

HMRT



LONG CASED FAN WITH BACKWARD TURBINE

MANUFACTURING FEATURES:

- Reinforced fan casing manufactured in rolling steel sheet. Polyester powder finishing coat. Housing with motor access door.
- High efficiency backward impeller with self-cleaning system in steel sheet, balanced static and dynamically in origin.
- Motor with high efficiency, maintenance-free belts.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Standard voltages 230/400V 50Hz .
- Maximum continuous operation temperature: 110°C (fluide).
- Maximum ambient temperature: 50°C

APPLICATIONS:

- Designed for inline installation, they are suitable for:
- Air renewal in buildings and industries.
 - Smoke extraction.

Accessories



JE 45

PO

RP

Technical data

Three-phase motor

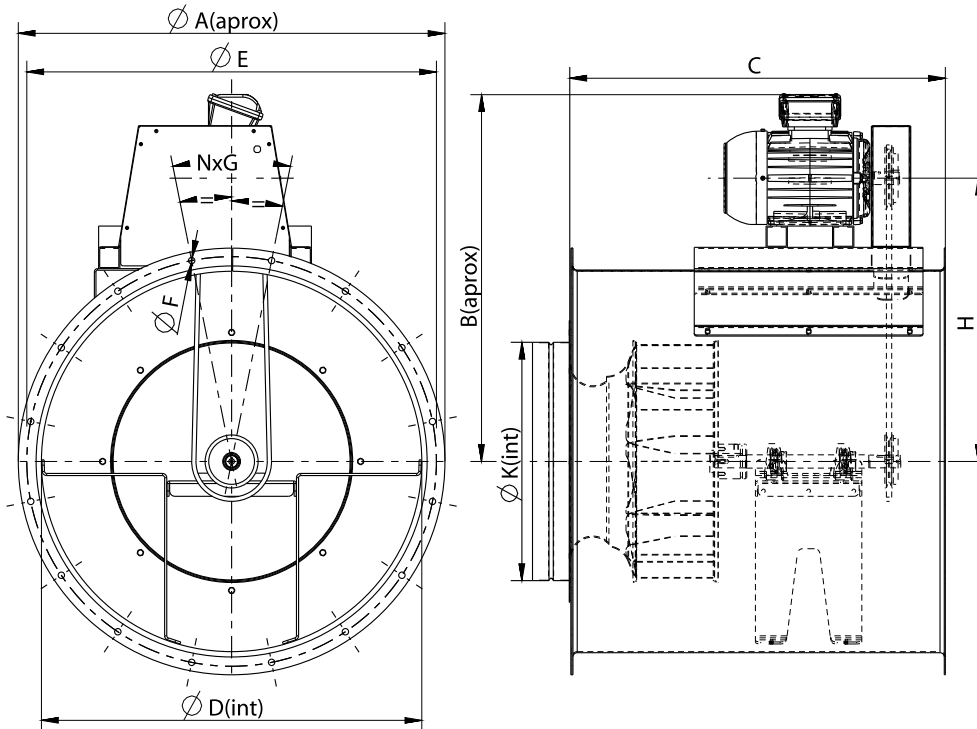
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight*	Connect. diagram
-	HMRT 400	900 - 1700	0,25	0,75	6.130	55	-	1
-	HMRT 450	900 - 1700	0,25	1,50	8.700	61	-	1
-	HMRT 500	900 - 1700	0,37	3	12.000	64	-	1
-	HMRT 560	700 - 1600	0,37	4	14.660	65	-	1
-	HMRT 630	700 - 1500	0,55	5,50	20.000	67	-	1
-	HMRT 710	700 - 1400	1,10	7,50	26.560	70	-	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	B (Mot. T71)	B (Mot. T80)	B (Mot. T90)	B (Mot. T100)	B (Mot. T112)	B (Mot. T132)	C	H (Mot. T71)	H (Mot. T80)
HMRT 400	601	619	-	-	-	-	655.5	472.5	481.5
HMRT 450	642	660	689.5	-	-	-	706	513.5	522.5
HMRT 500	685.5	703.5	732.5	752.5	-	-	706	556.5	565.5
HMRT 560	737	755	784	804	840	-	757	608	617
HMRT 630	-	810.5	839.5	859.5	895.5	943.5	855	-	672.5
HMRT 710	-	-	899	919	955	1003	905	-	-

Model	H (Mot. T90)	H (Mot. T100)	H (Mot. T112)	H (Mot. T132)	K	NxG	ØA	ØD	ØE
HMRT 400	-	-	-	-	398	12X30°	725	633	690
HMRT 450	532.5	-	-	-	448	16x22,5°	802	715	770
HMRT 500	575.5	585.5	-	-	498	16x22,5°	892	801	860
HMRT 560	628	637	649	-	548	16x22,5°	1000.5	903.5	970
HMRT 630	682.5	692.5	704.5	724.5	628	16x22,5°	1115	1013	1070
HMRT 710	742	752	764	784	698	16x22,5°	1234	1132	1190

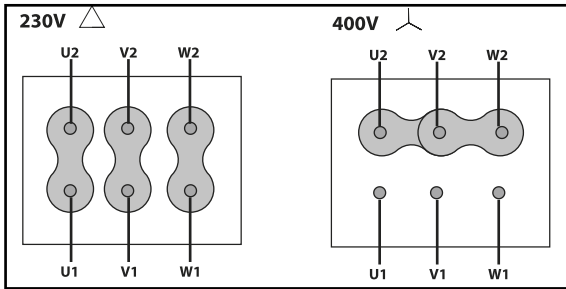
Model	ØF
HMRT 400	12
HMRT 450	12

Model	ØF
HMRT 500	12
HMRT 560	12
HMRT 630	12
HMRT 710	12

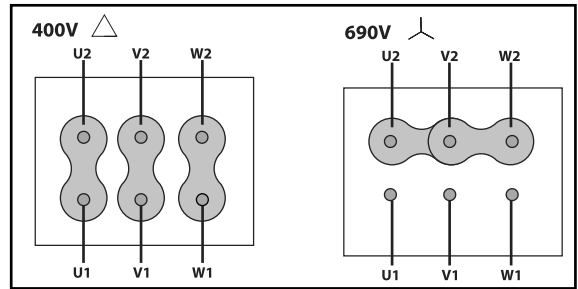
Wiring diagram

DIAGRAM Nº 1

230/400V



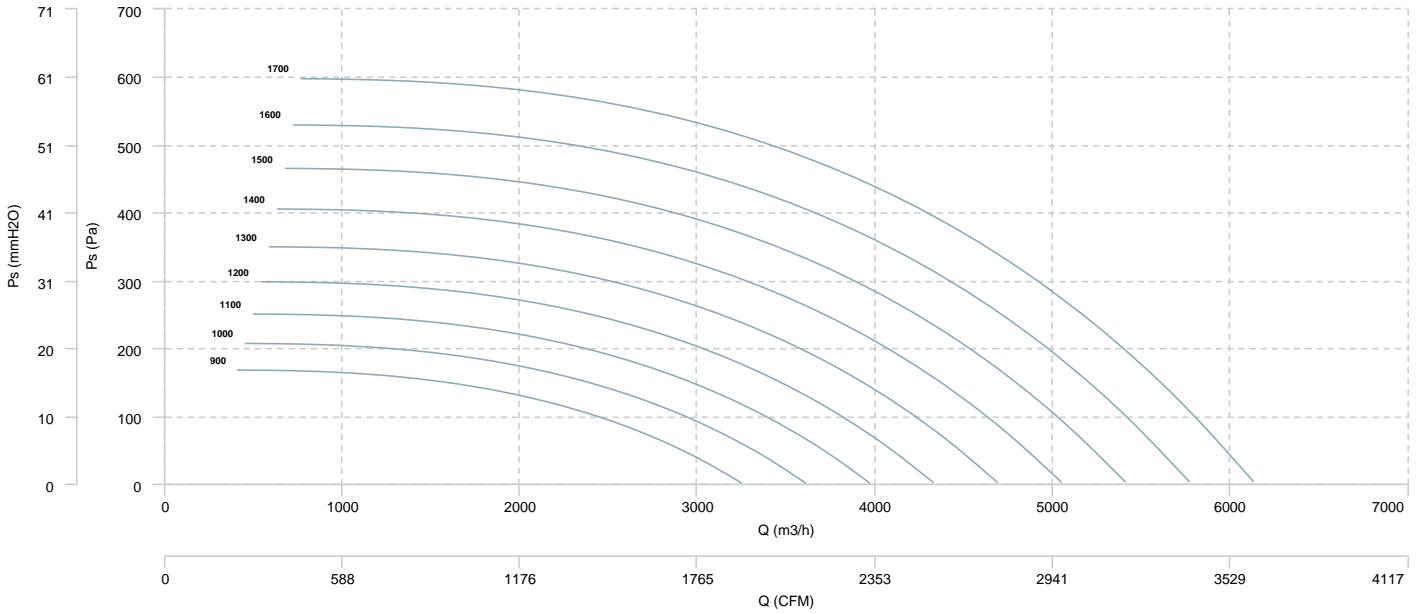
400/690V



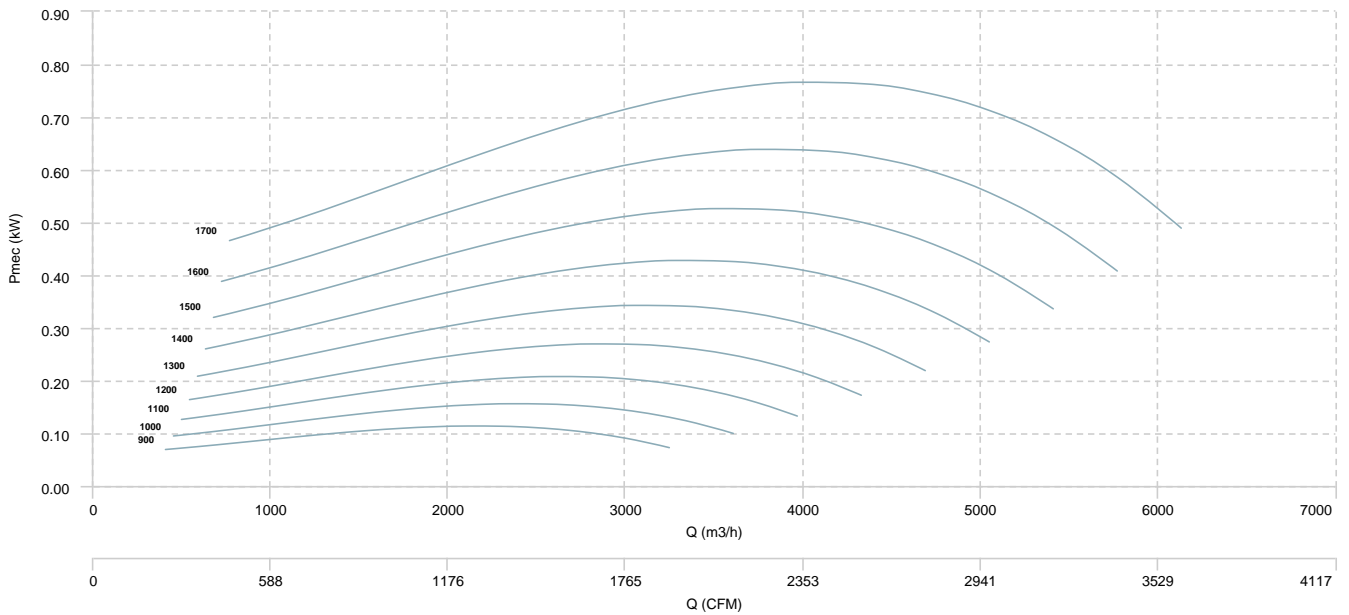
CHARACTERISCTIC CURVE

HMRT 400

AIR FLOW - PRESSURE

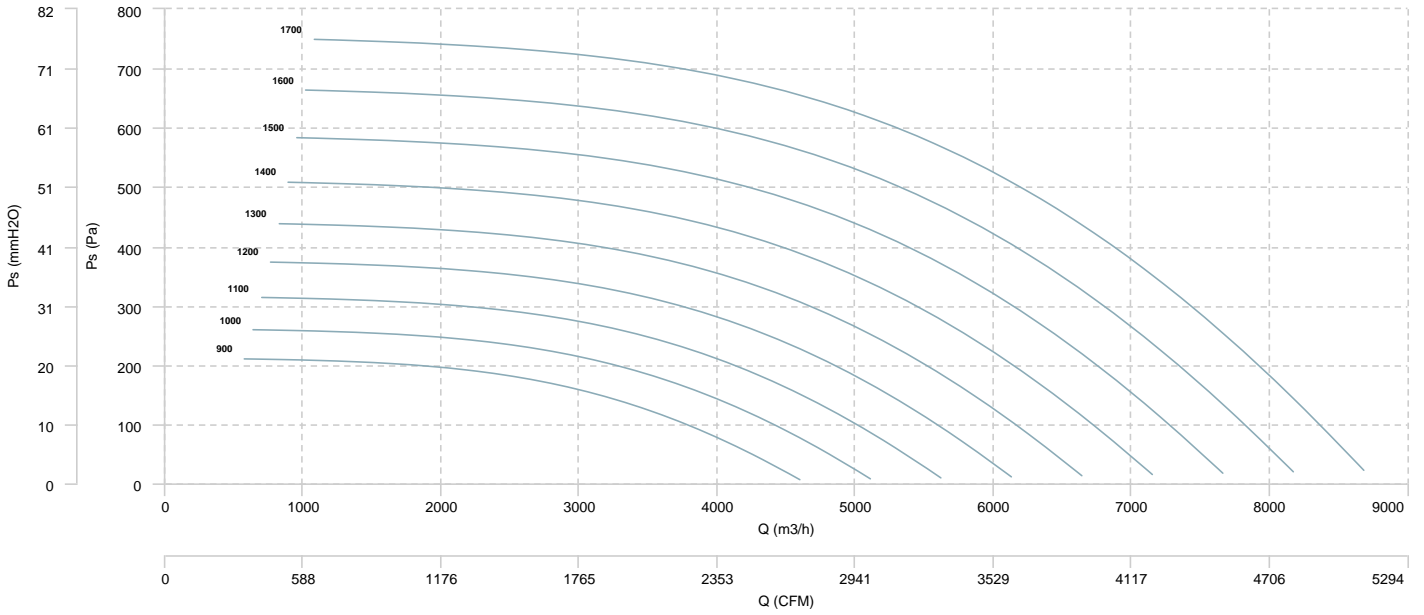


AIR FLOW - MECHANICAL POWER

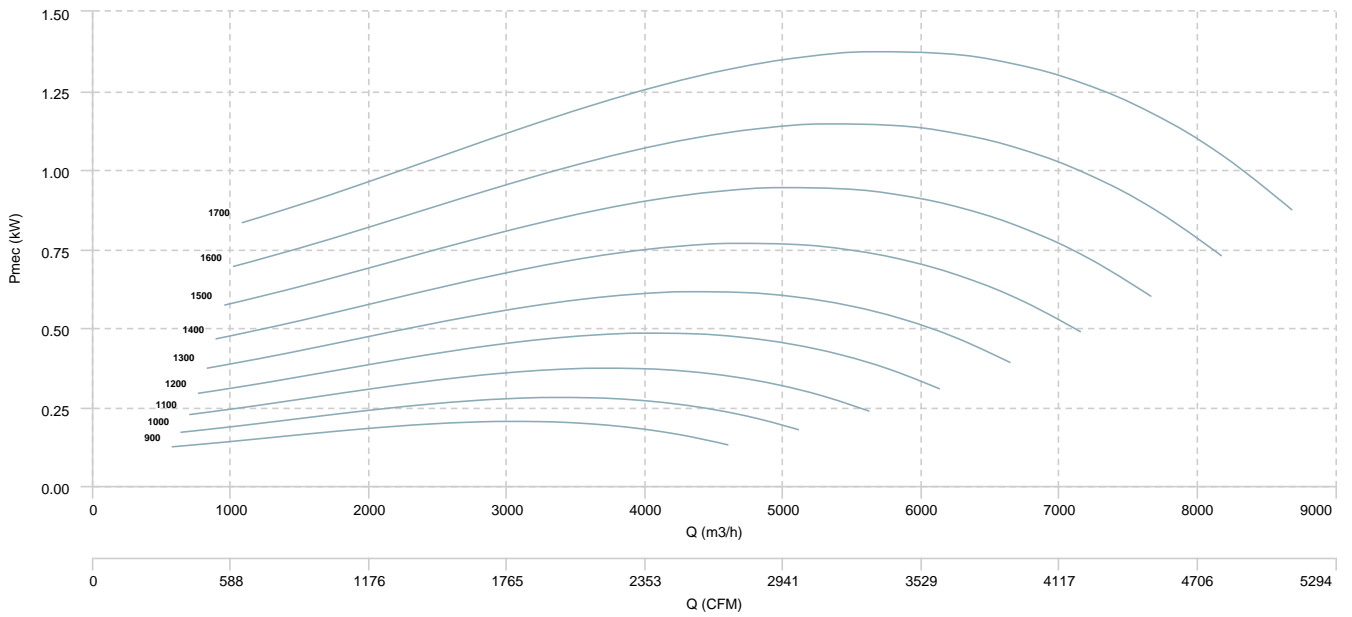


HMRT 450

AIR FLOW - PRESSURE

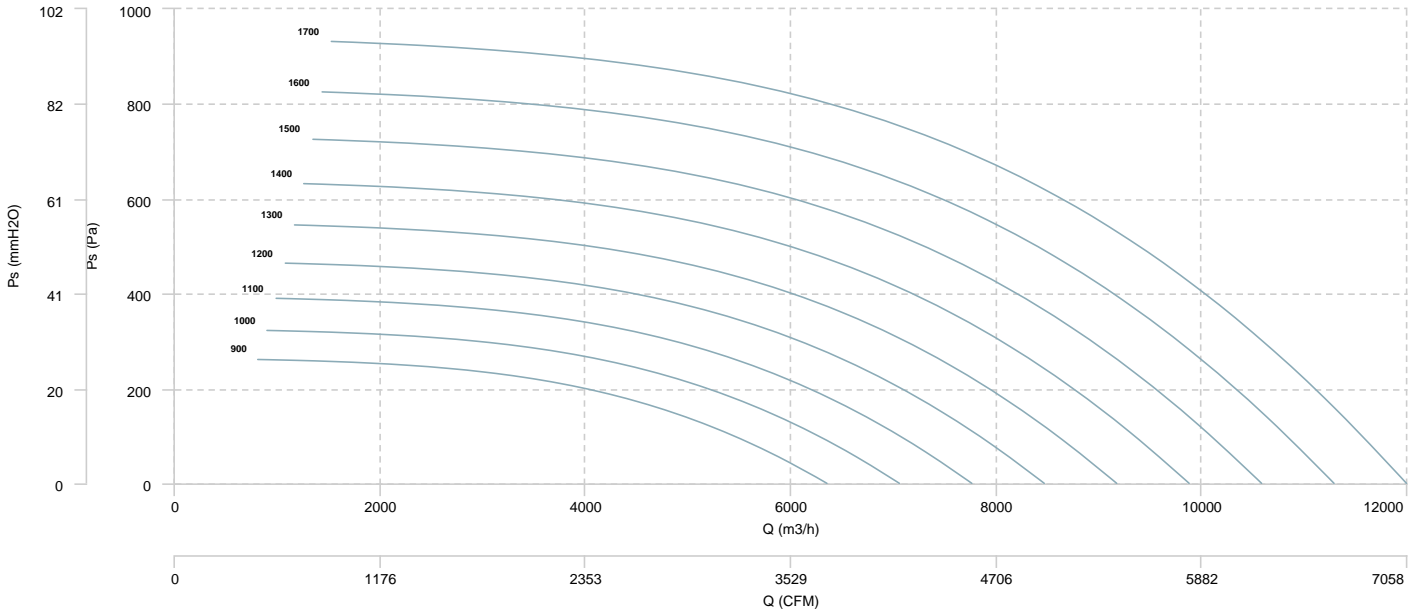


AIR FLOW - MECHANICAL POWER

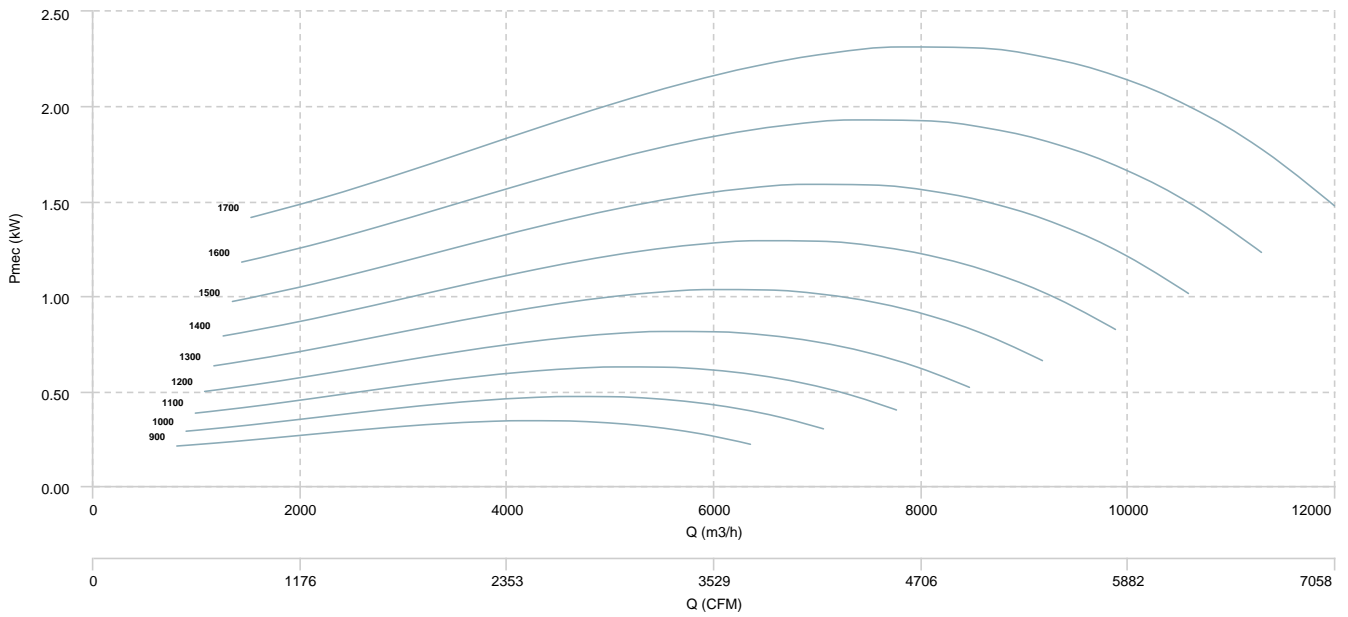


HMRT 500

AIR FLOW - PRESSURE

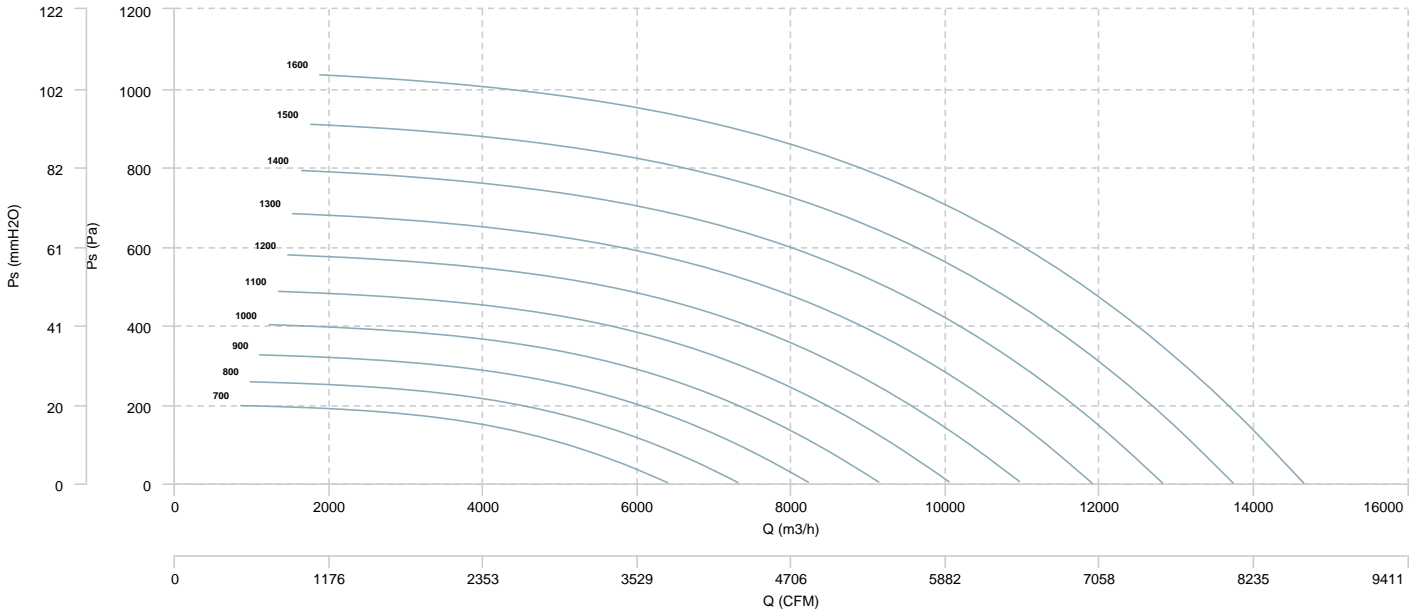


AIR FLOW - MECHANICAL POWER

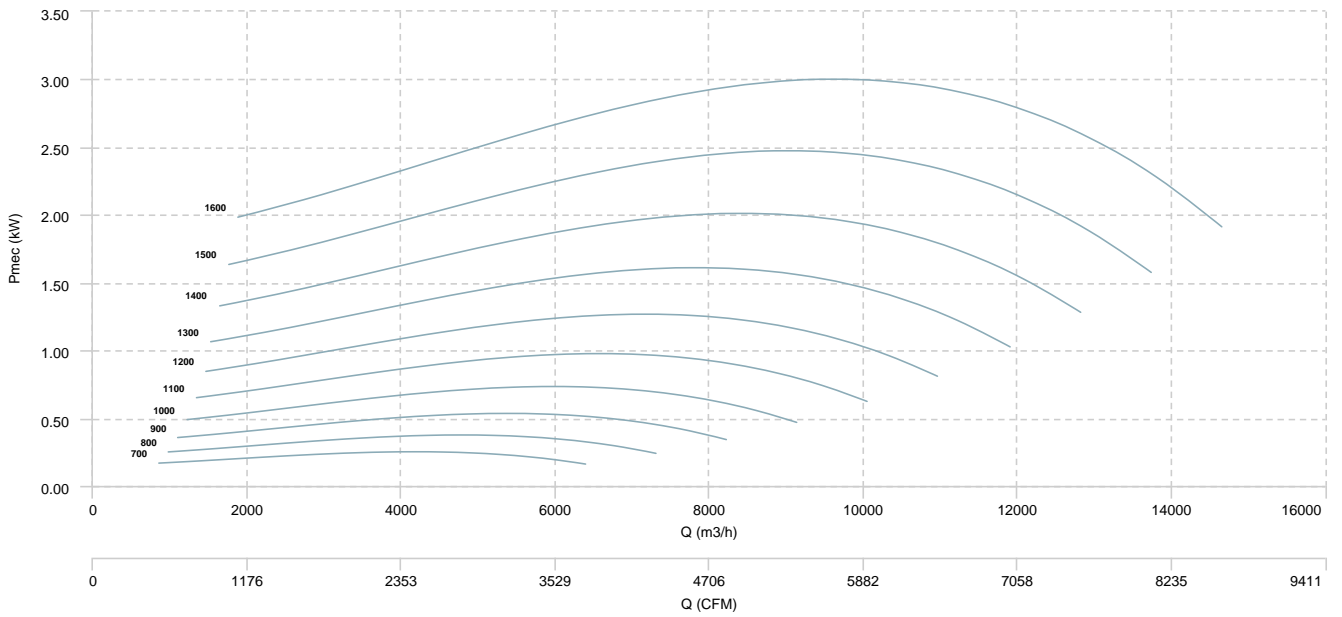


HMRT 560

AIR FLOW - PRESSURE

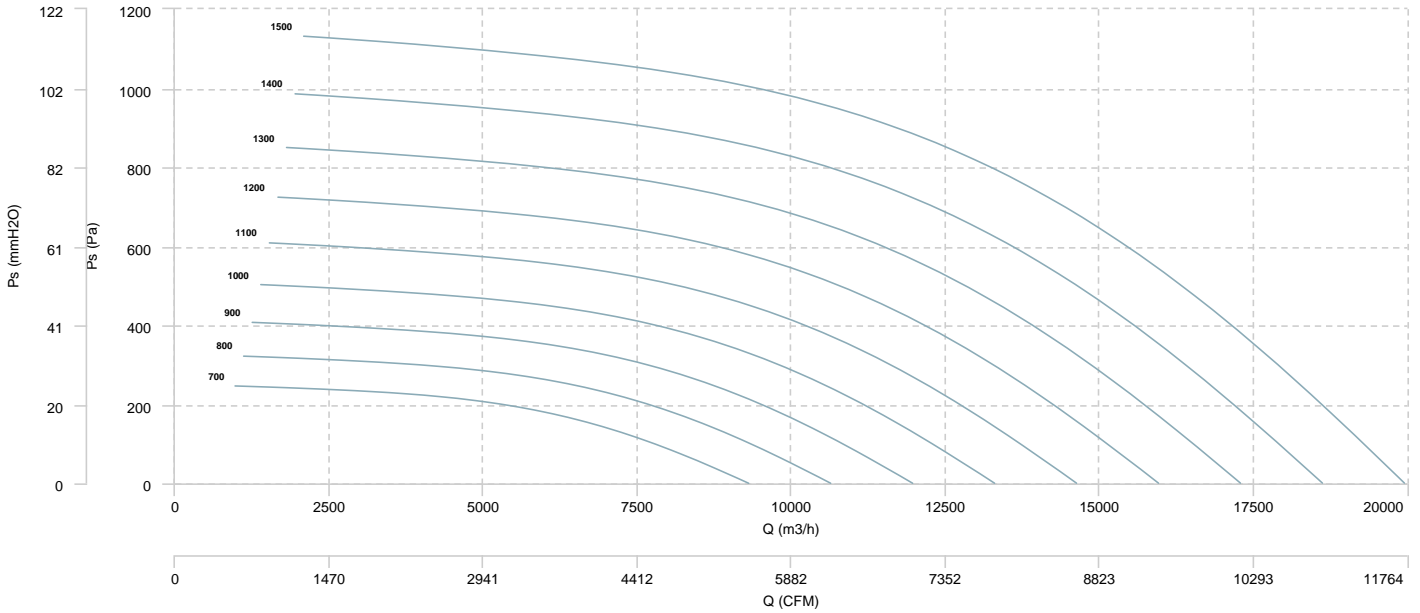


AIR FLOW - MECHANICAL POWER

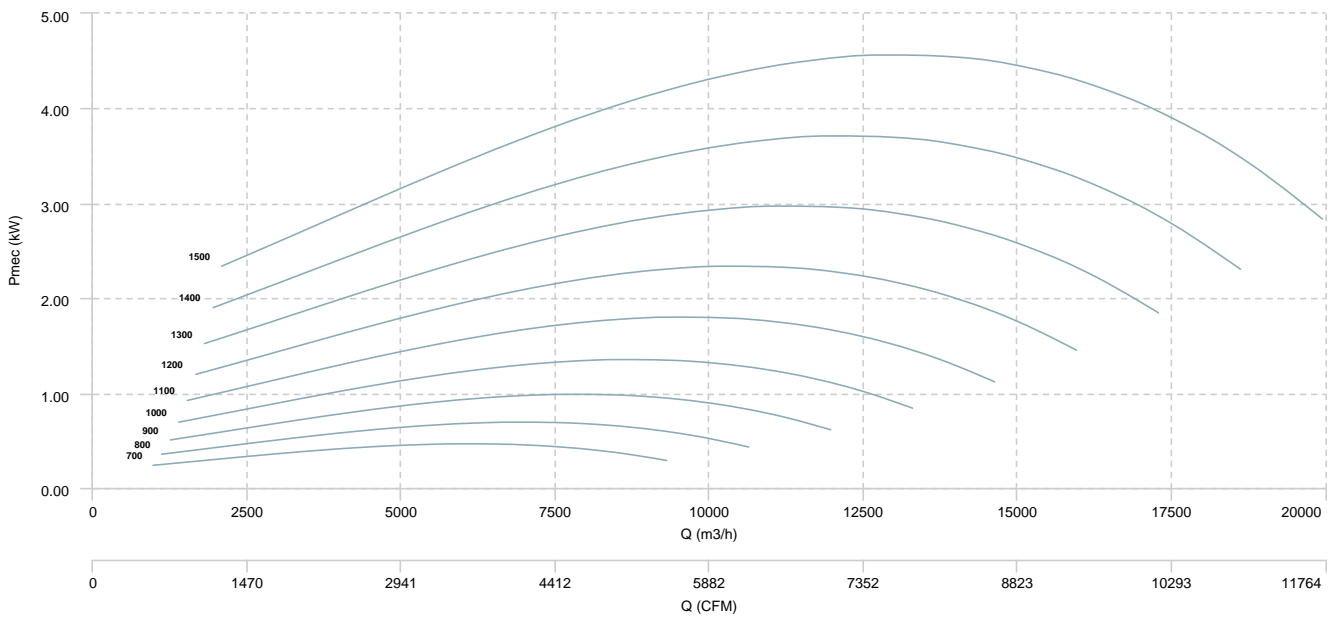


HMRT 630

AIR FLOW - PRESSURE

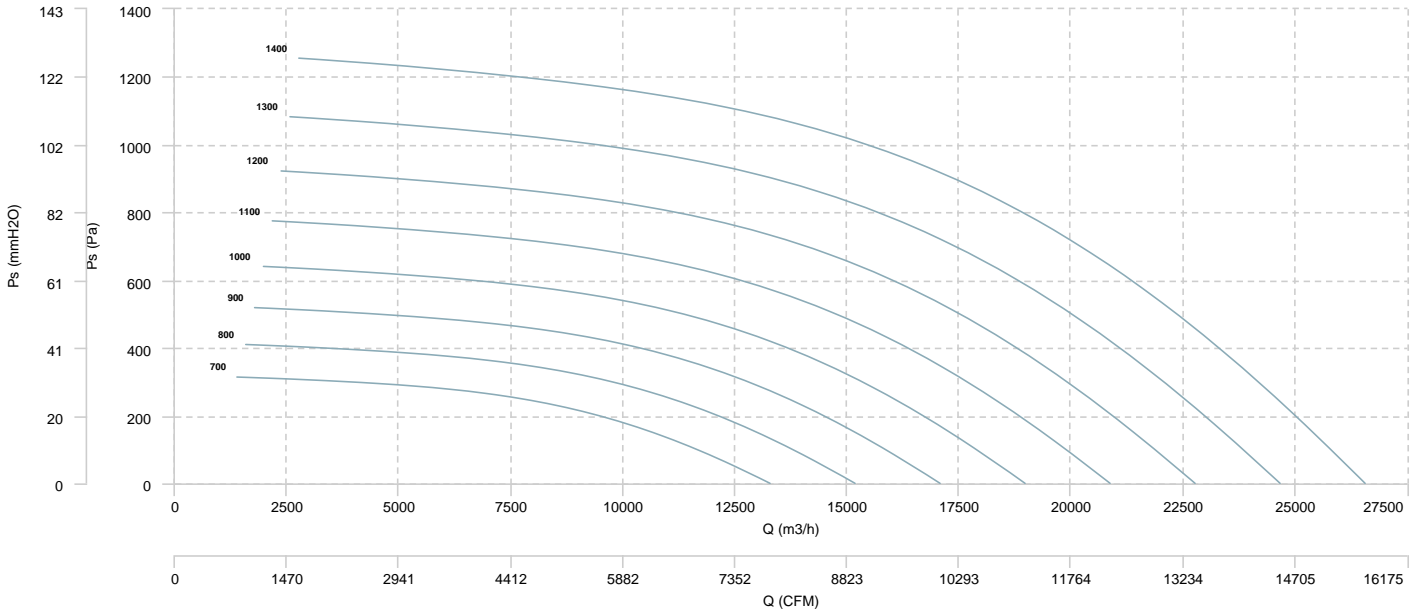


AIR FLOW - MECHANICAL POWER

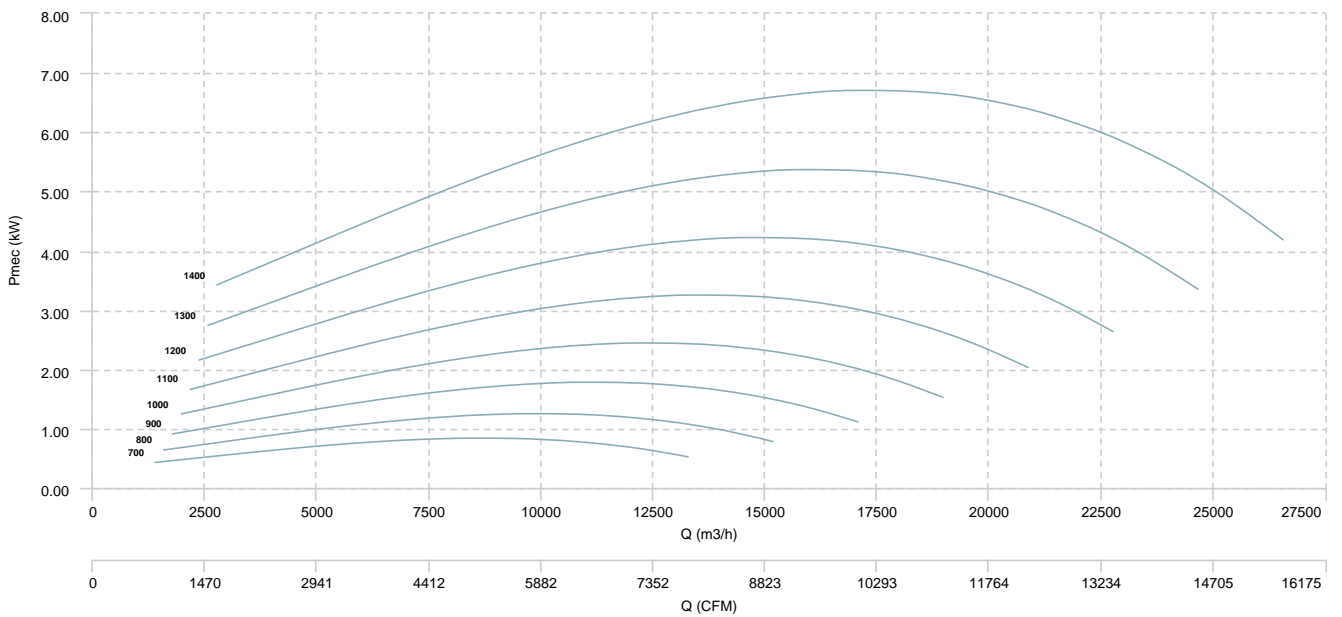


HMRT 710

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
HMRT 400 (900 RPM)	Inlet	46	54	56	60	60	57	53	51	66
HMRT 450 (900 RPM)	Inlet	49	57	62	65	66	64	61	58	71
HMRT 500 (900 RPM)	Inlet	52	60	65	68	69	67	64	61	75
HMRT 560 (700 RPM)	Inlet	49	57	61	65	66	64	61	58	71
HMRT 630 (700 RPM)	Inlet	52	60	65	68	69	68	64	62	75
HMRT 710 (700 RPM)	Inlet	57	65	70	73	74	72	69	66	79

Notes:

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

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