

KUVIO



HIGH EFFICIENCY IN-LINE MIXED FLOW FAN CONSTRUCTED IN SELF-EXTINGUISHING PLASTIC RESIN AND RESISTANT TO AGGRESSIVE CHEMICAL AGENTS.

MANUFACTURING FEATURES:

High efficiency In-line mixed flow fan with motor-holder enclosures, end cones and mixed flow impellers constructed in self-extinguishing plastic resin with a mineral-based additive to ensure dimensional stability. The side cones incorporate the fan's anchoring brackets onto the target surface for safe, quick installation. Designed to allow the assembly or disassembly of the fans without manipulating the ducts.

Standard version and timer version (T). Two-speed (sizes 100-160) and 3 speed (200-315) monophasic motor with thermal overload cut-out and shafts turning on ball bearings to guarantee long life continuous work (at least 30.000 hours at the maximum plate temperature. Standard voltages 220-240V 50Hz and 60 Hz. Speed adjustable with accessories.

Maximum working temperature in continuous: 50°C

IP44 protection. IMQ Safety certificate to guaranty the electromechanical compatibility.

Accessories



BDC INT 3V JE 45 REG



REG VMC SIL-C MINI VISC

APPLICATIONS:

Designed for duct supply and exhaust ventilation systems that require excellent response in terms of high pressure and air flow, while keeping noise under control.

It can be used in many small and medium ventilation installations for air renewal such as:

- Bathrooms and changing rooms.
- Commercial offices.
- Extraction in domestic kitchens after the extraction hood.
- Schools
- Waiting room.
- Commercial premises, laundries, shops, bars, restaurants ...
- Laboratories.

Technical data

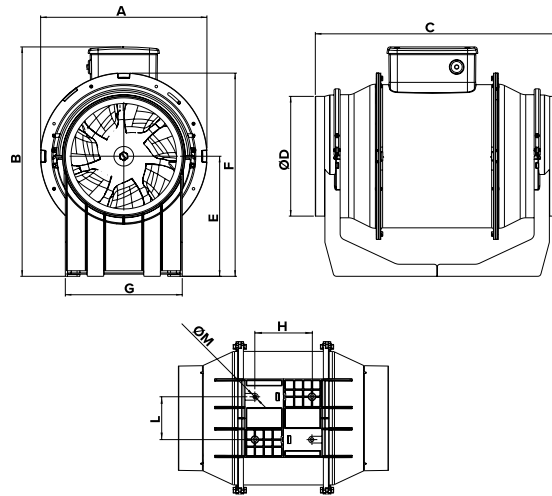
2 speed motor

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
KUV100	KUVIO 100	2030	0,09/0,11	0,02	260	50	1,80	1
KUV100T	KUVIO 100 T	2030	0,09/0,11	0,02	260	50	1,80	2
KUV125	KUVIO 125	2140	0,11/0,15	0,03	370	51	1,80	1
KUV125T	KUVIO 125 T	2140	0,11/0,15	0,03	370	51	1,80	2
KUV150	KUVIO 150	2100	0,18/0,26	0,06	560	55	2,40	1
KUV150T	KUVIO 150 T	2100	0,18/0,26	0,06	560	55	2,40	2
KUV160	KUVIO 160	2100	0,18/0,26	0,06	560	55	2,40	1
KUV160T	KUVIO 160 T	2100	0,18/0,26	0,06	560	55	2,40	2
KUV200	KUVIO 200	2710	0,49/0,42/0,34	0,11	1.135	63	4,90	3
KUV200T	KUVIO 200 T	2710	0,49/0,42/0,34	0,11	1.135	63	4,90	4
KUV250	KUVIO 250	2760	0,65/0,55/0,42	0,15	1.475	64	5,30	5
KUV315	KUVIO 315	2710	1,55/1,15/0,95	0,36	2.750	69	9,50	5

Notes:

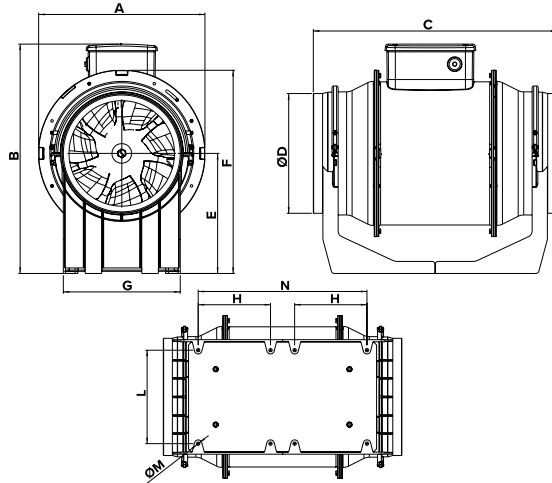
** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	C	D	E	F	G	H	L
KUVIO 100	188.5	211	303	96	101.5	189	90	60	80
KUVIO 100 T	188.5	211	303	96	101.5	189	90	60	80
KUVIO 125	188.5	211	258	122	101.2	189	90	60	80
KUVIO 125 T	188.5	211	258	122	101.2	189	90	60	80
KUVIO 150	214.5	234	294	146	112.5	212	110	60	80
KUVIO 150 T	214.5	234	294	146	112.5	212	110	60	80
KUVIO 160	214.5	234	272.5	156	112.5	212	110	60	80
KUVIO 160 T	214.5	234	272.5	156	112.5	212	110	60	80

Model	M
KUVIO 100	5,5
KUVIO 100 T	5,5
KUVIO 125	5,5
KUVIO 125 T	5,5
KUVIO 150	5,5
KUVIO 150 T	5,5
KUVIO 160	5,5
KUVIO 160 T	5,5



Model	A	B	C	D	E	F	G	H	L
KUVIO 200	270	373	396	194.5	195	330	190	120	155
KUVIO 200 T	270	373	396	194.5	195	330	190	120	155
KUVIO 250	300	378	322	243	190	329	200	70	170
KUVIO 315	373	446	420	307	224	398	309	110	255

Model	M	N
KUVIO 200	5.5	280
KUVIO 200 T	5.5	280
KUVIO 250	5,5	174.5
KUVIO 315	8.5	259.5

Wiring diagram

DIAGRAM Nº 1

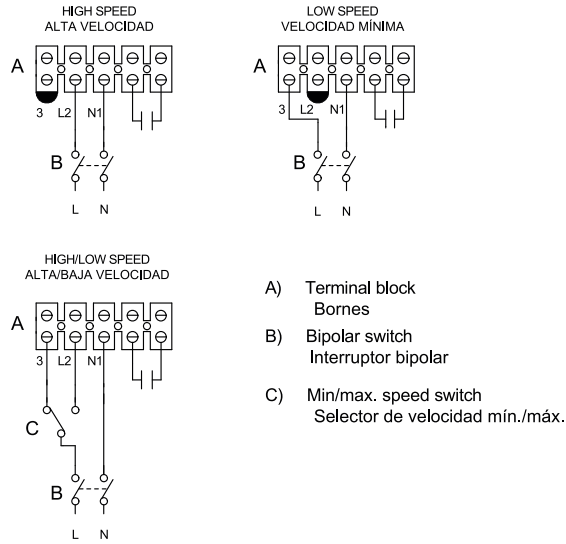


DIAGRAM Nº 2

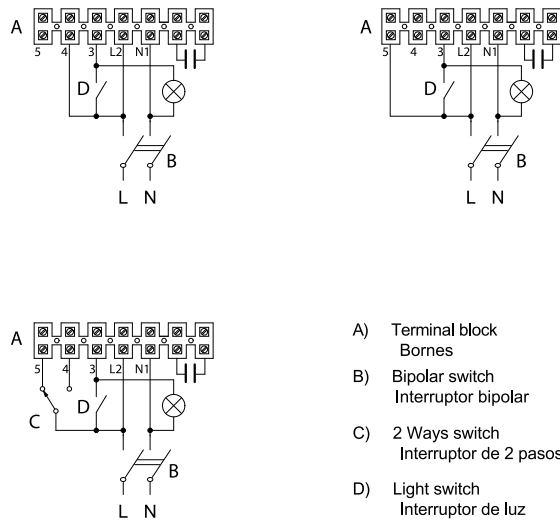


DIAGRAM Nº 3

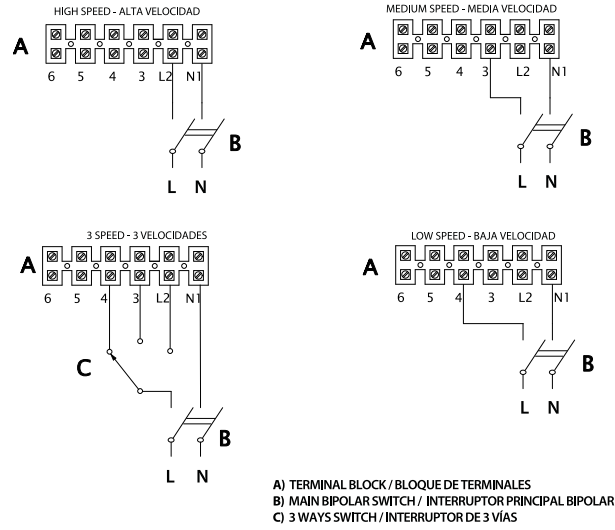


DIAGRAM Nº 4

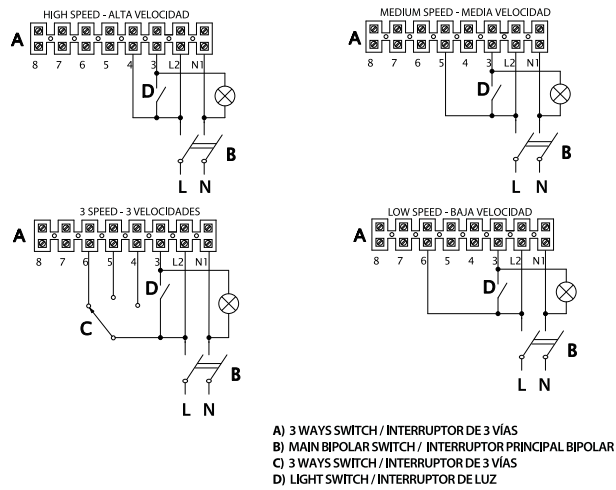
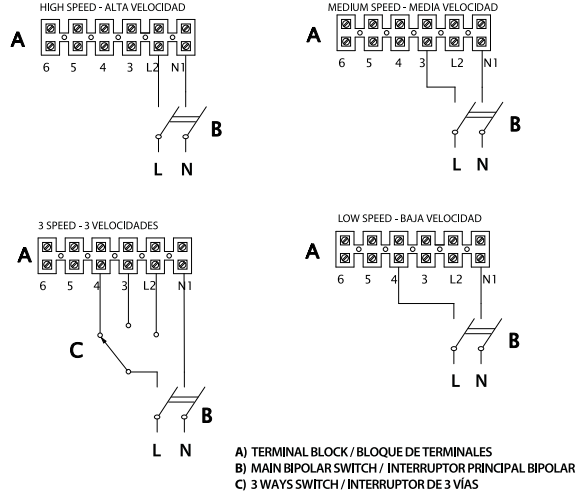


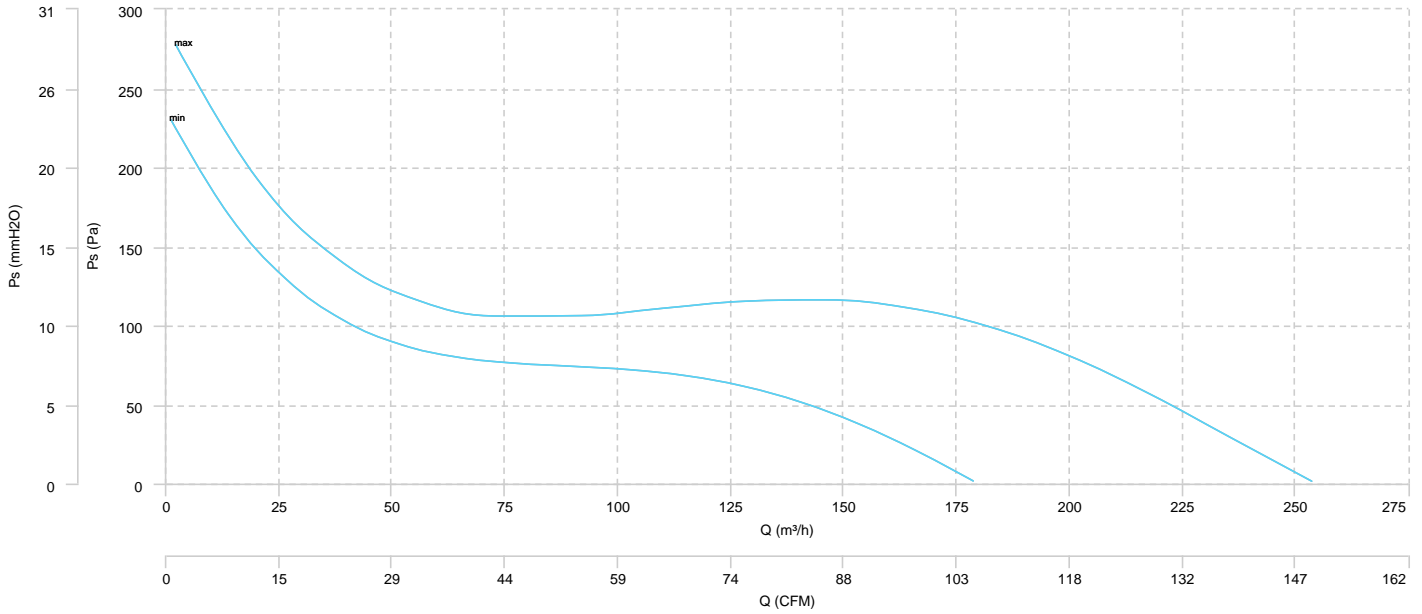
DIAGRAM N° 5



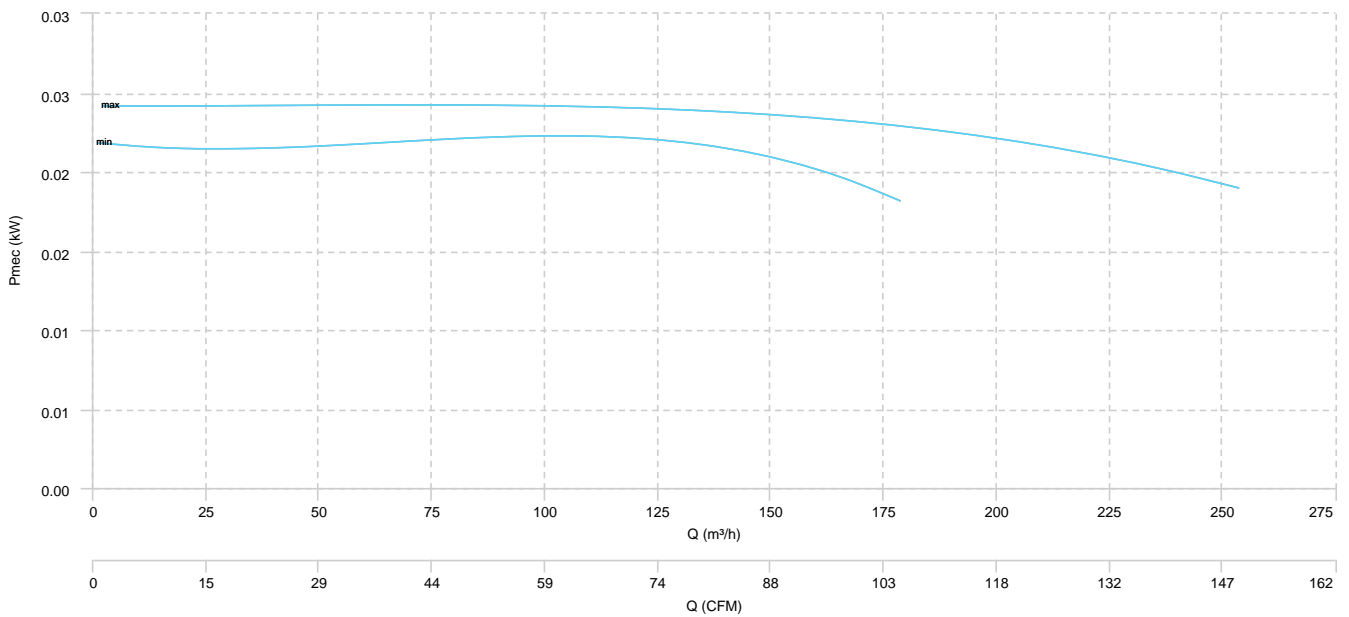
CHARACTERISCTIC CURVE

KUVIO 100 KUVIO 100 T

AIR FLOW - PRESSURE



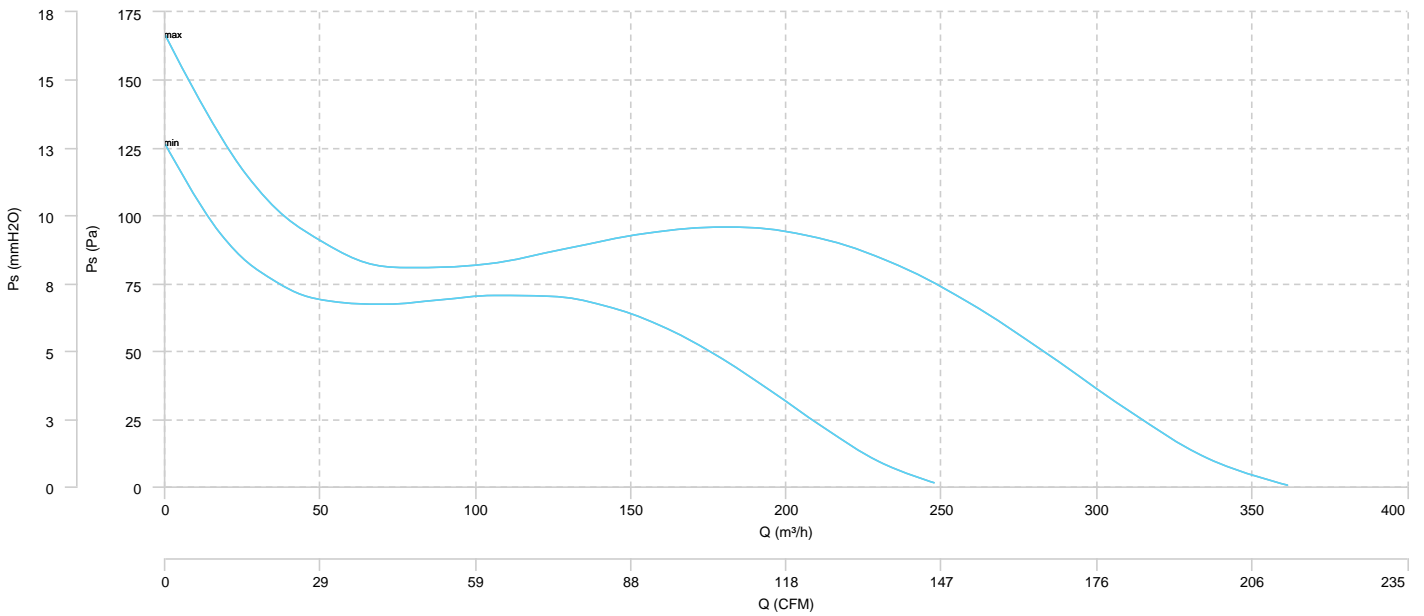
AIR FLOW - MECHANICAL POWER



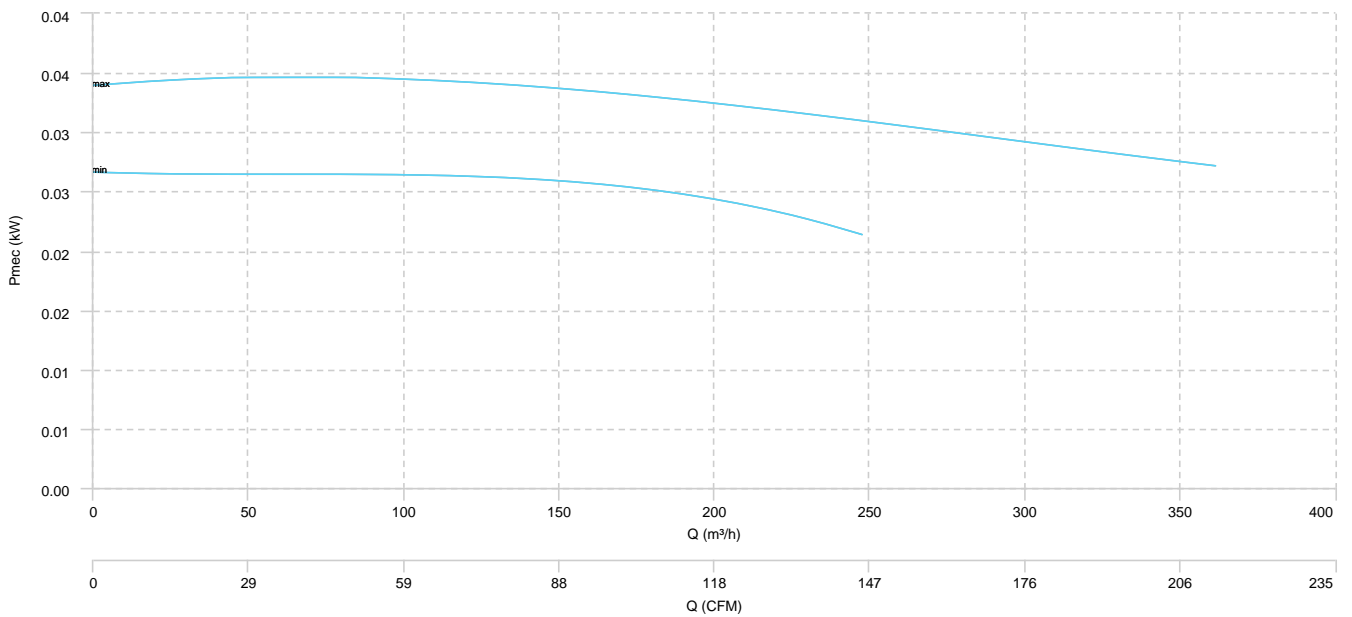
KUVIO 125

KUVIO 125 T

AIR FLOW - PRESSURE



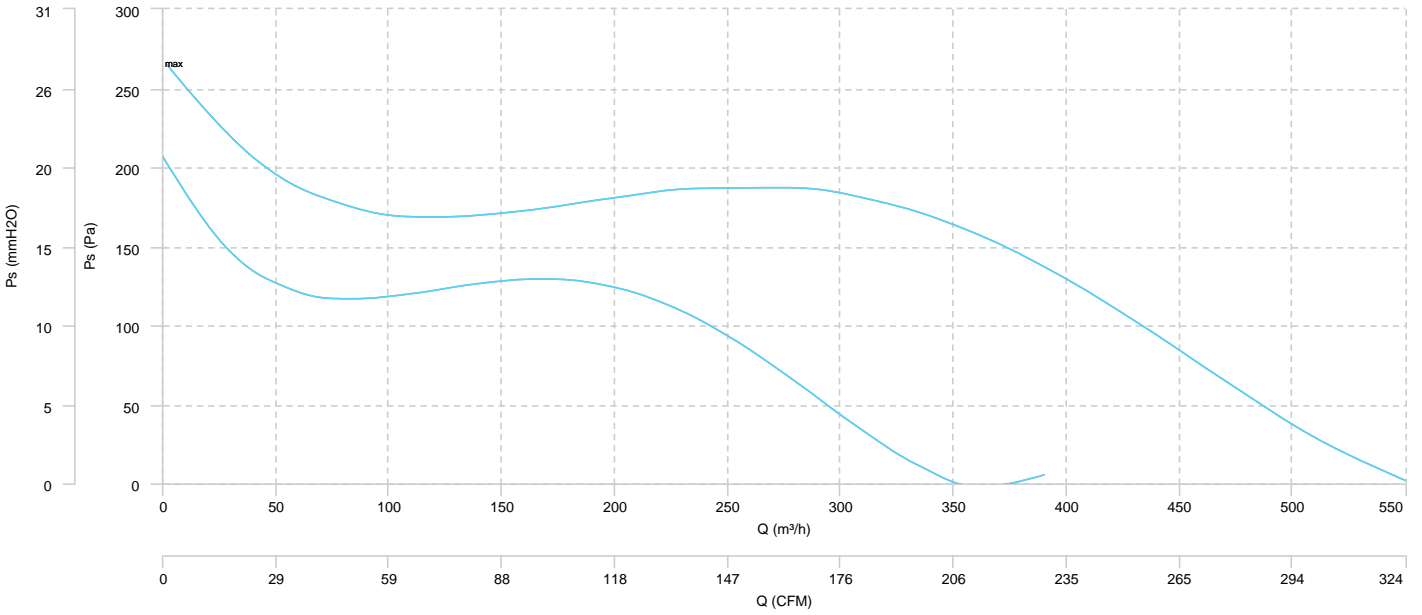
AIR FLOW - MECHANICAL POWER



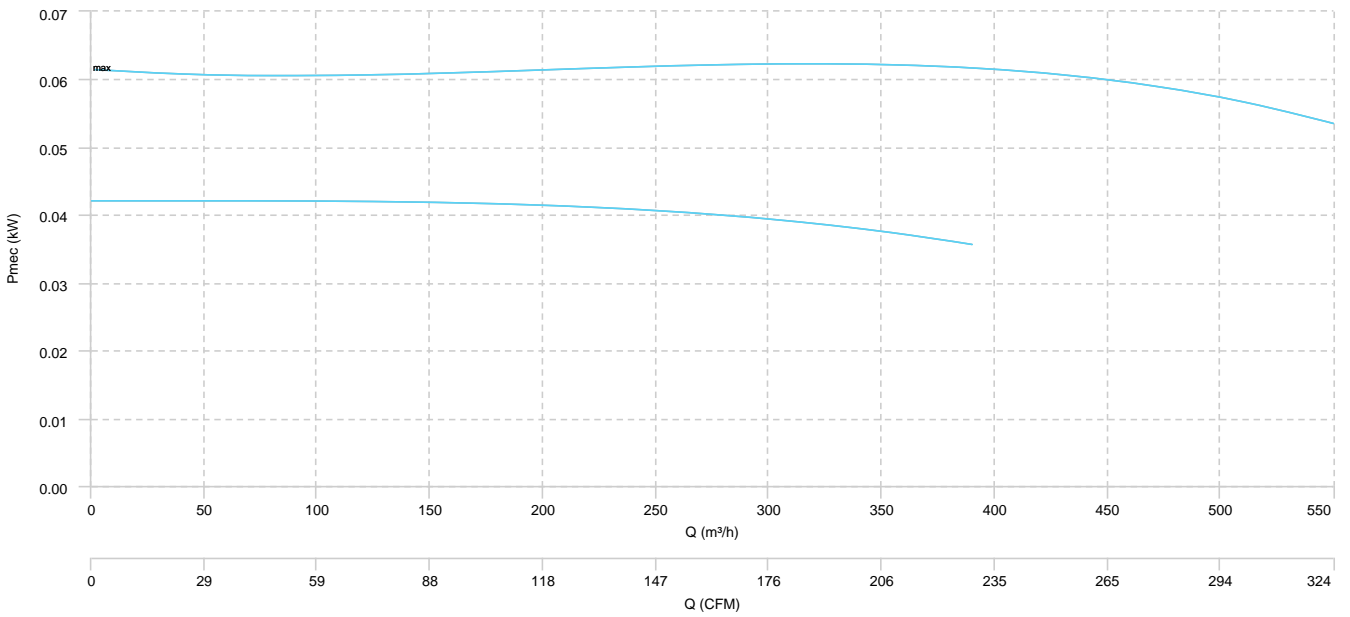
KUVIO 150

KUVIO 150 T

AIR FLOW - PRESSURE



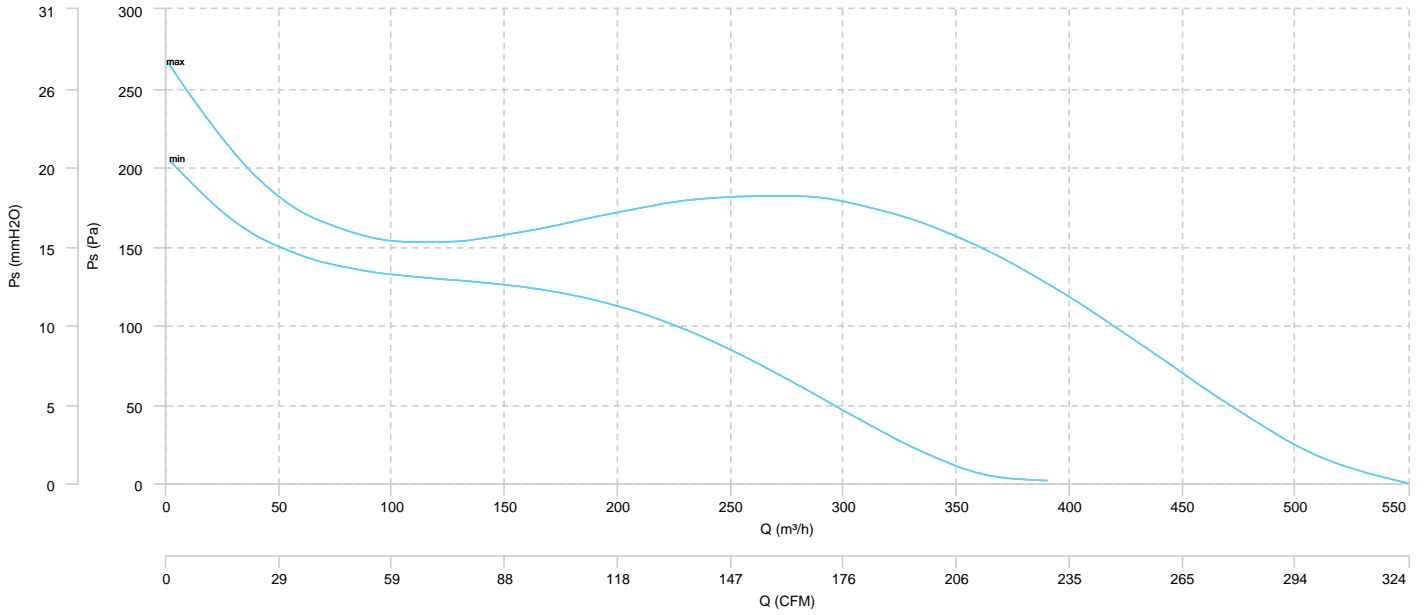
AIR FLOW - MECHANICAL POWER



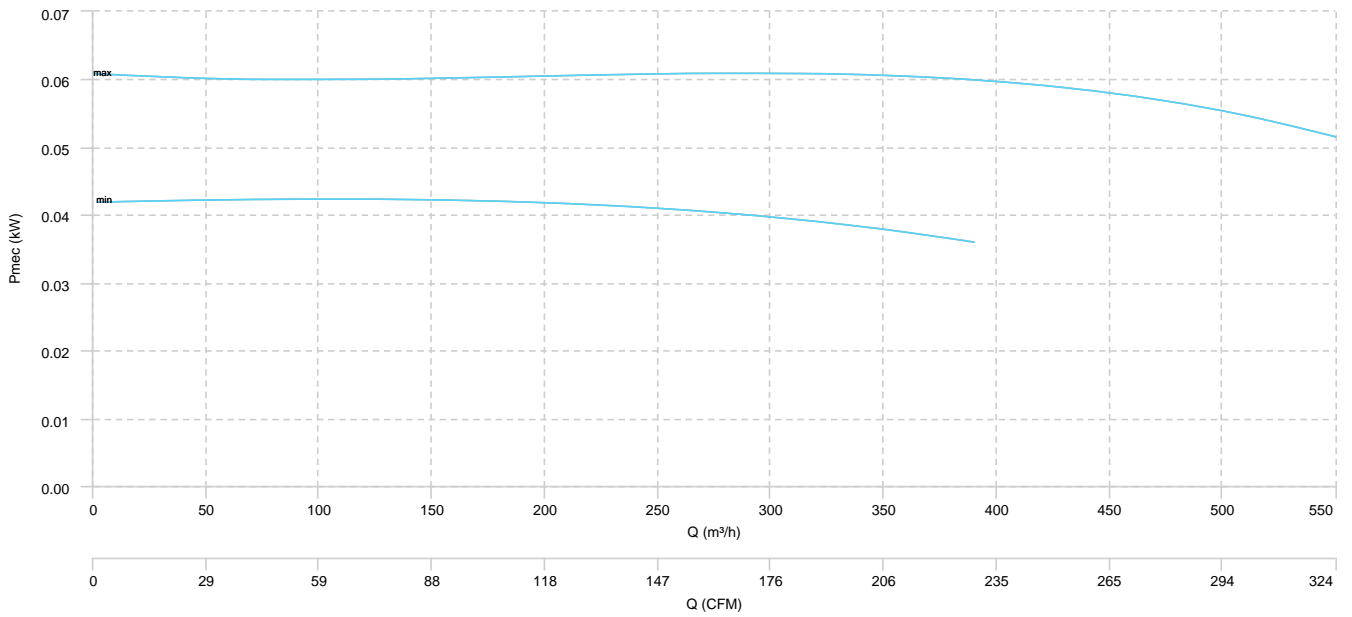
KUVIO 160

KUVIO 160 T

AIR FLOW - PRESSURE



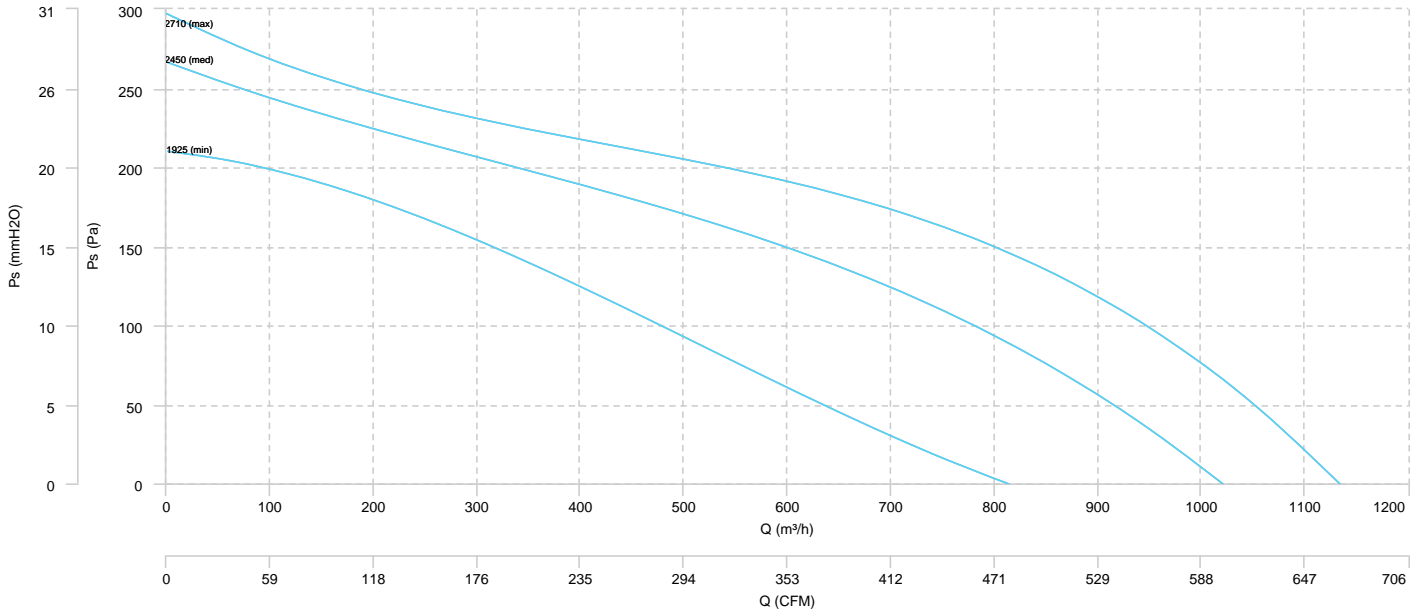
AIR FLOW - MECHANICAL POWER



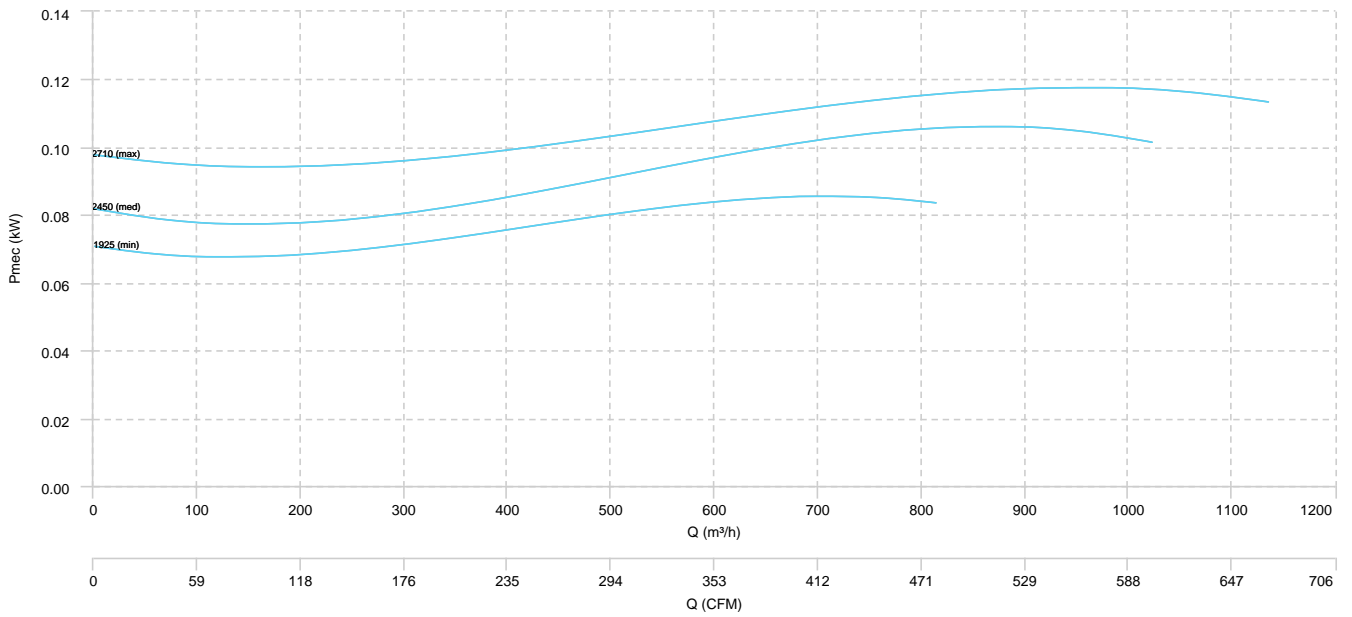
KUVIO 200

KUVIO 200 T

AIR FLOW - PRESSURE

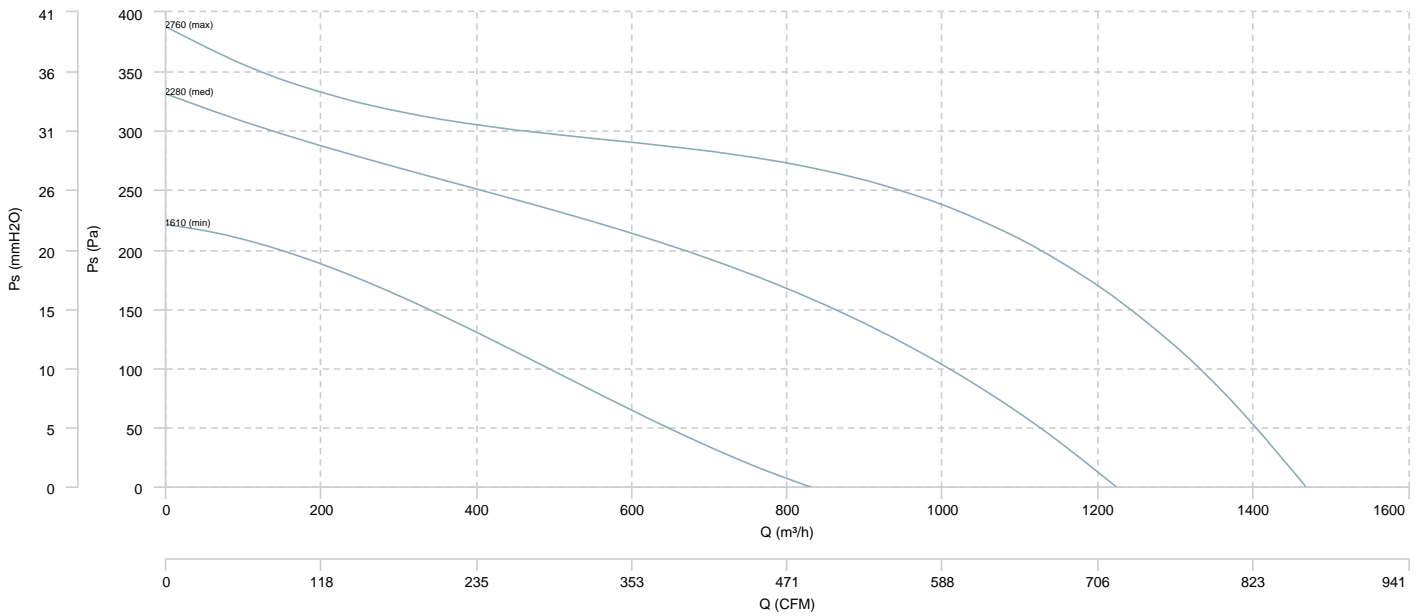


AIR FLOW - MECHANICAL POWER

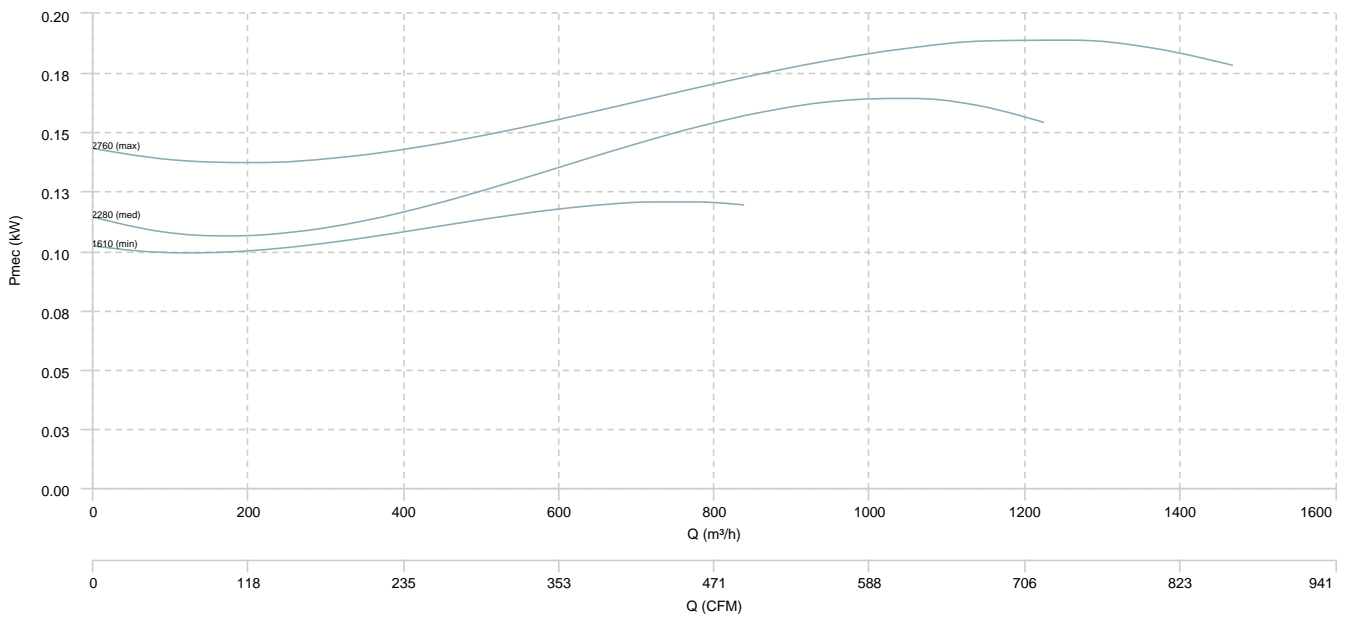


KUVIO 250

AIR FLOW - PRESSURE

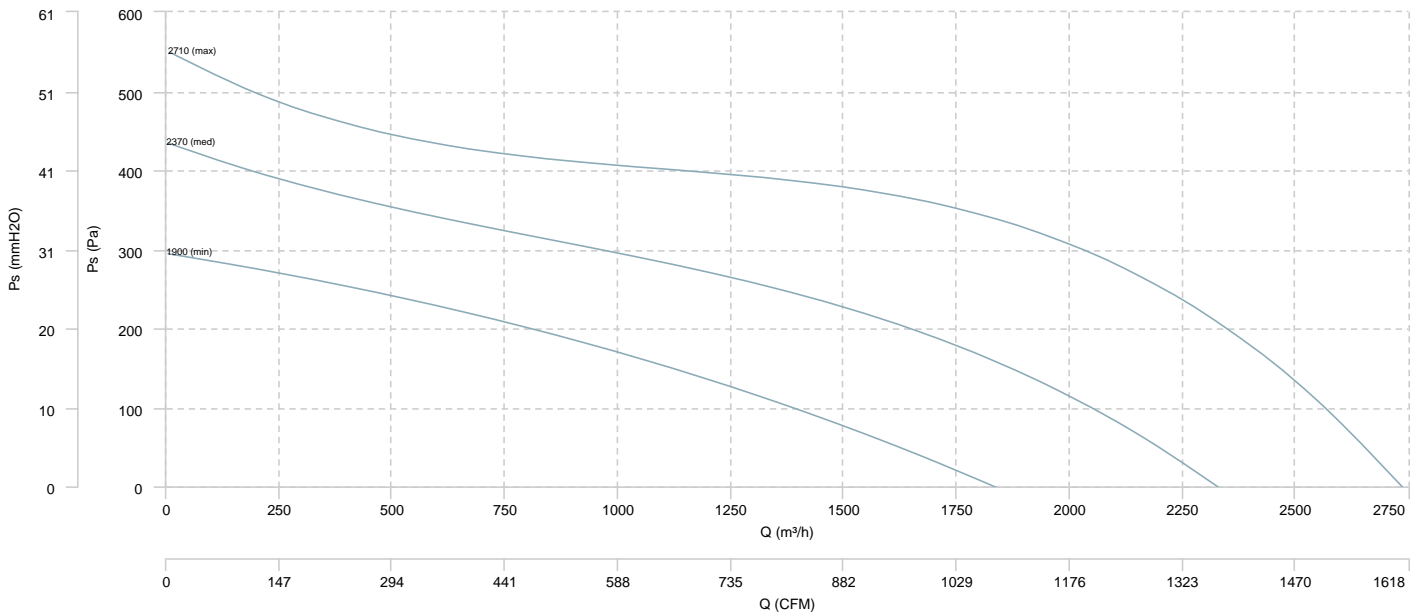


AIR FLOW - MECHANICAL POWER

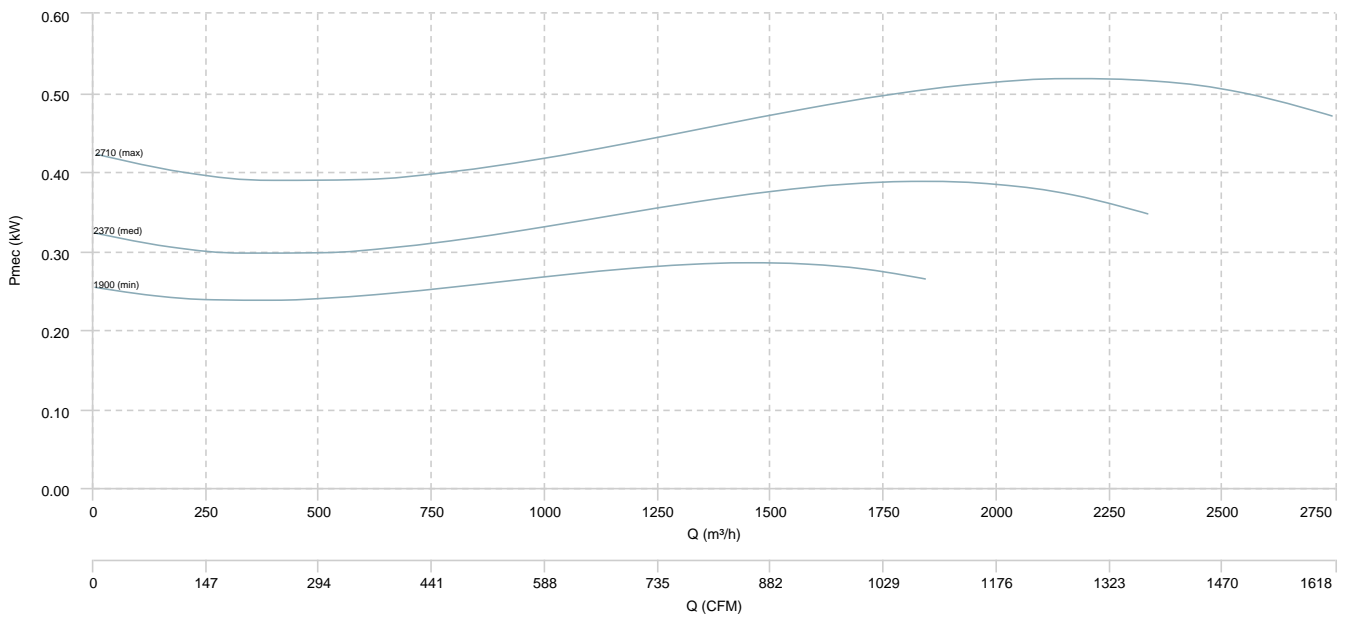


KUVIO 315

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 100	Inlet	-	64	69	72	66	67	55	51	76
	Outlet	-	65	68	72	68	62	57	54	75
	Radiated	-	33	43	43	37	41	33	24	48
KUVIO 100 T	Inlet	-	64	69	72	66	67	55	51	76
	Outlet	-	65	68	72	68	62	57	54	75
	Radiated	-	33	43	43	37	41	33	24	48
KUVIO 125	Inlet	-	61	69	71	71	72	60	59	77
	Outlet	-	60	67	71	72	69	61	60	76
	Radiated	-	32	45	41	41	46	39	25	50
KUVIO 125 T	Inlet	-	61	69	71	71	72	60	59	77
	Outlet	-	60	67	71	72	69	61	60	76
	Radiated	-	32	45	41	41	46	39	25	50
KUVIO 150	Inlet	-	62	70	73	75	78	67	66	81
	Outlet	-	62	74	73	76	74	68	64	81
	Radiated	-	32	43	46	46	52	47	30	55
KUVIO 150 T	Inlet	-	62	70	73	75	78	67	66	81
	Outlet	-	62	74	73	76	74	68	64	81
	Radiated	-	32	43	46	46	52	47	30	55
KUVIO 160	Inlet	-	62	70	73	75	78	67	66	81
	Outlet	-	62	74	73	76	74	68	64	81
	Radiated	-	32	43	46	46	52	47	30	55
KUVIO 160 T	Inlet	-	62	70	73	75	78	67	66	81
	Outlet	-	62	74	73	76	74	68	64	81
	Radiated	-	32	43	46	46	52	47	30	55
KUVIO 200 (1925 (min))	Inlet	-	-	-	-	-	-	-	-	80
	Outlet	-	-	-	-	-	-	-	-	78
	Radiated	-	-	-	-	-	-	-	-	57
KUVIO 200 T (1925 (min))	Inlet	-	-	-	-	-	-	-	-	80
	Outlet	-	-	-	-	-	-	-	-	78
	Radiated	-	-	-	-	-	-	-	-	57
KUVIO 250 (1610 (min))	Inlet	-	-	-	-	-	-	-	-	78
	Outlet	-	-	-	-	-	-	-	-	76
	Radiated	-	-	-	-	-	-	-	-	56
KUVIO 315 (1900 (min))	Inlet	-	-	-	-	-	-	-	-	86
	Outlet	-	-	-	-	-	-	-	-	86
	Radiated	-	-	-	-	-	-	-	-	63

Notes:

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

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