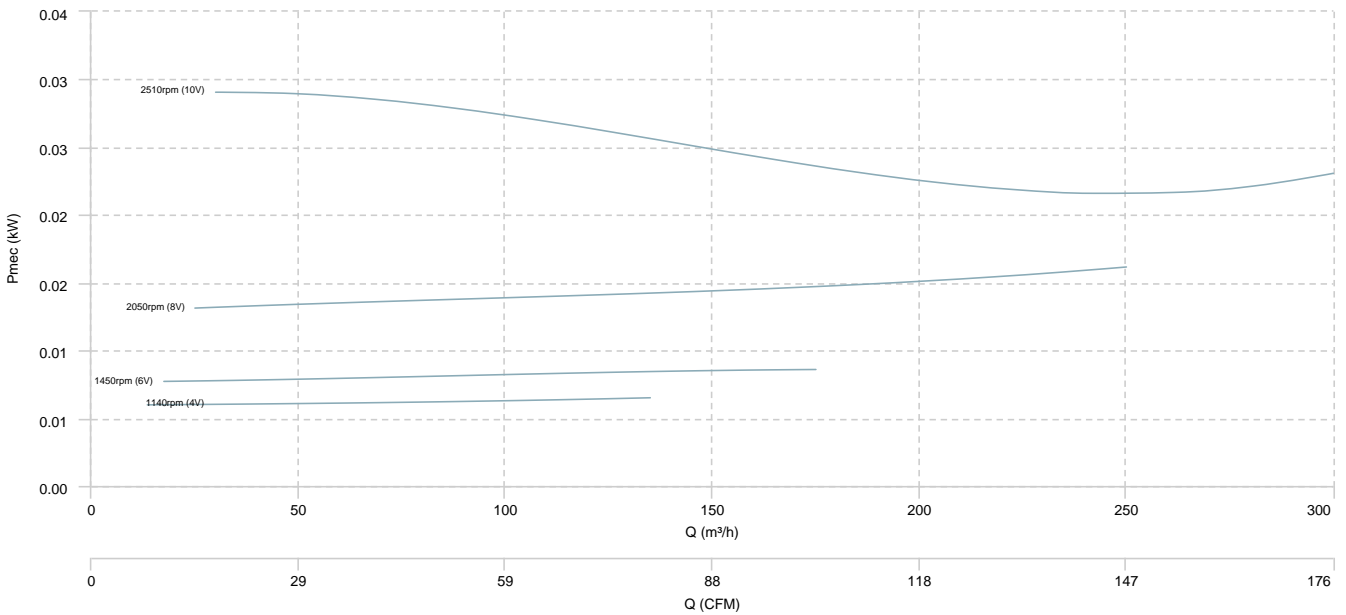
CHARACTERISTIC CURVE

KUVIO-Q 100 EEC

AIR FLOW - PRESSURE

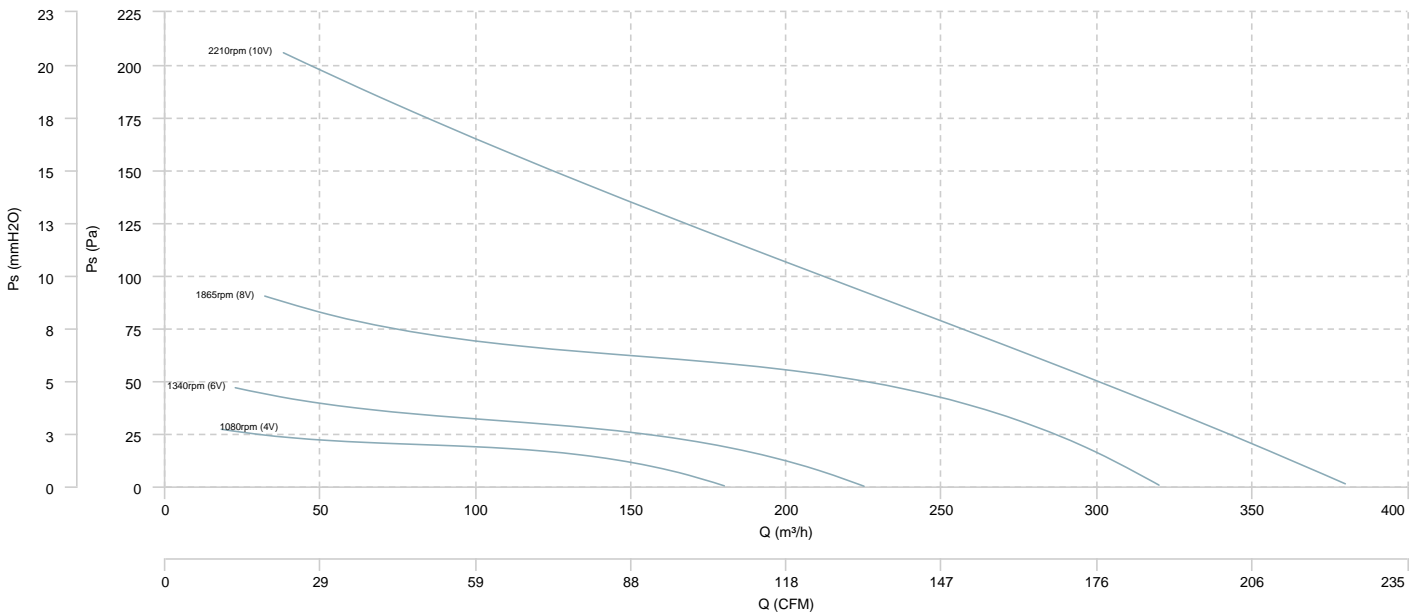


AIR FLOW - MECHANICAL POWER

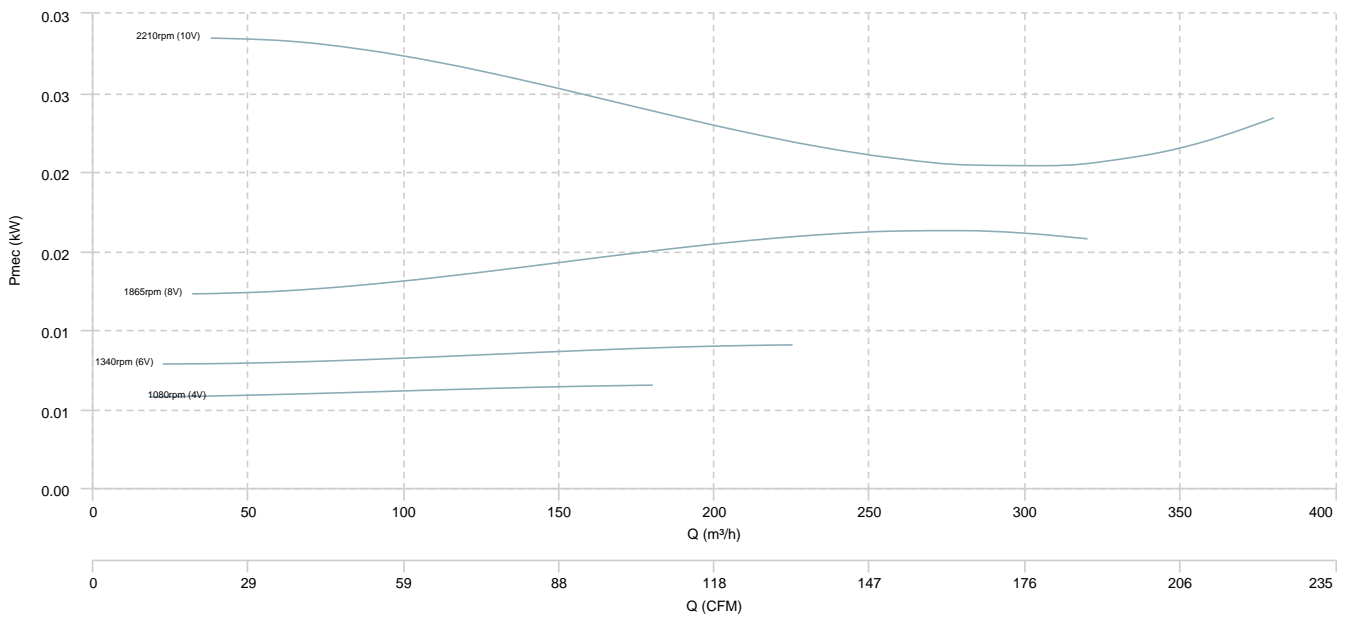


KUVIO-Q 125 EEC

AIR FLOW - PRESSURE

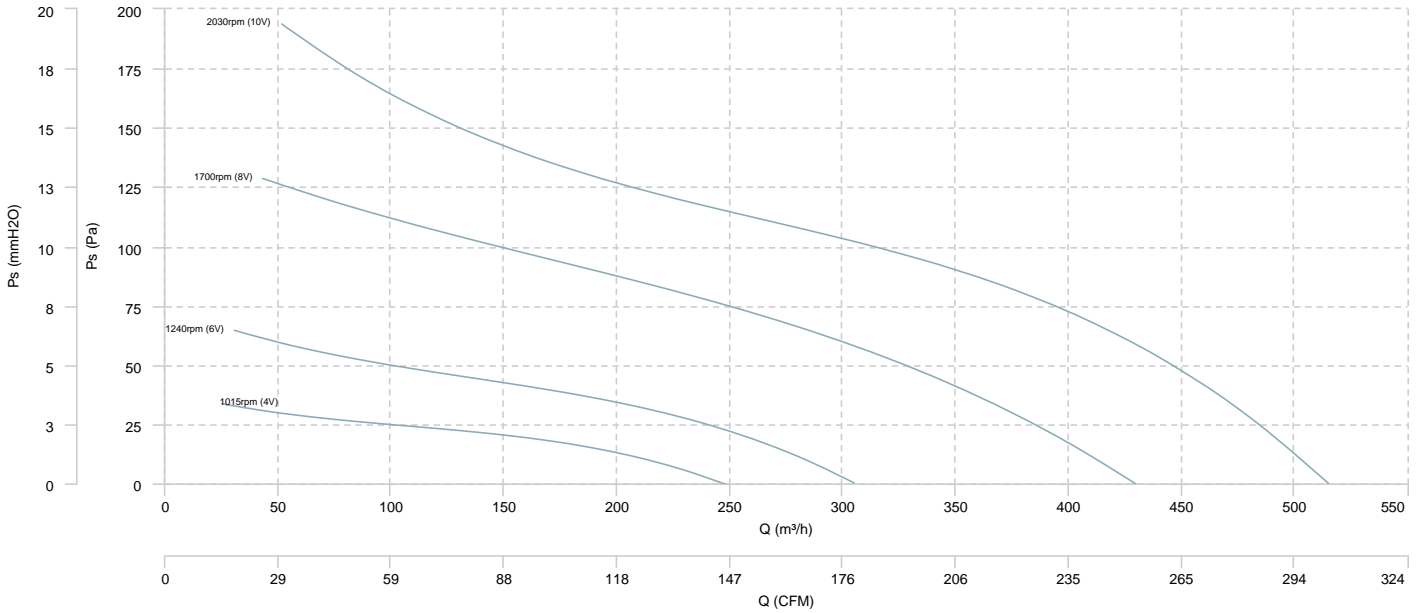


AIR FLOW - MECHANICAL POWER

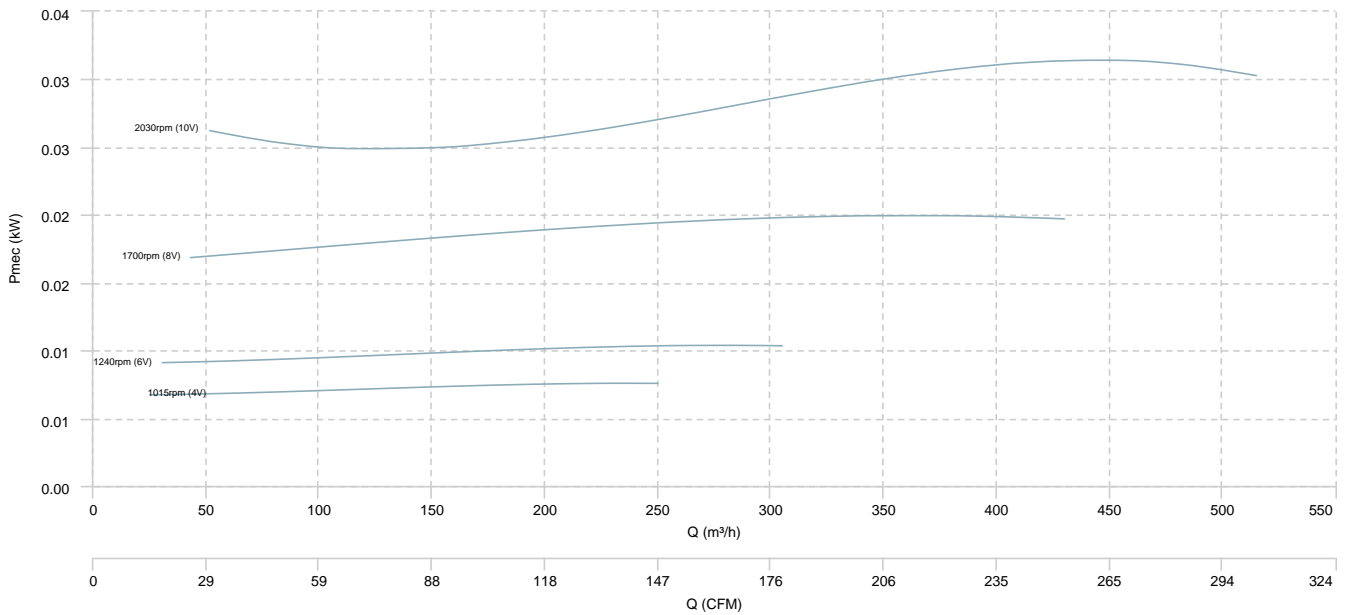


KUVIO-Q 150 EEC

AIR FLOW - PRESSURE

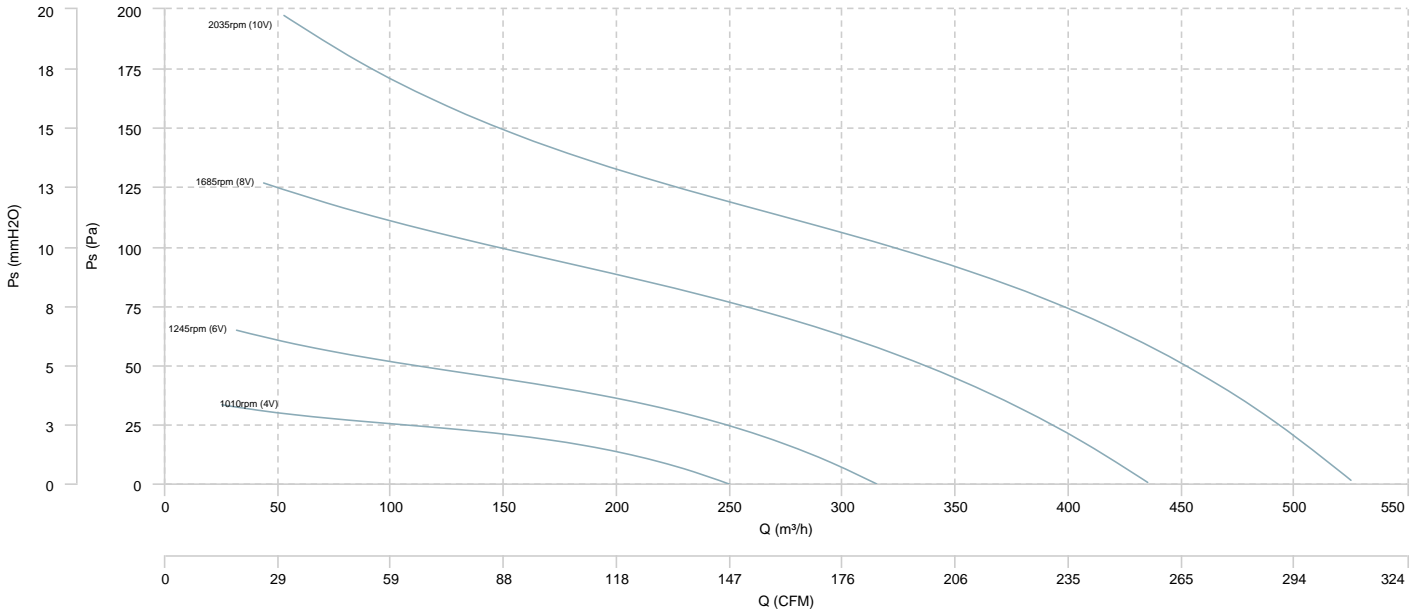


AIR FLOW - MECHANICAL POWER

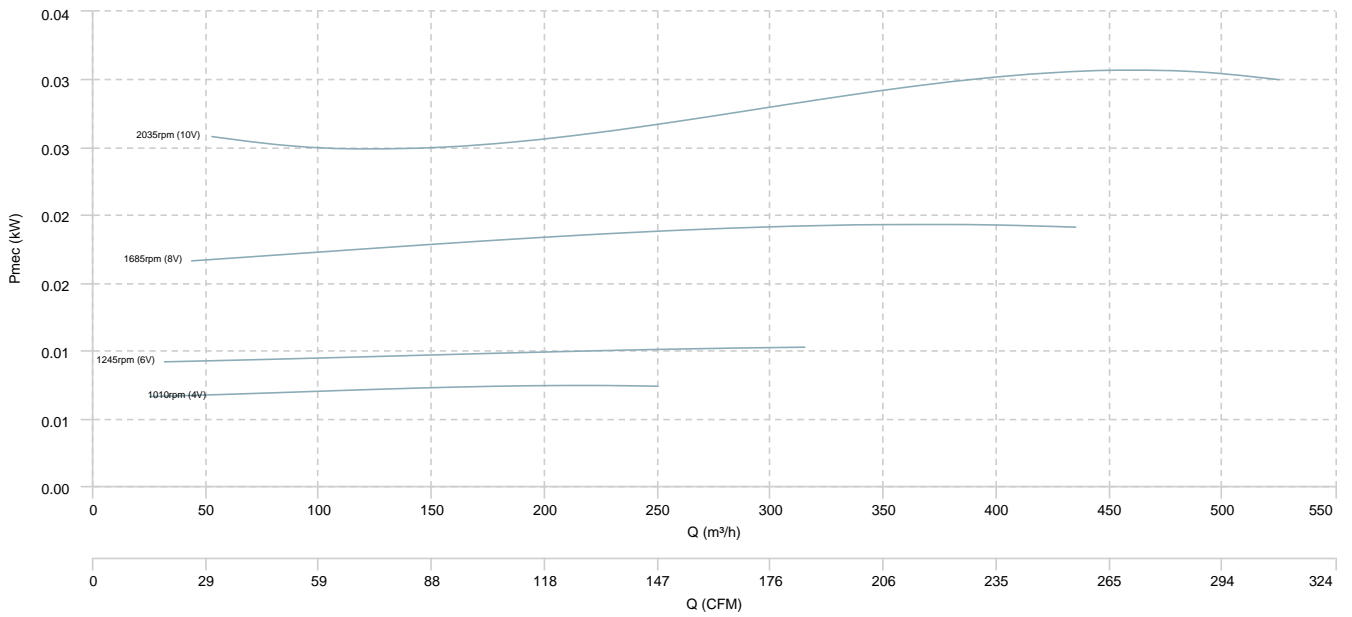


KUVIO-Q 160 EEC

AIR FLOW - PRESSURE

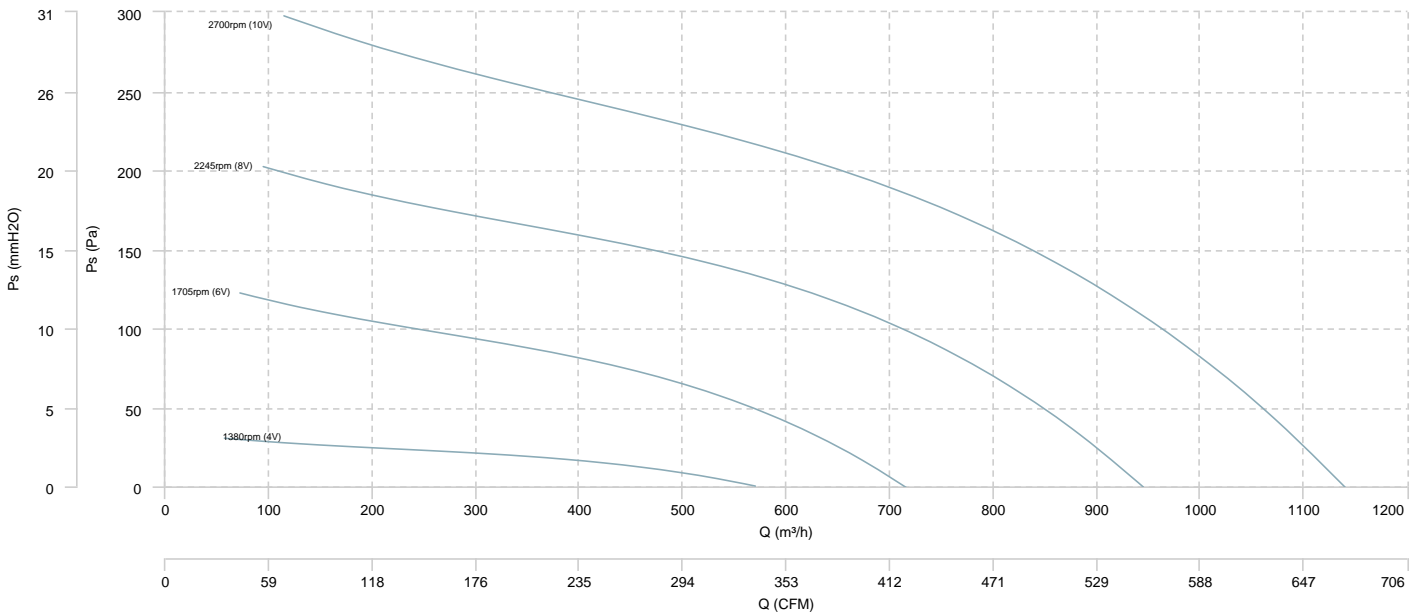


AIR FLOW - MECHANICAL POWER

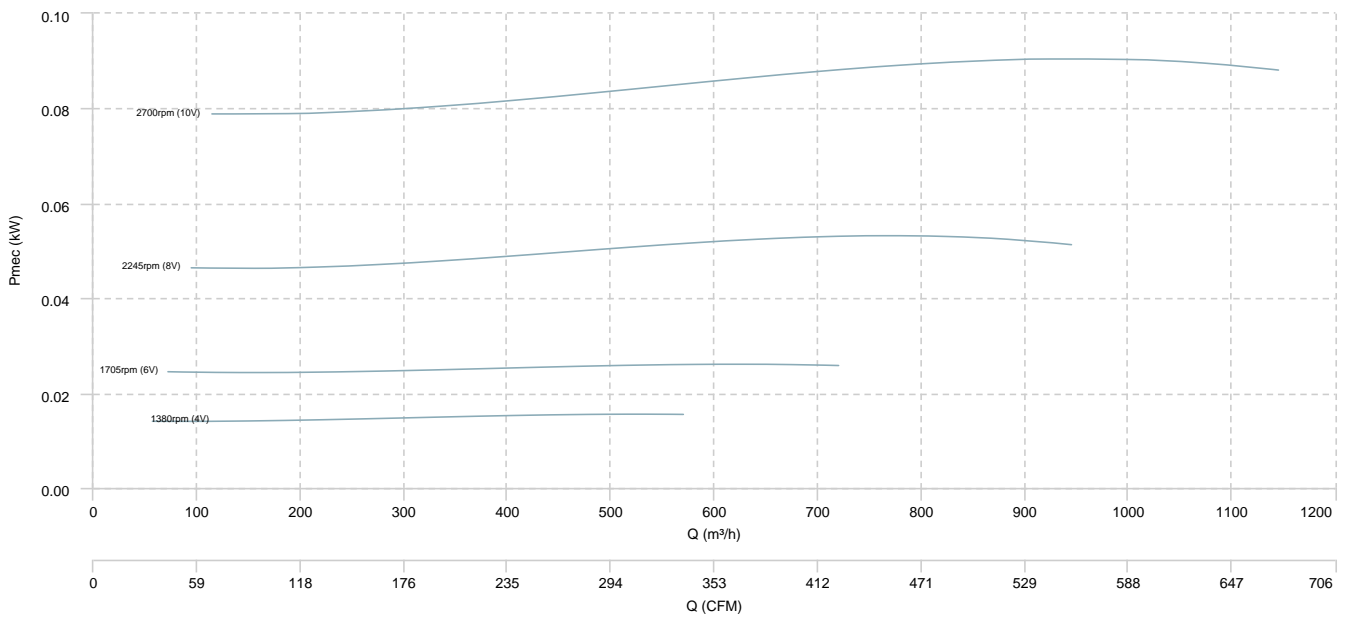


KUVIO-Q 200 EEC

AIR FLOW - PRESSURE

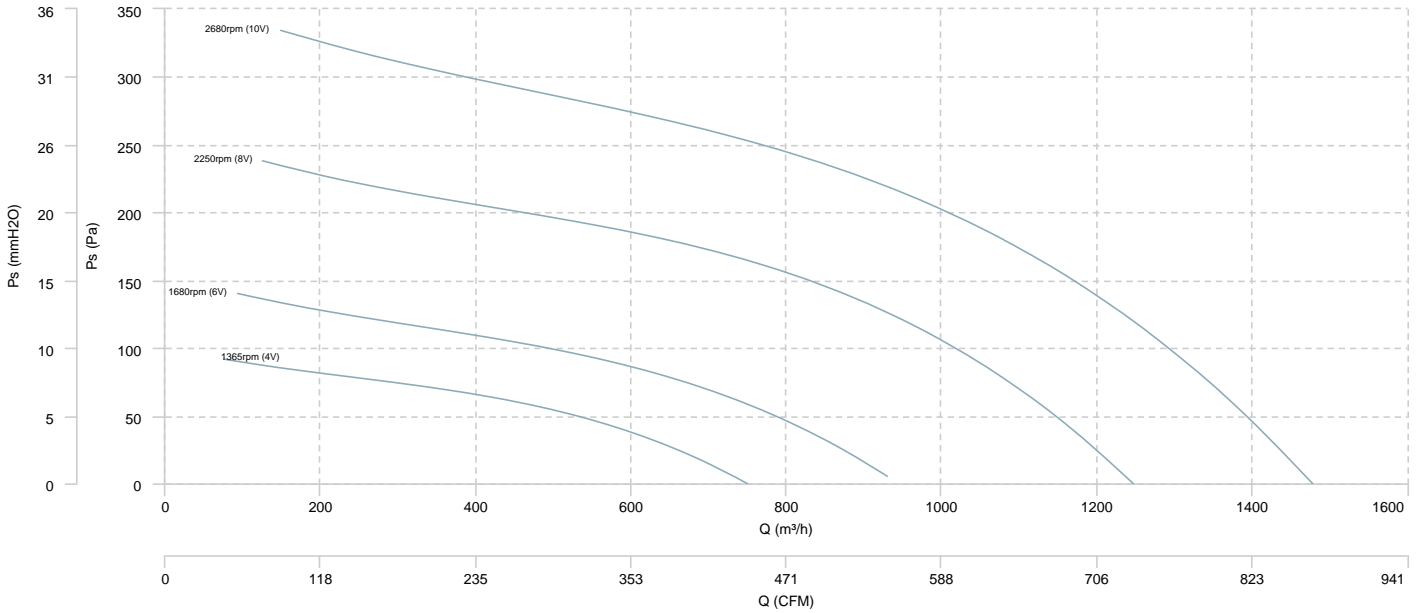


AIR FLOW - MECHANICAL POWER

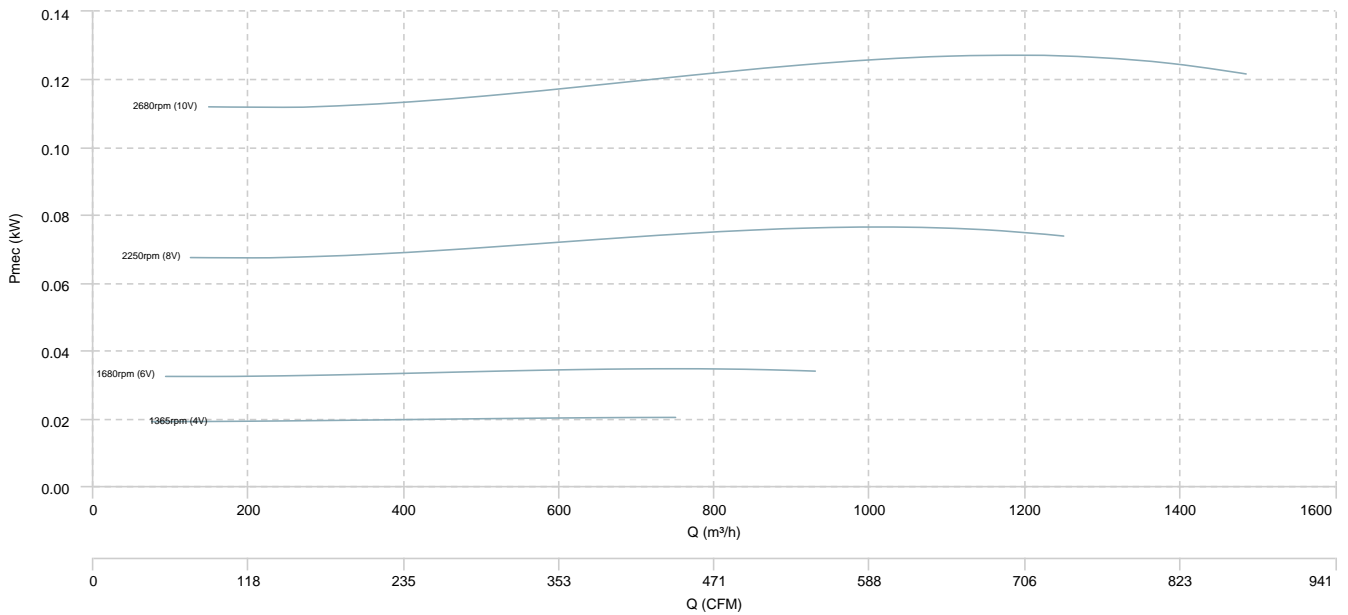


KUVIO-Q 250 EEC

AIR FLOW - PRESSURE

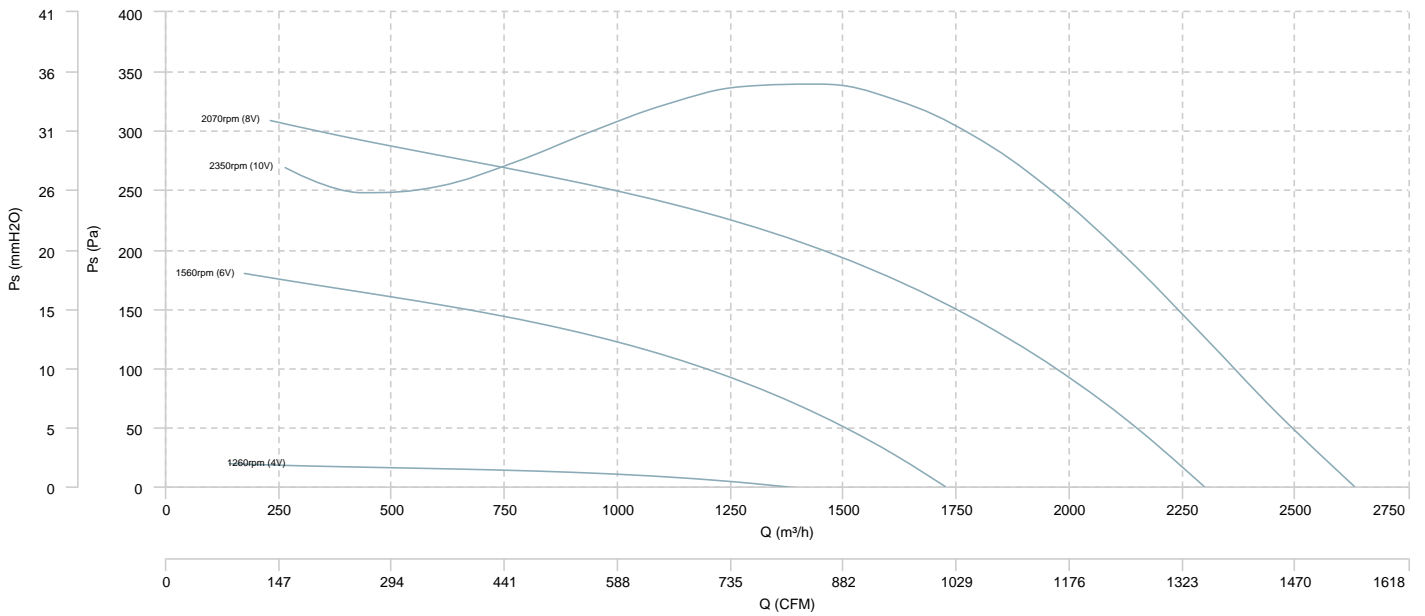


AIR FLOW - MECHANICAL POWER

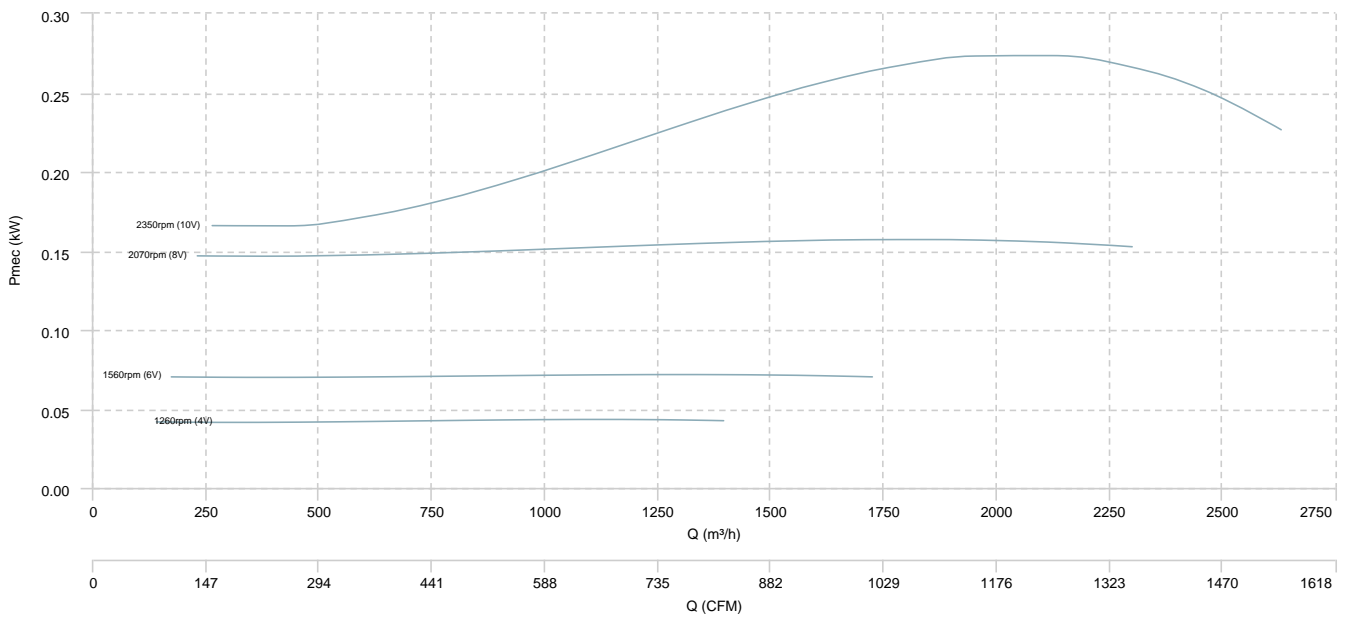


KUVIO-Q 315 EEC

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
KUVIO-Q 100 EEC (1140rpm (4V))	Inlet	-	34	32	29	27	23	17	19	37
	Outlet	-	33	31	30	28	25	22	24	38
	Radiated	-	23	21	20	24	20	18	20	30
KUVIO-Q 125 EEC (1080rpm (4V))	Inlet	-	33	30	32	28	25	19	20	38
	Outlet	-	33	30	33	30	27	20	21	38
	Radiated	-	26	24	20	24	21	19	22	31
KUVIO-Q 150 EEC (1015rpm (4V))	Inlet	-	34	34	33	31	29	22	20	40
	Outlet	-	33	33	34	34	31	22	20	40
	Radiated	-	28	24	22	29	24	20	22	34
KUVIO-Q 160 EEC (1010rpm (4V))	Inlet	-	34	34	34	33	31	23	21	40
	Outlet	-	33	33	34	35	32	23	20	41
	Radiated	-	23	22	19	29	24	20	23	33
KUVIO-Q 200 EEC (1380rpm (4V))	Inlet	-	39	39	40	42	41	39	29	48
	Outlet	-	40	39	39	41	42	38	27	48
	Radiated	-	29	34	30	34	34	24	20	40
KUVIO-Q 250 EEC (1365rpm (4V))	Inlet	-	40	46	47	49	47	43	33	54
	Outlet	-	42	45	46	50	48	43	33	54
	Radiated	-	32	33	34	41	40	27	23	45
KUVIO-Q 315 EEC (1260rpm (4V))	Inlet	-	44	48	59	55	51	51	39	61
	Outlet	-	45	48	55	52	50	46	37	58
	Radiated	-	38	38	52	47	42	33	23	54

Notes:

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

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