

HMA



LONG CASE VARIABLE PITCHBLADES

MANUFACTURING FEATURES:

- Reinforced fan casing manufactured in rolling steel sheet.
- Motor-impeller modular assembly for complete versatility.
- Polyester powder finishing coat.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz for single phase motors, 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers 1 speed and 400V for 2 speed motors.
- HM: Polypropylene impeller (A2 profile) or polyamide impeller reinforced with fibreglass (other profiles) with variable pitch angle
- HMA: Cast aluminium impeller with variable pitch angle.

APPLICATIONS:

Designed for inline installation, they are suitable for:

- Air renewal in buildings and industries.
- Smoke extraction (max 50-60°C).
- Maximum working temperature: 1ph 50°C, 3ph 60°C.

UNDER REQUEST:

- 100% reversible impeller.
- 60Hz fans and special voltages.
- Hot-dipped galvanised or stainless steel housing.
- Fan to move air up to 100°C.

Accessories



AC



AVR



AVS



BA-400



BAD



INT



JE 45



KIT TE



KIT TM



PO



RP



SFC



**SIL-C /
SIL-CN**

Technical data

Single-phase motor / 2 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 M2 (A0:6)	25° - 40°	0,55	1,10	6.810	60	12	1

Single-phase motor / 4 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 M4 (A0:6)	35° - 40°	0,12	0,12	3.440	42	12	1
	HMA 40 M4 (A0:6)	35° - 40°	0,25	0,25	4.670	46	14	1
	HMA 45 M4 (A0:6)	35° - 40°	0,25	0,25	6.360	47	17	1
	HMA 45 M4 (A5:6)	25° - 45°	0,25	0,55	6.760	51	19	1
	HMA 50 M4 (A0:6)	35° - 40°	0,37	0,37	8.140	48	24	1
	HMA 50 M4 (A5:6)	25° - 45°	0,25	0,75	9.420	54	26	1
	HMA 56 M4 (A2:6)	20° - 45°	0,37	0,75	13.910	56	33	1
	HMA 56 M4 (A2:9)	20° - 45°	0,37	0,75	14.710	57	34	1
	HMA 56 M4 (A5:6)	20° - 45°	0,37	0,75	14.640	70	33	1
	HMA 63 M4 (A2:6)	20° - 30°	0,55	0,75	13.810	57	36	1
	HMA 63 M4 (A2:9)	20° - 27,5°	0,55	0,75	12.510	59	37	1
	HMA 63 M4 (A5:6)	20° - 25°	0,55	0,75	12.020	63	37	1
	HMA 71 M4 (A2:6)	20° - 25°	0,75	0,75	15.510	63	42	1
	HMA 71 M4 (A2:9)	20° - 20°	0,75	0,75	12.080	65	43	1
	HMA 71 M4 (A5:6)	20° - 20°	0,75	0,75	13.640	66	43	1

Three-phase motor / 2 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 T2 (A0:6)	25° - 40°	0,55	1,10	6.810	60	12	2
	HMA 40 T2 (A0:6)	25° - 40°	0,75	1,10	9.270	62	14	2
	HMA 45 T2 (A0:6)	25° - 35°	1,50	2,20	11.800	68	17	2
	HMA 50 T2 (A9:4)	25° - 50°	1,10	4,00	18.710	71	21,60	2
	HMA 50 T2 (A9:8)	25° - 50°	1,50	4,00	21.510	71	22,30	2
	HMA 56 T2 (A9:5)	25° - 50°	2,20	7,50	26.110	69	27,20	2

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 56 T2 (A9:10)	25° - 50°	3,00	7,50	30.010	69	28	2

Three-phase motor / 4 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 T4 (A0:6)	35° - 40°	0,12	0,12	3.440	42	12	2
	HMA 40 T4 (A0:6)	35° - 40°	0,25	0,25	4.670	46	14	2
	HMA 45 T4 (A0:6)	35° - 40°	0,25	0,25	6.360	47	17	2
	HMA 45 T4 (A5:6)	25° - 45°	0,25	0,55	6.760	51	19	2
	HMA 50 T4 (A0:6)	35° - 40°	0,37	0,37	8.140	48	24	2
	HMA 50 T4 (A5:6)	25° - 45°	0,25	0,75	9.420	54	26	2
	HMA 56 T4 (A2:6)	20° - 45°	0,37	2,20	13.910	56	33	2
	HMA 56 T4 (A2:9)	20° - 45°	0,37	3,00	14.710	57	34	2
	HMA 56 T4 (A5:6)	20° - 45°	0,37	2,20	14.640	70	33	2
	HMA 63 T4 (A2:6)	20° - 45°	0,55	3,00	20.110	58	36	2
	HMA 63 T4 (A2:9)	20° - 45°	0,55	3,00	21.810	60	37	2
	HMA 63 T4 (A5:6)	20° - 45°	0,55	3,00	20.350	74	37	2
	HMA 71 T4 (A2:6)	20° - 45°	0,75	4,00	27.910	63	42	2
	HMA 71 T4 (A2:9)	20° - 45°	0,75	4,00	30.310	65	43	2
	HMA 71 T4 (A5:6)	20° - 45°	0,75	4,00	27.520	79	43	2
	HMA 80 T4 (A2:6)	20° - 45°	1,10	7,50	39.010	63	51	2
	HMA 80 T4 (A2:9)	20° - 45°	1,10	7,50	41.810	71	52	2
	HMA 80 T4 (A5:6)	20° - 40°	1,10	4,00	34.470	71	52	2
	HMA 90 T4 (A6:3)	20° - 42°	3,00	15,00	50.950	72	108	2
	HMA 90 T4 (A6:6)	20° - 42°	3,00	15,00	58.310	73	113	2
	HMA 100 T4 (A6:3)	20° - 42°	5,50	22,00	69.340	72	135	2
	HMA 100 T4 (A6:6)	20° - 42°	5,50	22,00	81.210	76	141	2
	HMA 112 T4 (A6:3)	20° - 42°	5,50	37,00	92.050	74	172	2
	HMA 112 T4 (A6:6)	20° - 42°	5,50	37,00	109.010	78	179	2
	HMA 125 T4 (A7:4)	20° - 42°	5,50	45,00	132.010	83	197	2
	HMA 125 T4 (A7:8)	20° - 42°	11,00	45,00	151.010	88	206	2

Three-phase motor / 6 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 T6 (A0:6)	35° - 40°	0,12	0,12	2.230	33	12	2
	HMA 40 T6 (A0:6)	35° - 40°	0,18	0,18	3.030	37	14	2
	HMA 45 T6 (A0:6)	35° - 40°	0,12	0,18	4.120	38	17	2
	HMA 45 T6 (A5:6)	25° - 45°	0,18	0,18	4.380	42	19	2
	HMA 50 T6 (A0:6)	35° - 40°	0,18	0,18	5.270	39	24	2
	HMA 50 T6 (A5:6)	25° - 45°	0,18	0,25	6.100	45	26	2
	HMA 56 T6 (A2:6)	20° - 45°	0,18	0,55	9.000	47	33	2
	HMA 56 T6 (A2:9)	20° - 45°	0,18	0,55	9.520	48	34	2
	HMA 56 T6 (A5:6)	20° - 45°	0,18	0,55	9.760	67	33	2
	HMA 63 T6 (A2:6)	20° - 45°	0,37	0,75	13.010	49	36	2
	HMA 63 T6 (A2:9)	20° - 45°	0,37	0,75	14.110	51	37	2
	HMA 63 T6 (A5:6)	20° - 45°	0,37	0,75	13.570	71	37	2
	HMA 71 T6 (A2:6)	20° - 45°	0,37	1,10	18.110	53	42	2
	HMA 71 T6 (A2:9)	20° - 45°	0,37	1,10	19.610	56	43	2
	HMA 71 T6 (A5:6)	20° - 45°	0,37	1,10	18.350	76	43	2
	HMA 80 T6 (A2:6)	20° - 45°	0,75	2,20	25.310	54	51	2
	HMA 80 T6 (A2:9)	20° - 45°	0,75	2,20	27.110	61	52	2
	HMA 80 T6 (A5:6)	20° - 45°	0,75	2,20	25.190	72	52	2
	HMA 90 T6 (A6:3)	20° - 42°	1,50	4,00	33.010	62	108	2
	HMA 90 T6 (A6:6)	20° - 42°	1,50	4,00	37.810	63	113	2
	HMA 100 T6 (A6:3)	20° - 42°	3,00	7,50	44.970	63	135	2
	HMA 100 T6 (A6:6)	20° - 42°	3,00	7,50	52.610	67	141	2
	HMA 112 T6 (A6:3)	20° - 42°	3,00	11,00	59.660	65	172	2
	HMA 112 T6 (A6:6)	20° - 42°	3,00	11,00	70.510	69	179	2
	HMA 125 T6 (A7:4)	20° - 42°	3,00	15,00	85.410	73	197	2
	HMA 125 T6 (A7:8)	20° - 42°	3,00	15,00	98.110	79	206	2

2 speed motor / 4/8 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 35 T4/T8 (A0:6)	35° - 40°	0,25	0,25	3.440	42	12	3
	HMA 40 T4/T8 (A0:6)	35° - 40°	0,25	0,25	4.670	46	14	3
	HMA 45 T4/T8 (A0:6)	35° - 40°	0,25	0,25	6.360	47	17	3
	HMA 45 T4/T8 (A5:6)	25° - 45°	0,25	0,55	6.760	51	19	3
	HMA 50 T4/T8 (A0:6)	35° - 40°	0,33	0,33	8.140	48	24	3
	HMA 50 T4/T8 (A5:6)	25° - 45°	0,25	0,75	9.420	54	26	3

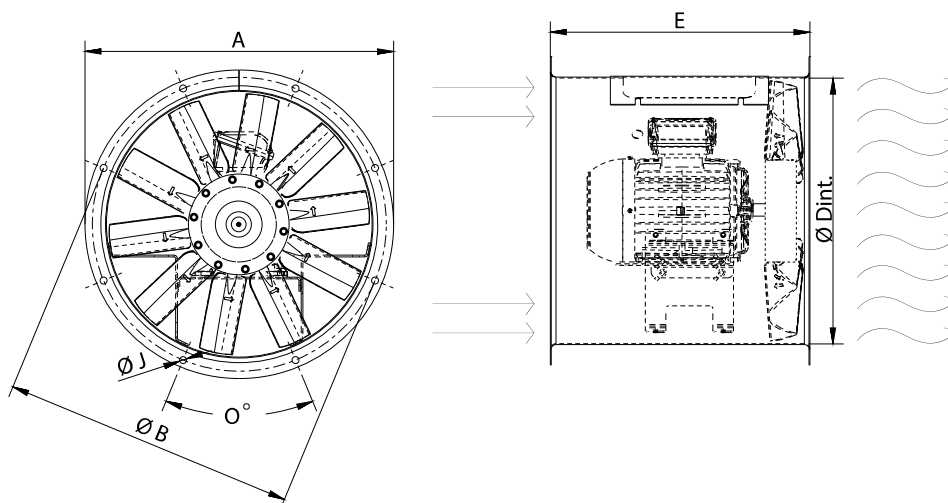
Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HMA 56 T4/T8 (A2:6)	20° - 45°	0,33	2,20	13.910	56	33	3
	HMA 56 T4/T8 (A2:9)	20° - 45°	0,33	3,00	14.710	57	34	3
	HMA 56 T4/T8 (A5:6)	20° - 45°	0,33	2,20	14.640	70	33	3
	HMA 63 T4/T8 (A2:6)	20° - 45°	0,55	3,00	20.110	58	36	3
	HMA 63 T4/T8 (A2:9)	20° - 45°	0,55	3,00	21.810	60	37	3
	HMA 63 T4/T8 (A5:6)	20° - 45°	0,55	3,00	20.350	74	37	3
	HMA 71 T4/T8 (A2:6)	20° - 45°	0,75	4,00	27.910	63	42	3
	HMA 71 T4/T8 (A2:9)	20° - 45°	0,75	4,00	30.310	65	43	3
	HMA 71 T4/T8 (A5:6)	20° - 45°	0,75	4,00	27.520	79	43	3
	HMA 80 T4/T8 (A2:6)	20° - 45°	1,10	7,50	39.010	63	51	3
	HMA 80 T4/T8 (A2:9)	20° - 45°	1,10	7,50	41.810	71	52	3
	HMA 80 T4/T8 (A5:6)	20° - 45°	1,10	4,00	37.780	76	52	3
	HMA 90 T4/T8 (A6:3)	20° - 42°	3,00	15,00	50.950	72	108	3
	HMA 90 T4/T8 (A6:6)	20° - 42°	3,00	15,00	58.310	73	113	3
	HMA 100 T4/T8 (A6:3)	20° - 42°	5,50	20,00	69.340	72	135	3
	HMA 100 T4/T8 (A6:6)	20° - 42°	5,50	20,00	81.210	76	141	3
	HMA 112 T4/T8 (A6:3)	20° - 42°	5,50	37,00	92.050	74	172	3
	HMA 112 T4/T8 (A6:6)	20° - 42°	5,50	37,00	109.010	78	179	3
	HMA 125 T4/T8 (A7:4)	20° - 42°	7,50	44,00	132.010	83	197	3
	HMA 125 T4/T8 (A7:8)	20° - 42°	11,00	44,00	151.010	88	206	3

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



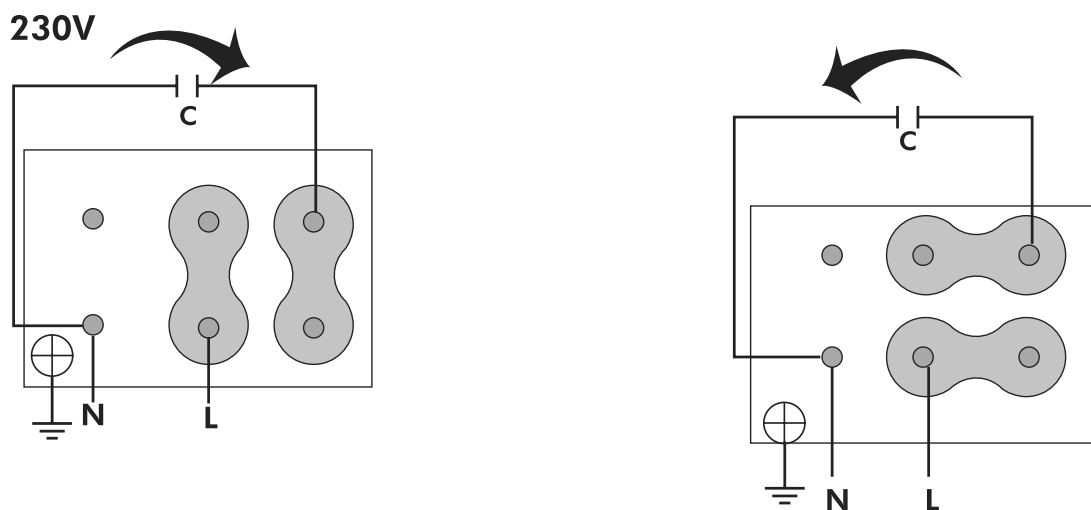
Model	E	O	ØA	ØB	ØD	ØJ
HMA 35 M2 (A0:6)	350	8x45°	434	395	365	10
HMA 35 M4 (A0:6)	350	8x45°	434	395	365	10
HMA 35 T2 (A0:6)	350	8x45°	434	395	365	10
HMA 35 T4 (A0:6)	350	8x45°	434	395	365	10
HMA 35 T6 (A0:6)	350	8x45°	434	395	365	10
HMA 35 T4/T8 (A0:6)	350	8x45°	434	395	365	10
HMA 40 M4 (A0:6)	440	8x45°	472	450	403	12
HMA 40 T2 (A0:6)	440	8x45°	472	450	403	12
HMA 40 T4 (A0:6)	440	8x45°	472	450	403	12
HMA 40 T6 (A0:6)	440	8x45°	472	450	403	12
HMA 40 T4/T8 (A0:6)	440	8x45°	472	450	403	12
HMA 45 M4 (A0:6)	455	8X45°	525	500	452	12
HMA 45 M4 (A5:6)	455	8X45°	525	500	452	12
HMA 45 T2 (A0:6)	455	8X45°	525	500	452	12
HMA 45 T4 (A0:6)	455	8X45°	525	500	452	12
HMA 45 T4 (A5:6)	455	8X45°	525	500	452	12
HMA 45 T6 (A0:6)	455	8X45°	525	500	452	12
HMA 45 T6 (A5:6)	455	8X45°	525	500	452	12
HMA 45 T4/T8 (A0:6)	455	8X45°	525	500	452	12
HMA 45 T4/T8 (A5:6)	455	8X45°	525	500	452	12
HMA 50 M4 (A0:6)	440	12x30°	600	560	504	12
HMA 50 M4 (A5:6)	440	12x30°	600	560	504	12
HMA 50 T2 (A9:4)	540	12x30°	600	560	504	12
HMA 50 T2 (A9:8)	540	12x30°	600	560	504	12
HMA 50 T4 (A0:6)	440	12x30°	600	560	504	12

Model	E	O	ØA	ØB	ØD	ØJ
HMA 50 T4 (A5:6)	440	12x30 ^º	600	560	504	12
HMA 50 T6 (A0:6)	440	12x30 ^º	600	560	504	12
HMA 50 T6 (A5:6)	440	12x30 ^º	600	560	504	12
HMA 50 T4/T8 (A0:6)	440	12x30 ^º	600	560	504	12
HMA 50 T4/T8 (A5:6)	440	12x30 ^º	600	560	504	12
HMA 56 M4 (A2:6)	560	12X30 ^º	646	620	559	12
HMA 56 M4 (A2:9)	560	12X30 ^º	646	620	559	12
HMA 56 M4 (A5:6)	560	12X30 ^º	646	620	559	12
HMA 56 T2 (A9:5)	560	12x30 ^º	646	620	559	12
HMA 56 T2 (A9:10)	560	12x30 ^º	646	620	559	12
HMA 56 T4 (A2:6)	560	12X30 ^º	646	620	559	12
HMA 56 T4 (A2:9)	560	12X30 ^º	646	620	559	12
HMA 56 T4 (A5:6)	560	12X30 ^º	646	620	559	12
HMA 56 T6 (A2:6)	560	12X30 ^º	646	620	559	12
HMA 56 T6 (A2:9)	560	12X30 ^º	646	620	559	12
HMA 56 T6 (A5:6)	560	12X30 ^º	646	620	559	12
HMA 56 T4/T8 (A2:6)	560	12X30 ^º	646	620	559	12
HMA 56 T4/T8 (A2:9)	560	12X30 ^º	646	620	559	12
HMA 56 T4/T8 (A5:6)	560	12X30 ^º	646	620	559	12
HMA 63 M4 (A2:6)	550	12X30 ^º	725	690	633	12
HMA 63 M4 (A2:9)	550	12X30 ^º	725	690	633	12
HMA 63 M4 (A5:6)	550	12X30 ^º	725	690	633	12
HMA 63 T4 (A2:6)	550	12X30 ^º	725	690	633	12
HMA 63 T4 (A2:9)	550	12X30 ^º	725	690	633	12
HMA 63 T4 (A5:6)	550	12X30 ^º	725	690	633	12
HMA 63 T6 (A2:6)	550	12X30 ^º	725	690	633	12
HMA 63 T6 (A2:9)	550	12X30 ^º	725	690	633	12
HMA 63 T6 (A5:6)	550	12X30 ^º	725	690	633	12
HMA 63 T4/T8 (A2:6)	550	12X30 ^º	725	690	633	12
HMA 63 T4/T8 (A2:9)	550	12X30 ^º	725	690	633	12
HMA 63 T4/T8 (A5:6)	550	12X30 ^º	725	690	633	12
HMA 71 M4 (A2:6)	600	16x22,5 ^º	802	770	715	12
HMA 71 M4 (A2:9)	600	16x22,5 ^º	802	770	715	12
HMA 71 M4 (A5:6)	600	16x22,5 ^º	802	770	715	12
HMA 71 T4 (A2:6)	600	16x22,5 ^º	802	770	715	12
HMA 71 T4 (A2:9)	600	16x22,5 ^º	802	770	715	12
HMA 71 T4 (A5:6)	600	16x22,5 ^º	802	770	715	12
HMA 71 T6 (A2:6)	600	16x22,5 ^º	802	770	715	12
HMA 71 T6 (A2:9)	600	16x22,5 ^º	802	770	715	12
HMA 71 T6 (A5:6)	600	16x22,5 ^º	802	770	715	12

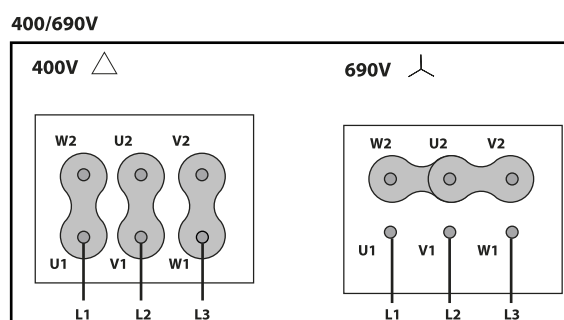
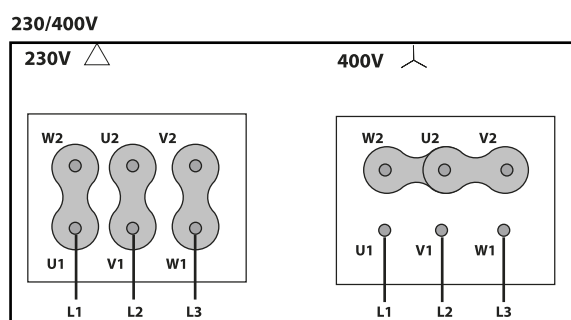
Model	E	O	ØA	ØB	ØD	ØJ
HMA 71 T4/T8 (A2:6)	600	16x22,5º	802	770	715	12
HMA 71 T4/T8 (A2:9)	600	16x22,5º	802	770	715	12
HMA 71 T4/T8 (A5:6)	600	16x22,5º	802	770	715	12
HMA 80 T4 (A2:6)	600	16x22,5º	892	860	801	12
HMA 80 T4 (A2:9)	600	16x22,5º	892	860	801	12
HMA 80 T4 (A5:6)	600	16x22,5º	892	860	801	12
HMA 80 T6 (A2:6)	600	16x22,5º	892	860	801	12
HMA 80 T6 (A2:9)	600	16x22,5º	892	860	801	12
HMA 80 T6 (A5:6)	600	16x22,5º	892	860	801	12
HMA 80 T4/T8 (A2:6)	600	16x22,5º	892	860	801	12
HMA 80 T4/T8 (A2:9)	600	16x22,5º	892	860	801	12
HMA 80 T4/T8 (A5:6)	600	16x22,5º	892	860	801	12
HMA 90 T4 (A6:3)	820	16x22,5º	1000	970	903.5	12
HMA 90 T4 (A6:6)	820	16x22,5º	1000	970	903.5	12
HMA 90 T6 (A6:3)	820	16x22,5º	1000	970	903.5	12
HMA 90 T6 (A6:6)	820	16x22,5º	1000	970	903.5	12
HMA 90 T4/T8 (A6:3)	820	16x22,5º	1000	970	903.5	12
HMA 90 T4/T8 (A6:6)	820	16x22,5º	1000	970	903.5	12
HMA 100 T4 (A6:3)	820	16x22,5º	1115	1070	1013	12
HMA 100 T4 (A6:6)	820	16x22,5º	1115	1070	1013	12
HMA 100 T6 (A6:3)	820	16x22,5º	1115	1070	1013	12
HMA 100 T6 (A6:6)	820	16x22,5º	1115	1070	1013	12
HMA 100 T4/T8 (A6:3)	820	16x22,5º	1115	1070	1013	12
HMA 100 T4/T8 (A6:6)	820	16x22,5º	1115	1070	1013	12
HMA 112 T4 (A6:3)	1000	16x22,5º	1234	1190	1132	12
HMA 112 T4 (A6:6)	1000	16x22,5º	1234	1190	1132	12
HMA 112 T6 (A6:3)	1000	16x22,5º	1234	1190	1132	12
HMA 112 T6 (A6:6)	1000	16x22,5º	1234	1190	1132	12
HMA 112 T4/T8 (A6:3)	1000	16x22,5º	1234	1190	1132	12
HMA 112 T4/T8 (A6:6)	1000	16x22,5º	1234	1190	1132	12
HMA 125 T4 (A7:4)	1000	20x18º	1365	1320	1263	15
HMA 125 T4 (A7:8)	1000	20x18º	1365	1320	1263	15
HMA 125 T6 (A7:4)	1000	20x18º	1365	1320	1263	15
HMA 125 T6 (A7:8)	1000	20x18º	1365	1320	1263	15
HMA 125 T4/T8 (A7:4)	1000	20x18º	1365	1320	1263	15
HMA 125 T4/T8 (A7:8)	1000	20x18º	1365	1320	1263	15

Wiring diagram

Wiring diagram N° 1

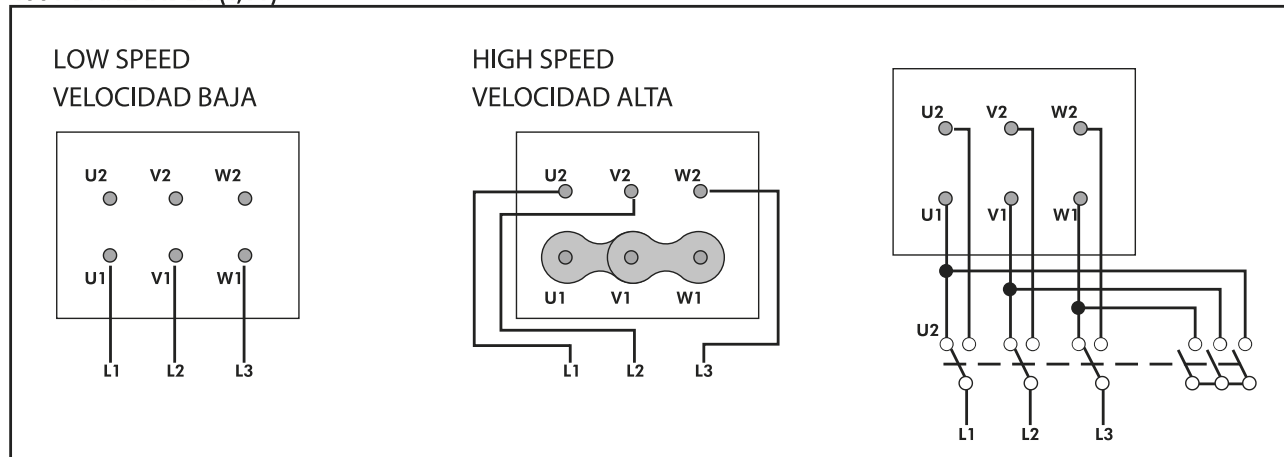


Wiring diagram N° 2



Wiring diagram Nº 3

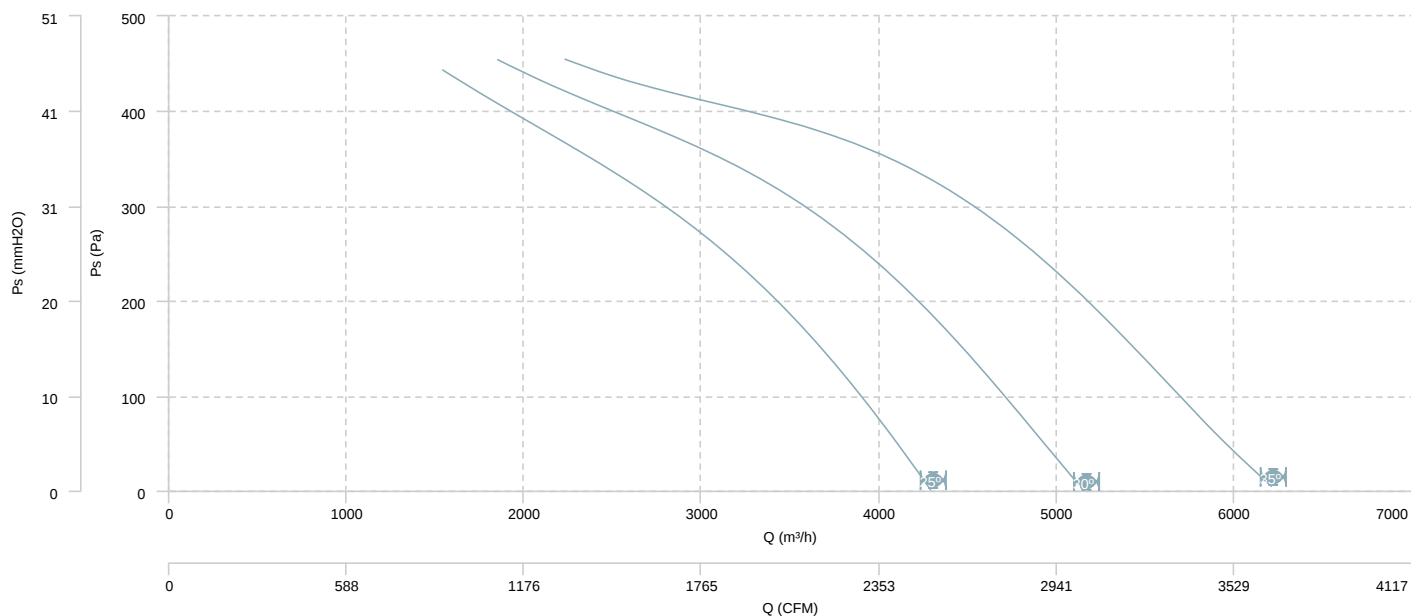
400V DAHLANDER (Y,YY)



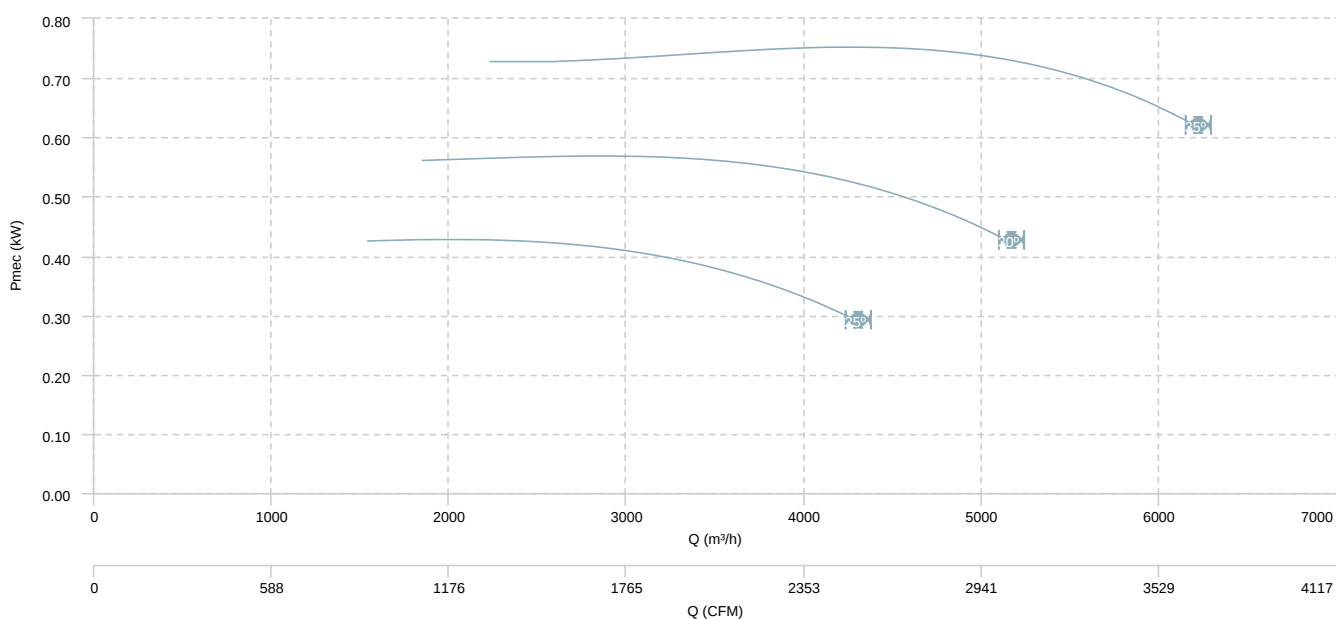
CHARACTERISCTIC CURVE

HMA 35 M2 (A0:6)

AIR FLOW - PRESSURE

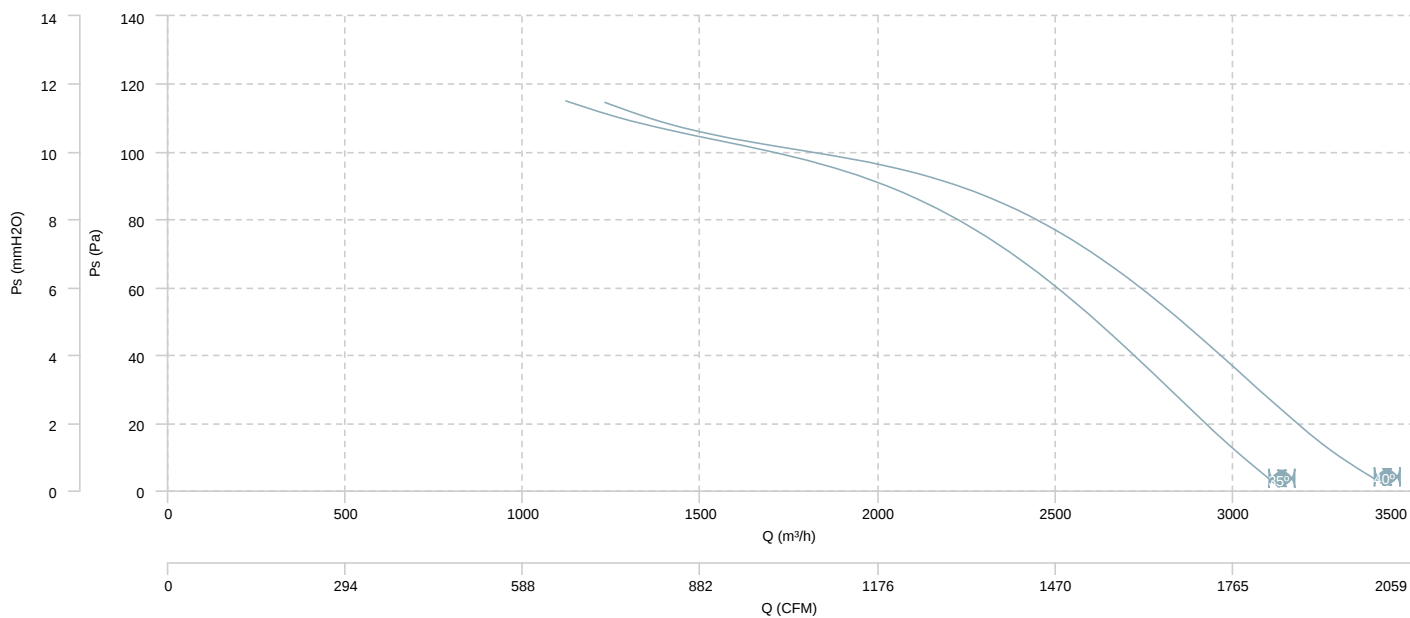


AIR FLOW - MECHANICAL POWER

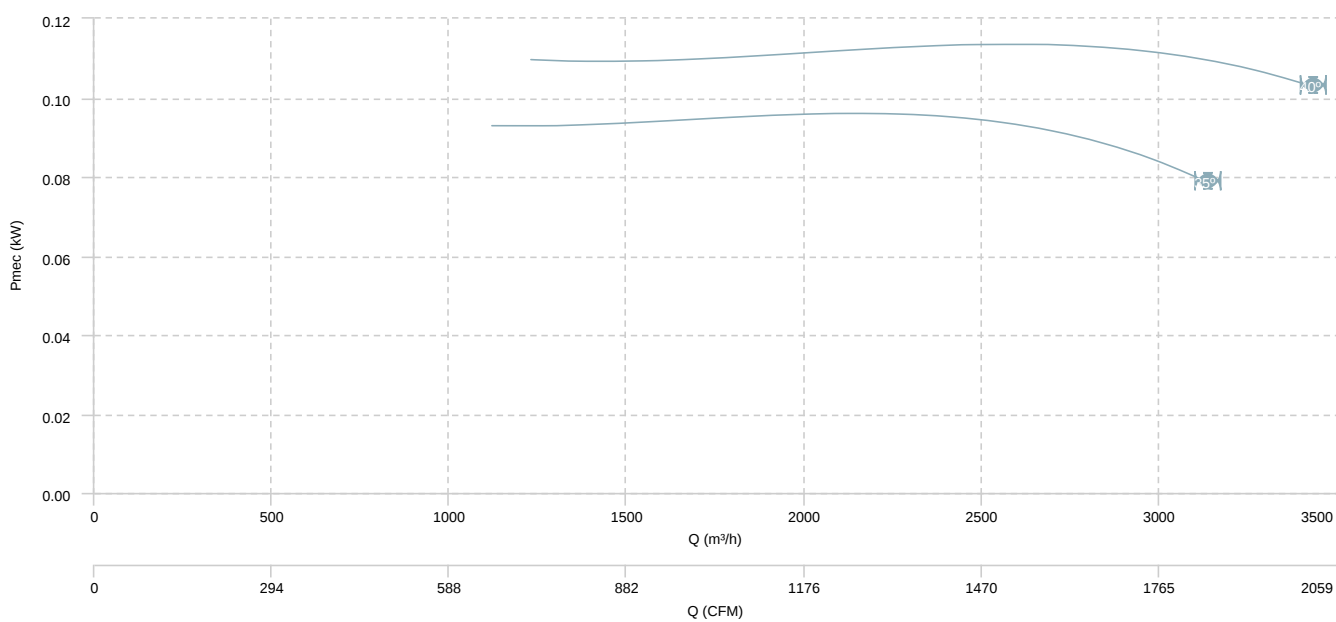


HMA 35 M4 (A0:6)

AIR FLOW - PRESSURE

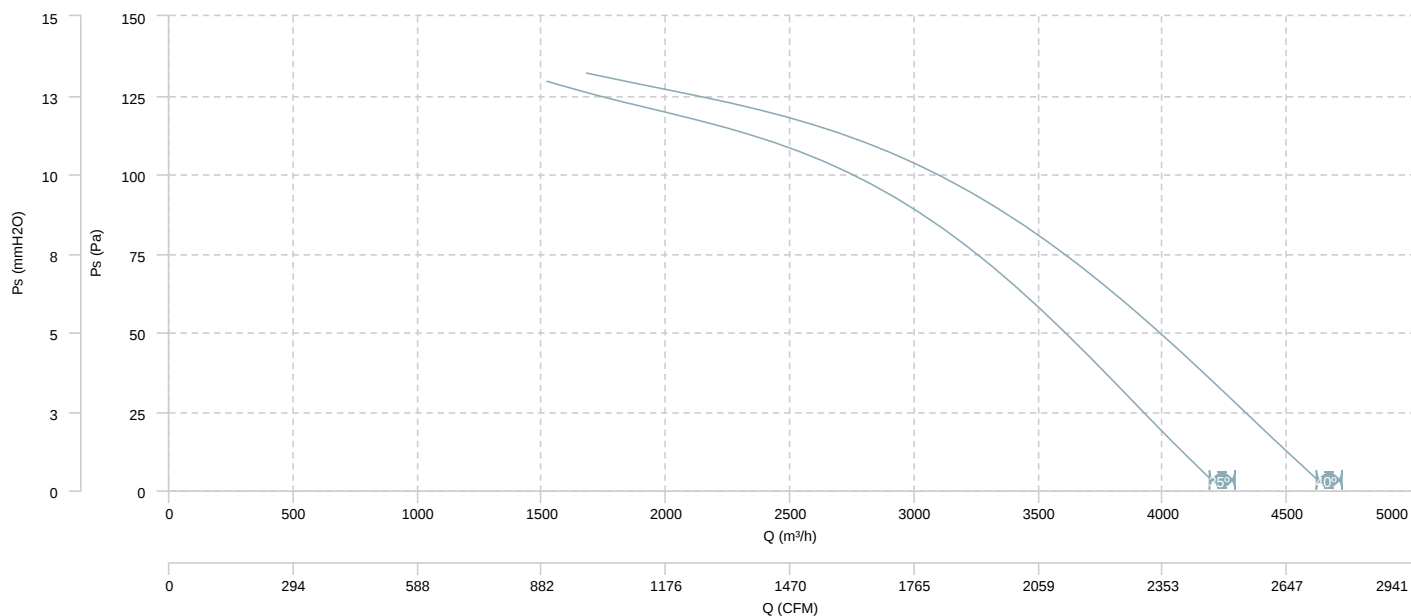


AIR FLOW - MECHANICAL POWER

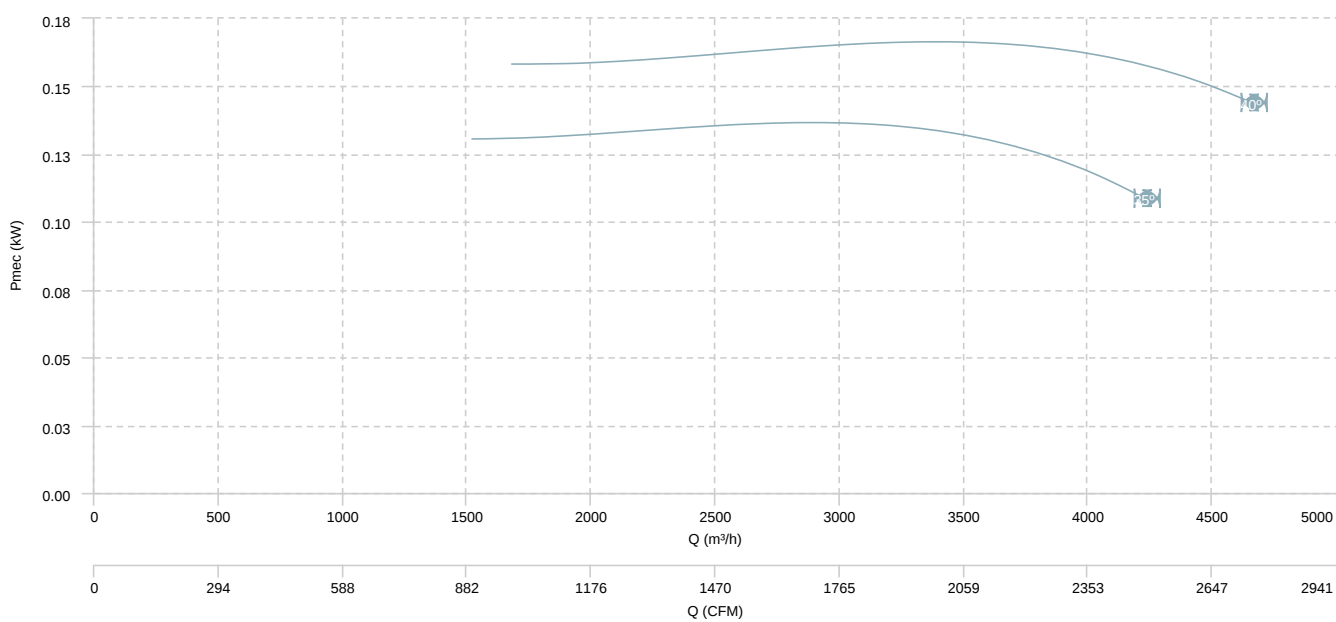


HMA 40 M4 (A0:6)

AIR FLOW - PRESSURE

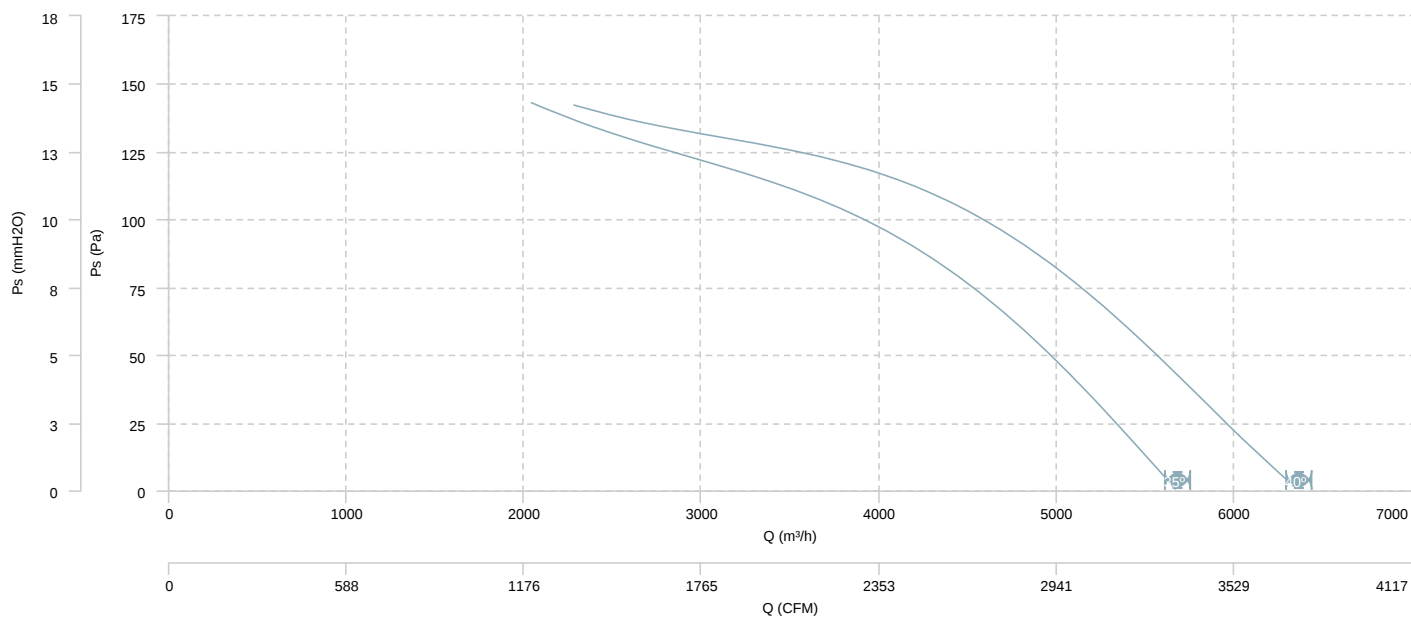


AIR FLOW - MECHANICAL POWER

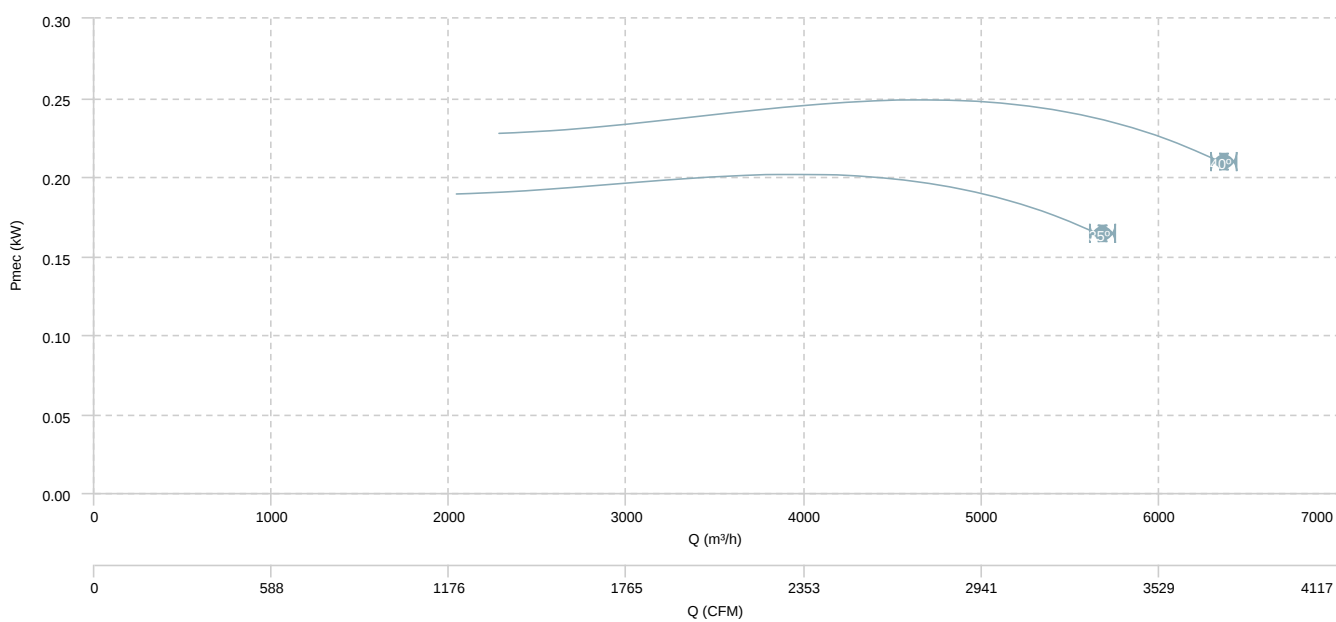


HMA 45 M4 (A0:6)

AIR FLOW - PRESSURE

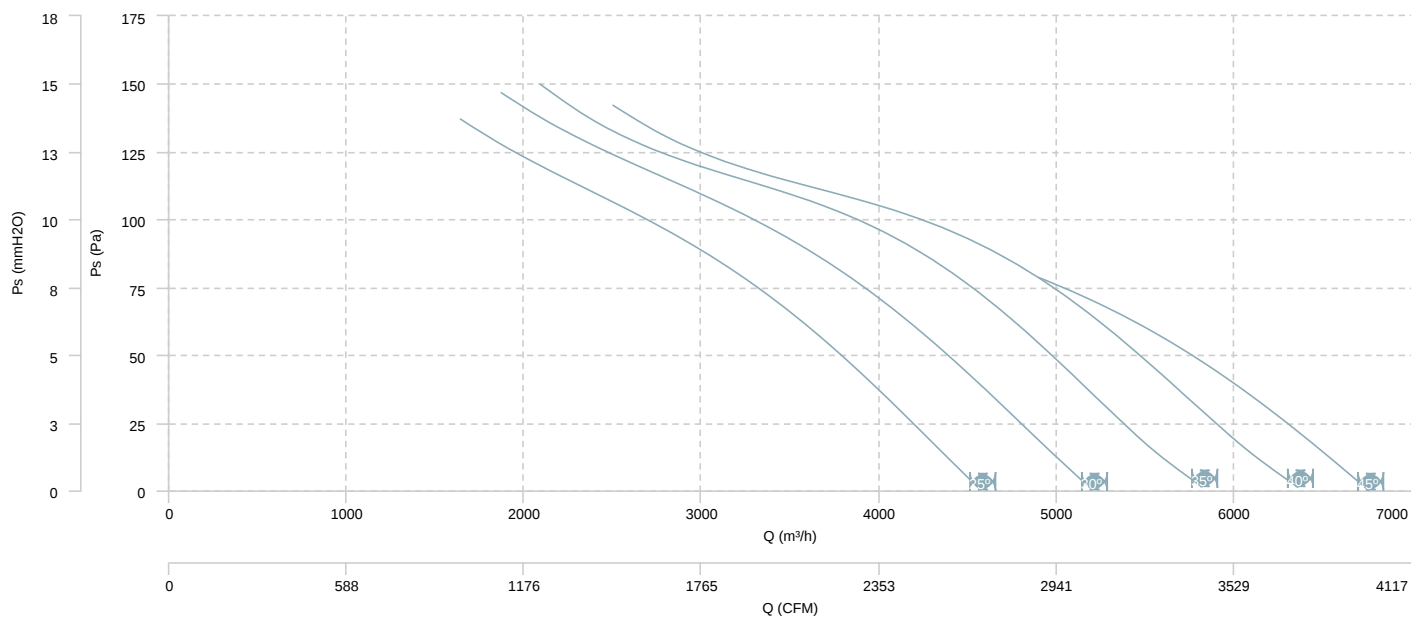


AIR FLOW - MECHANICAL POWER

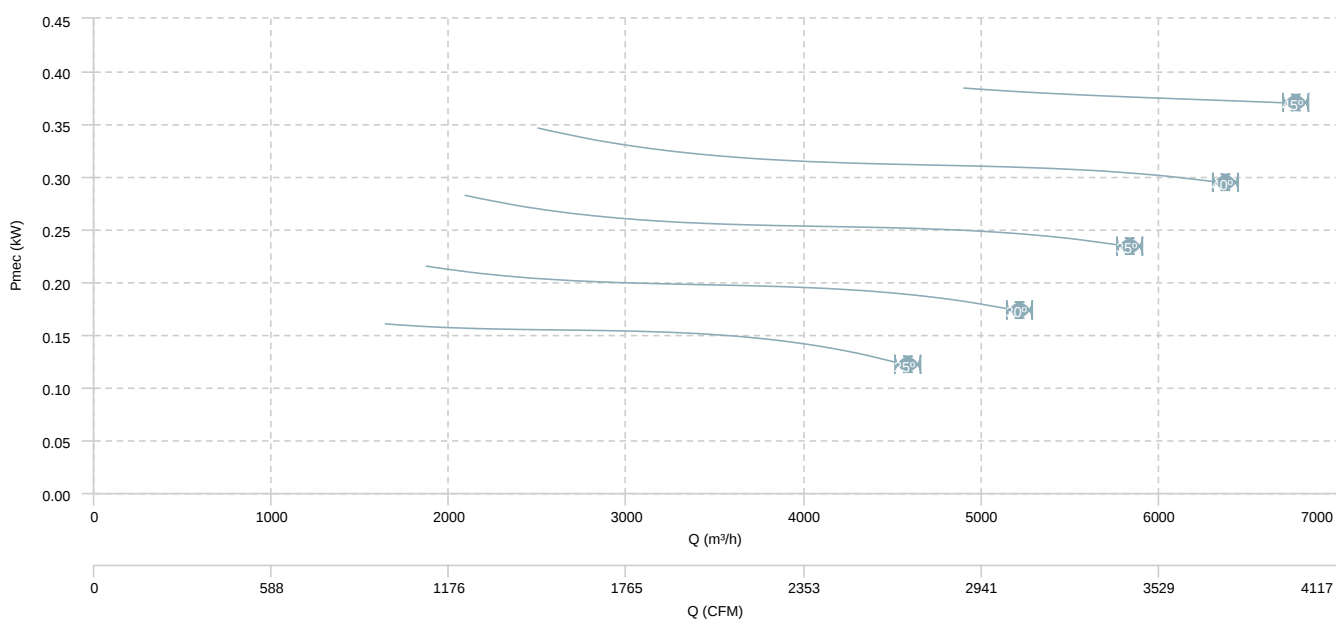


HMA 45 M4 (A5:6)

AIR FLOW - PRESSURE

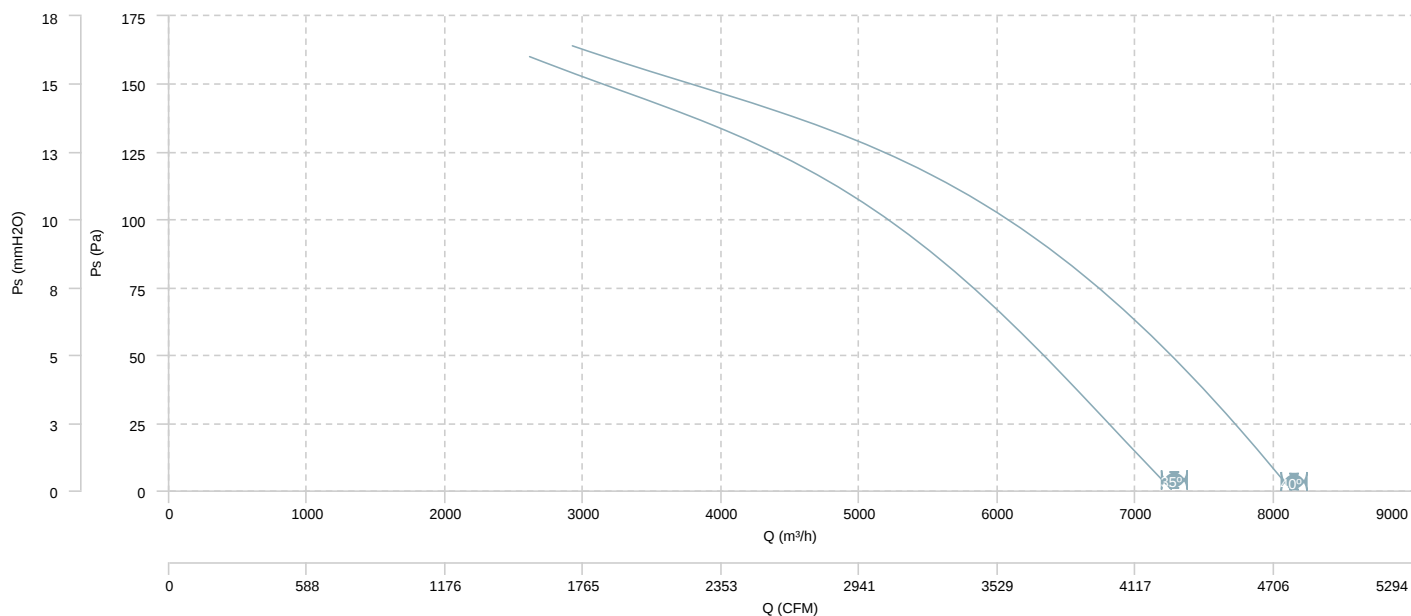


AIR FLOW - MECHANICAL POWER

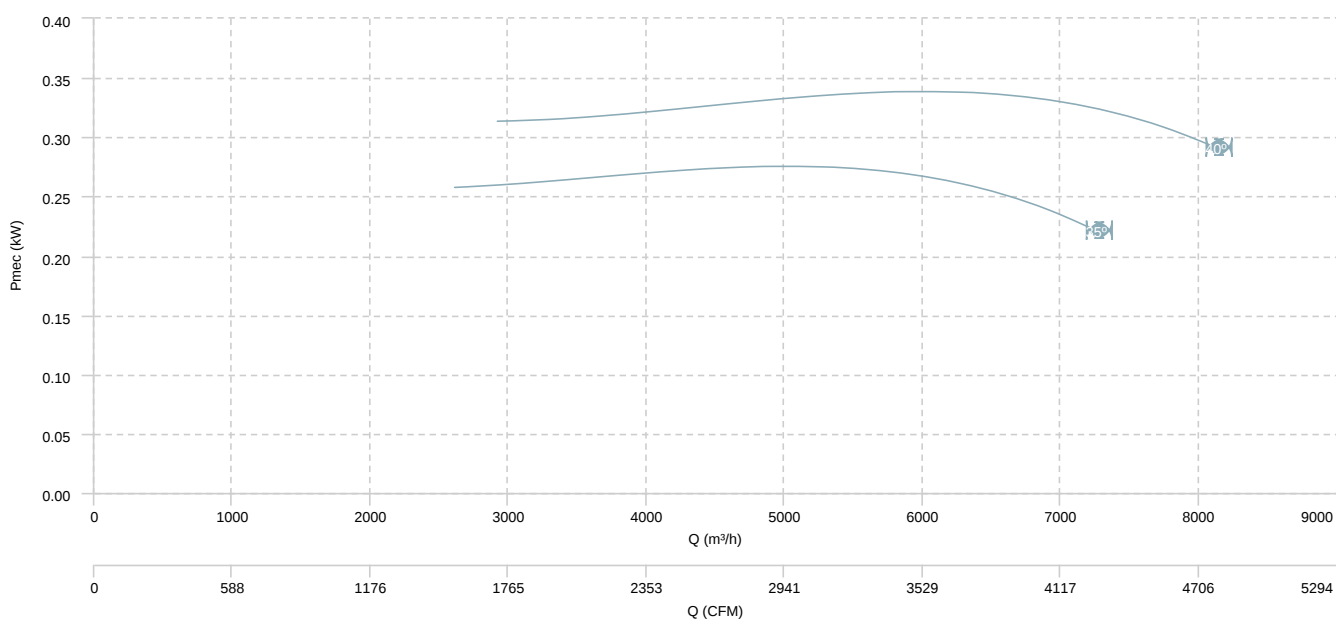


HMA 50 M4 (A0:6)

AIR FLOW - PRESSURE

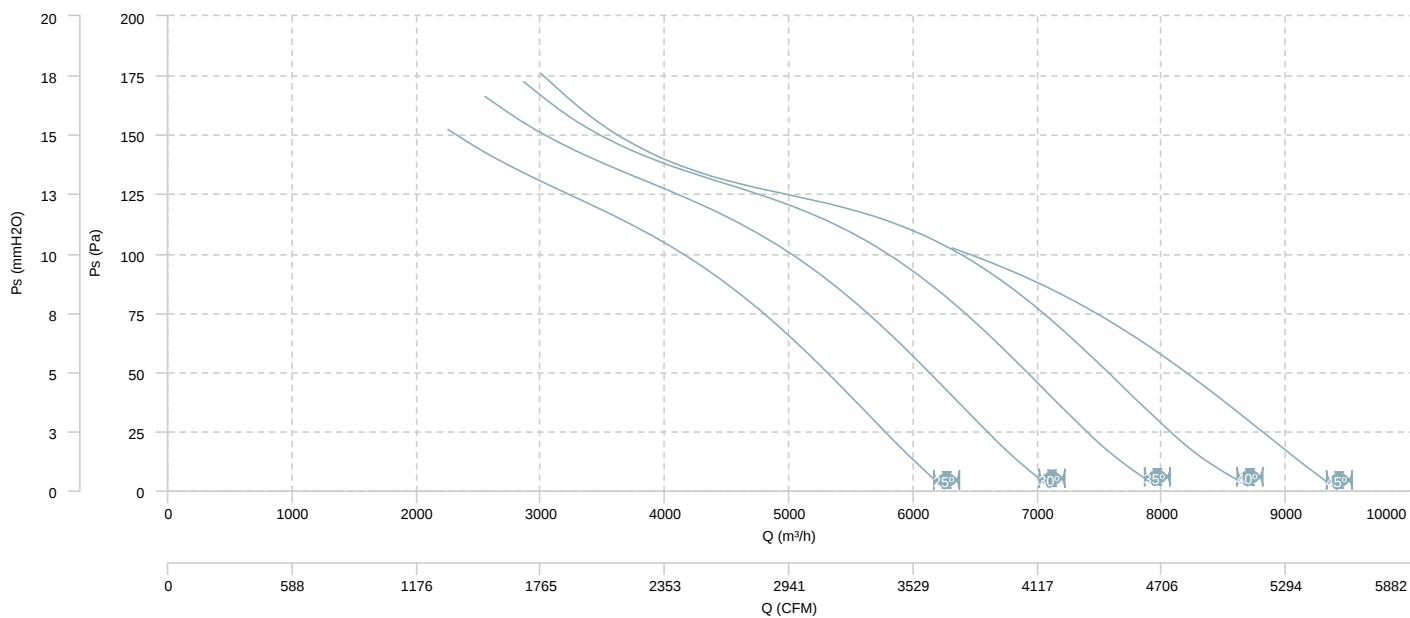


AIR FLOW - MECHANICAL POWER

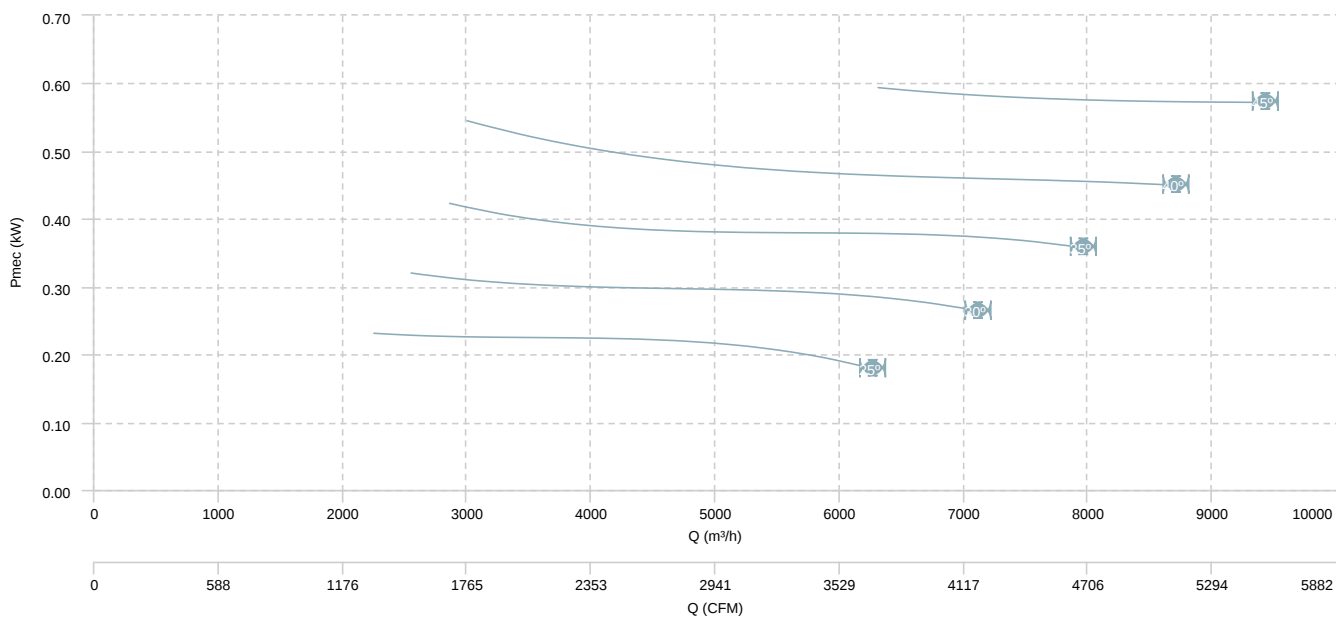


HMA 50 M4 (A5:6)

AIR FLOW - PRESSURE

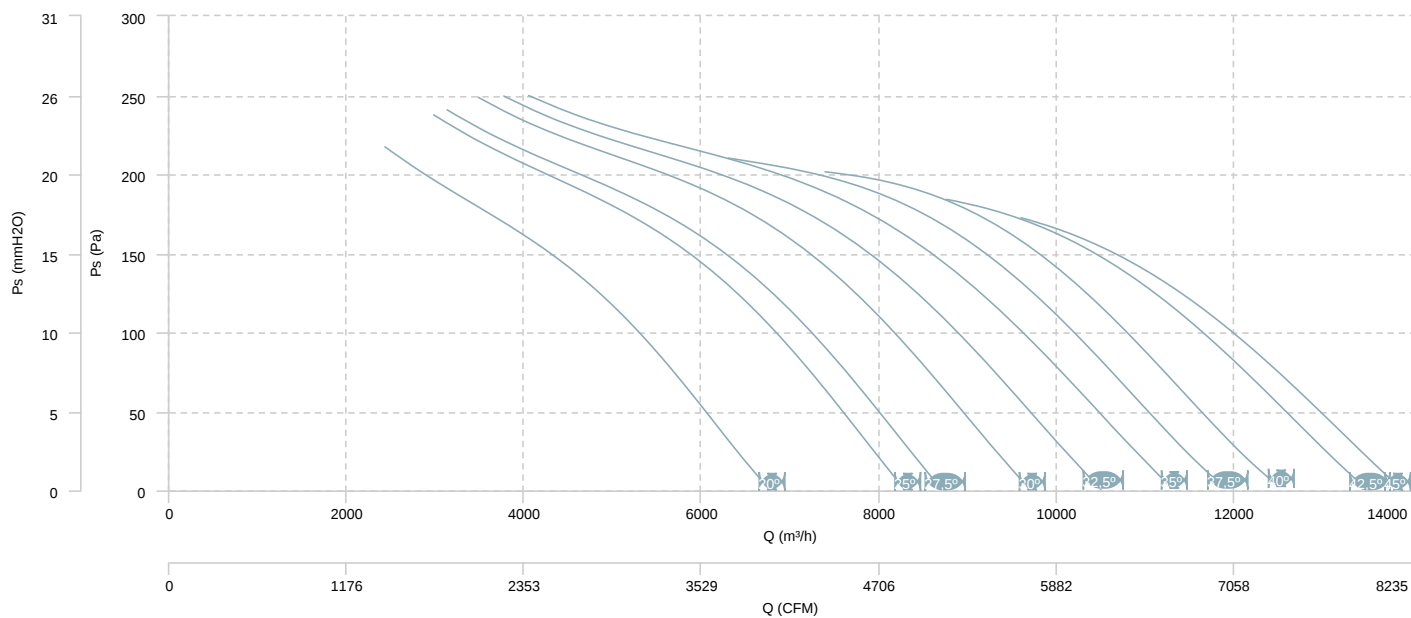


AIR FLOW - MECHANICAL POWER

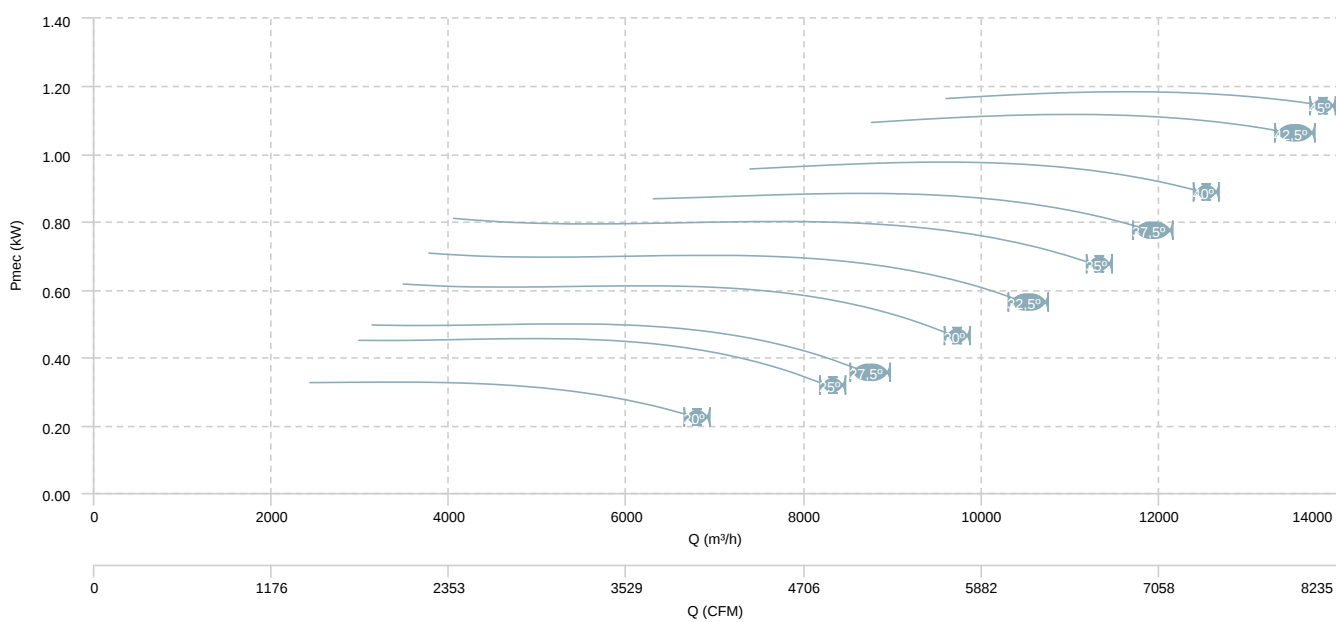


HMA 56 M4 (A2:6)

AIR FLOW - PRESSURE

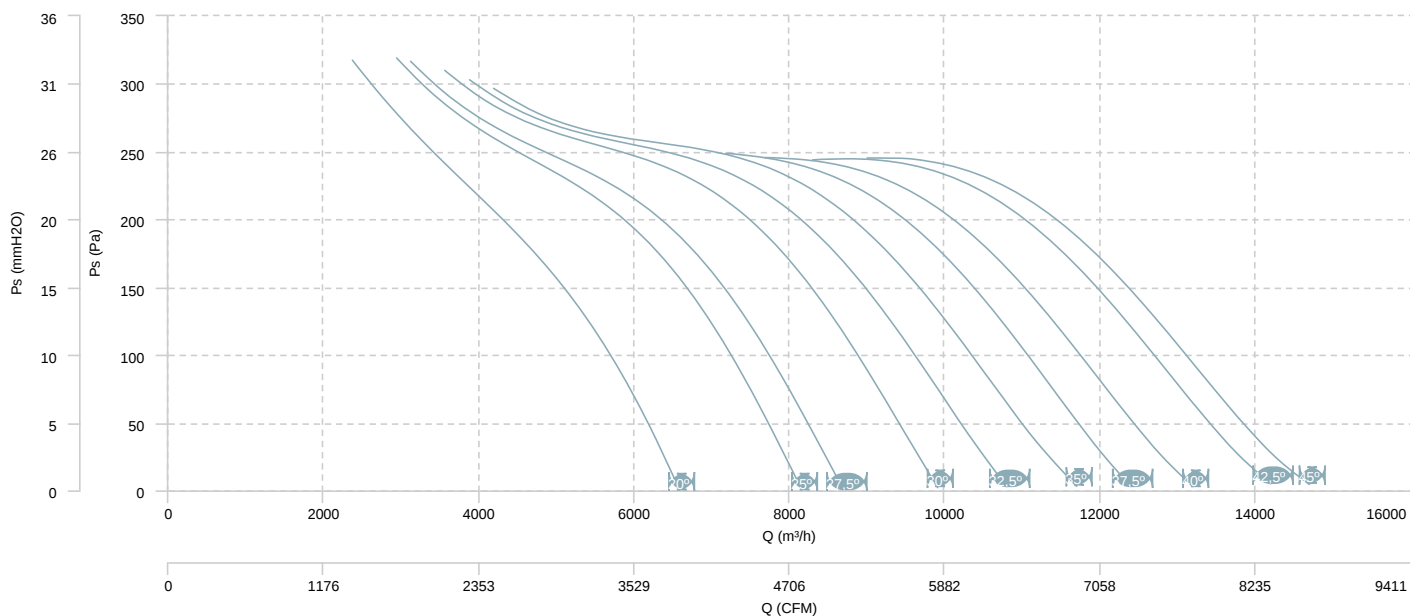


AIR FLOW - MECHANICAL POWER

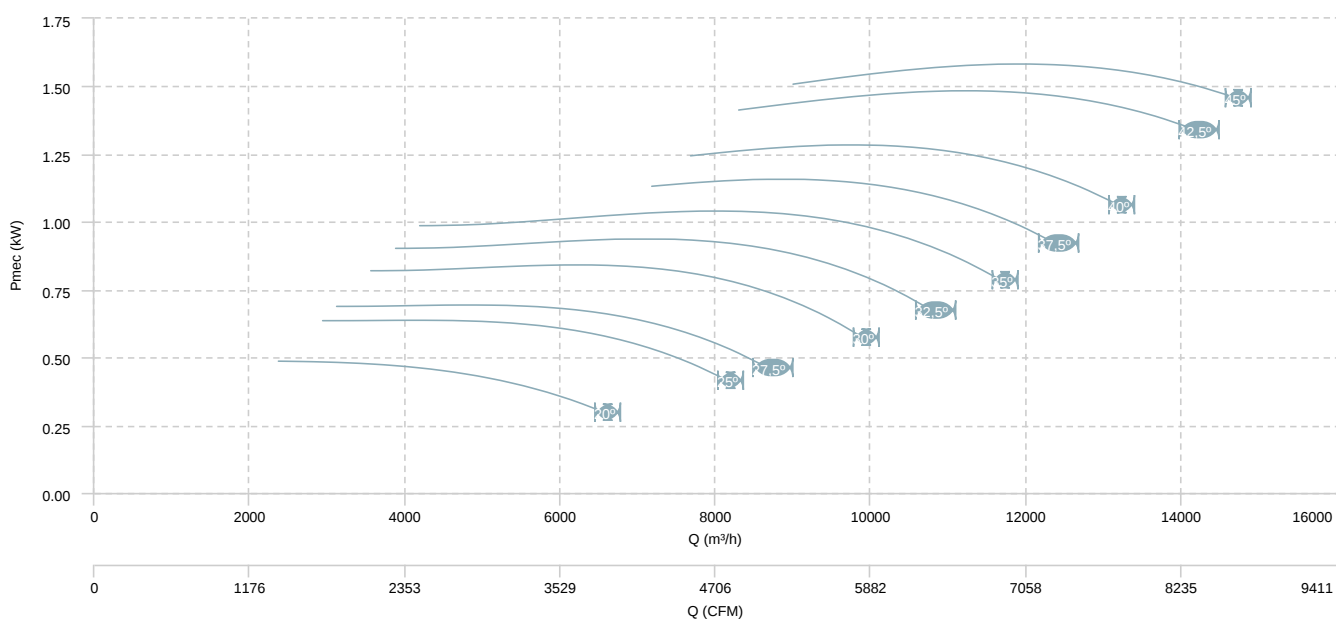


HMA 56 M4 (A2:9)

AIR FLOW - PRESSURE

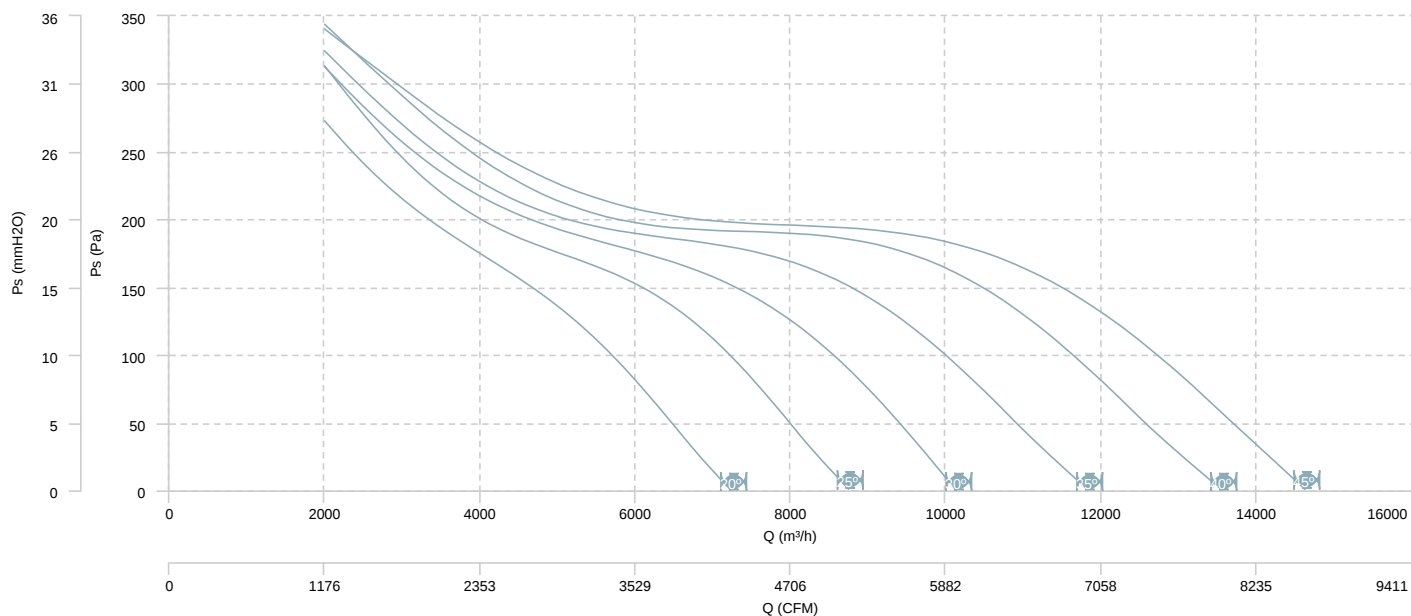


AIR FLOW - MECHANICAL POWER

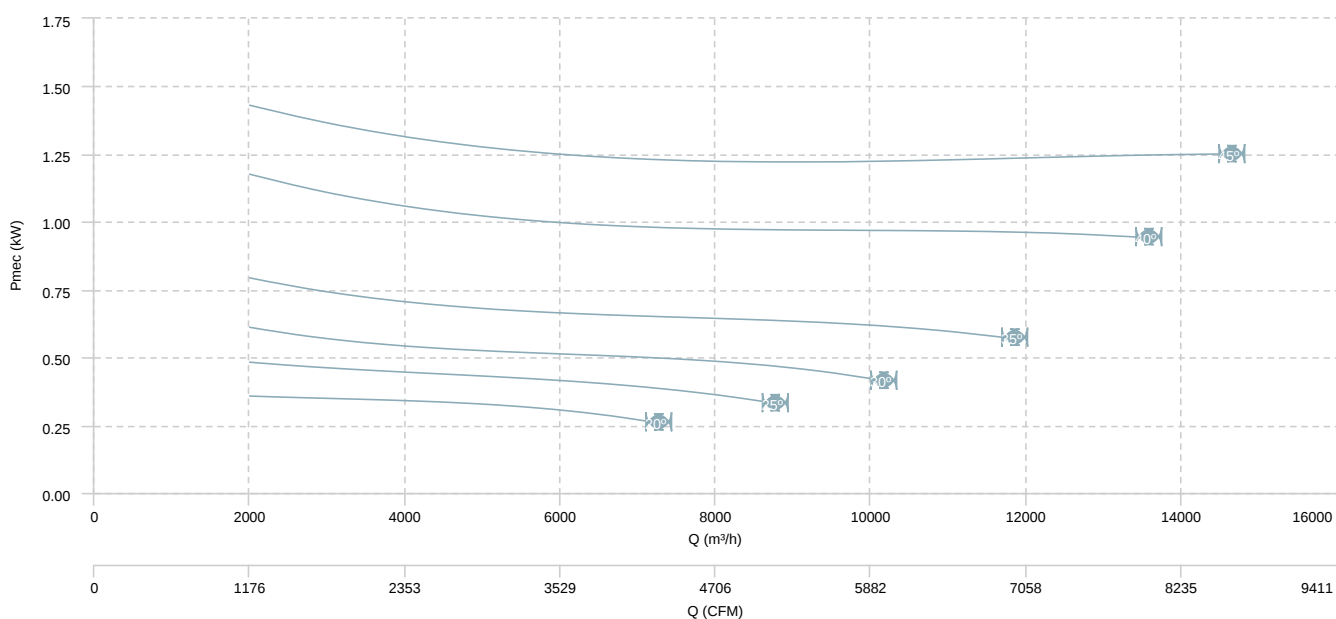


HMA 56 M4 (A5:6)

AIR FLOW - PRESSURE

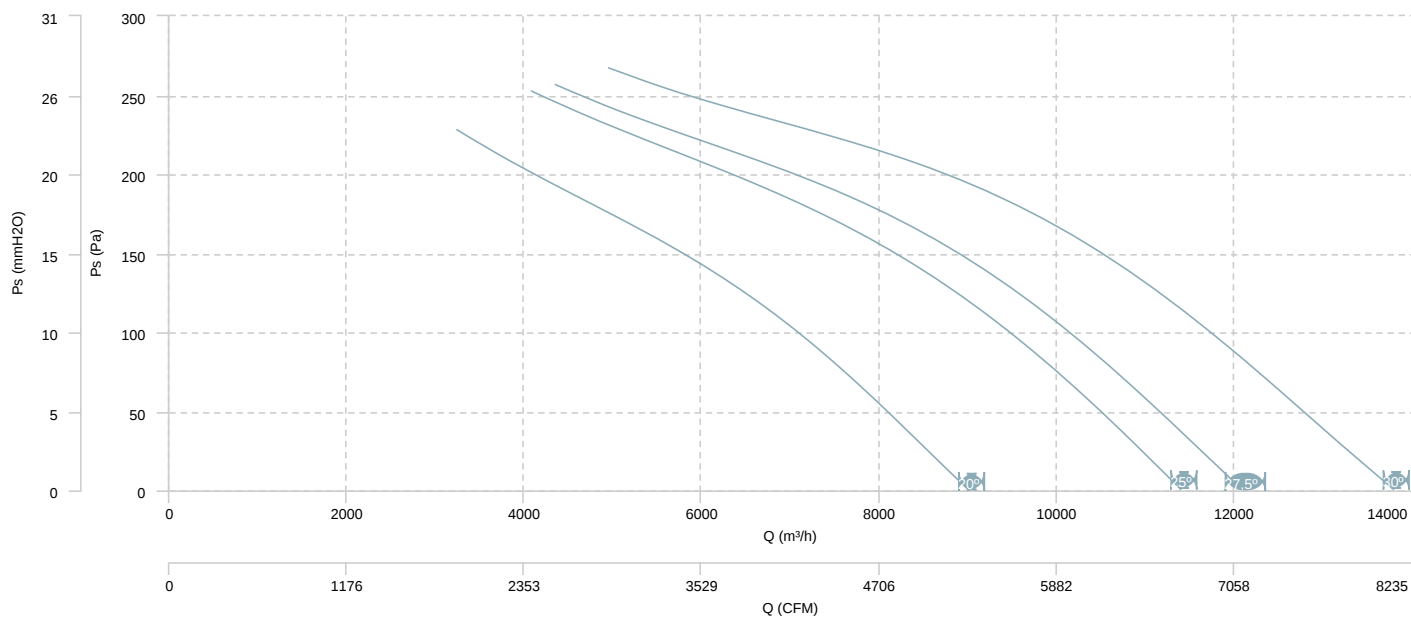


AIR FLOW - MECHANICAL POWER

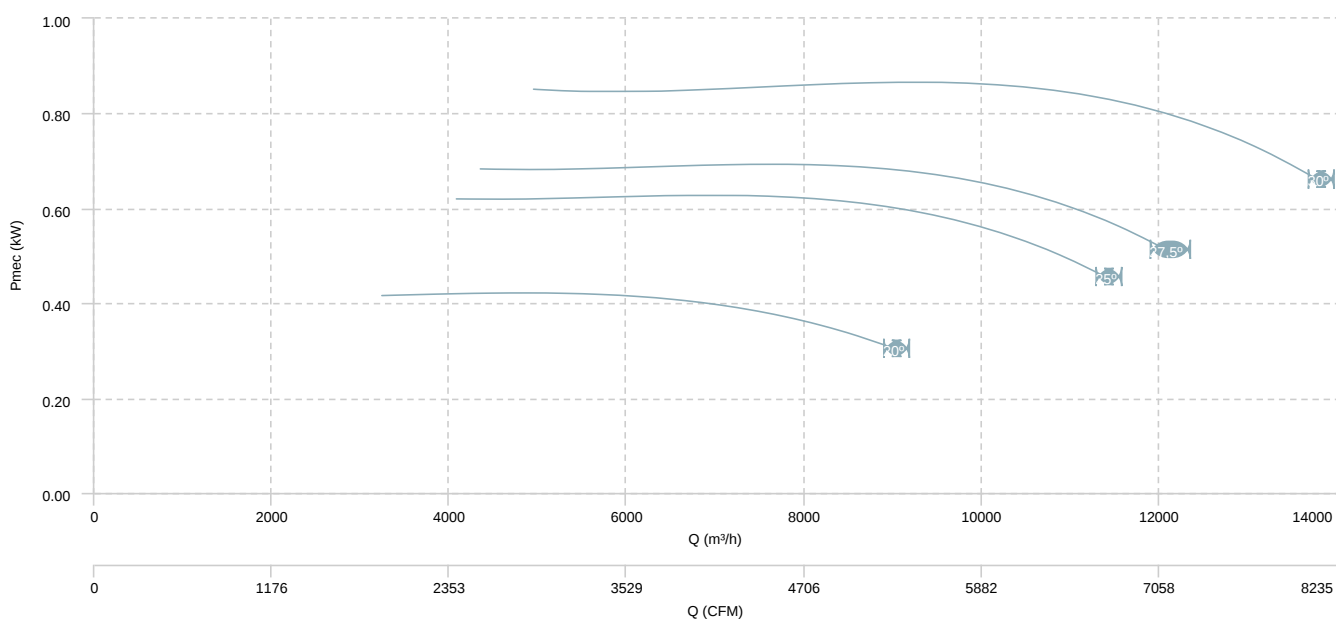


HMA 63 M4 (A2:6)

AIR FLOW - PRESSURE

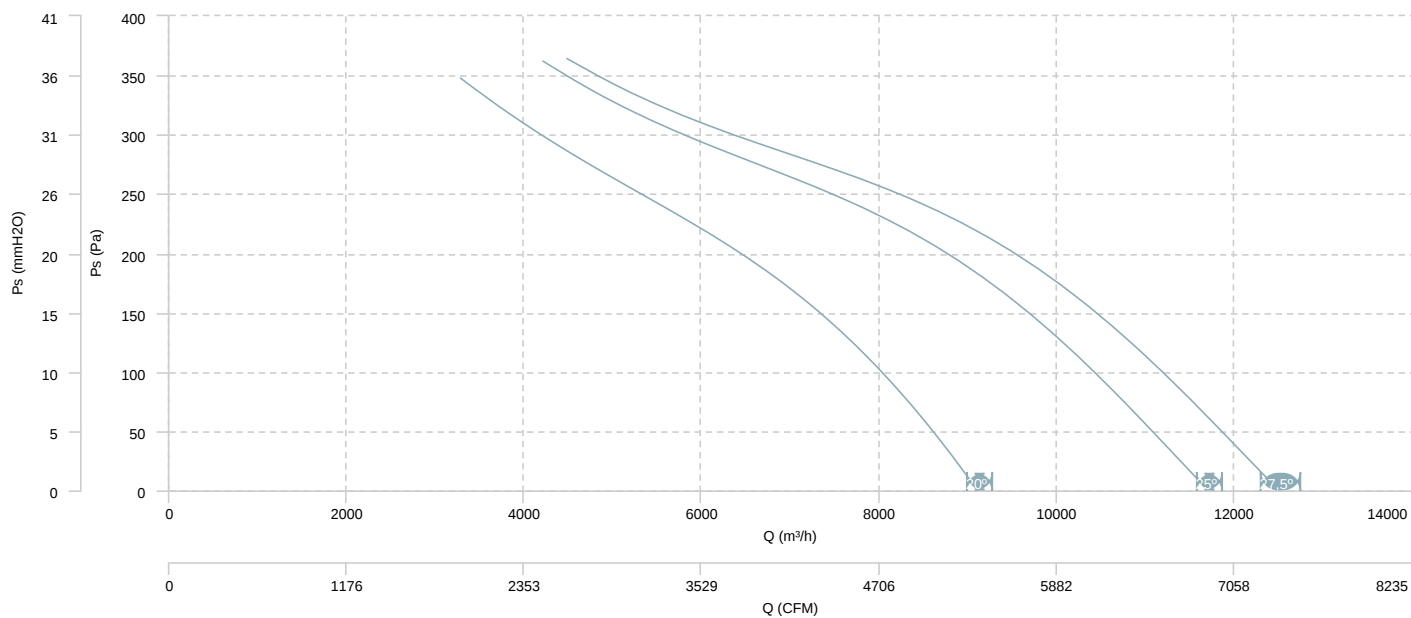


AIR FLOW - MECHANICAL POWER

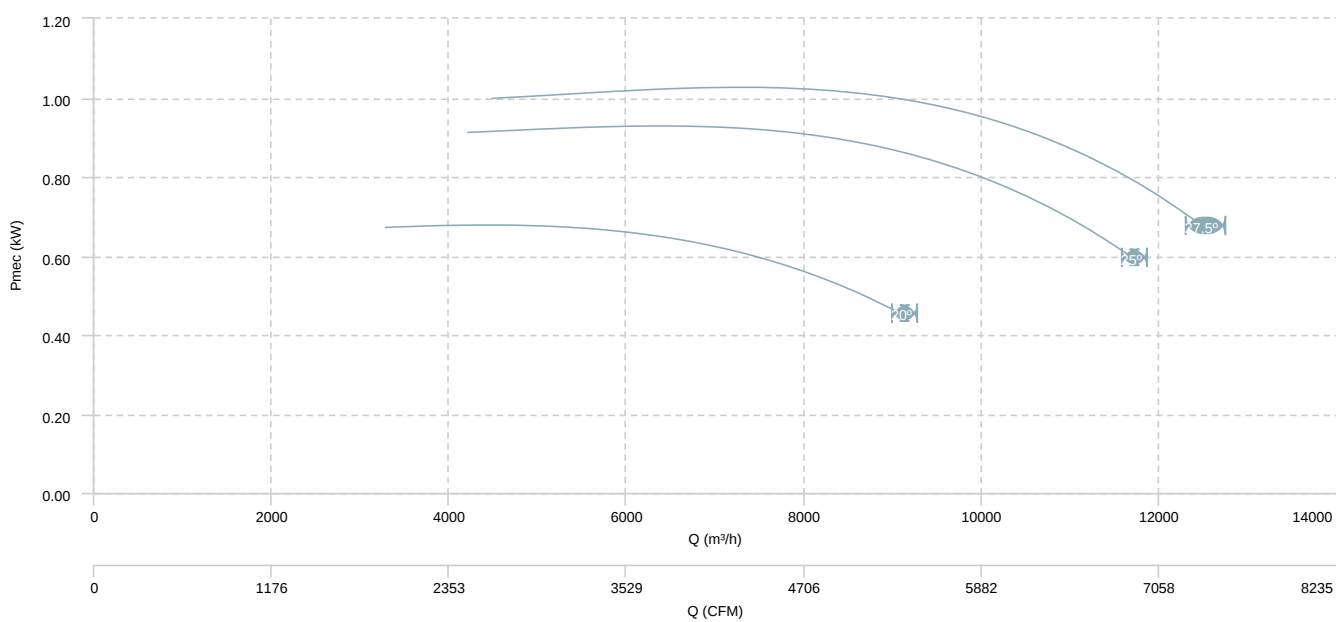


HMA 63 M4 (A2:9)

AIR FLOW - PRESSURE

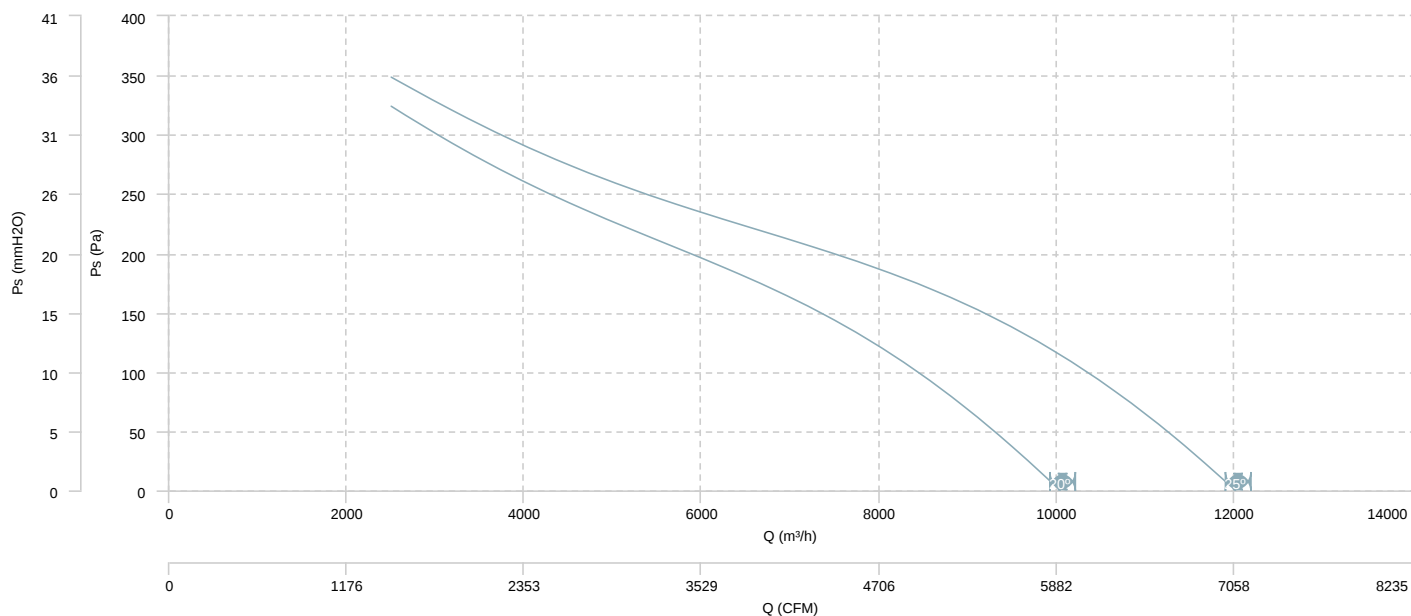


AIR FLOW - MECHANICAL POWER

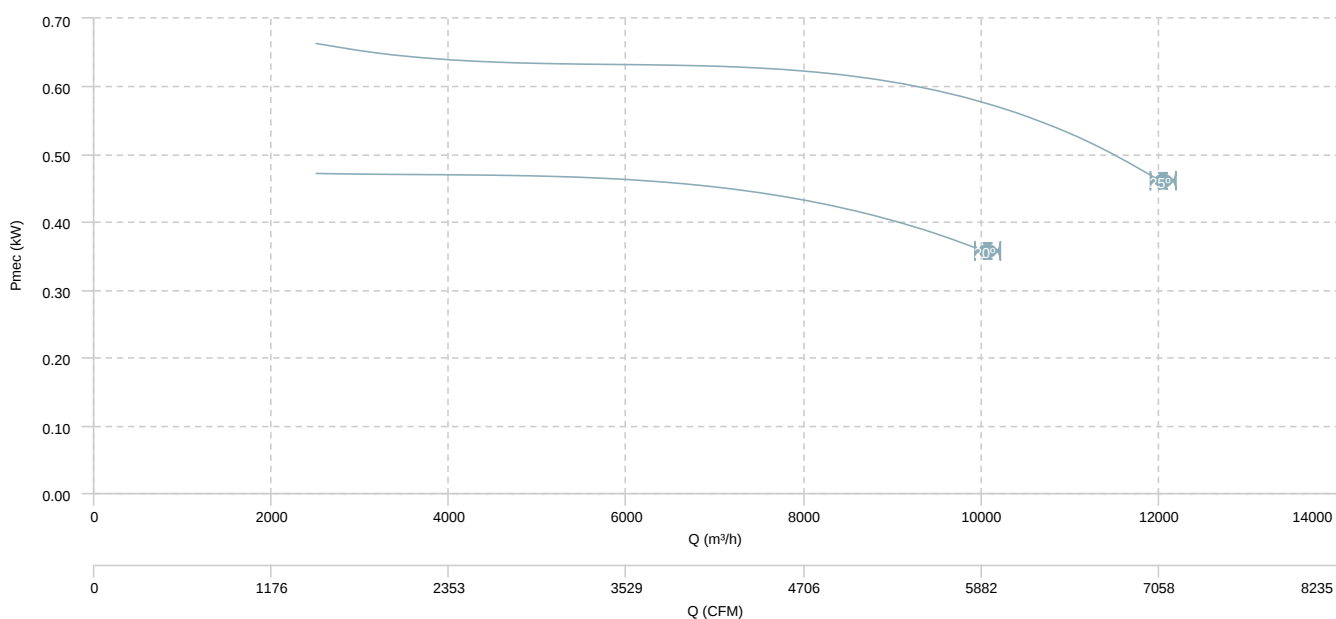


HMA 63 M4 (A5:6)

AIR FLOW - PRESSURE

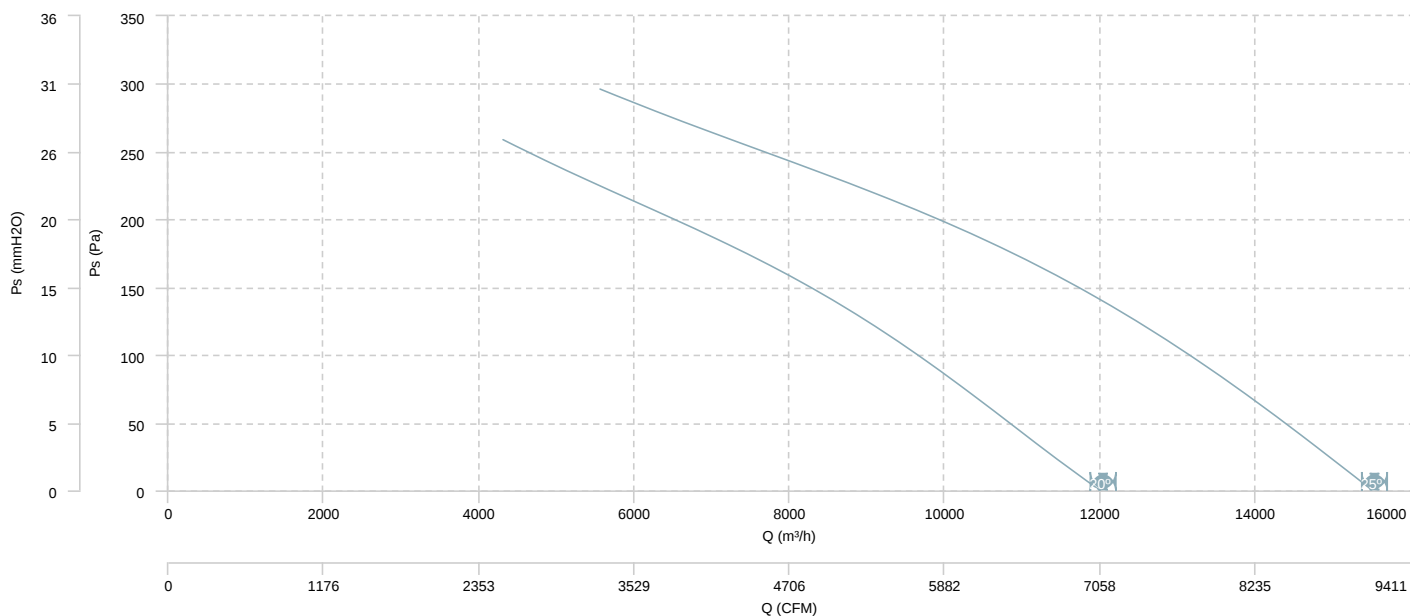


AIR FLOW - MECHANICAL POWER

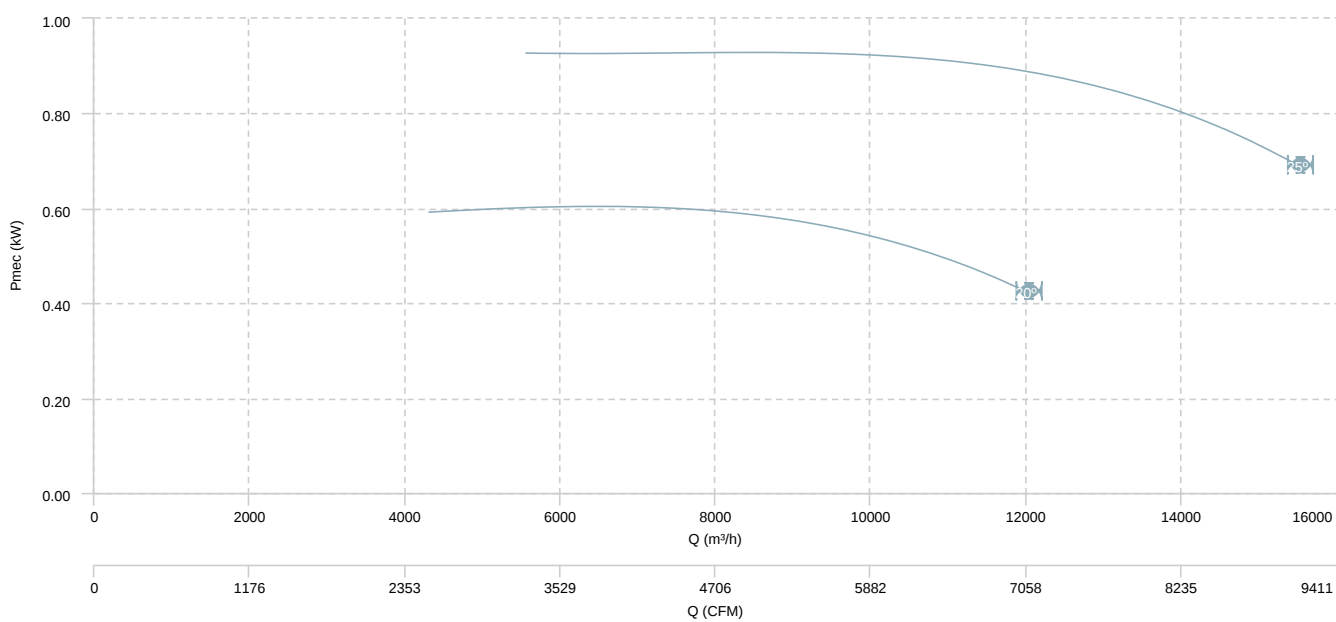


HMA 71 M4 (A2:6)

AIR FLOW - PRESSURE

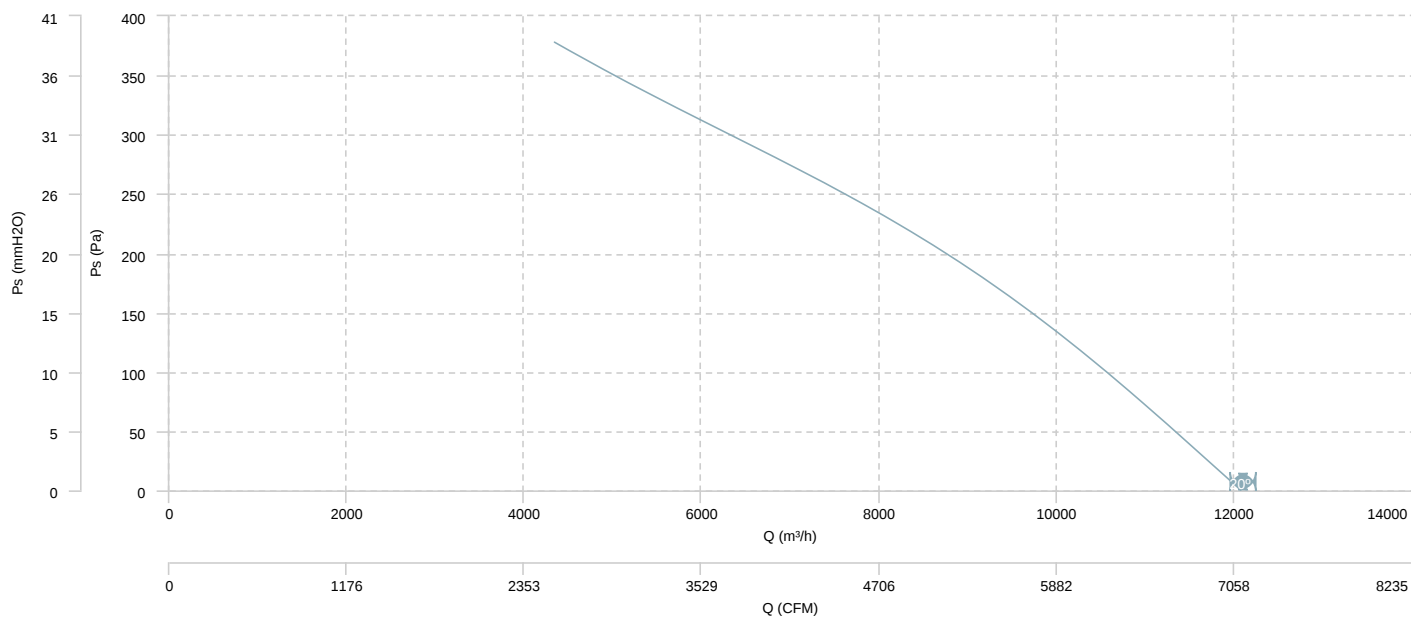


AIR FLOW - MECHANICAL POWER

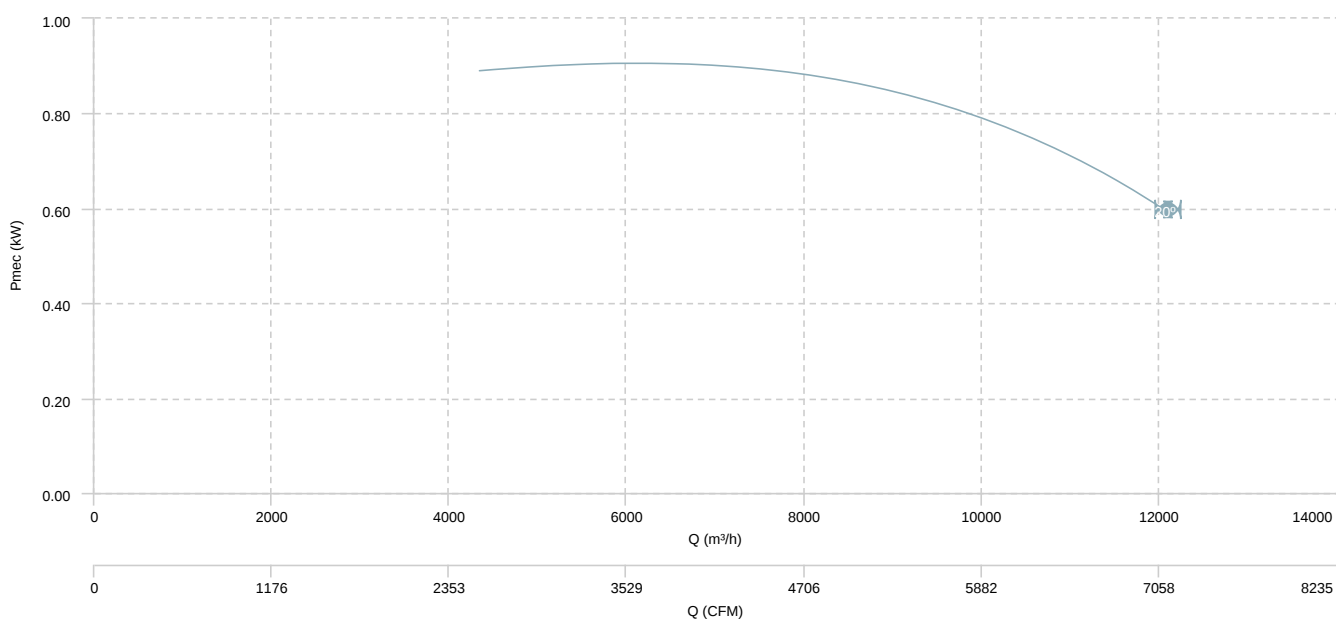


HMA 71 M4 (A2:9)

AIR FLOW - PRESSURE

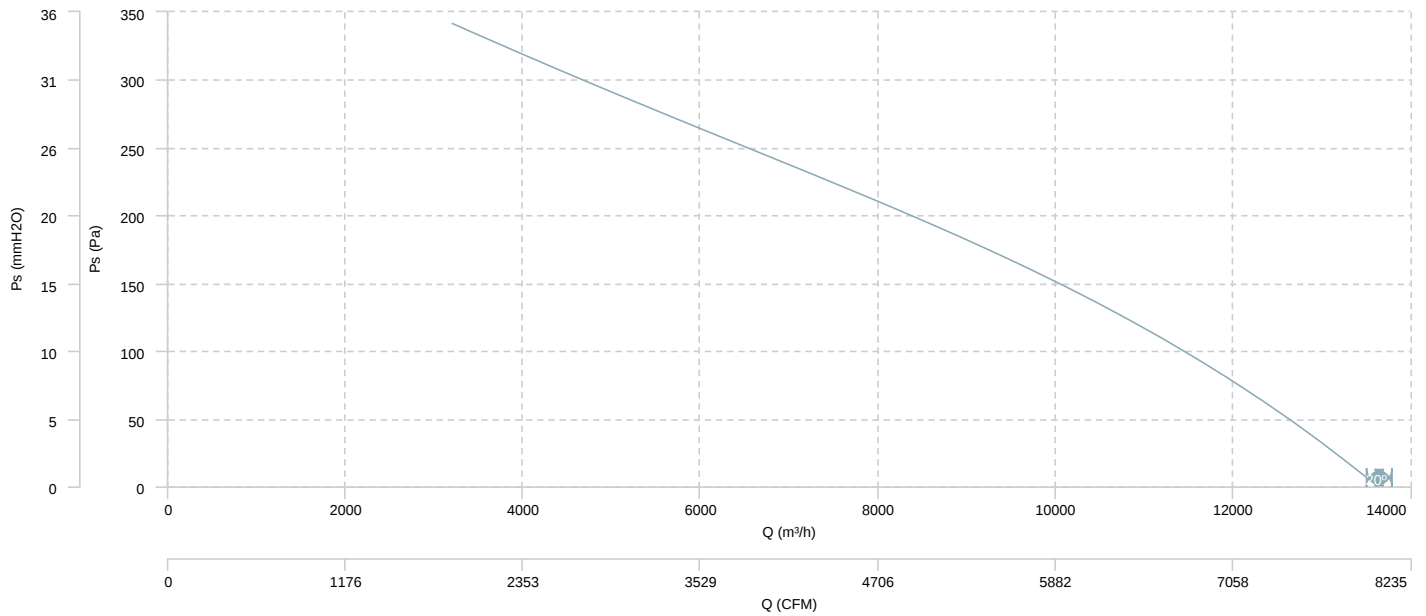


AIR FLOW - MECHANICAL POWER

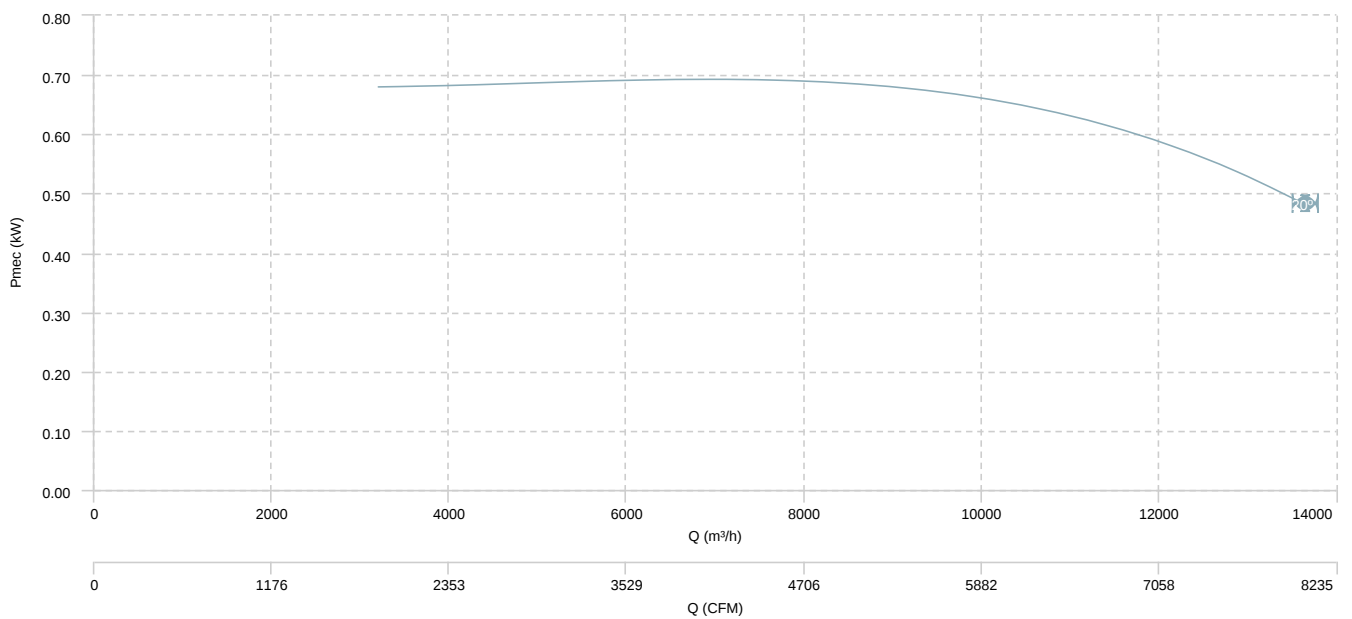


HMA 71 M4 (A5:6)

AIR FLOW - PRESSURE

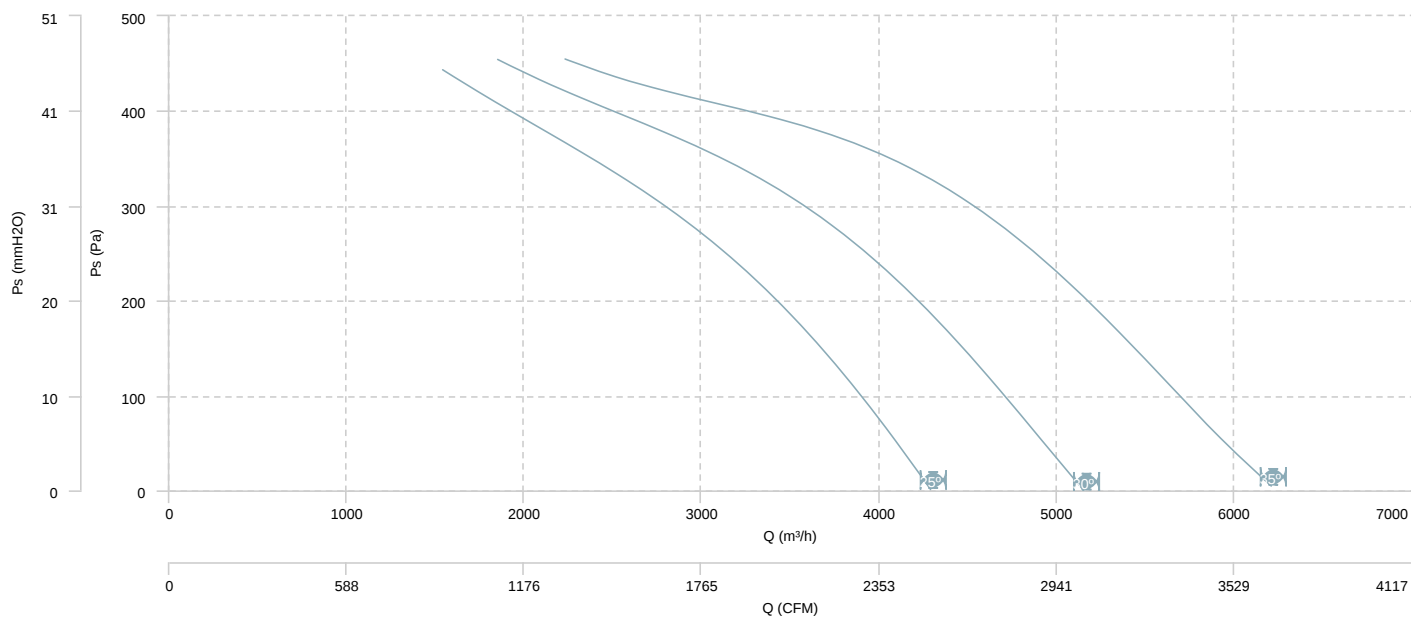


AIR FLOW - MECHANICAL POWER

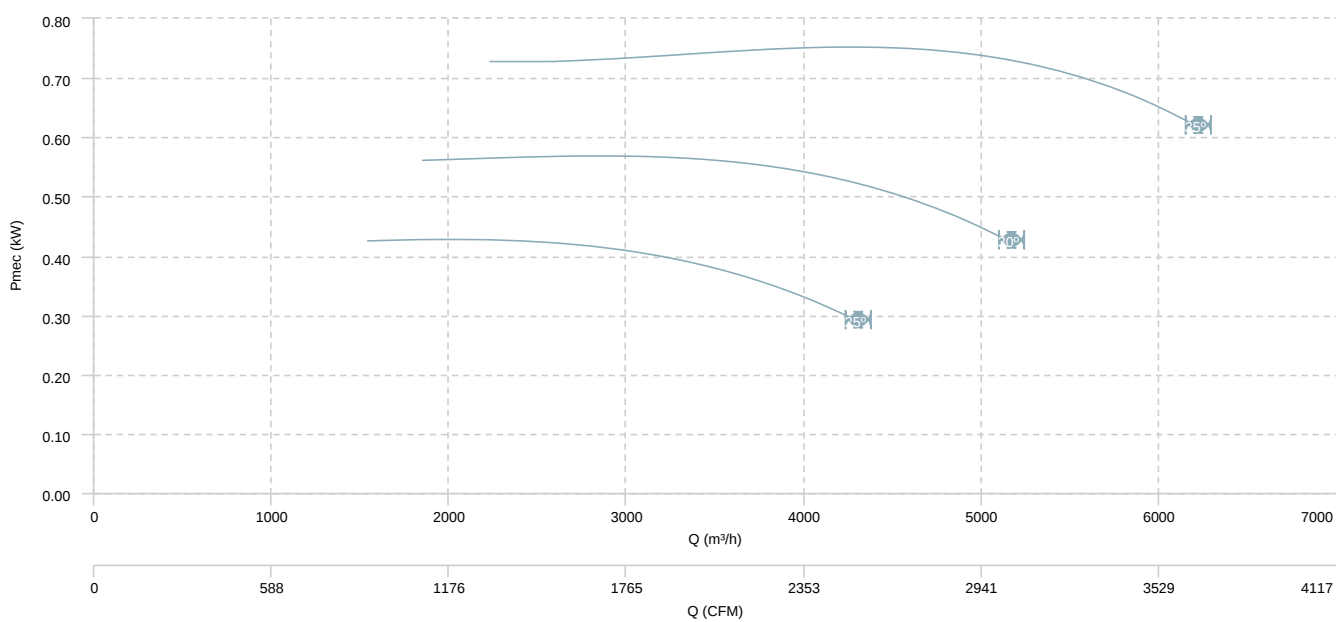


HMA 35 T2 (A0:6)

AIR FLOW - PRESSURE

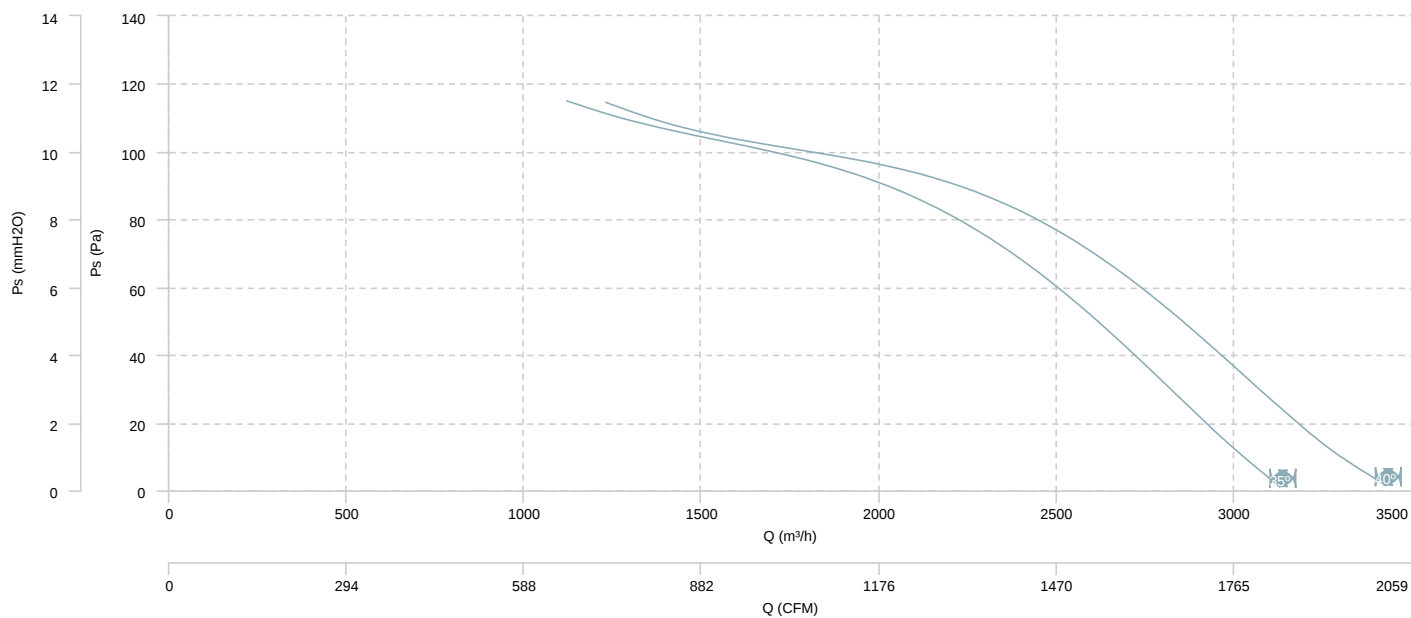


AIR FLOW - MECHANICAL POWER

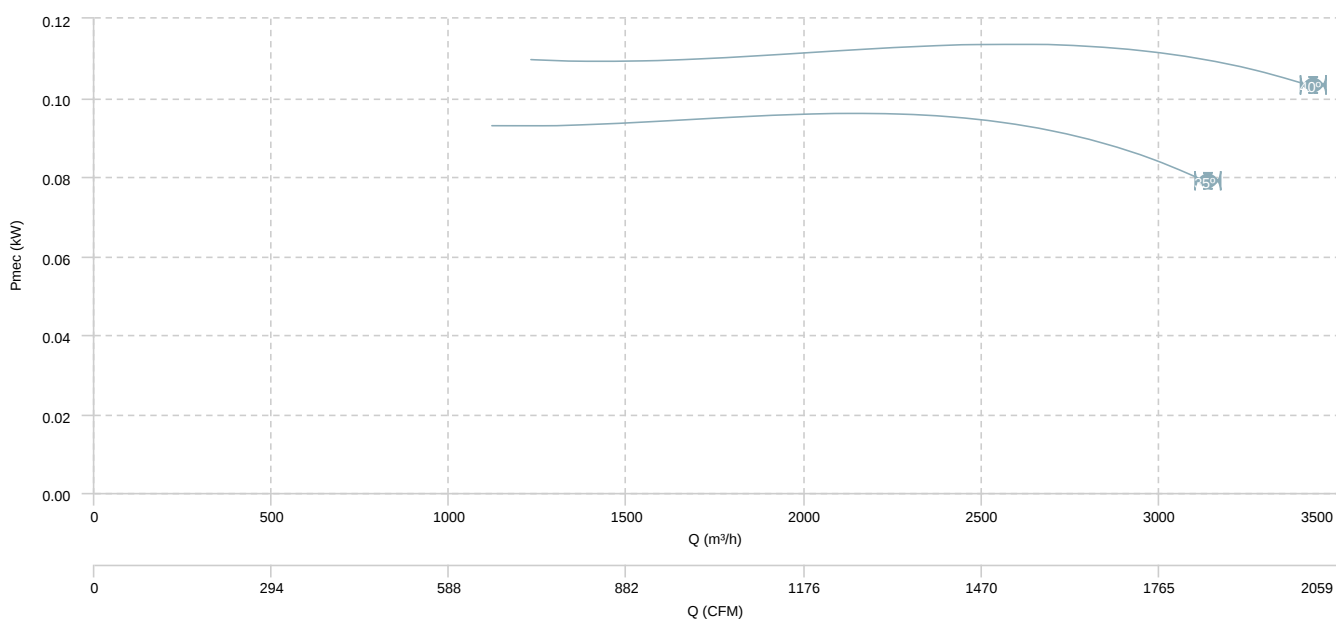


HMA 35 T4 (A0:6)

AIR FLOW - PRESSURE

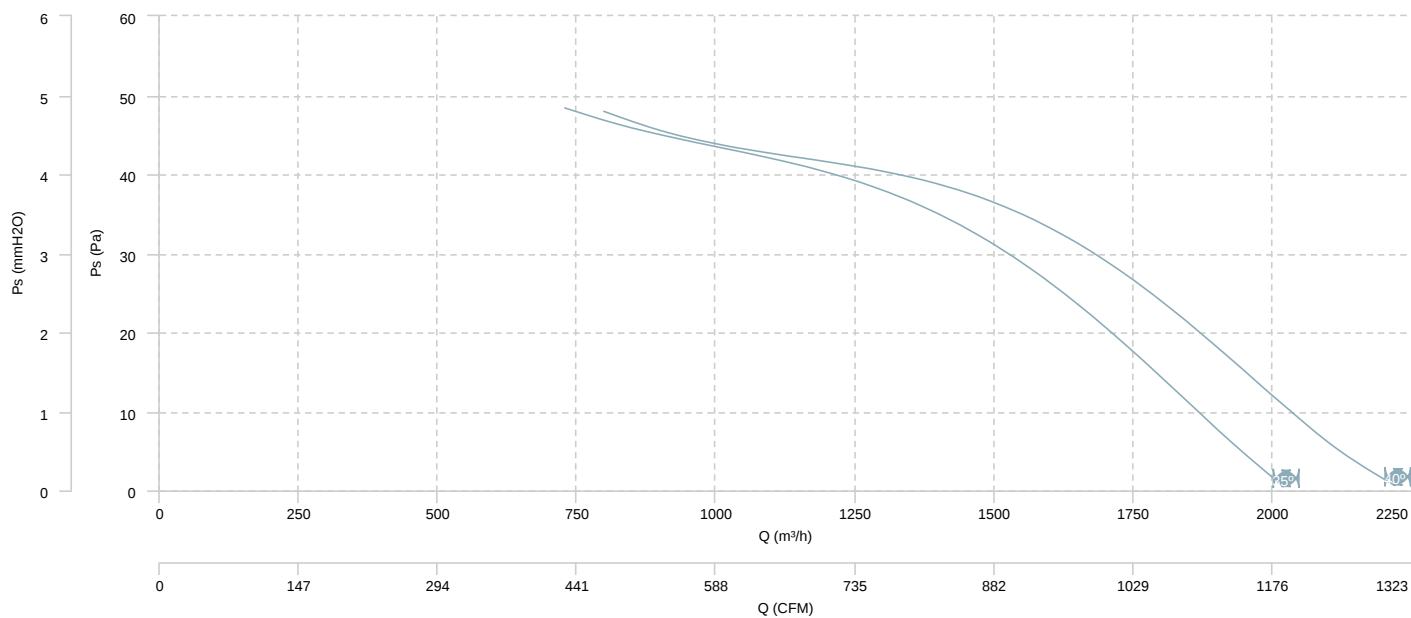


AIR FLOW - MECHANICAL POWER

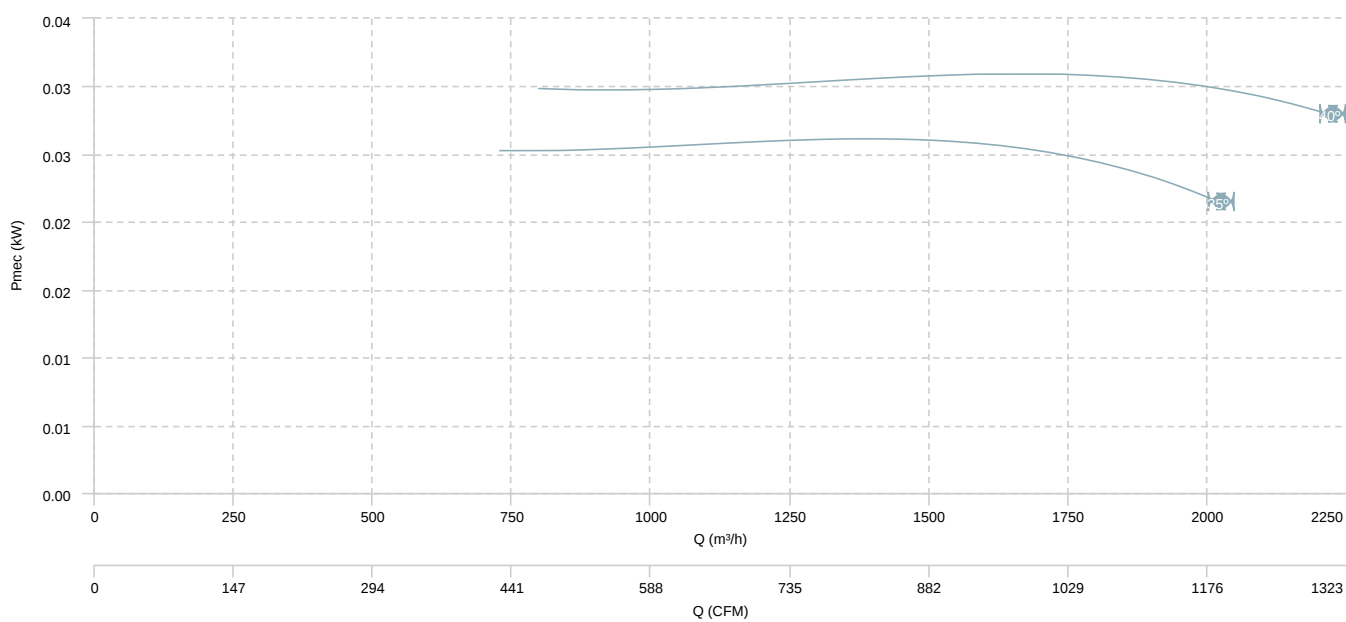


HMA 35 T6 (A0:6)

AIR FLOW - PRESSURE

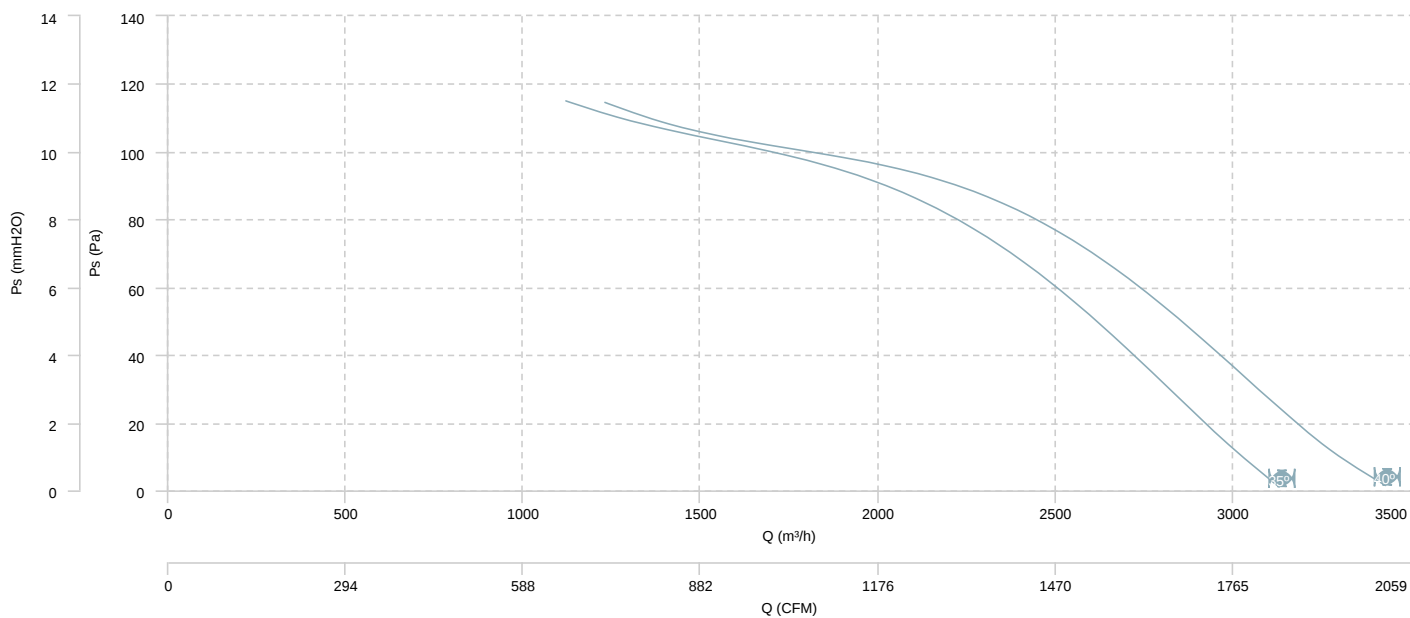


AIR FLOW - MECHANICAL POWER

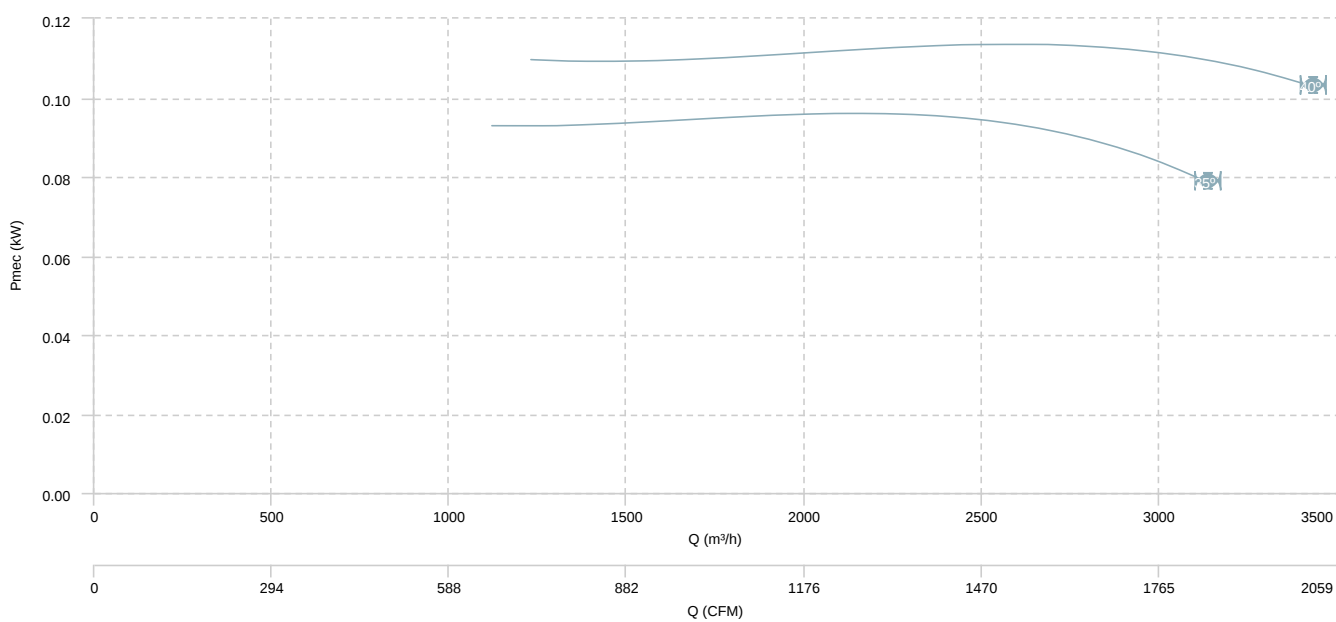


HMA 35 T4/T8 (A0:6)

AIR FLOW - PRESSURE (4 poles)

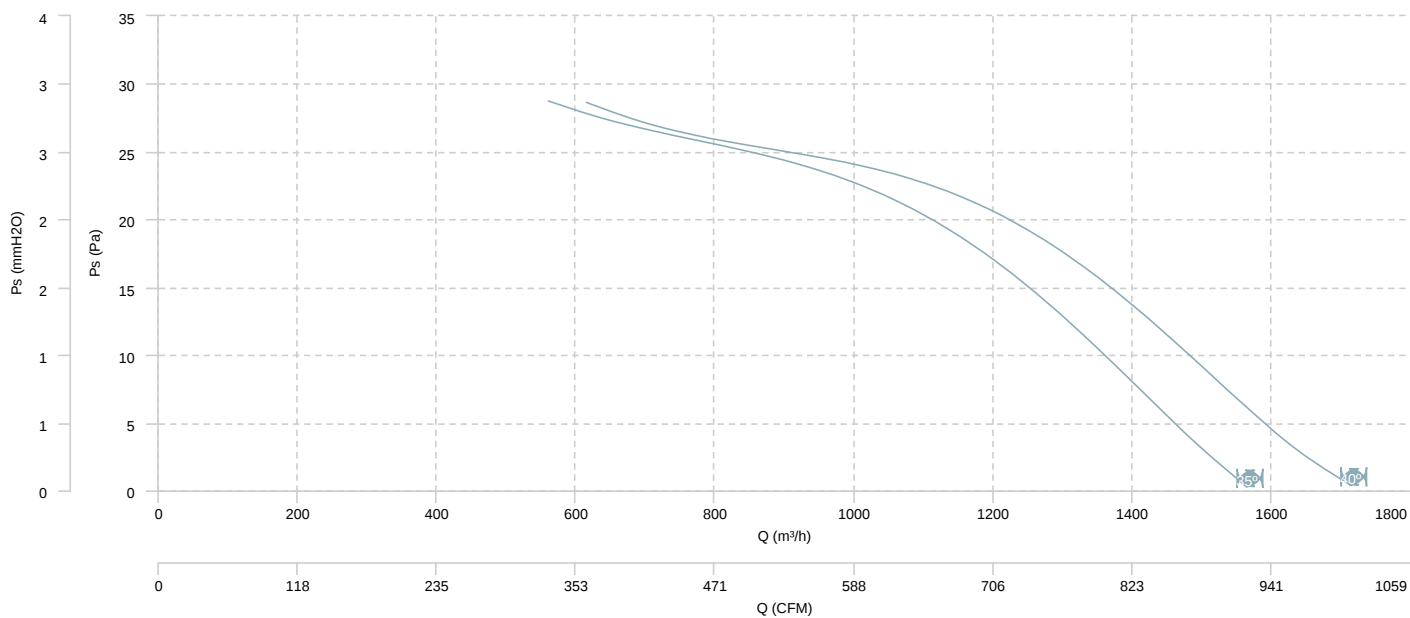


AIR FLOW - MECHANICAL POWER (4 poles)

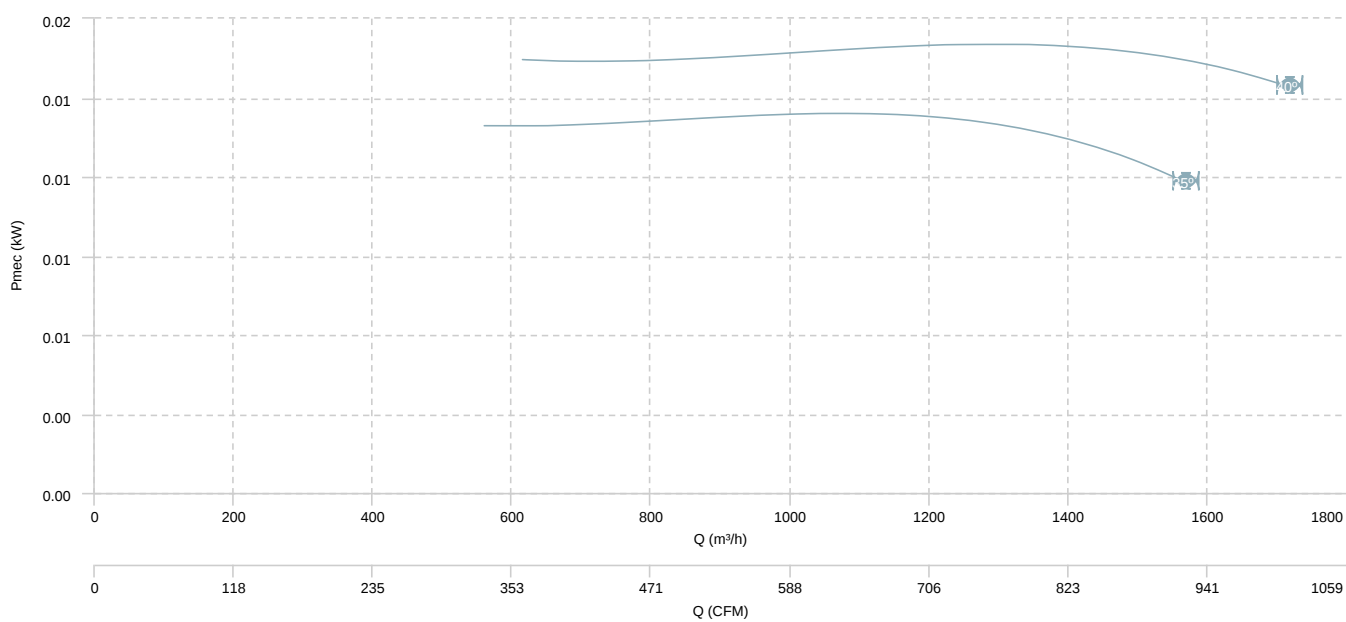


HMA 35 T4/T8 (A0:6)

AIR FLOW - PRESSURE (8 poles)

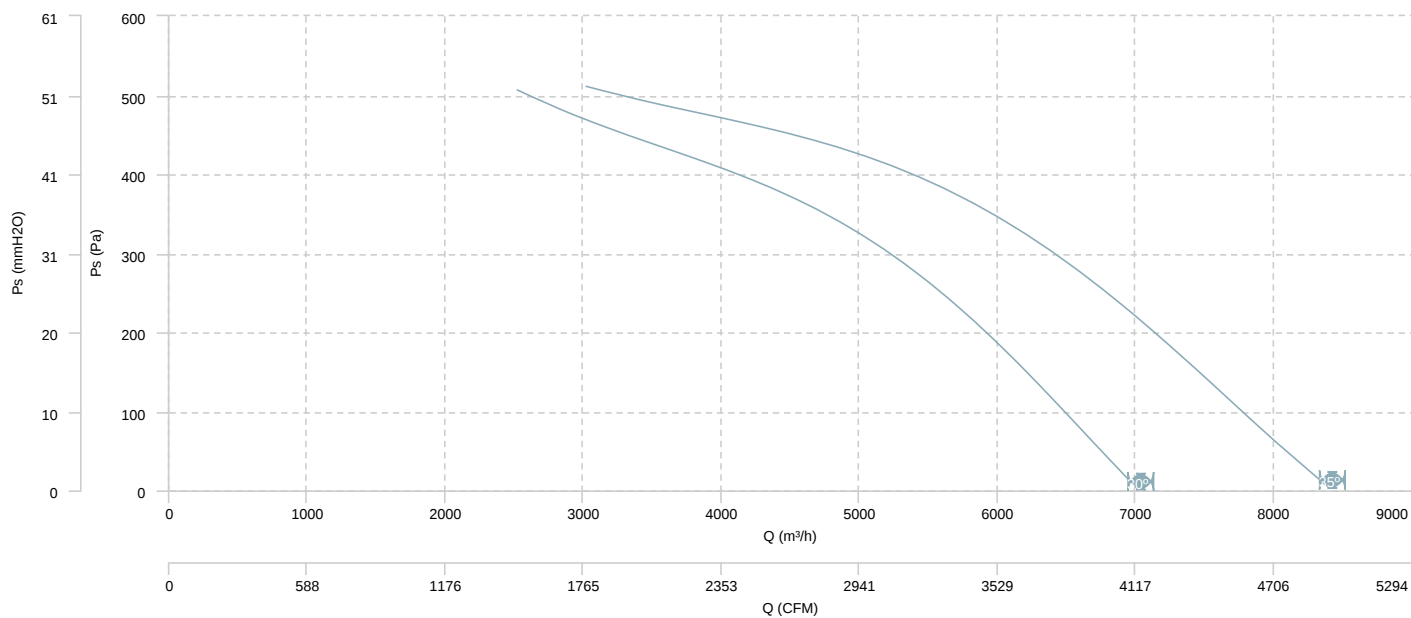


AIR FLOW - MECHANICAL POWER (8 poles)

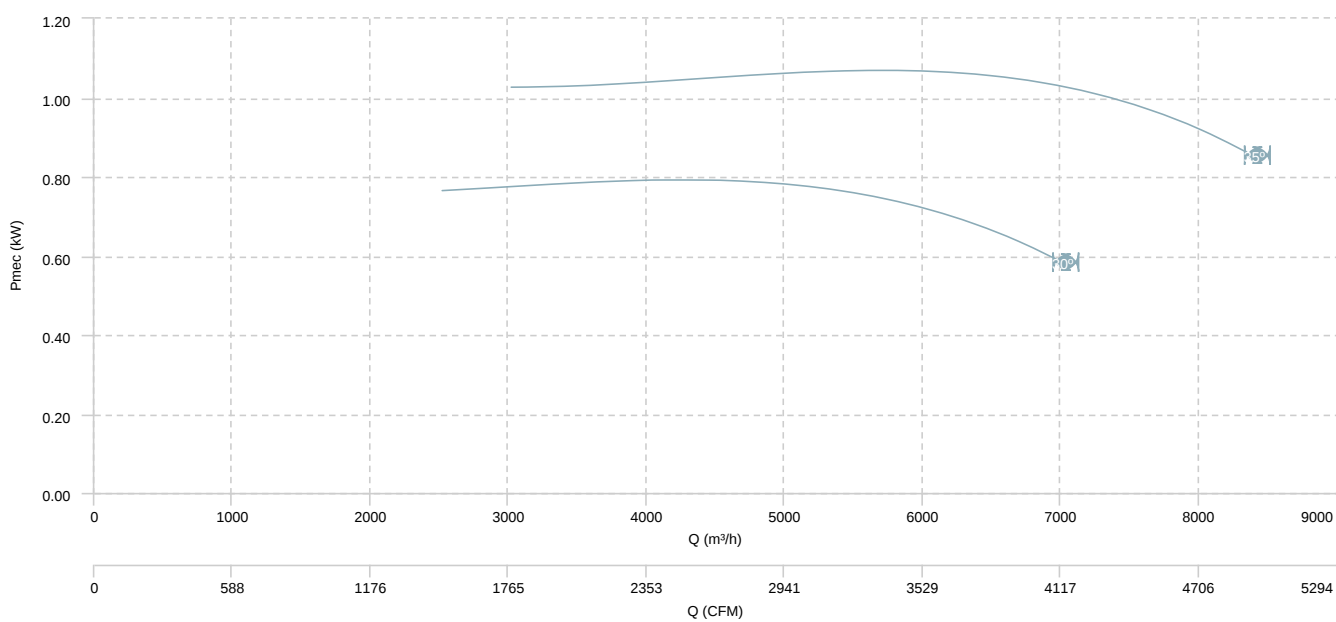


HMA 40 T2 (A0:6)

AIR FLOW - PRESSURE

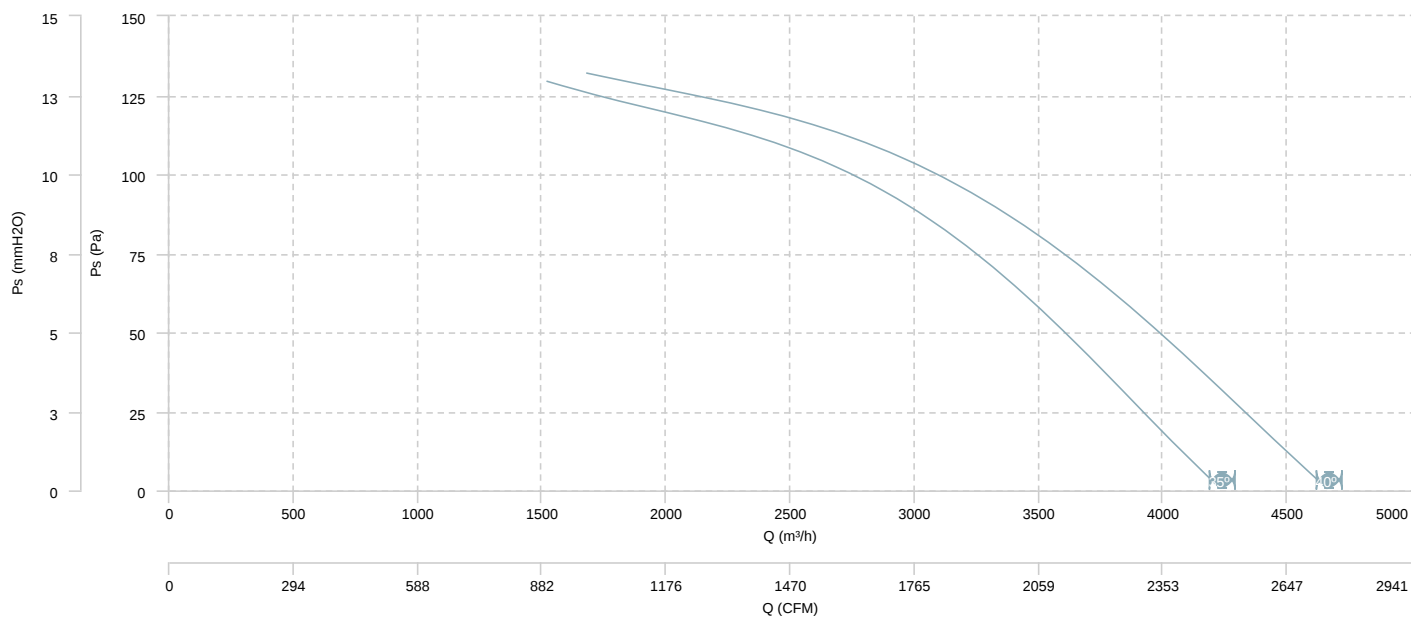


AIR FLOW - MECHANICAL POWER

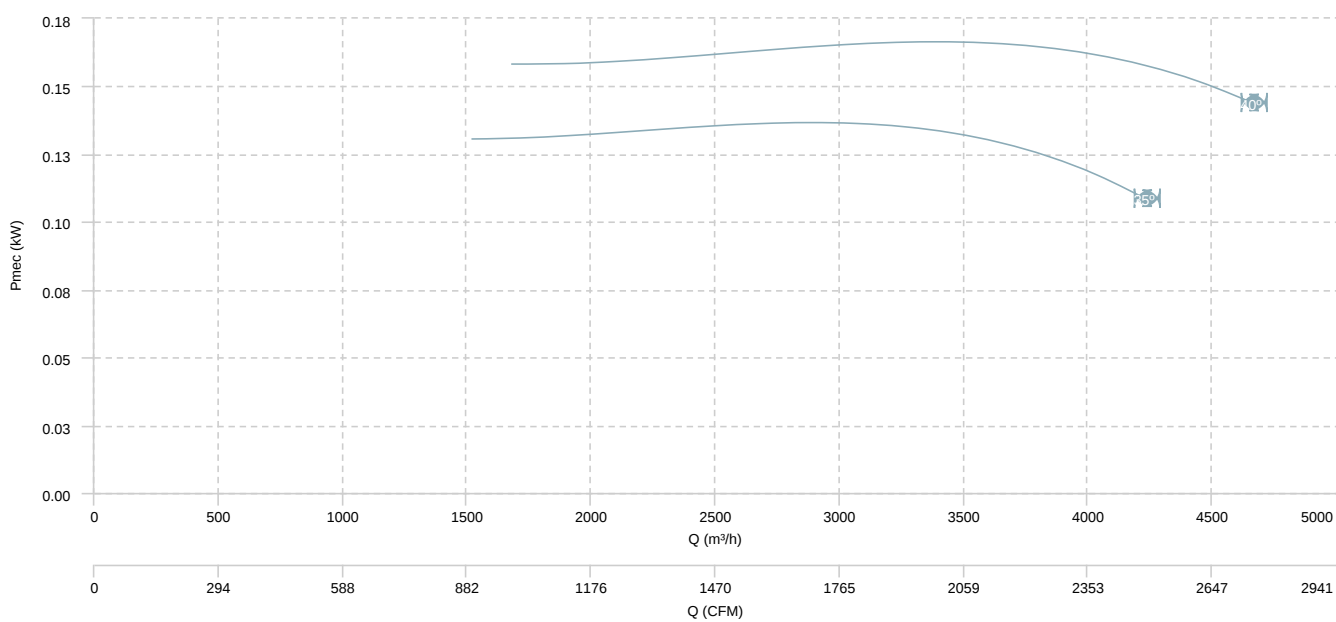


HMA 40 T4 (A0:6)

AIR FLOW - PRESSURE

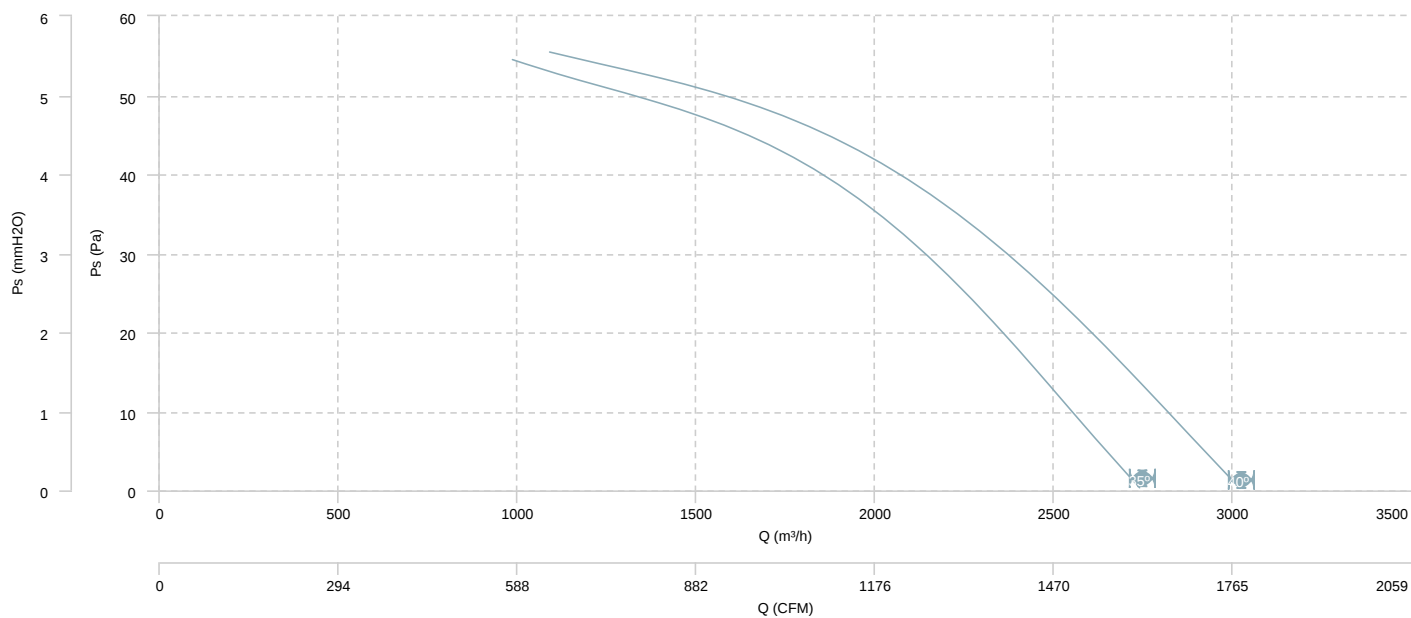


AIR FLOW - MECHANICAL POWER

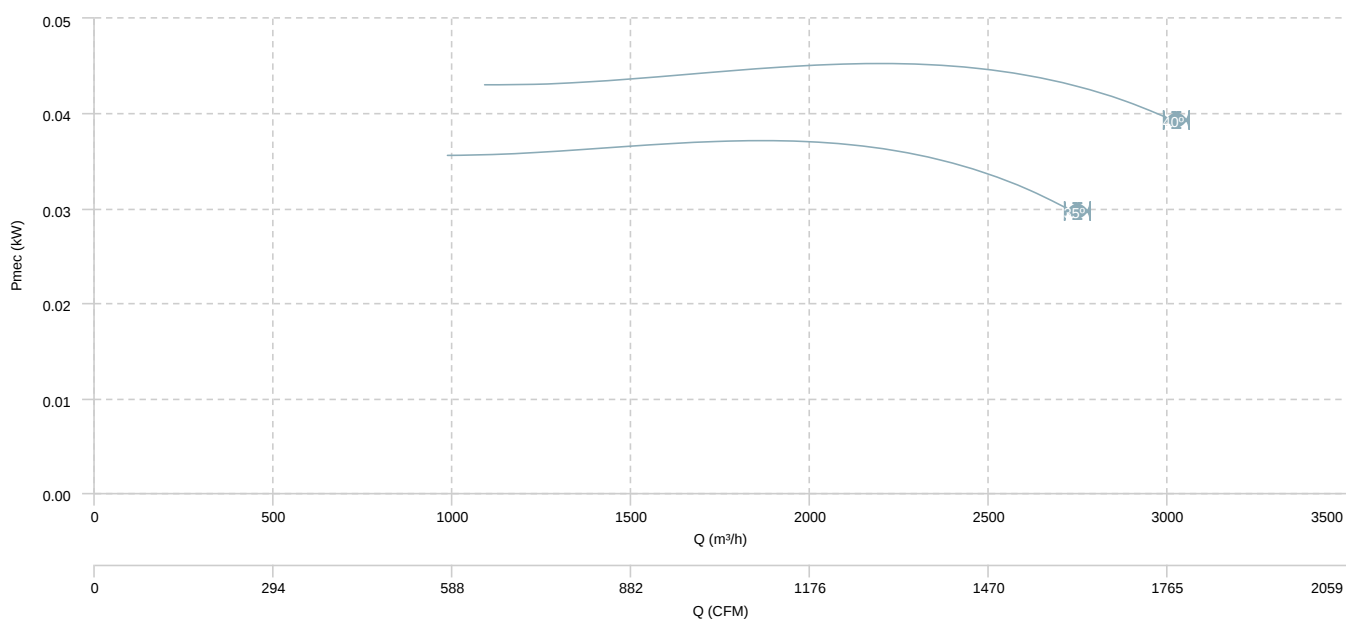


HMA 40 T6 (A0:6)

AIR FLOW - PRESSURE

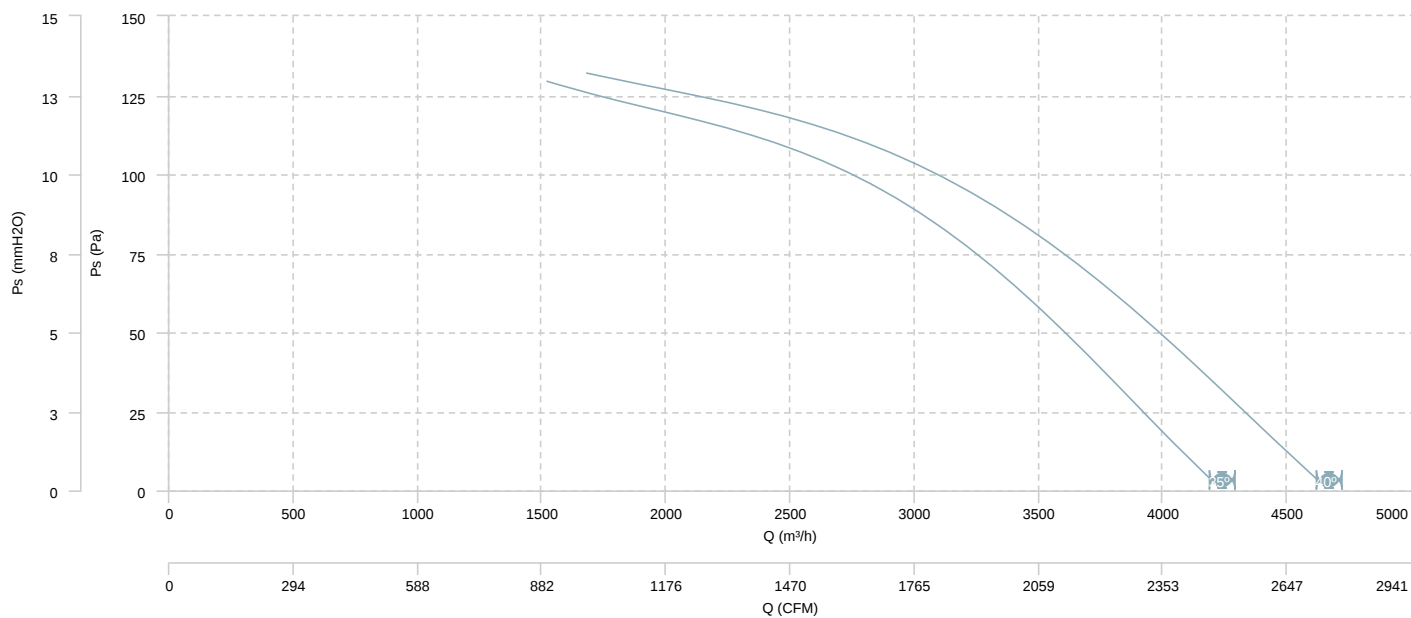


AIR FLOW - MECHANICAL POWER

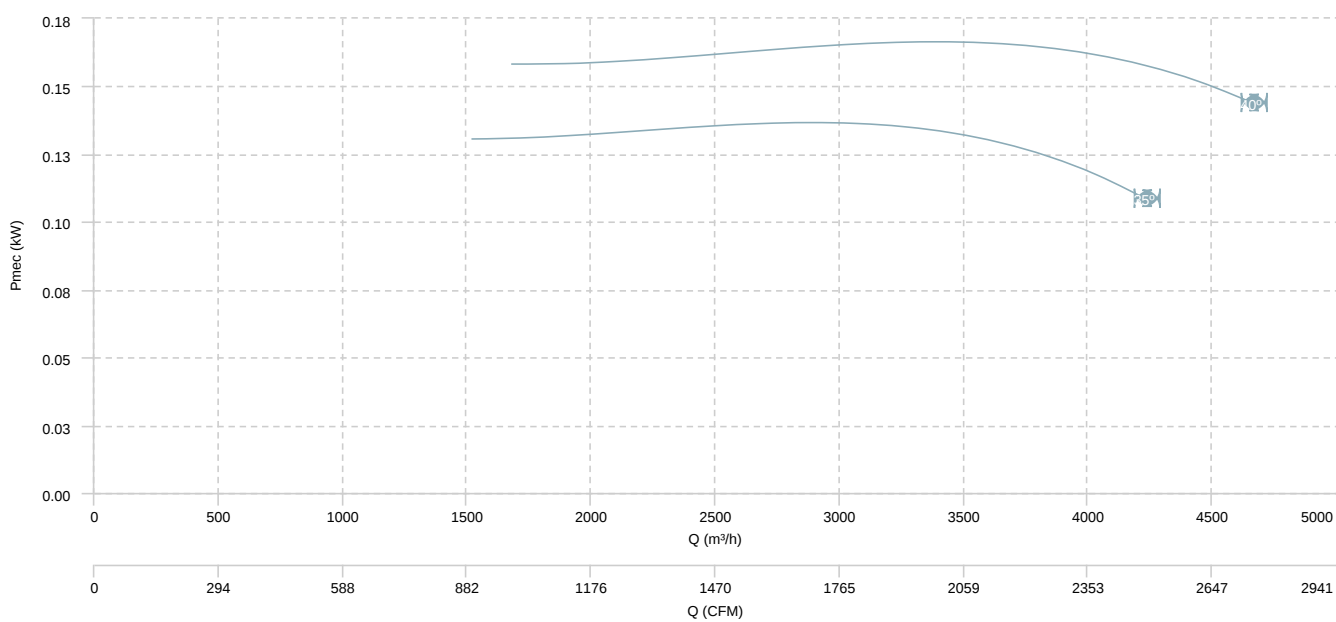


HMA 40 T4/T8 (A0:6)

AIR FLOW - PRESSURE (4 poles)

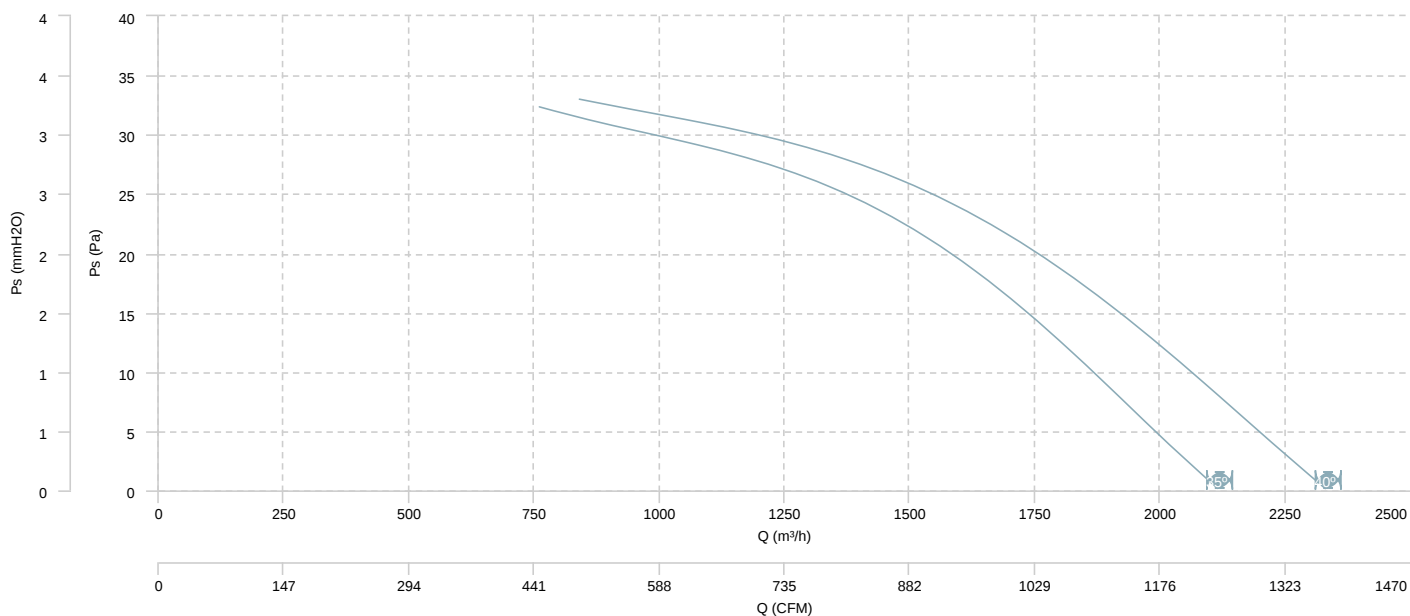


AIR FLOW - MECHANICAL POWER (4 poles)

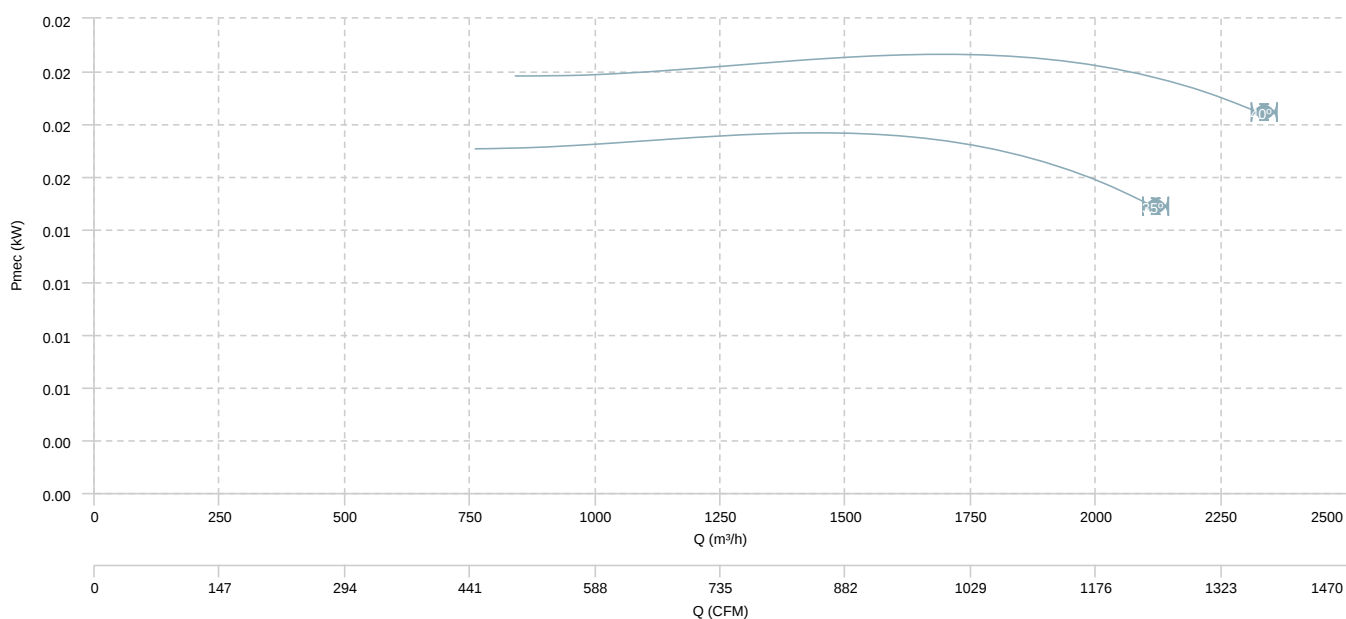


HMA 40 T4/T8 (A0:6)

AIR FLOW - PRESSURE (8 poles)

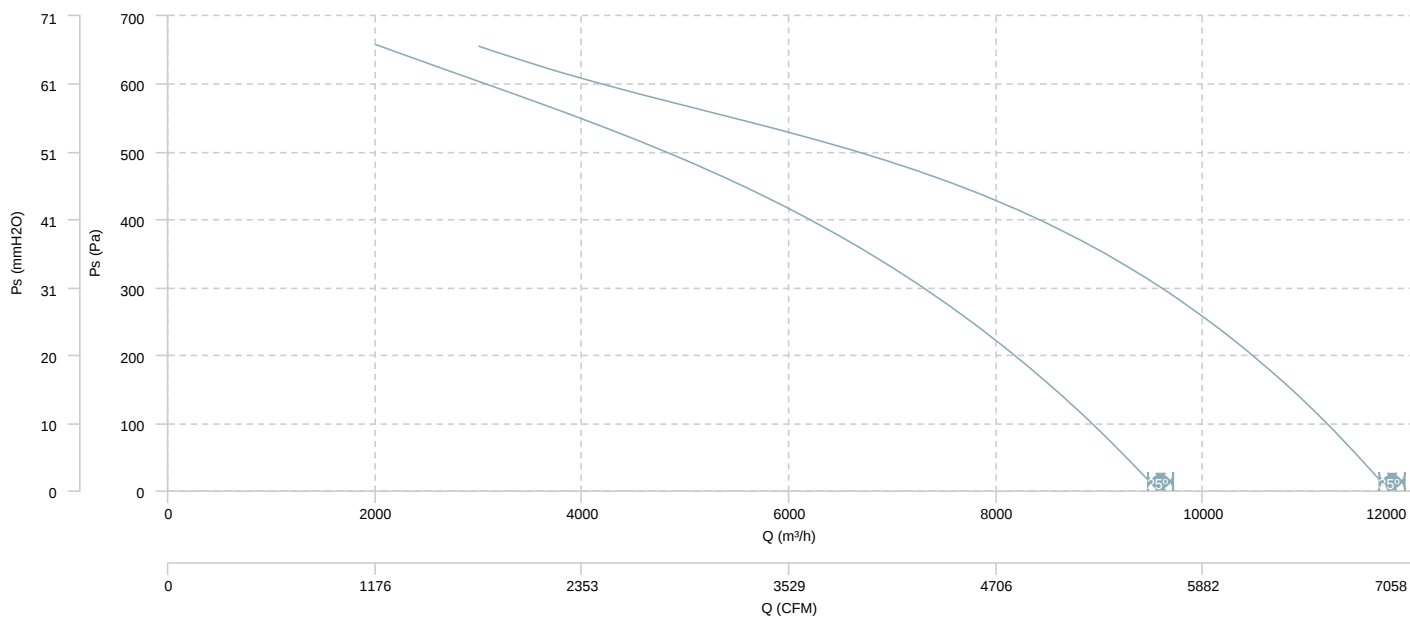


AIR FLOW - MECHANICAL POWER (8 poles)

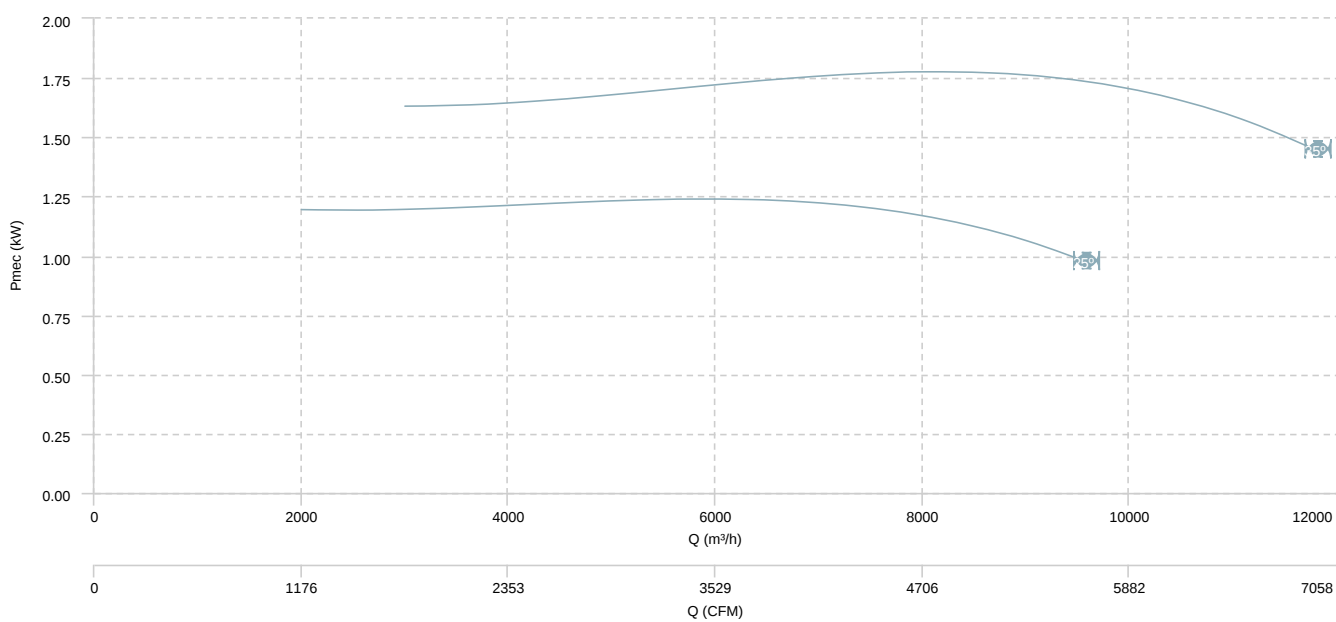


HMA 45 T2 (A0:6)

AIR FLOW - PRESSURE

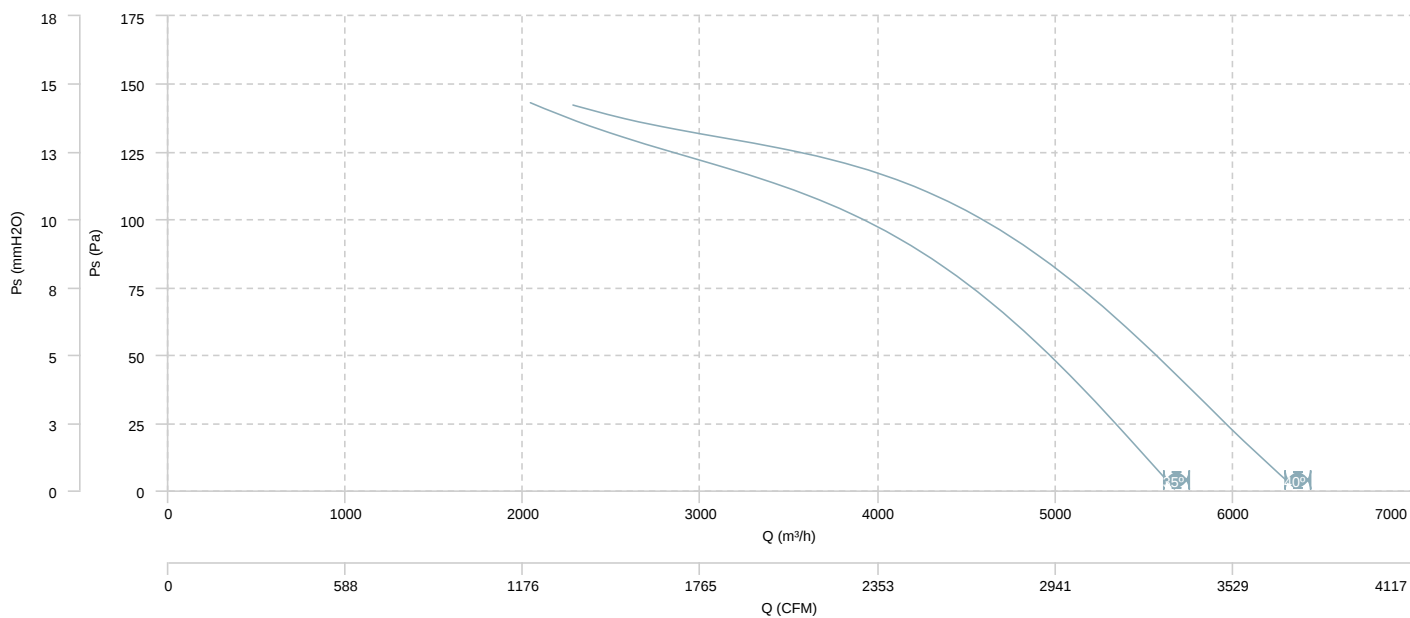


AIR FLOW - MECHANICAL POWER

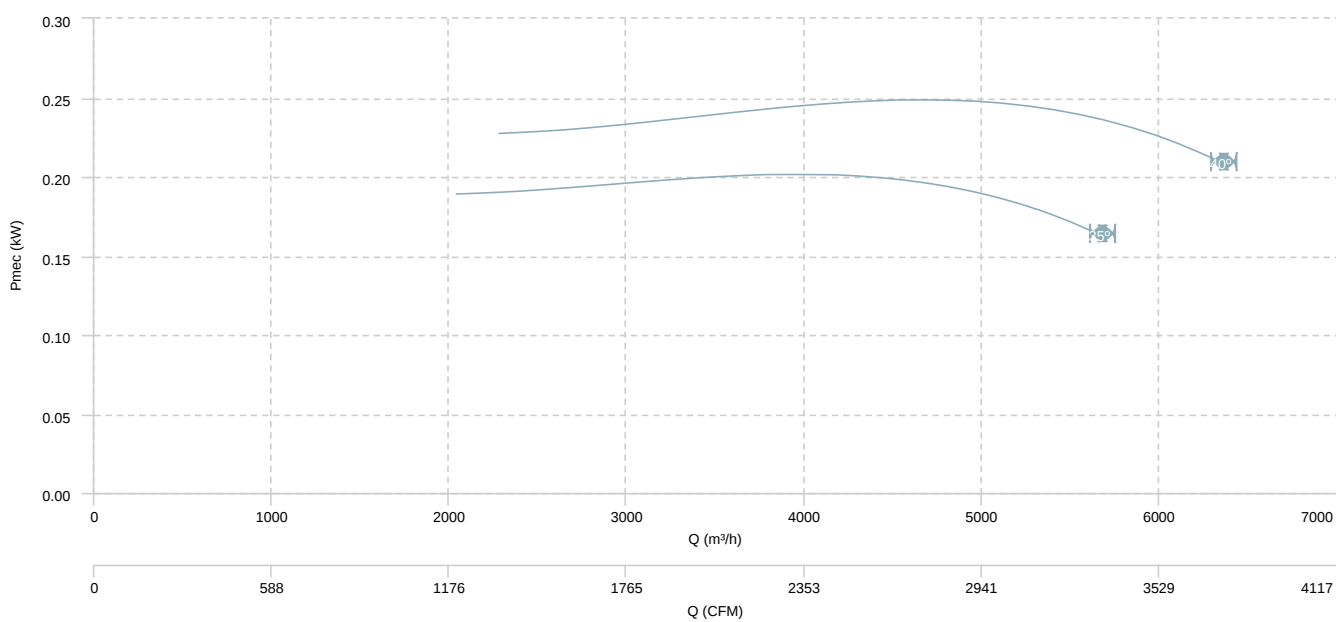


HMA 45 T4 (A0:6)

AIR FLOW - PRESSURE

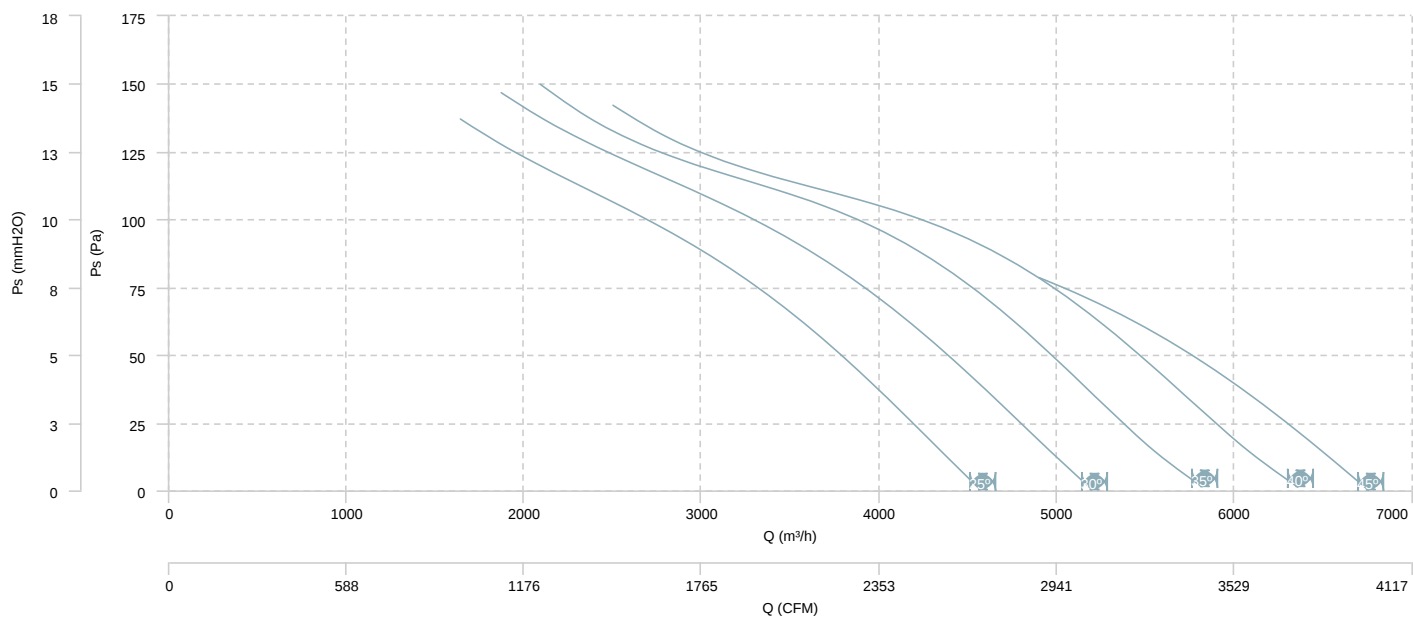


AIR FLOW - MECHANICAL POWER

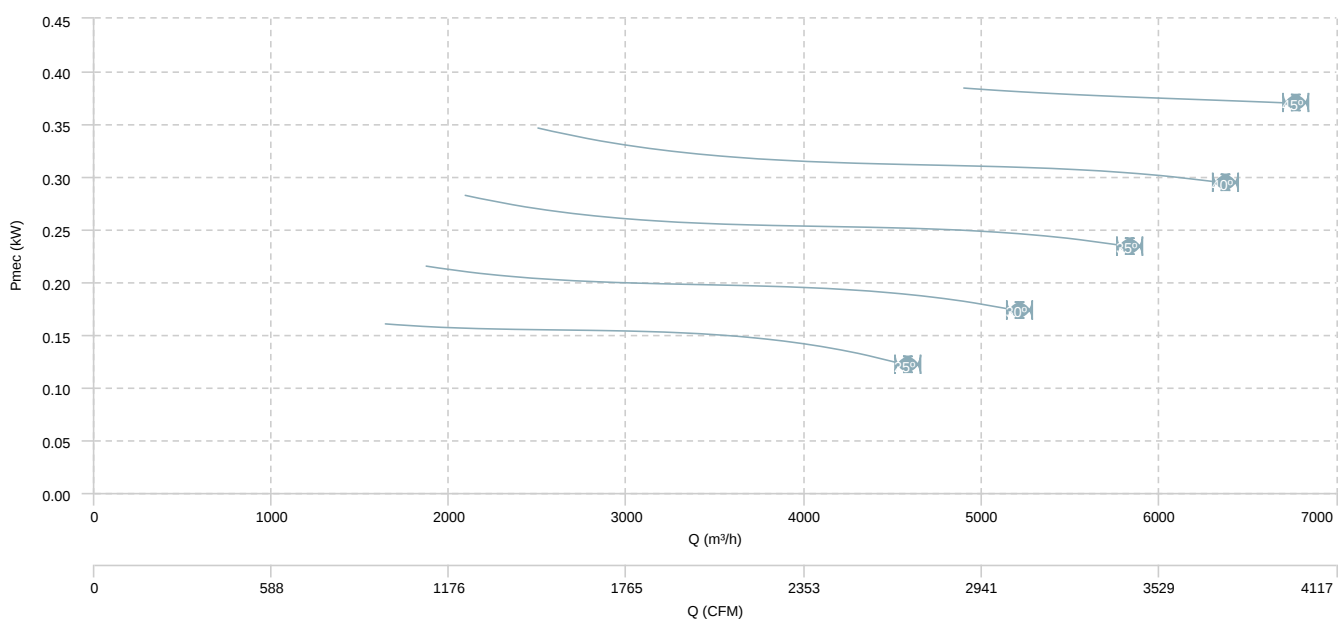


HMA 45 T4 (A5:6)

AIR FLOW - PRESSURE

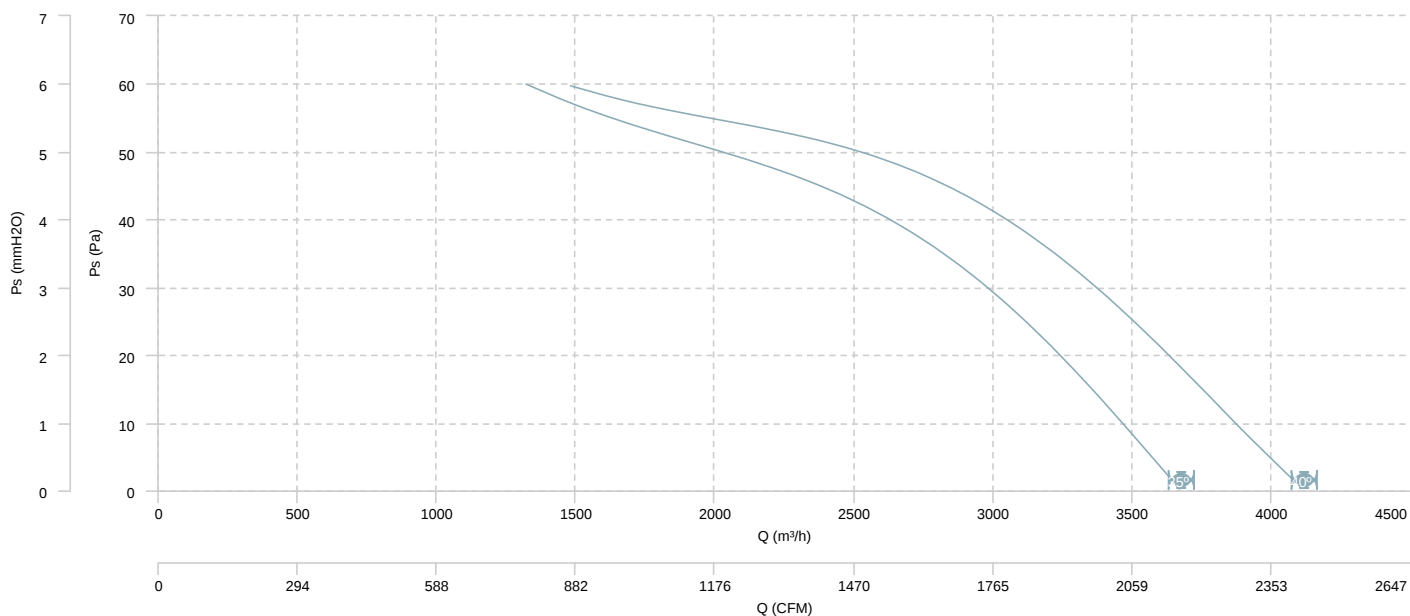


AIR FLOW - MECHANICAL POWER

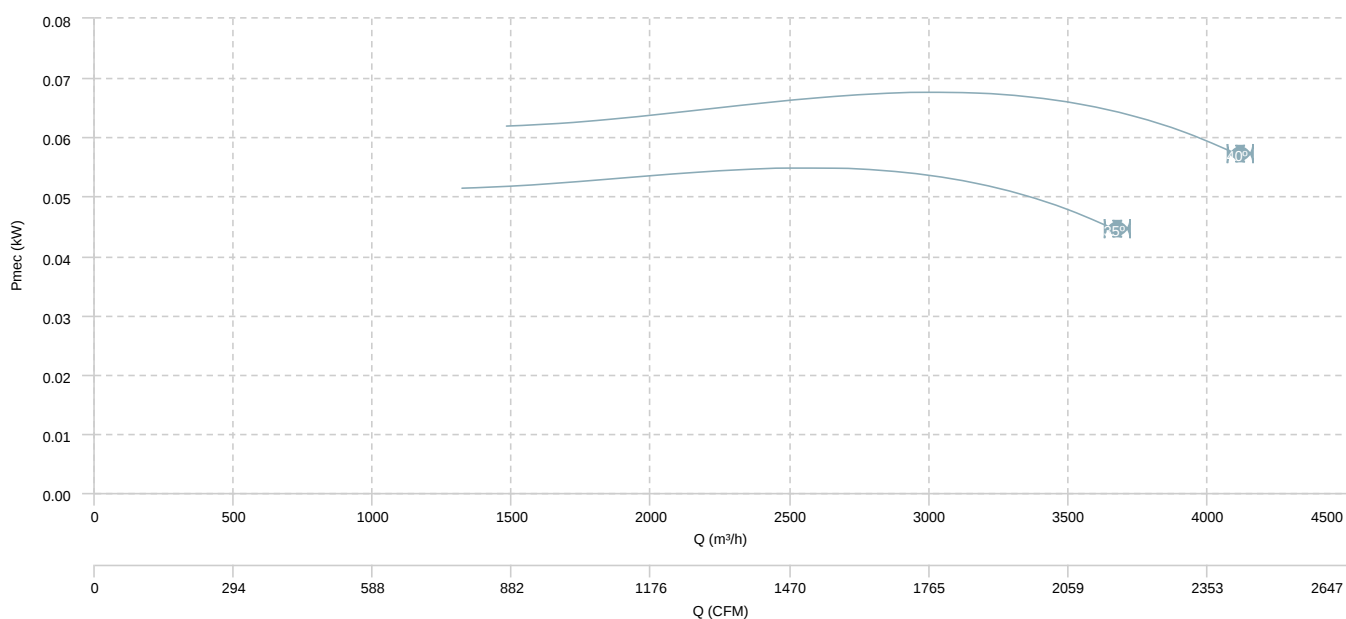


HMA 45 T6 (A0:6)

AIR FLOW - PRESSURE

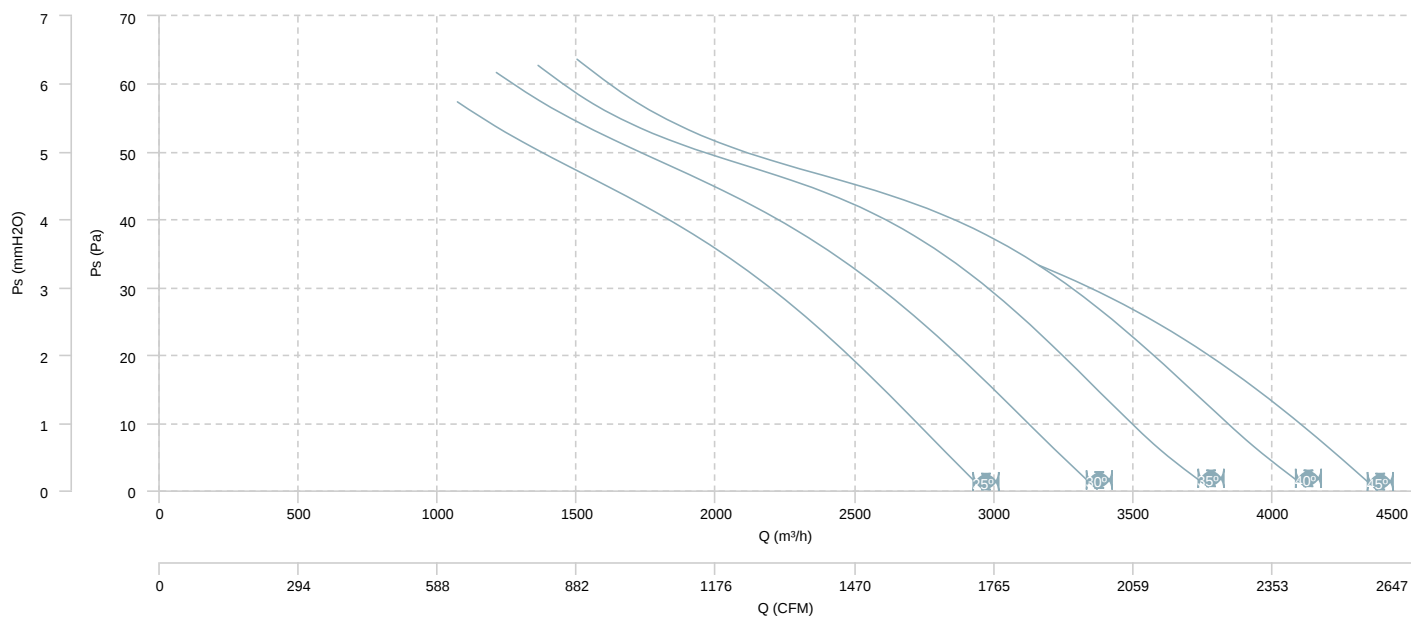


AIR FLOW - MECHANICAL POWER

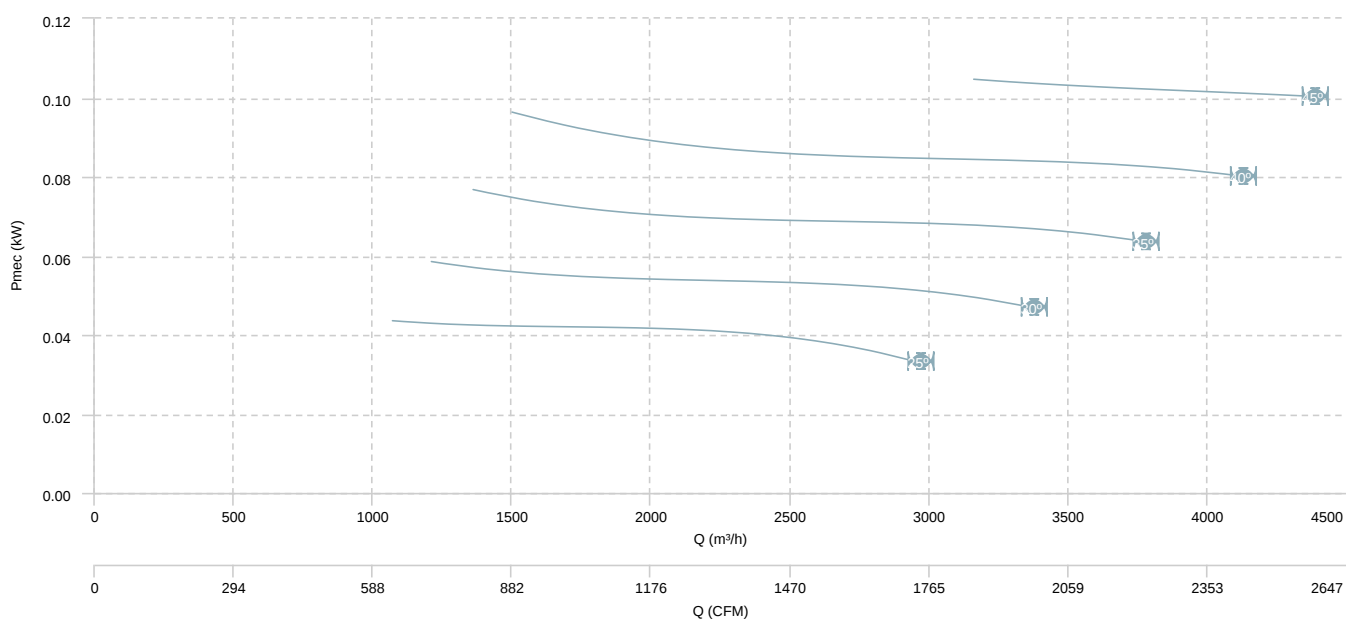


HMA 45 T6 (A5:6)

AIR FLOW - PRESSURE

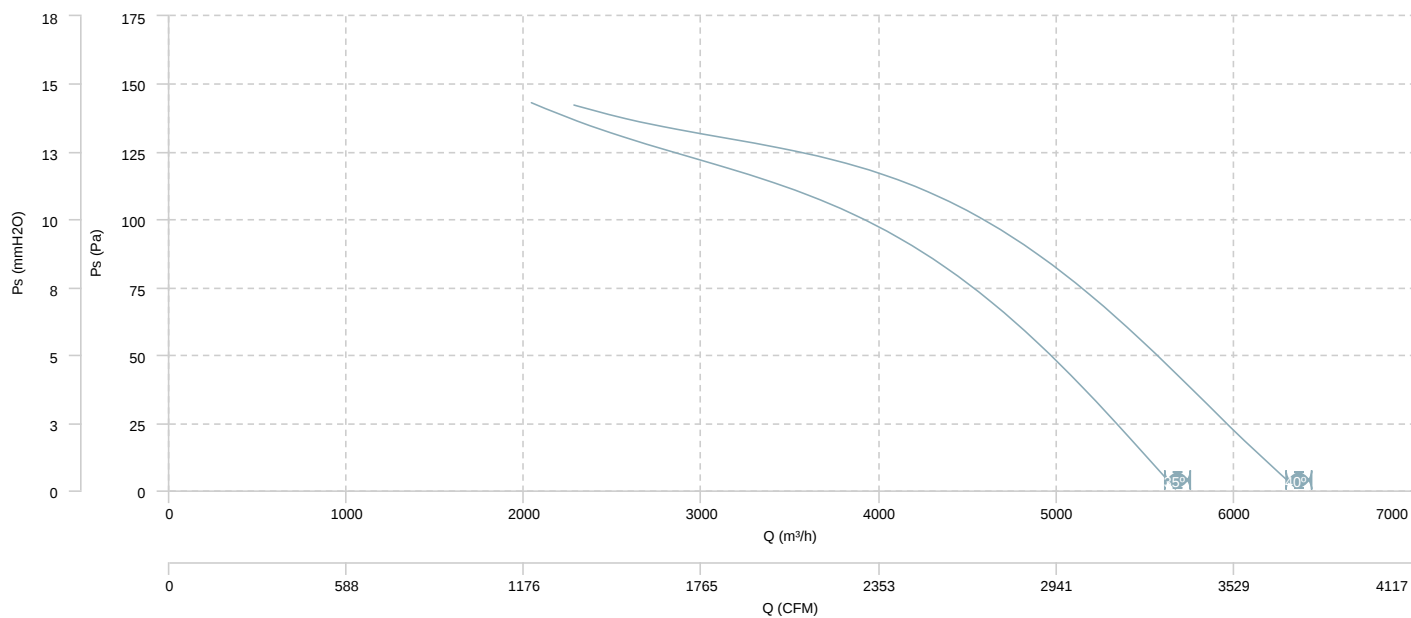


AIR FLOW - MECHANICAL POWER

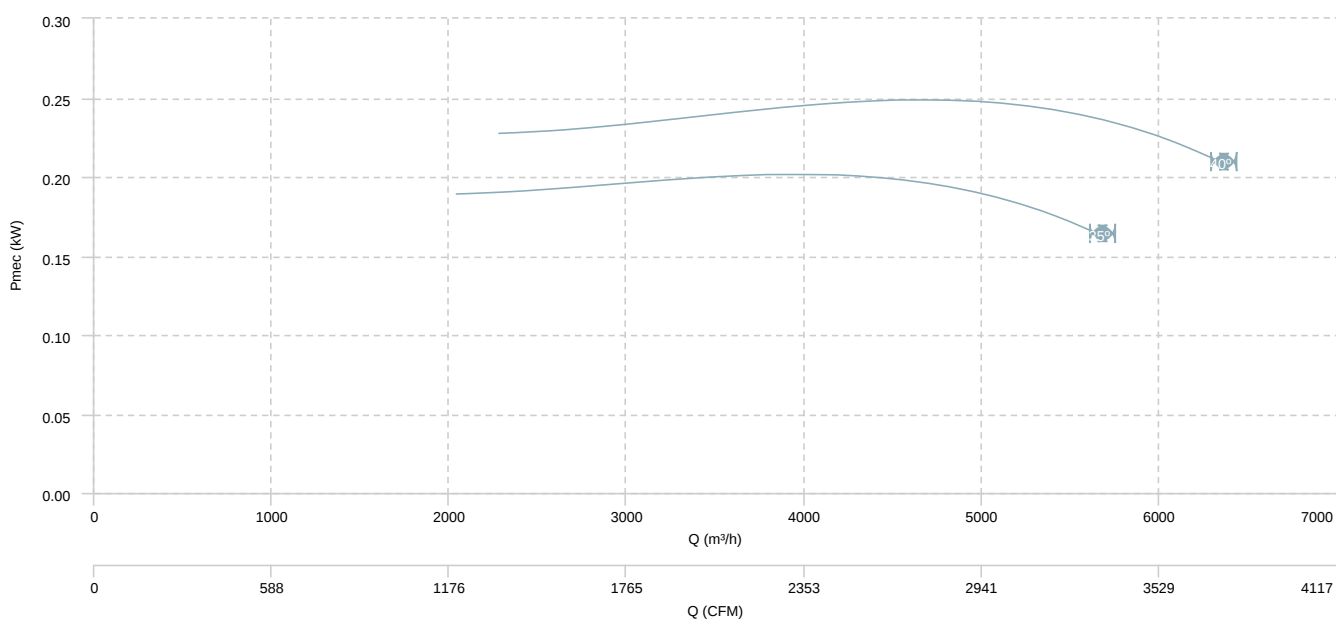


HMA 45 T4/T8 (A0:6)

AIR FLOW - PRESSURE (4 poles)

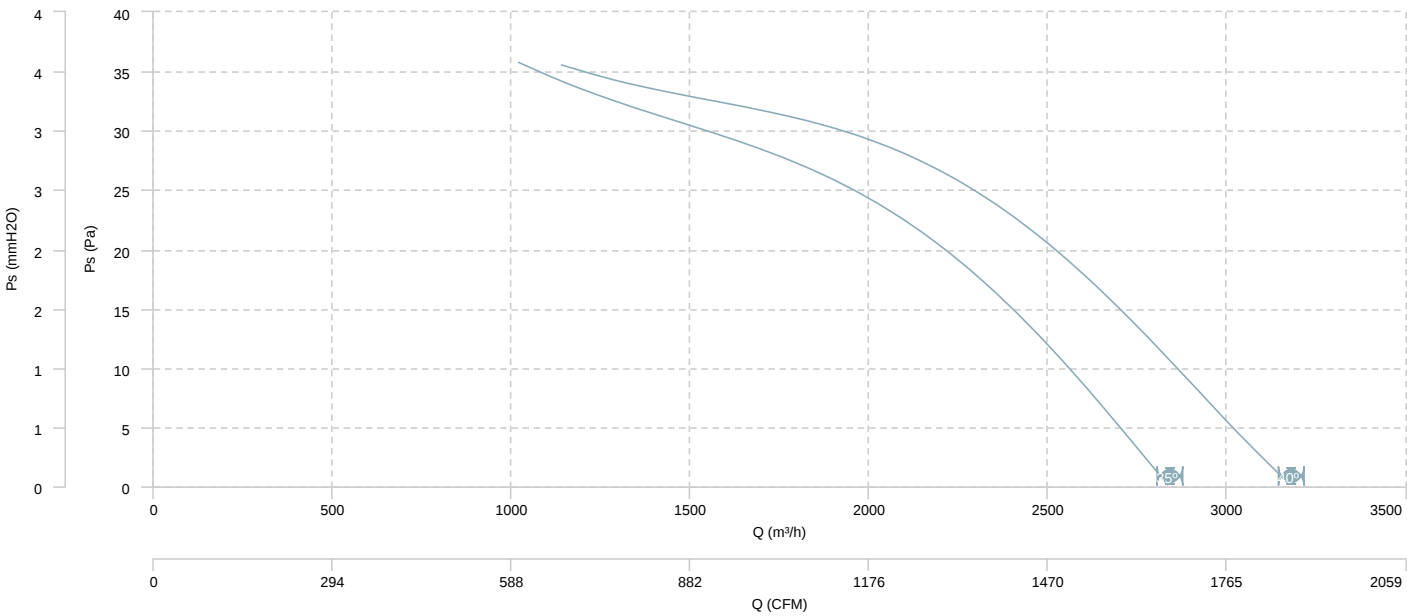


AIR FLOW - MECHANICAL POWER (4 poles)

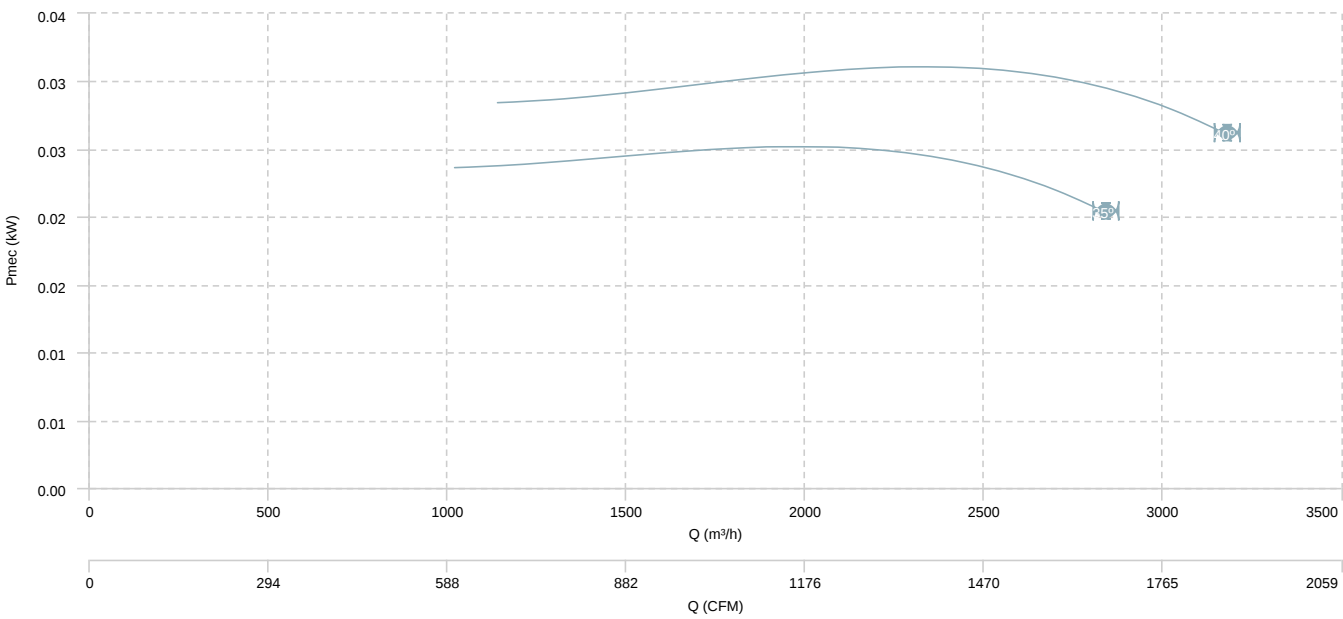


HMA 45 T4/T8 (A0:6)

AIR FLOW - PRESSURE (8 poles)

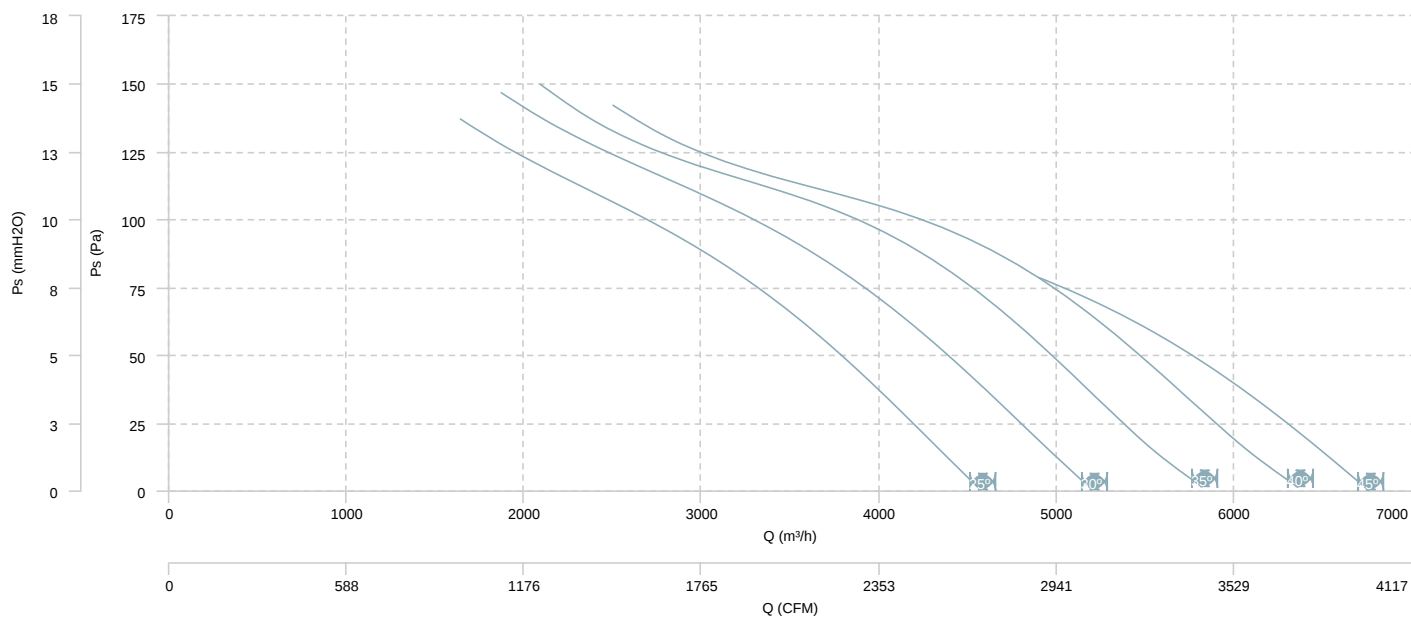


AIR FLOW - MECHANICAL POWER (8 poles)

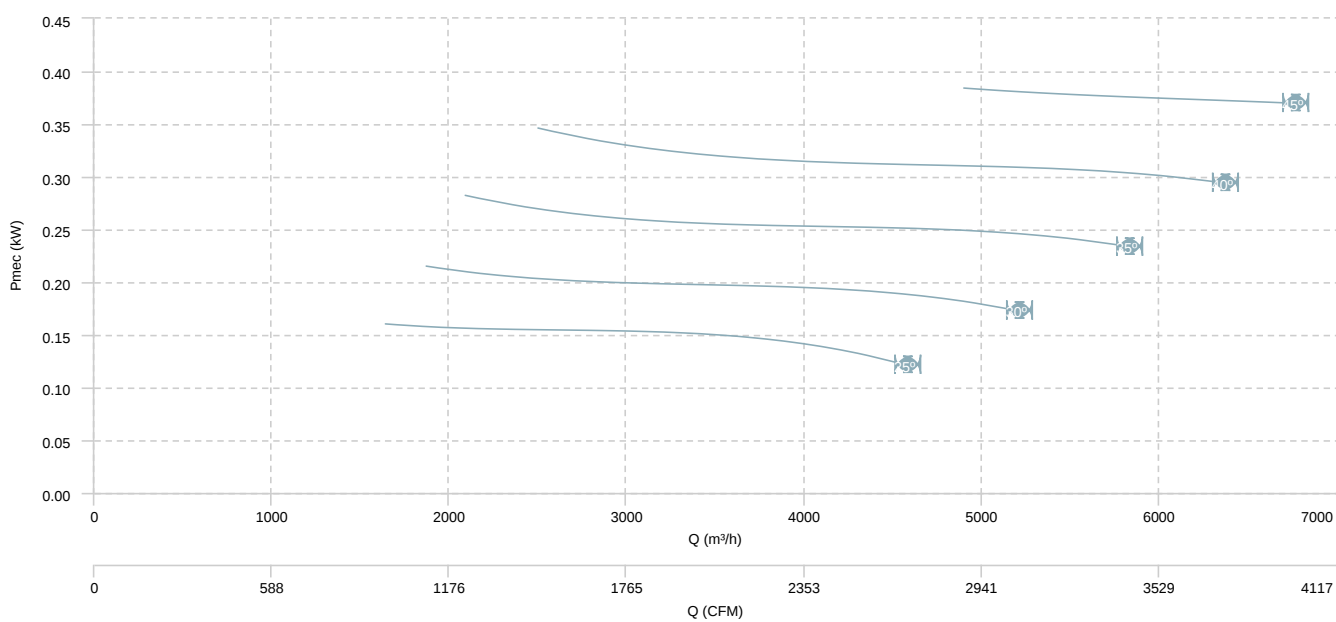


HMA 45 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

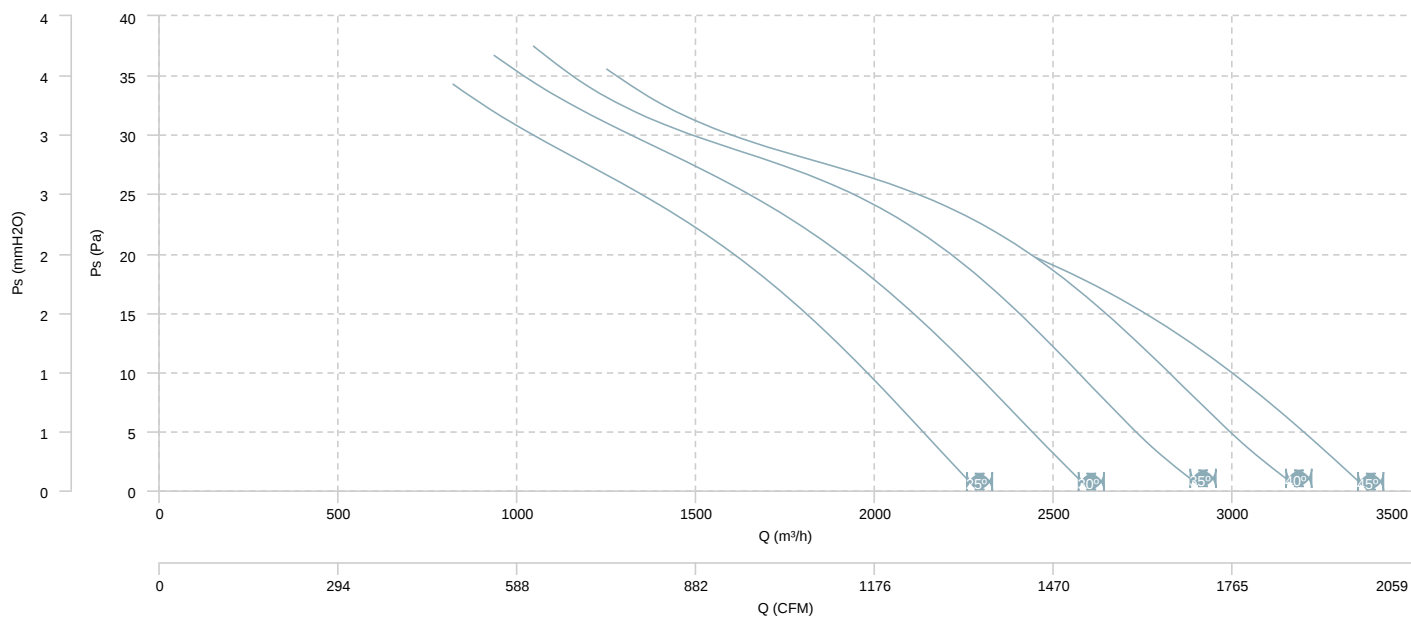


AIR FLOW - MECHANICAL POWER (4 poles)

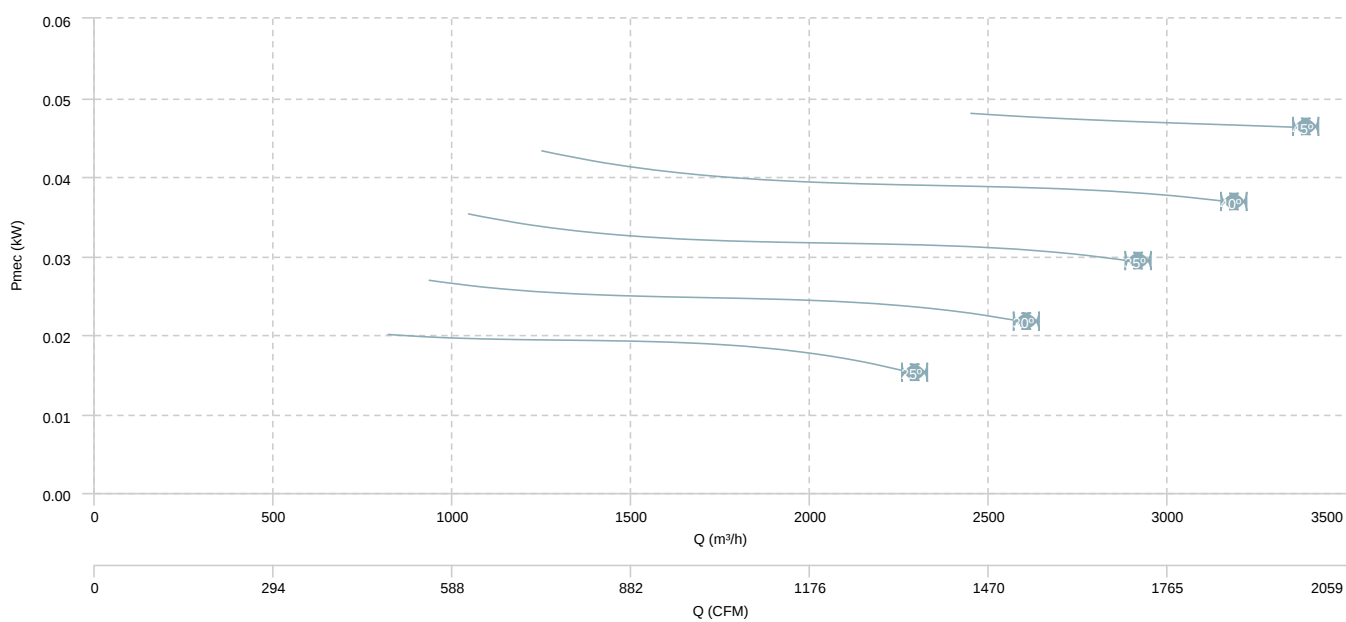


HMA 45 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

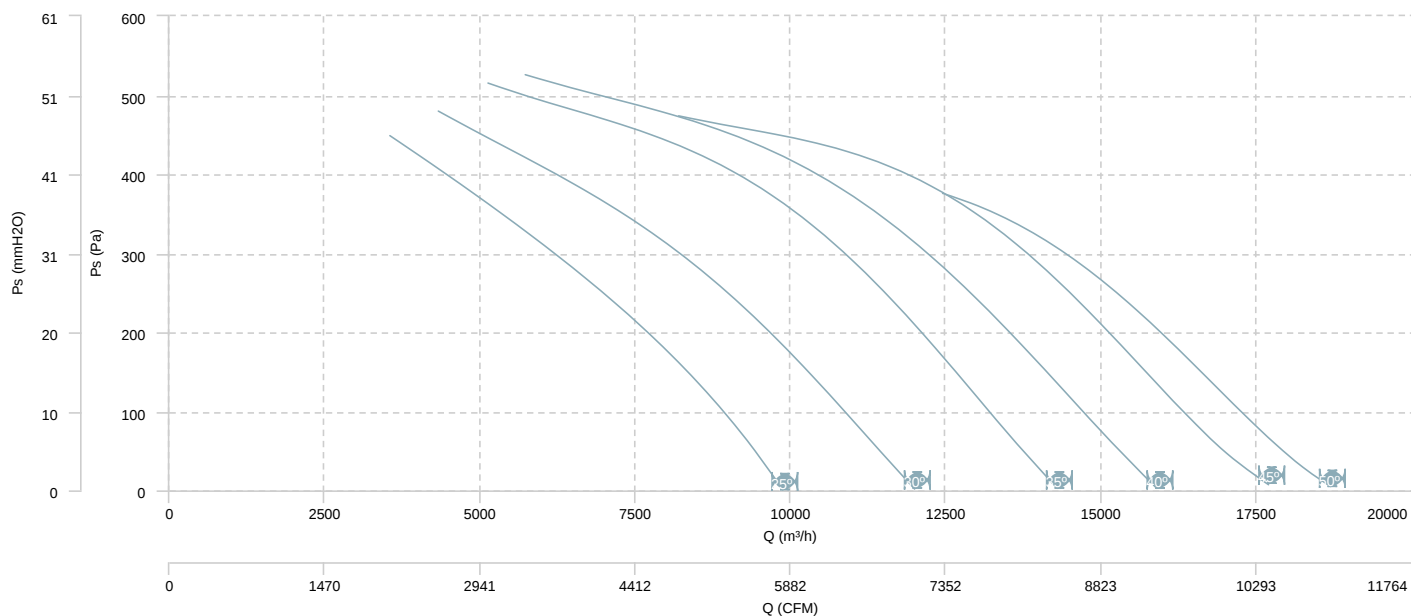


AIR FLOW - MECHANICAL POWER (8 poles)

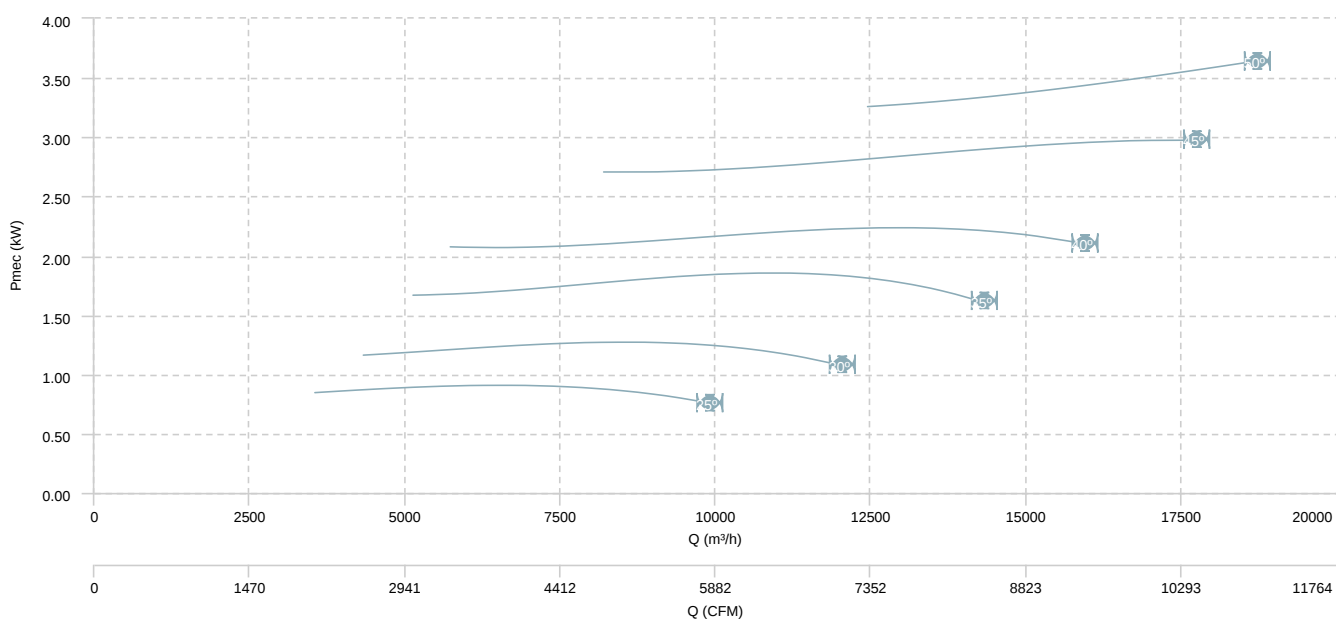


HMA 50 T2 (A9:4)

AIR FLOW - PRESSURE

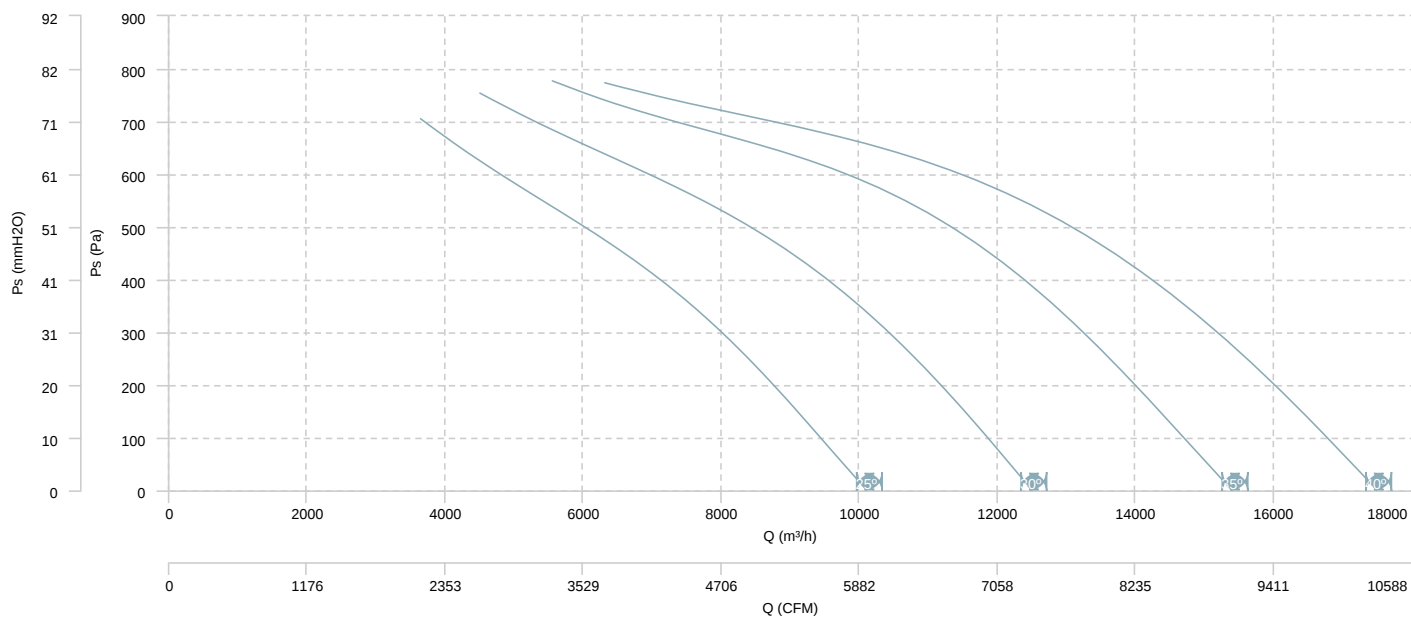


AIR FLOW - MECHANICAL POWER

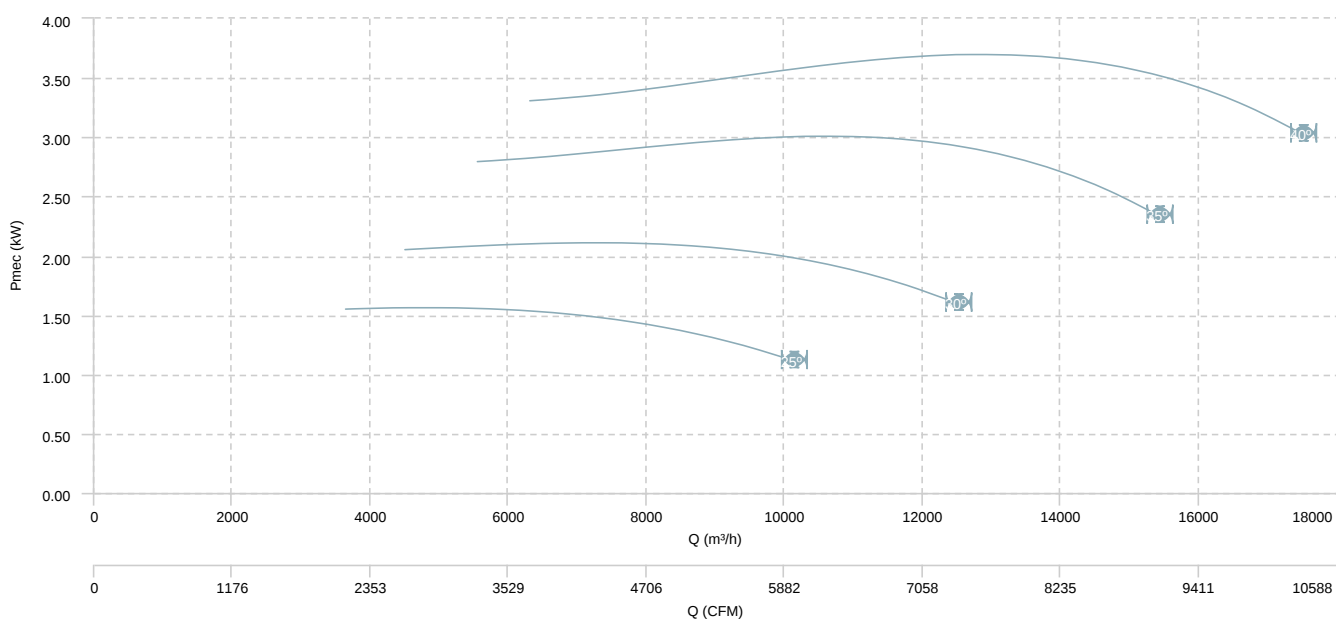


HMA 50 T2 (A9:8)

AIR FLOW - PRESSURE

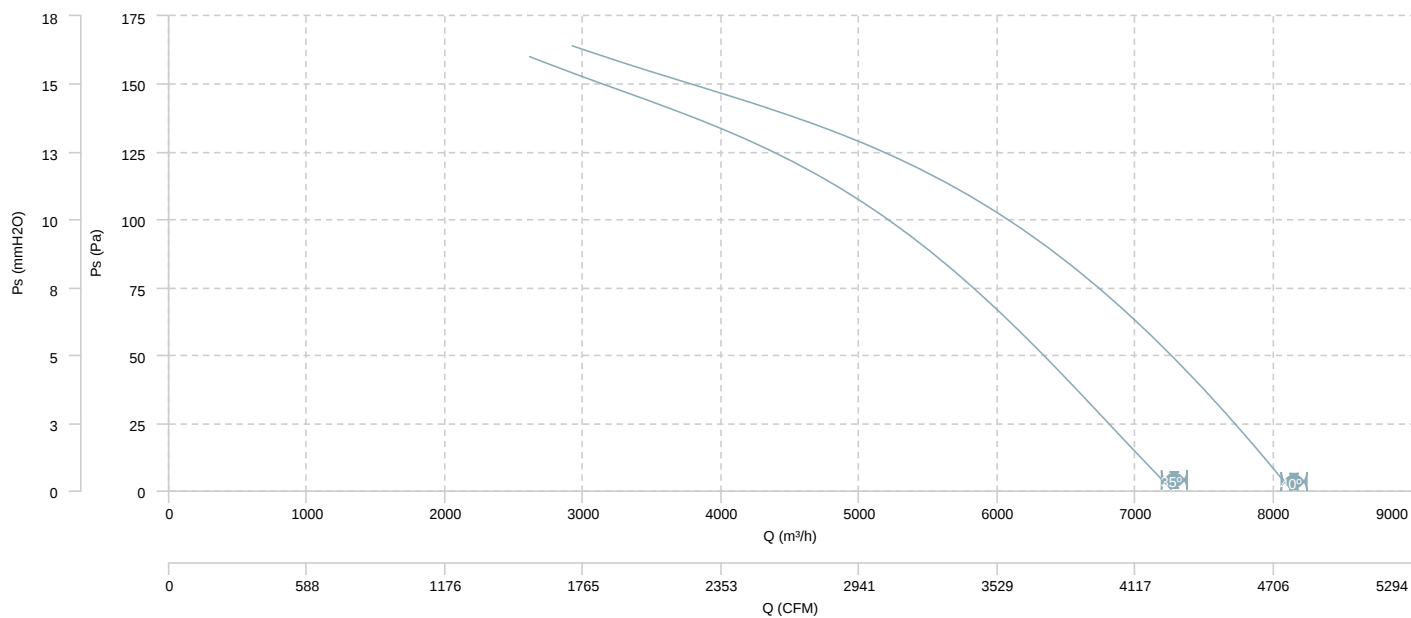


AIR FLOW - MECHANICAL POWER

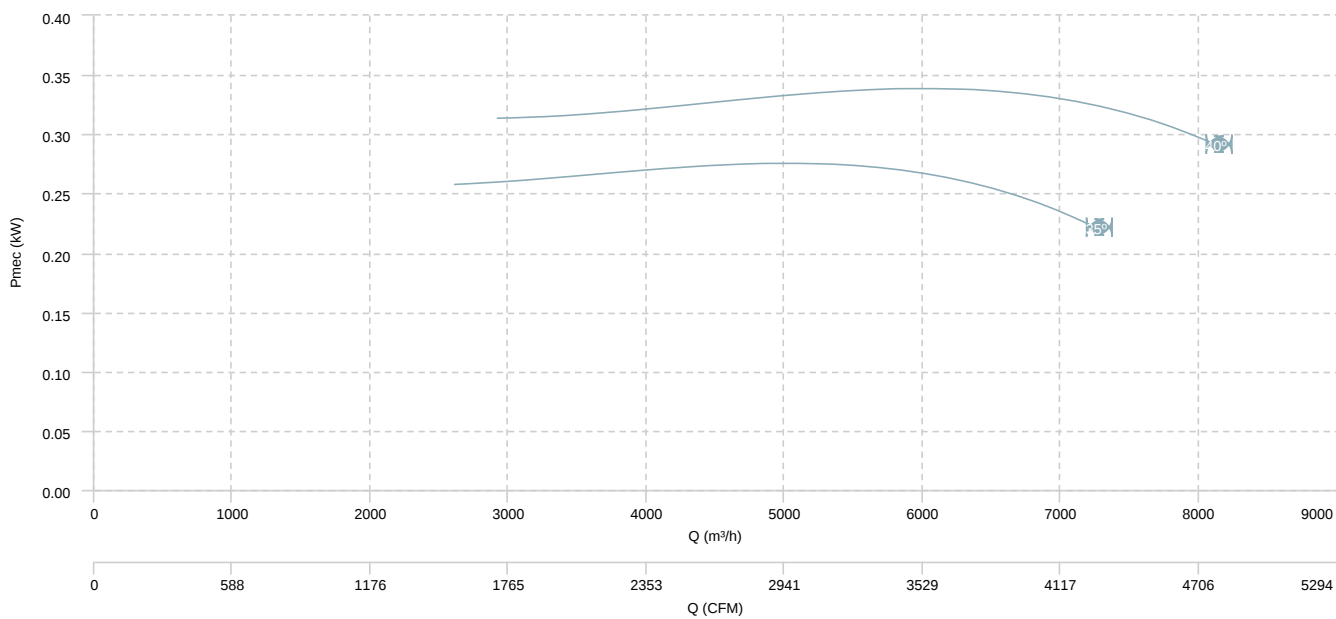


HMA 50 T4 (A0:6)

AIR FLOW - PRESSURE

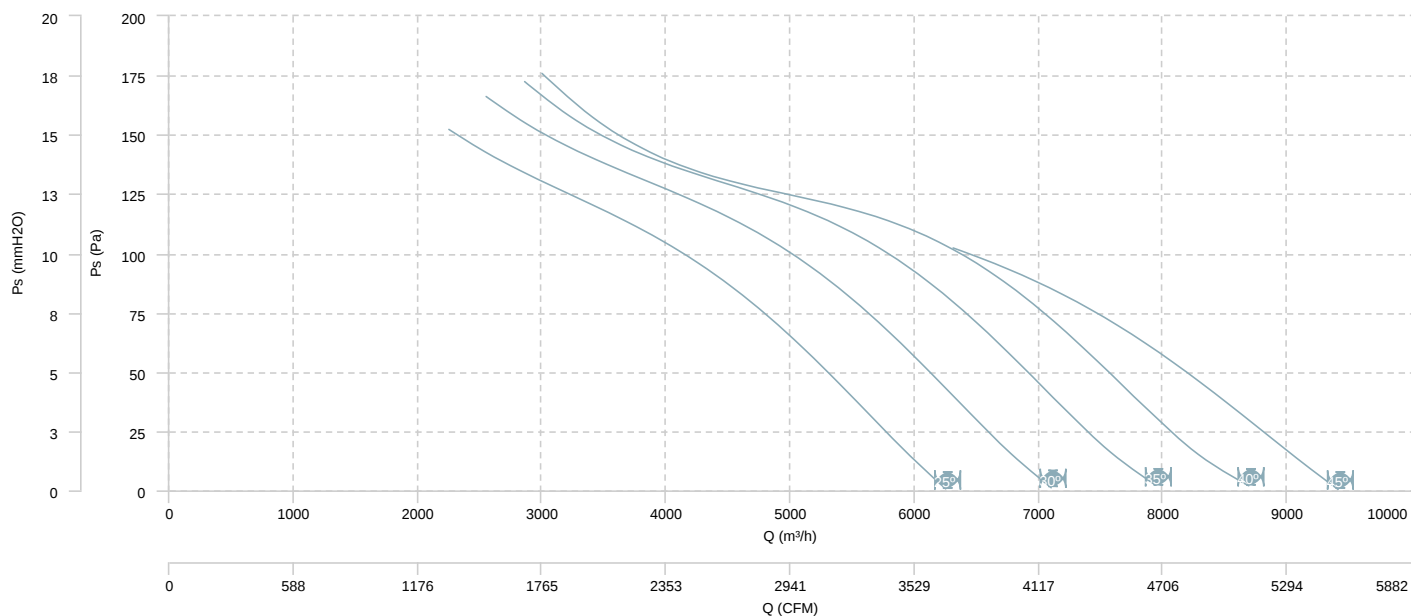


AIR FLOW - MECHANICAL POWER

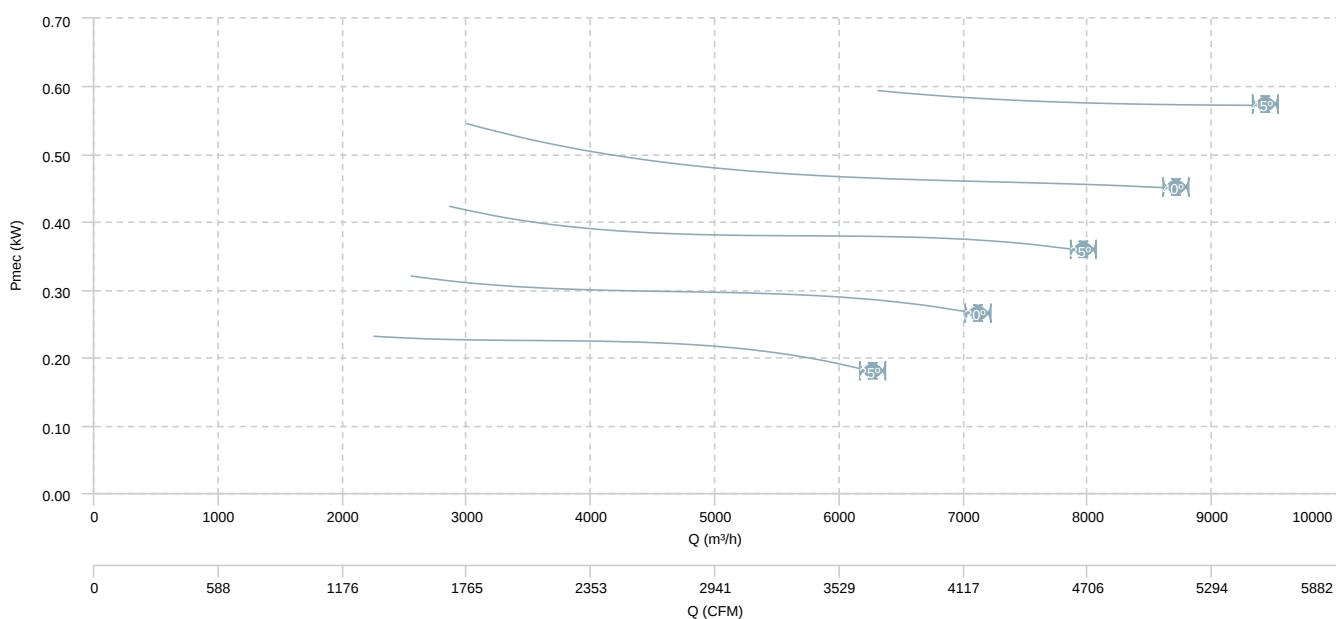


HMA 50 T4 (A5:6)

AIR FLOW - PRESSURE

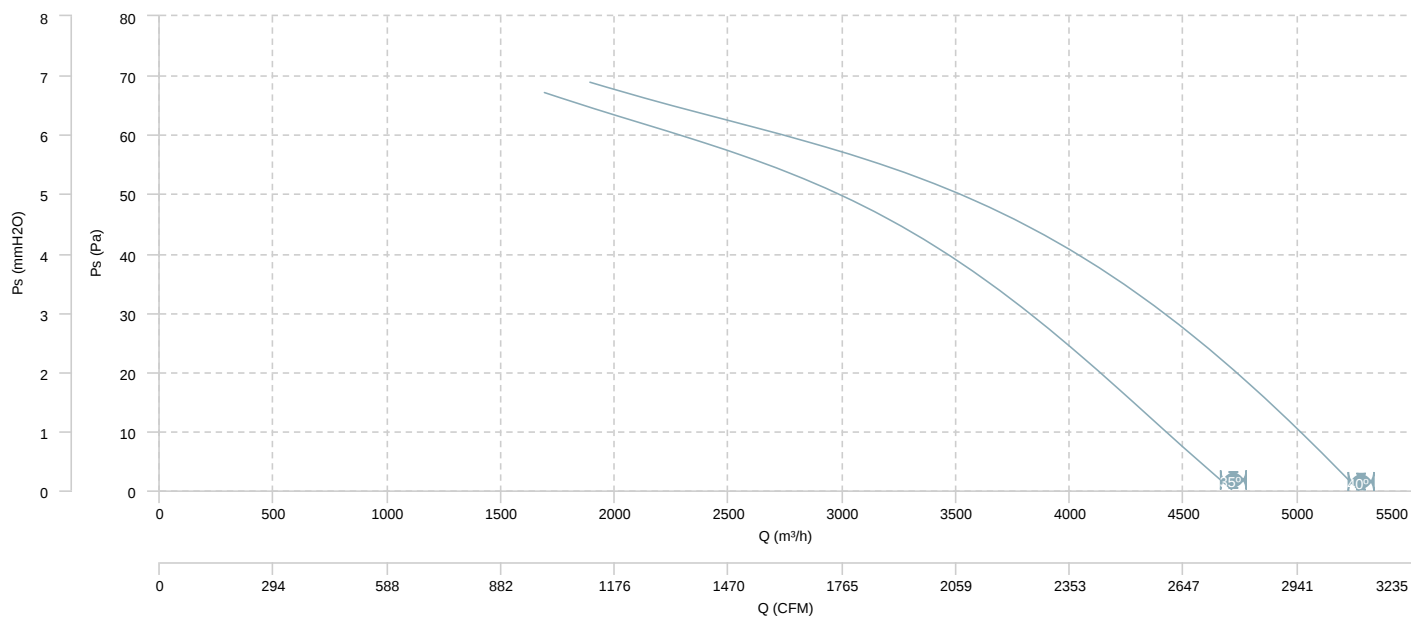


AIR FLOW - MECHANICAL POWER

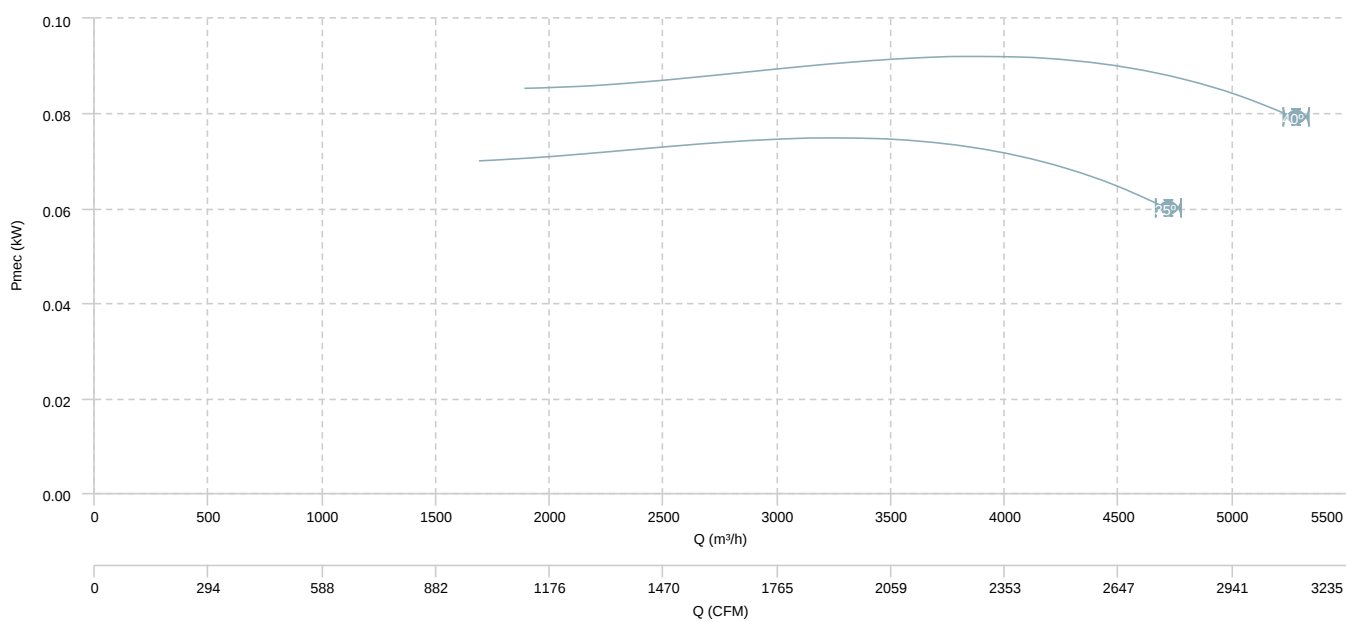


HMA 50 T6 (A0:6)

AIR FLOW - PRESSURE

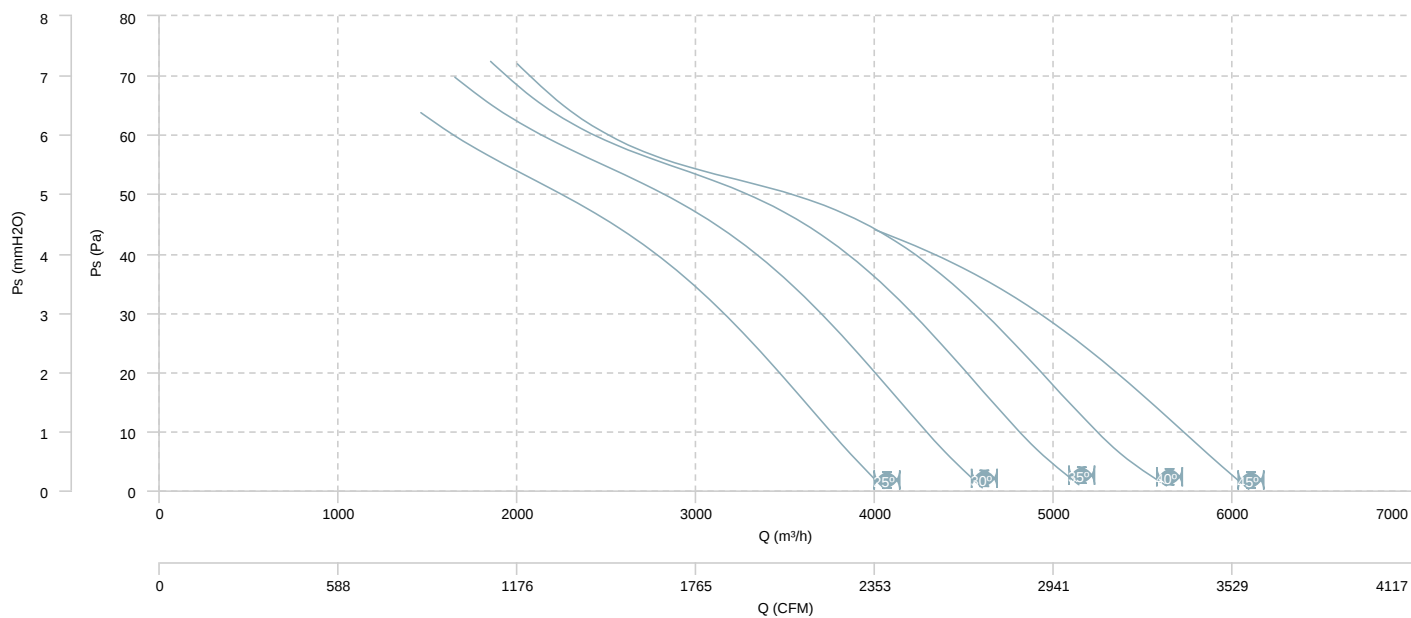


AIR FLOW - MECHANICAL POWER

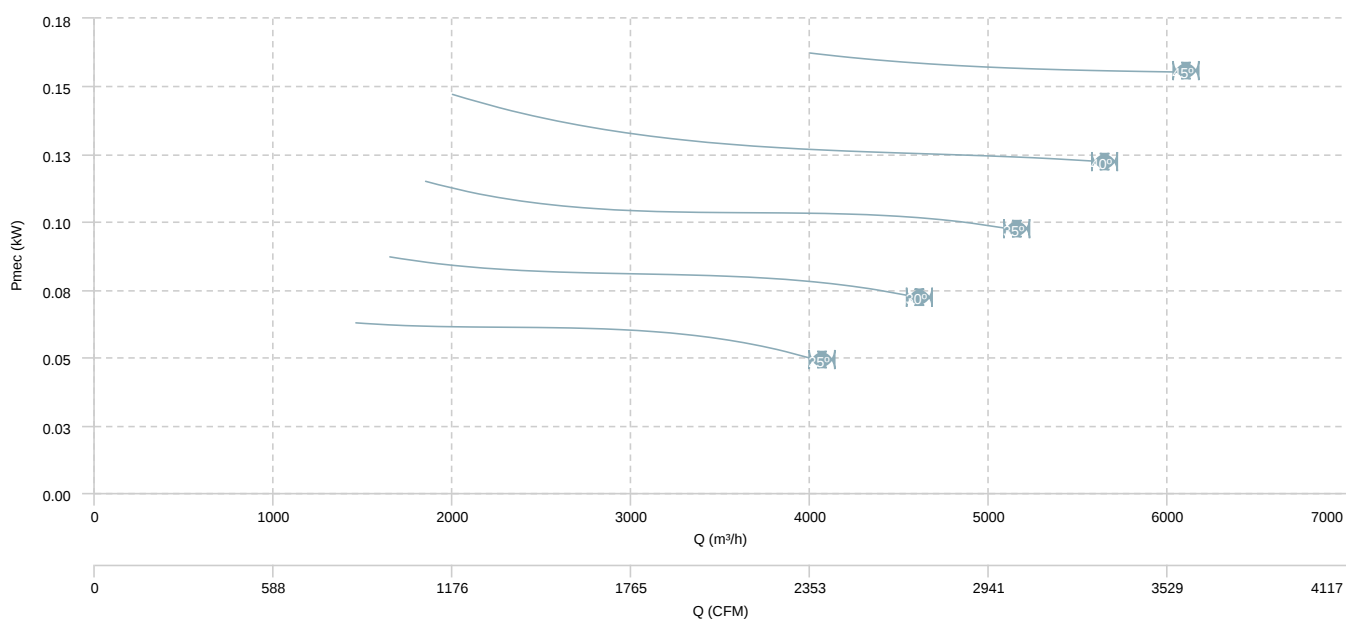


HMA 50 T6 (A5:6)

AIR FLOW - PRESSURE

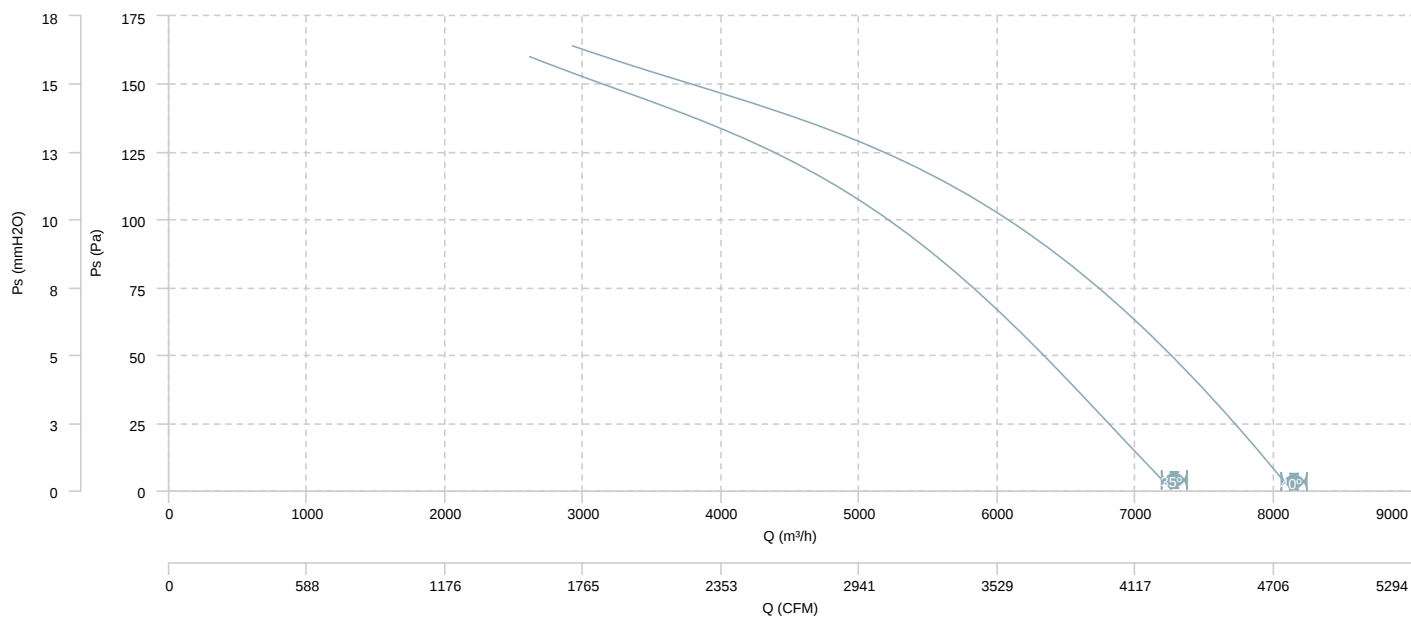


AIR FLOW - MECHANICAL POWER

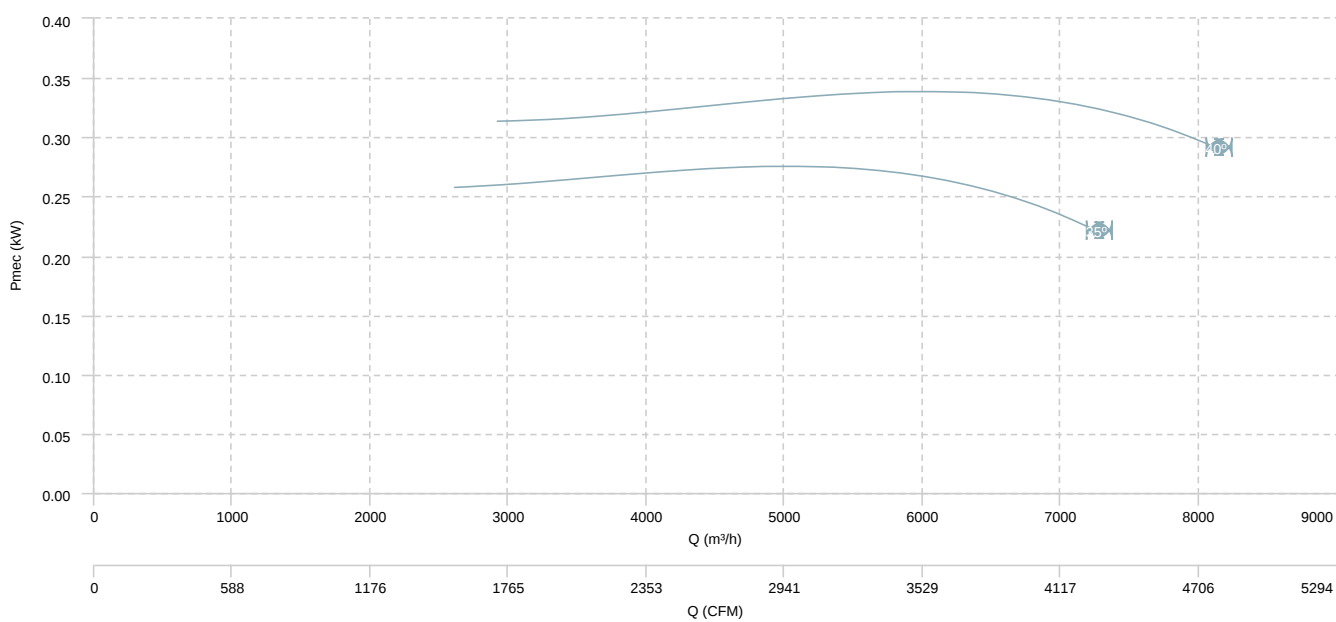


HMA 50 T4/T8 (A0:6)

AIR FLOW - PRESSURE (4 poles)

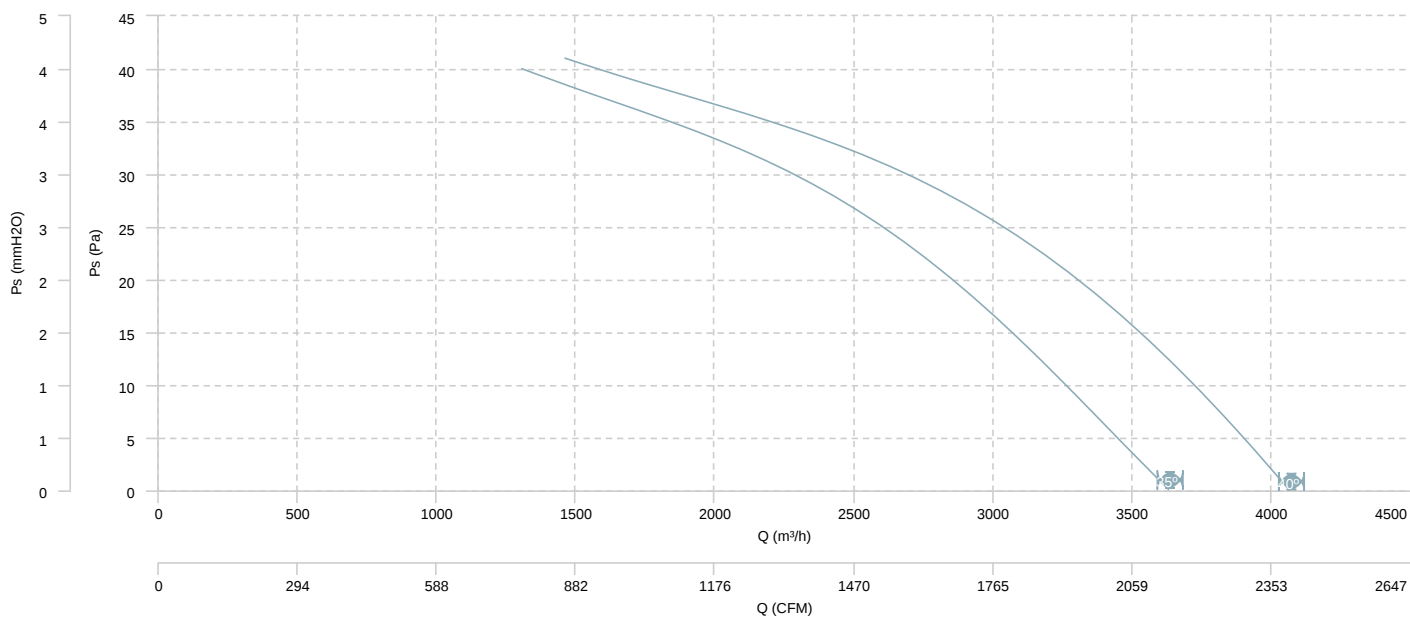


AIR FLOW - MECHANICAL POWER (4 poles)

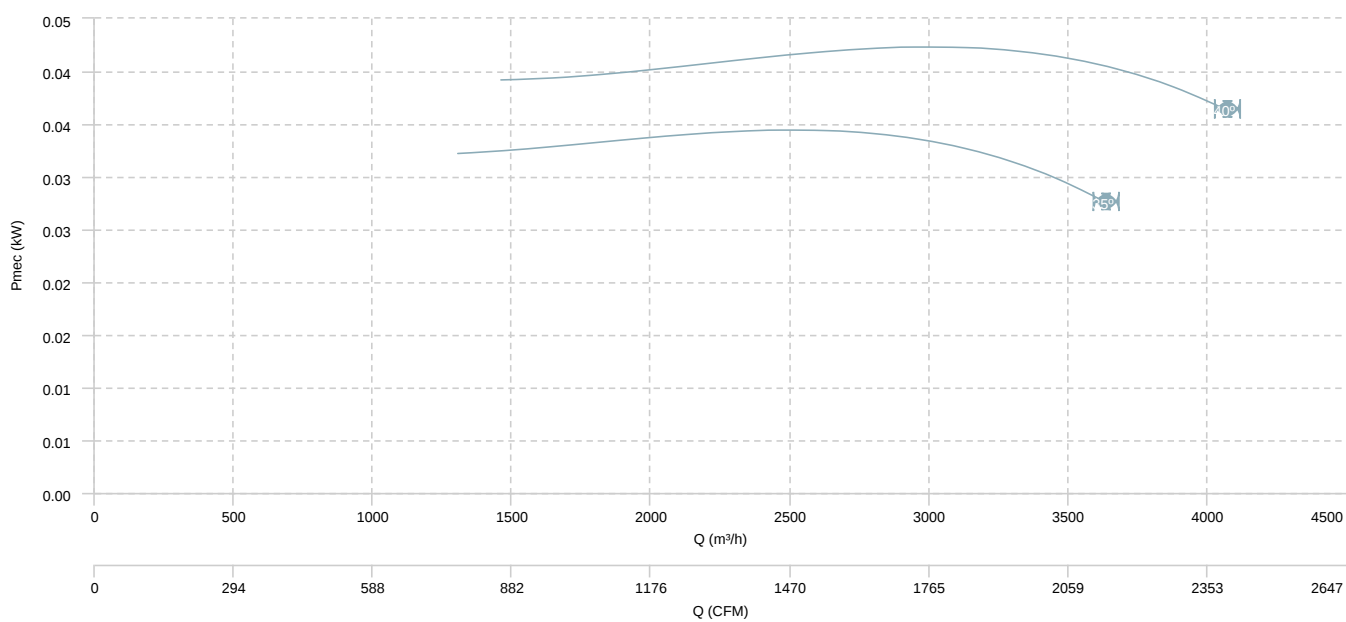


HMA 50 T4/T8 (A0:6)

AIR FLOW - PRESSURE (8 poles)

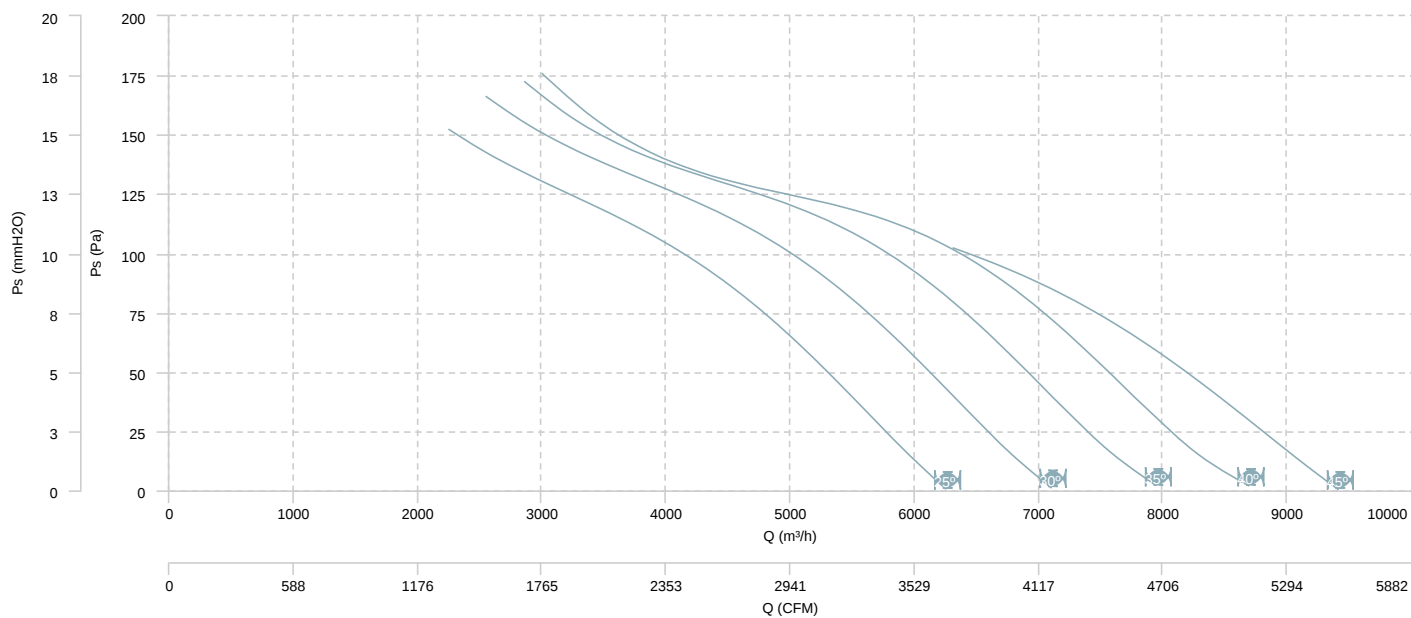


AIR FLOW - MECHANICAL POWER (8 poles)

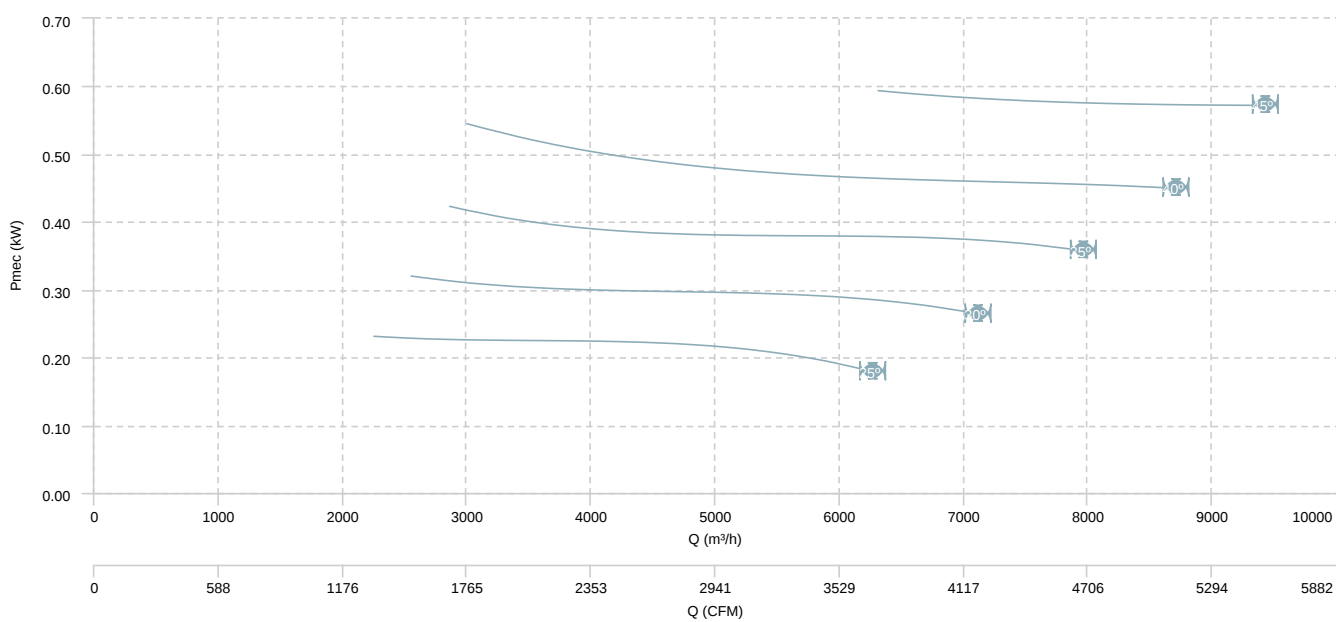


HMA 50 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

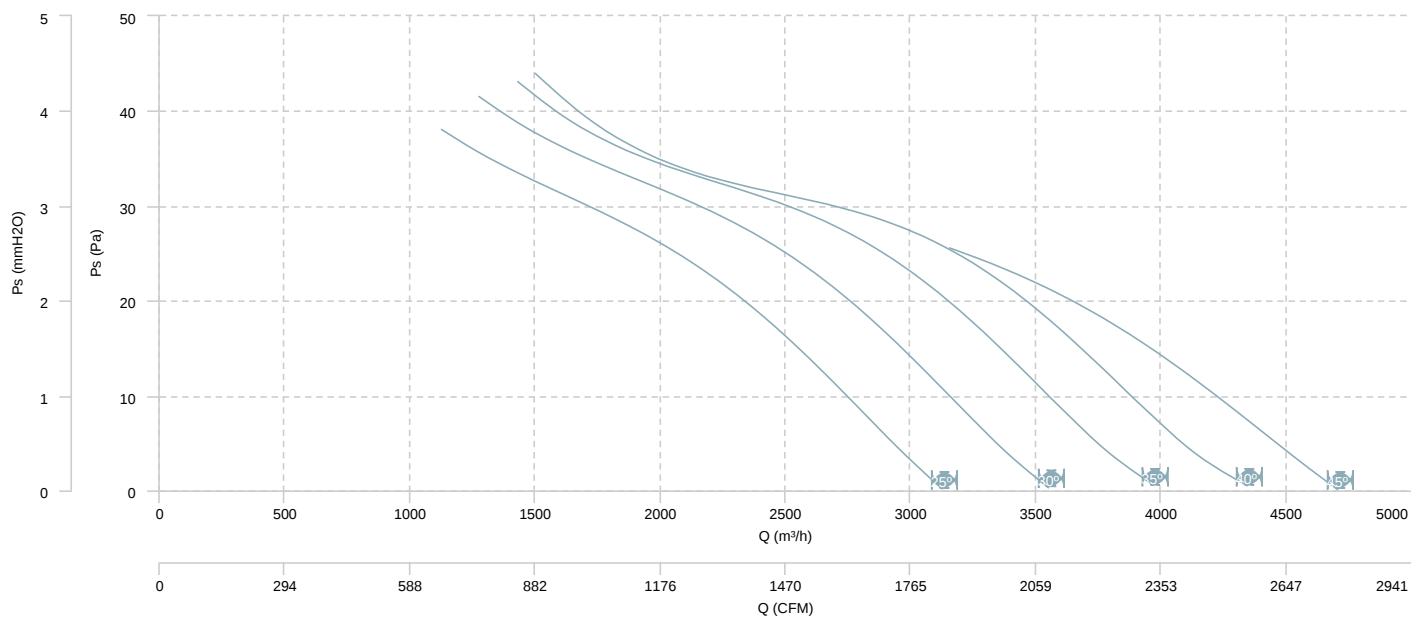


AIR FLOW - MECHANICAL POWER (4 poles)

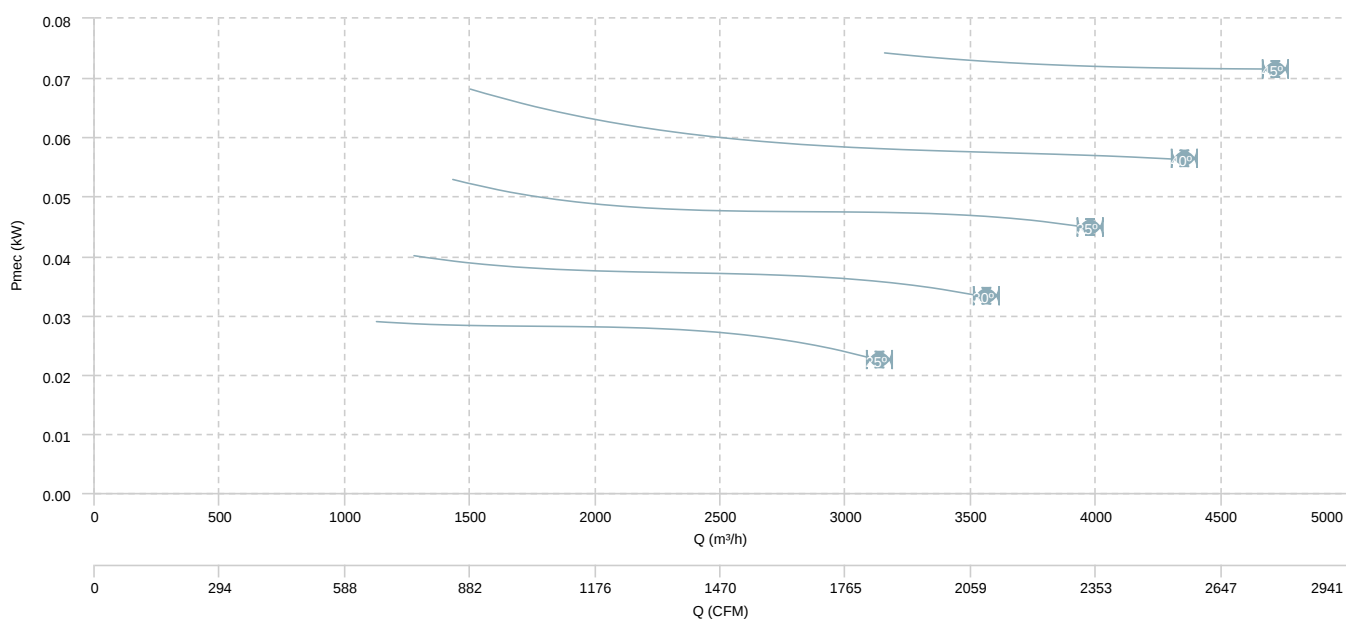


HMA 50 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

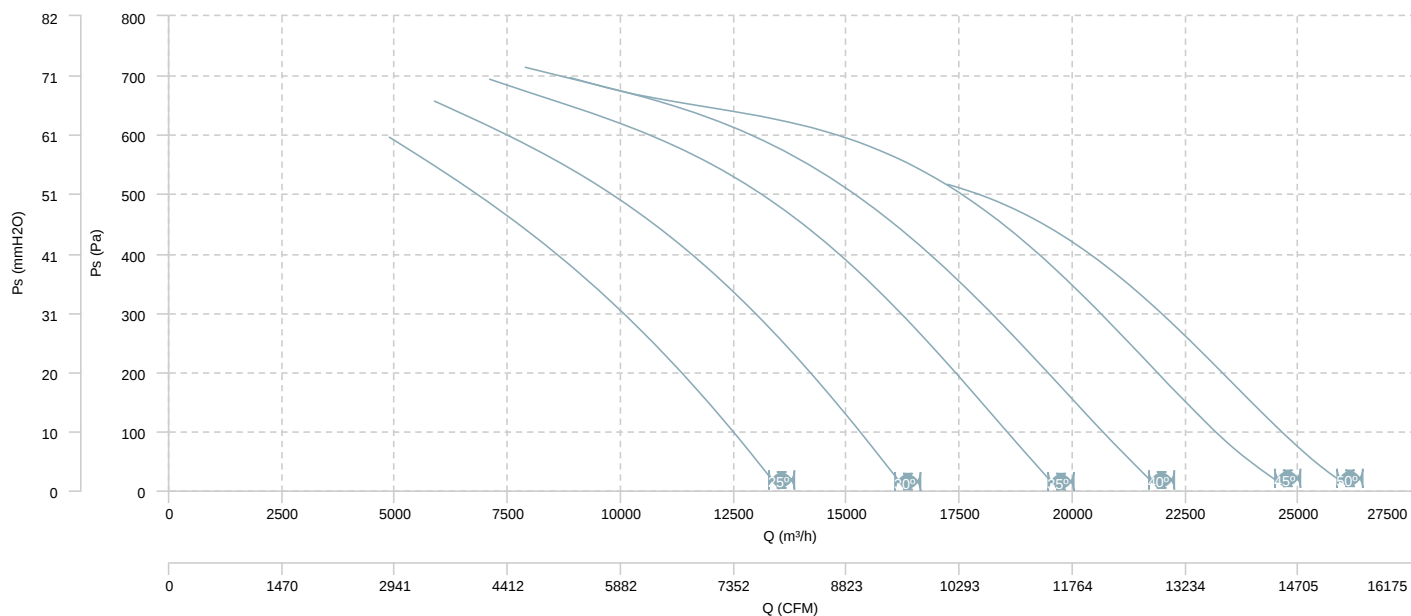


AIR FLOW - MECHANICAL POWER (8 poles)

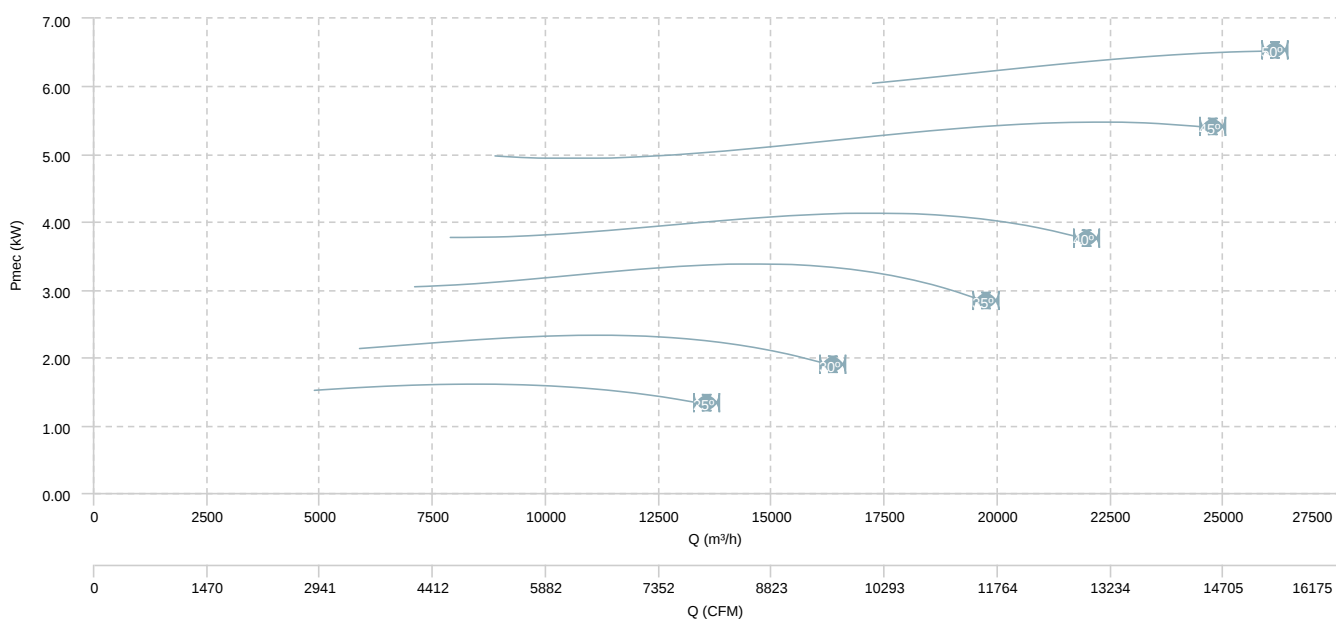


HMA 56 T2 (A9:5)

AIR FLOW - PRESSURE

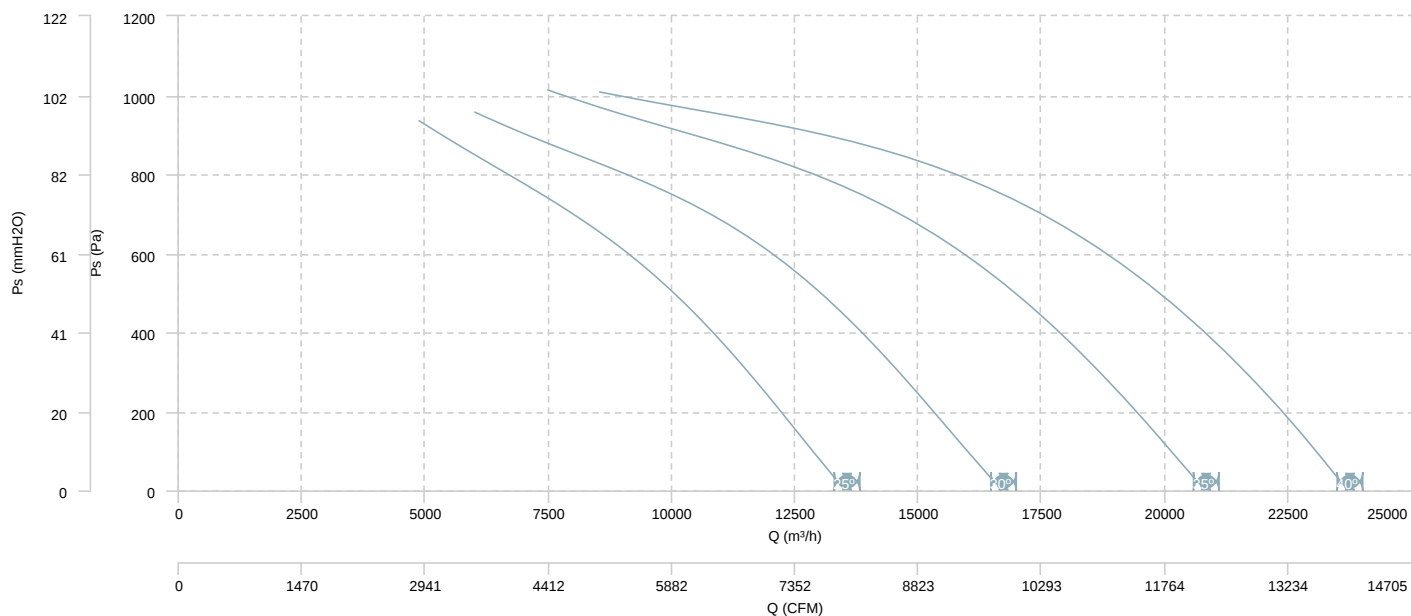


AIR FLOW - MECHANICAL POWER

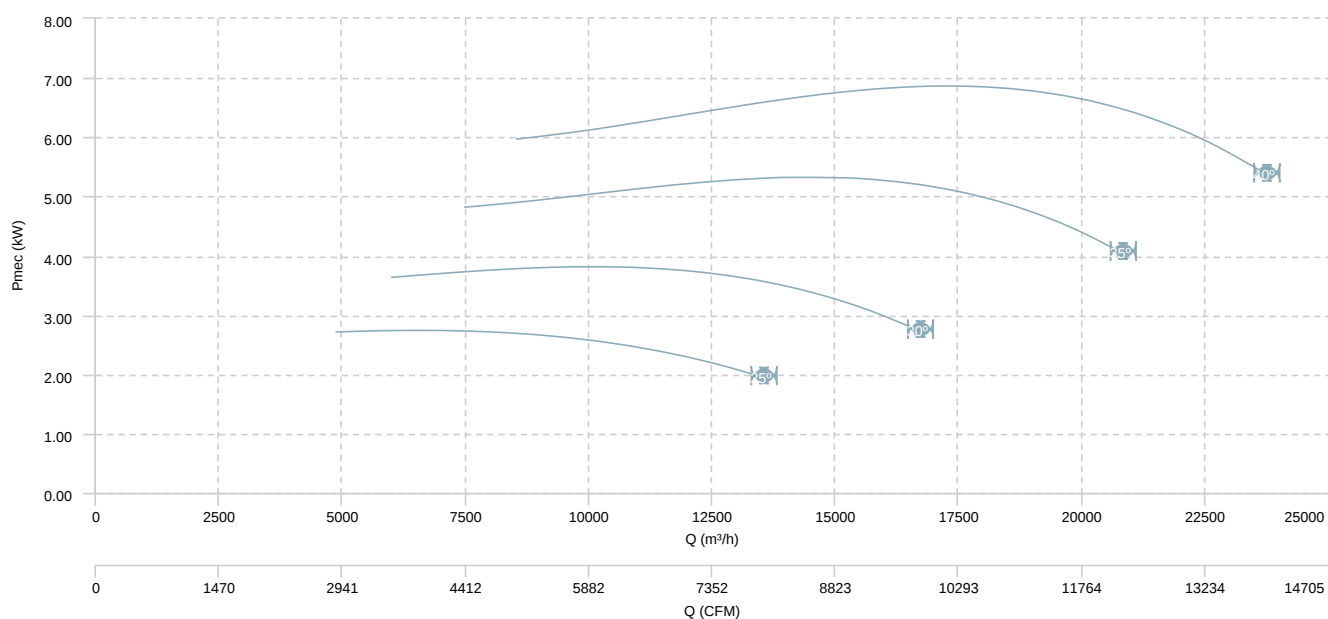


HMA 56 T2 (A9:10)

AIR FLOW - PRESSURE

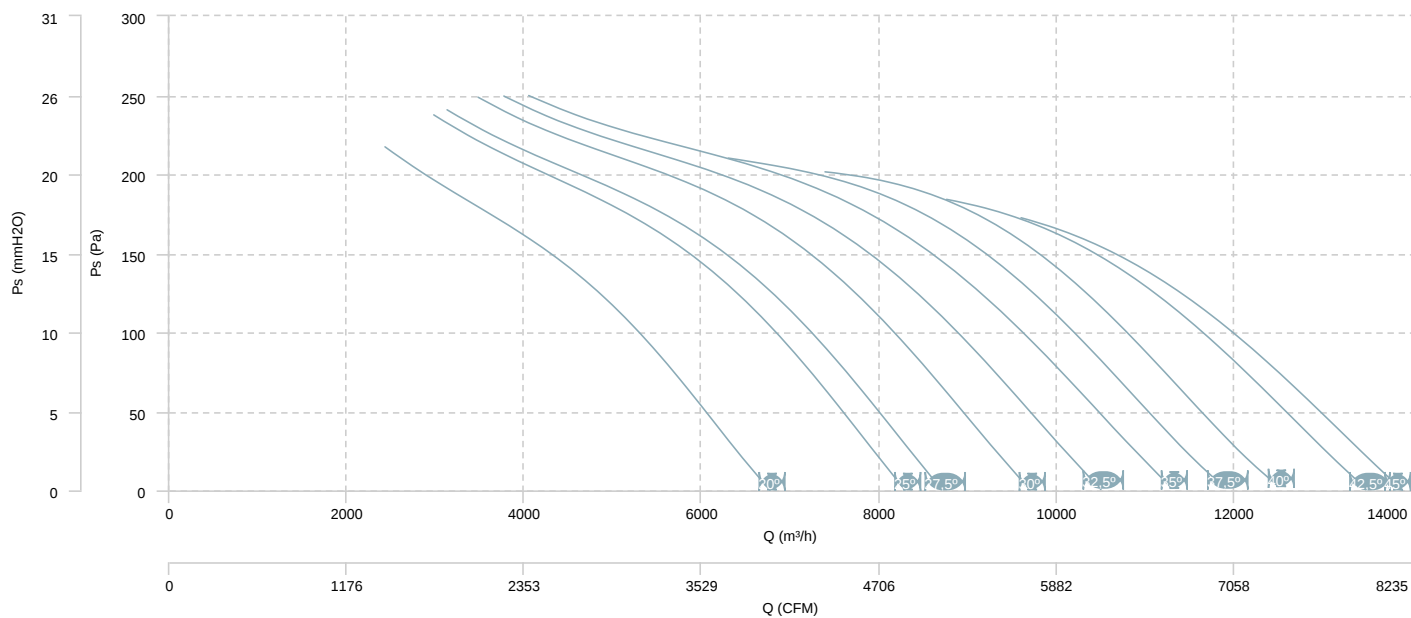


AIR FLOW - MECHANICAL POWER

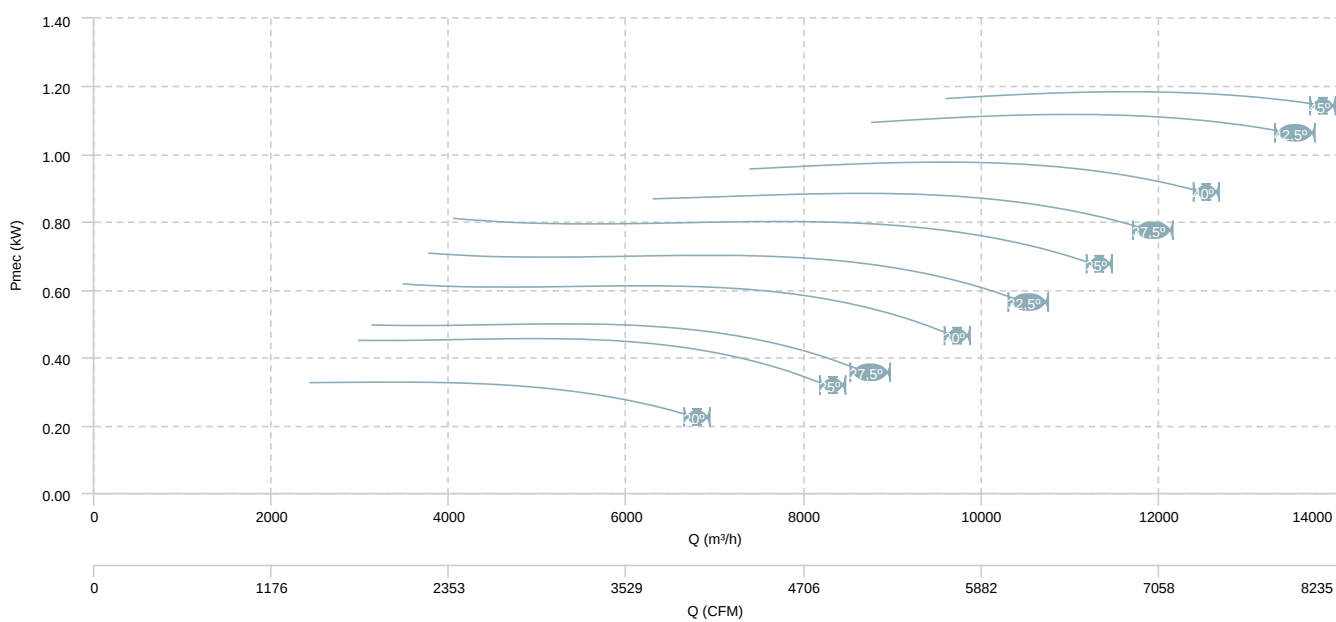


HMA 56 T4 (A2:6)

AIR FLOW - PRESSURE

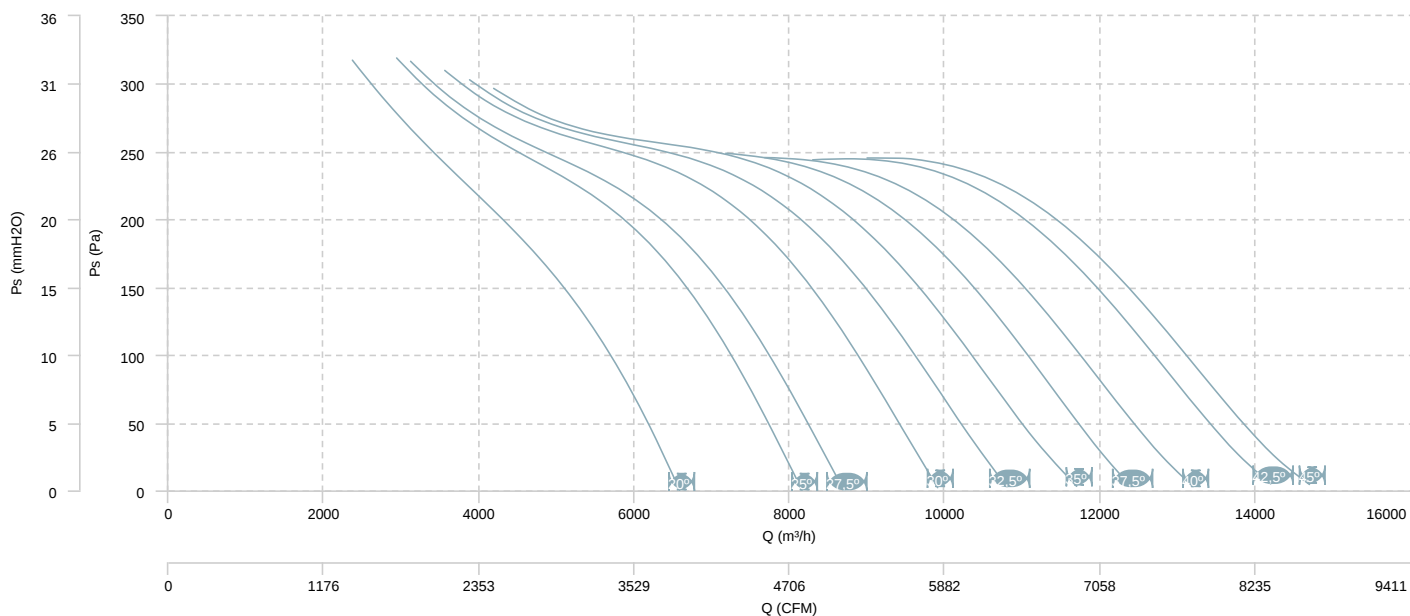


AIR FLOW - MECHANICAL POWER

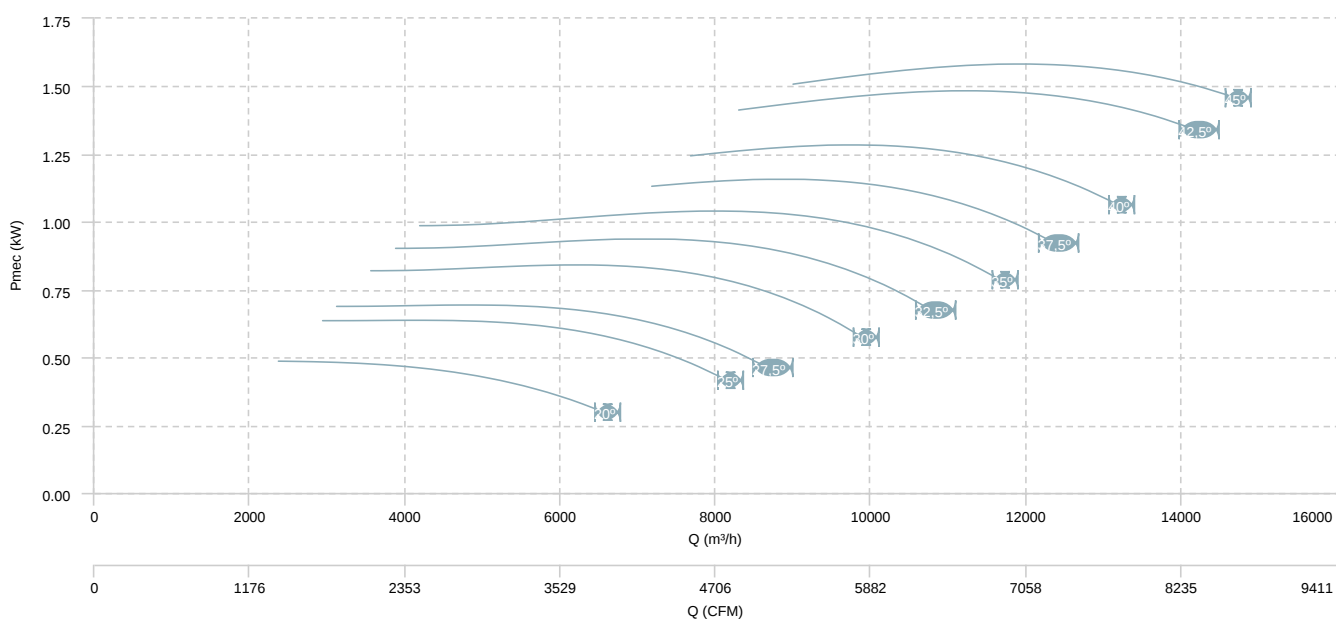


HMA 56 T4 (A2:9)

AIR FLOW - PRESSURE

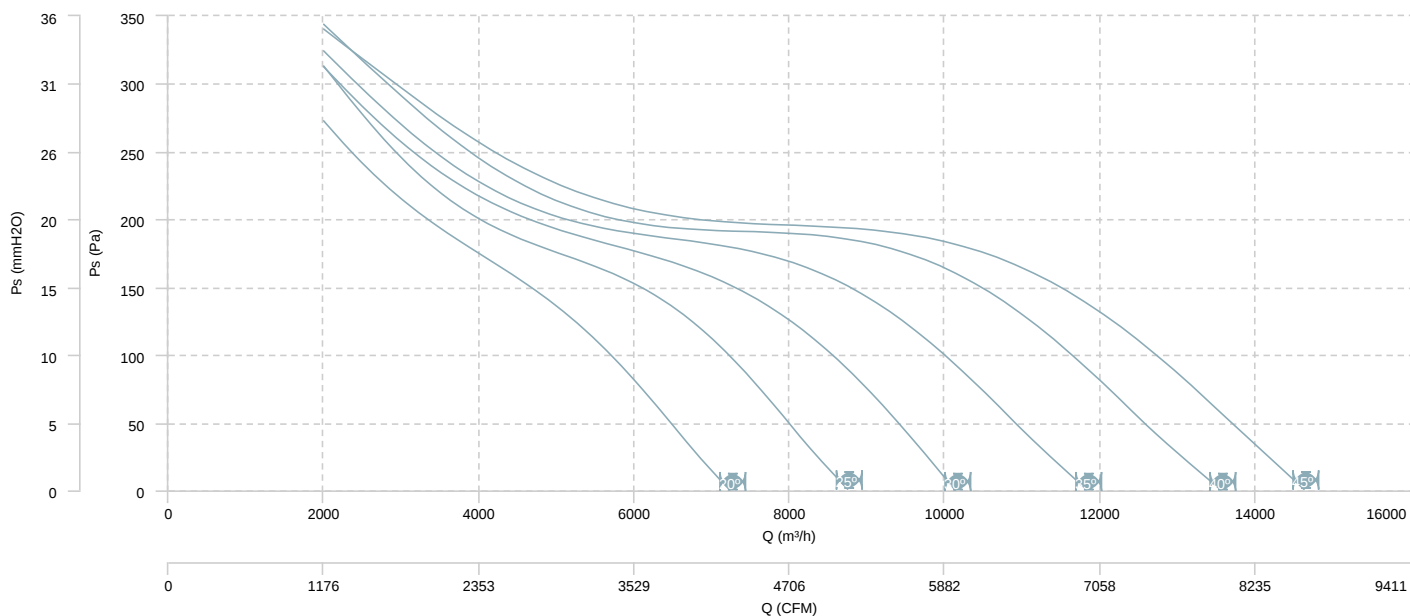


AIR FLOW - MECHANICAL POWER

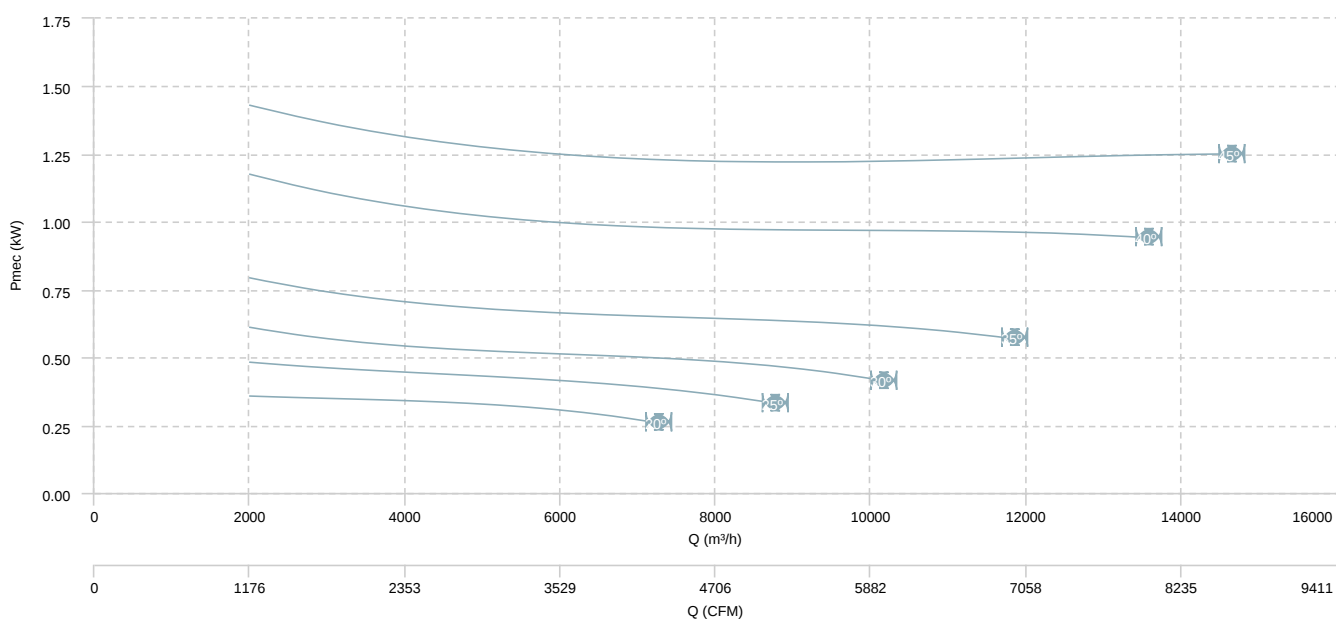


HMA 56 T4 (A5:6)

AIR FLOW - PRESSURE

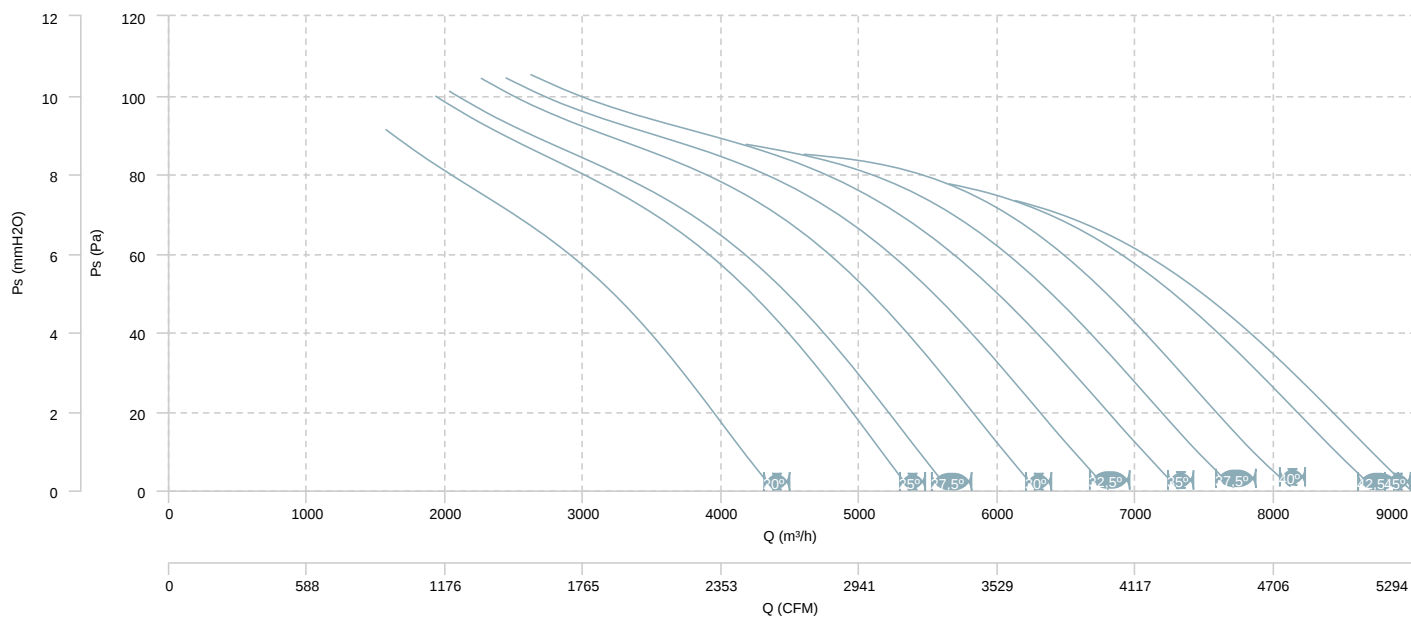


AIR FLOW - MECHANICAL POWER

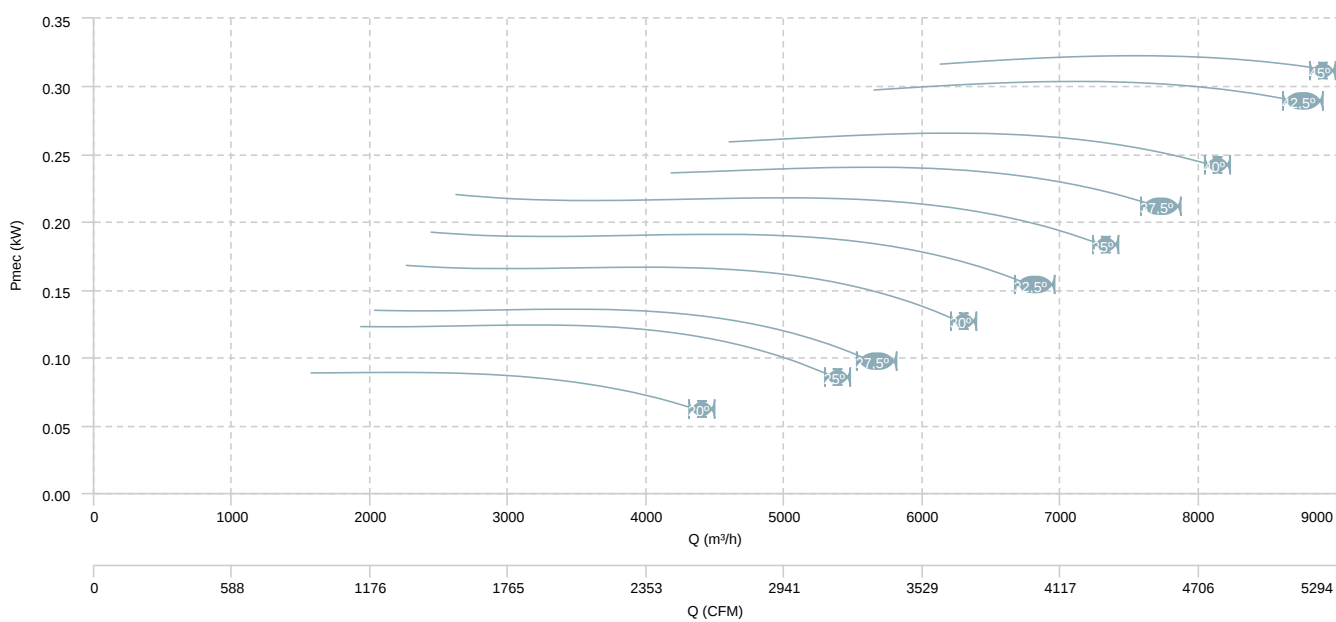


HMA 56 T6 (A2:6)

AIR FLOW - PRESSURE

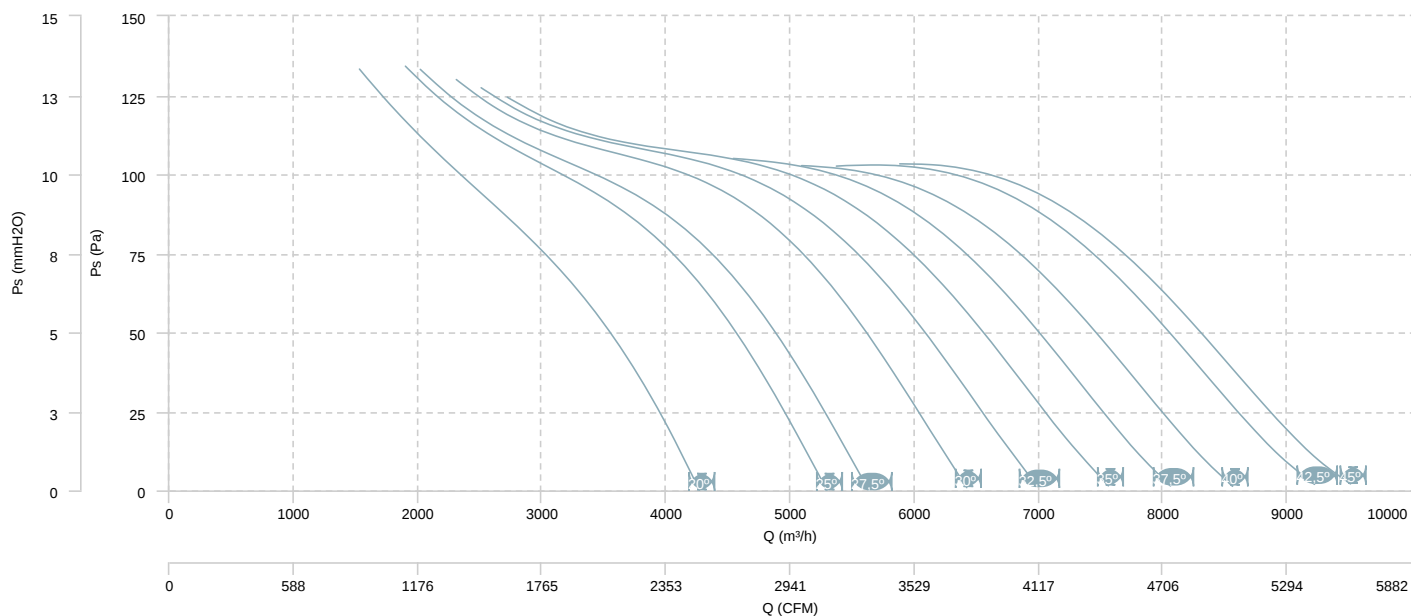


AIR FLOW - MECHANICAL POWER

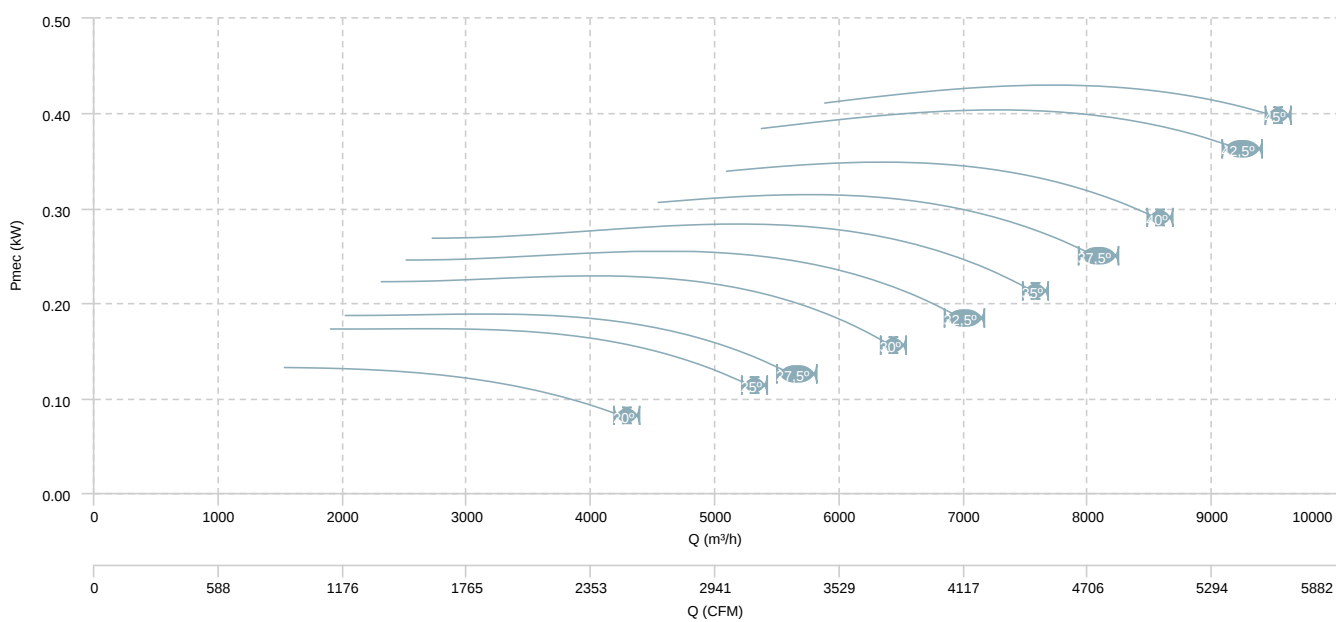


HMA 56 T6 (A2:9)

AIR FLOW - PRESSURE

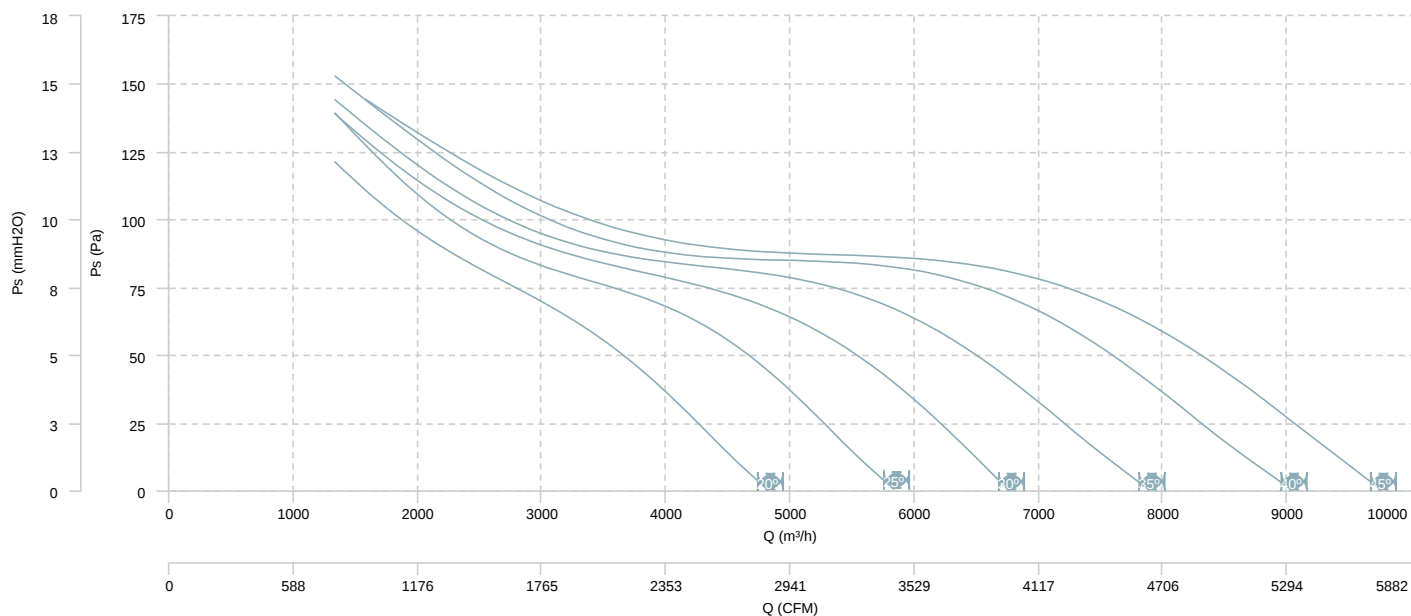


AIR FLOW - MECHANICAL POWER

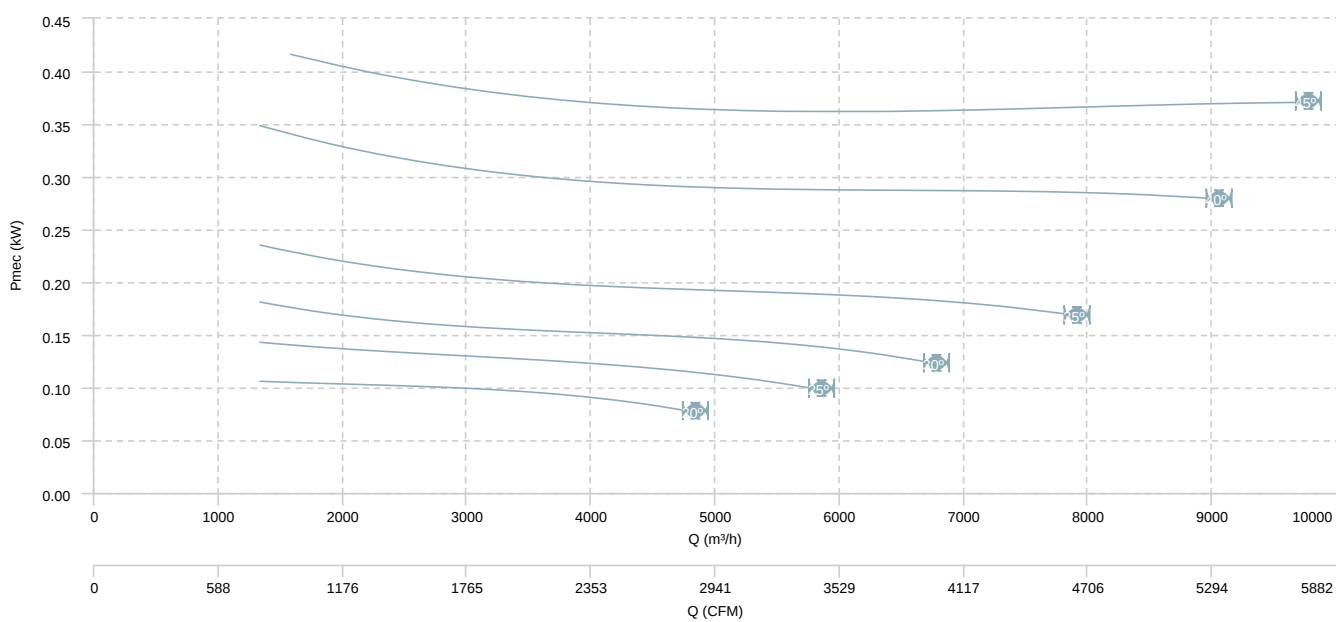


HMA 56 T6 (A5:6)

AIR FLOW - PRESSURE

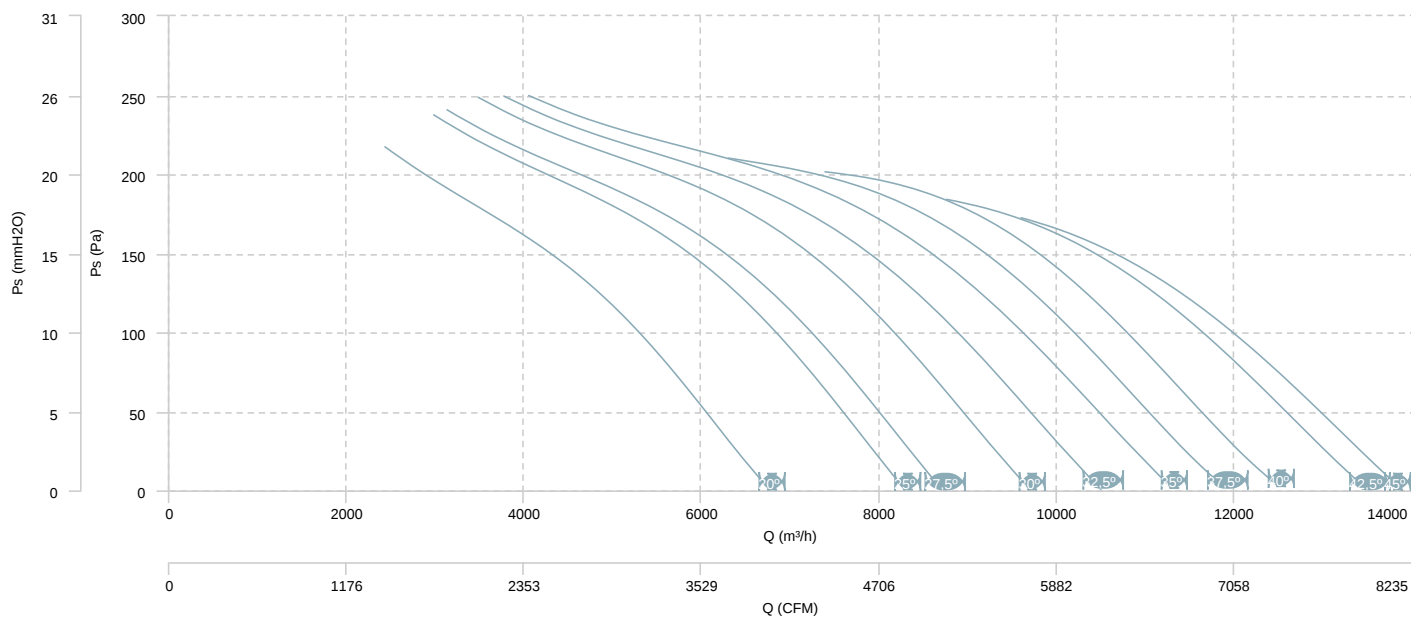


AIR FLOW - MECHANICAL POWER

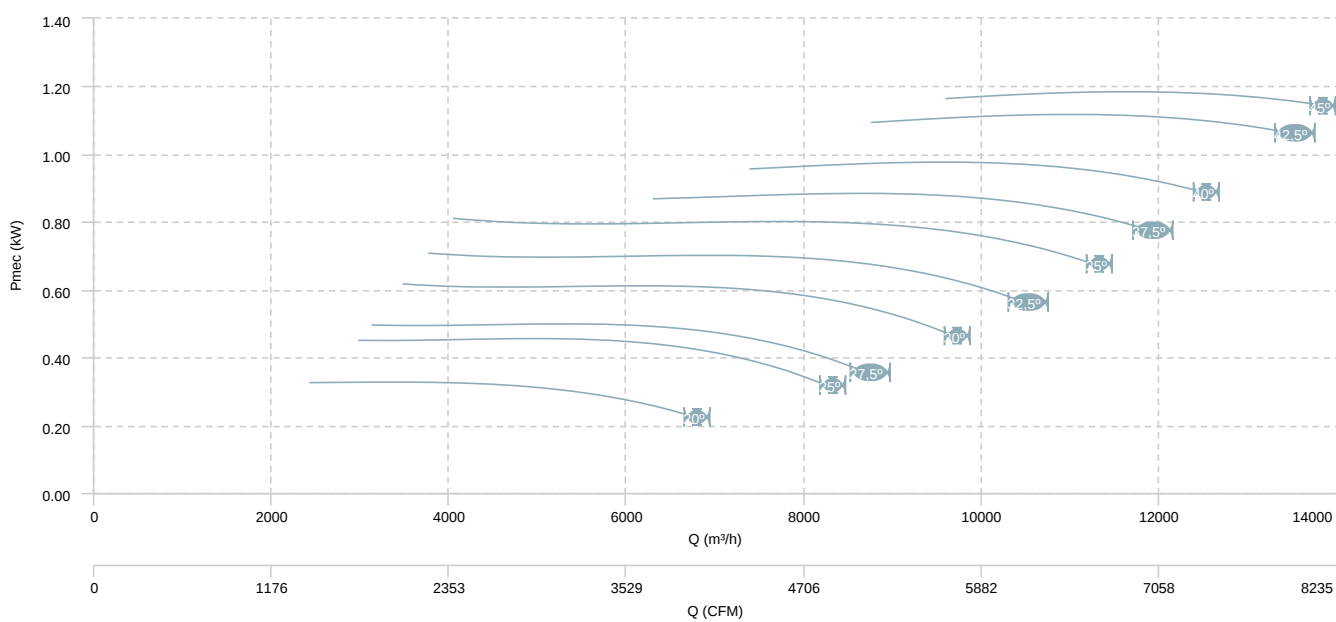


HMA 56 T4/T8 (A2:6)

AIR FLOW - PRESSURE (4 poles)

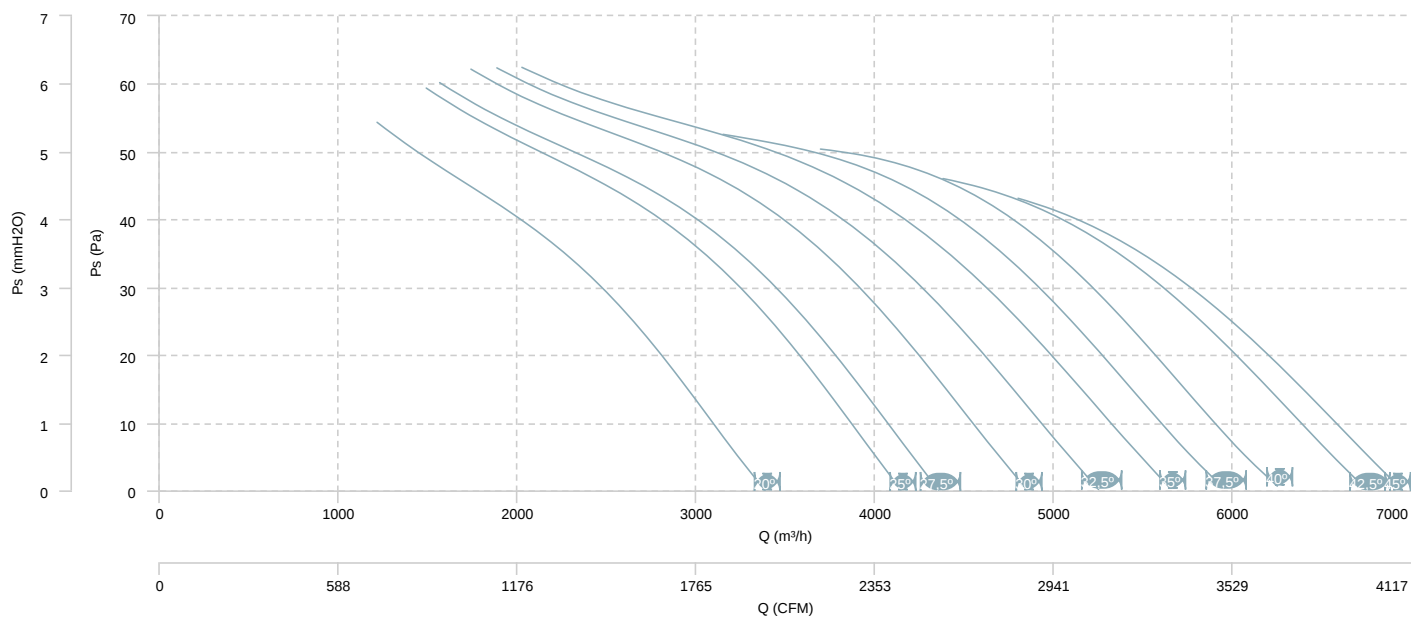


AIR FLOW - MECHANICAL POWER (4 poles)

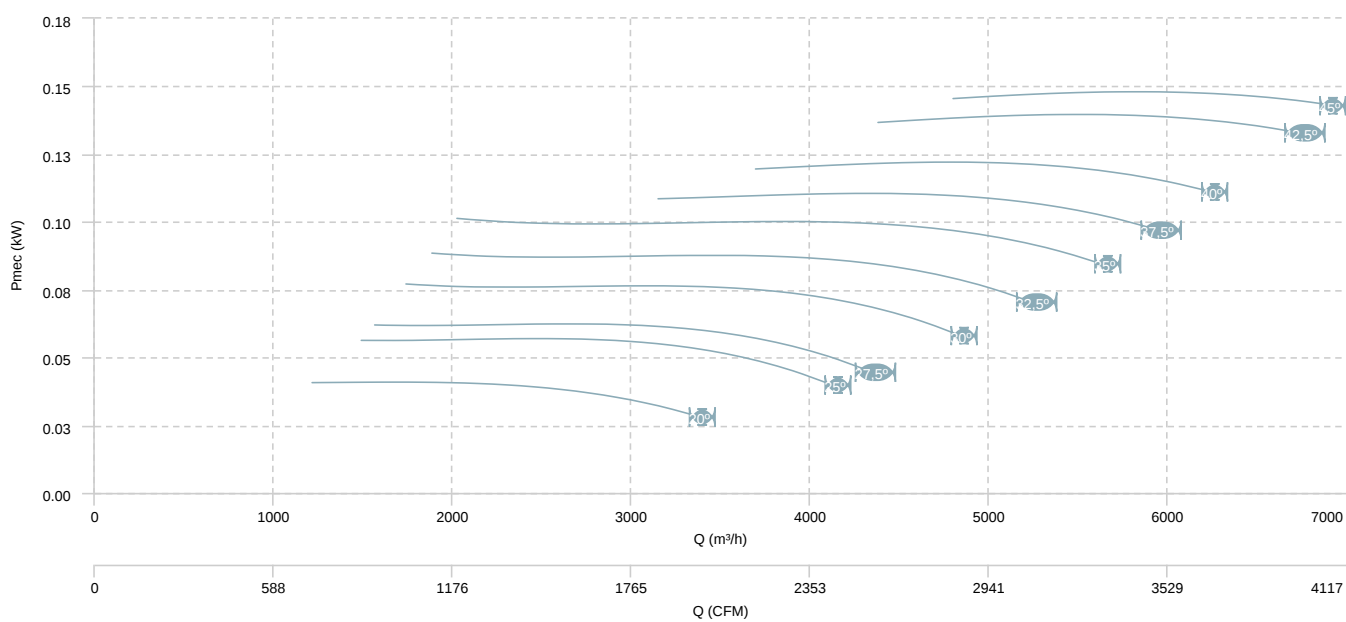


HMA 56 T4/T8 (A2:6)

AIR FLOW - PRESSURE (8 poles)

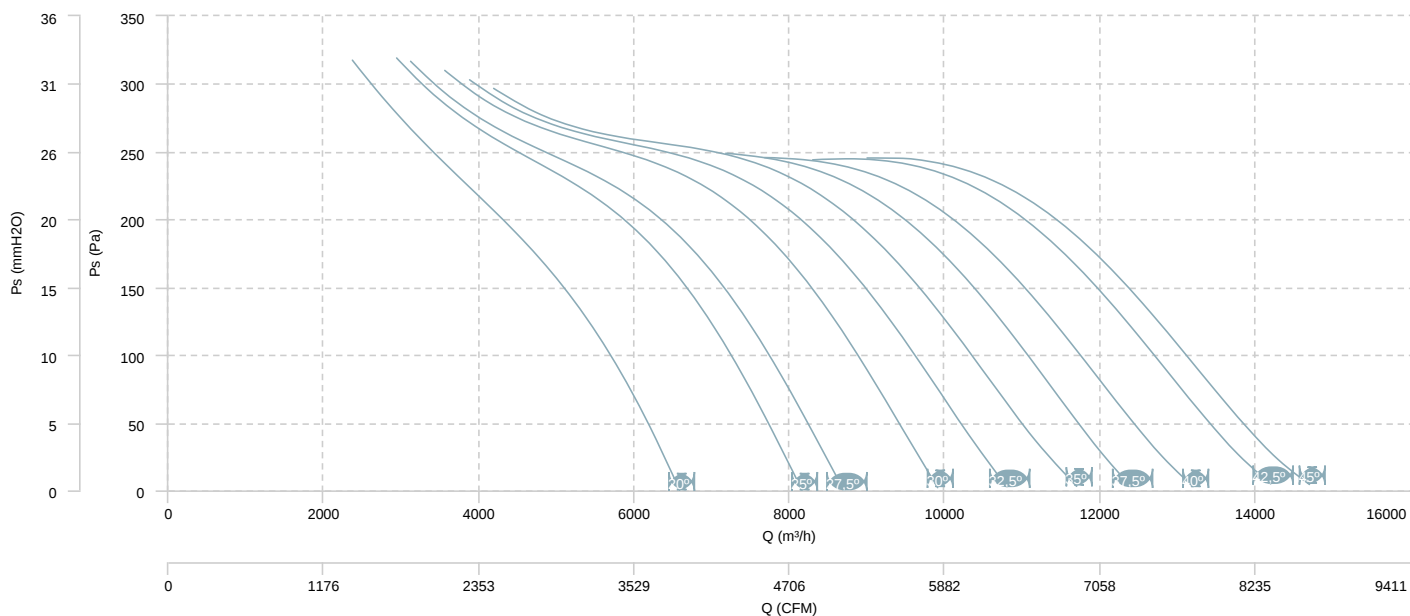


AIR FLOW - MECHANICAL POWER (8 poles)

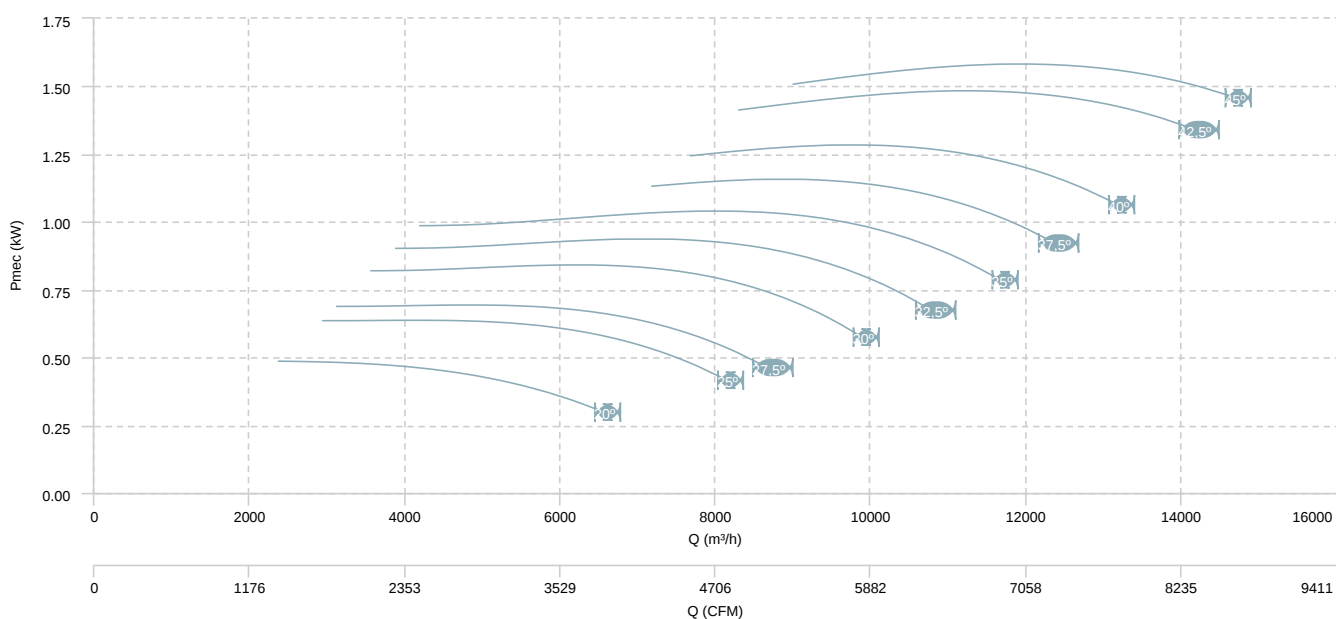


HMA 56 T4/T8 (A2:9)

AIR FLOW - PRESSURE (4 poles)

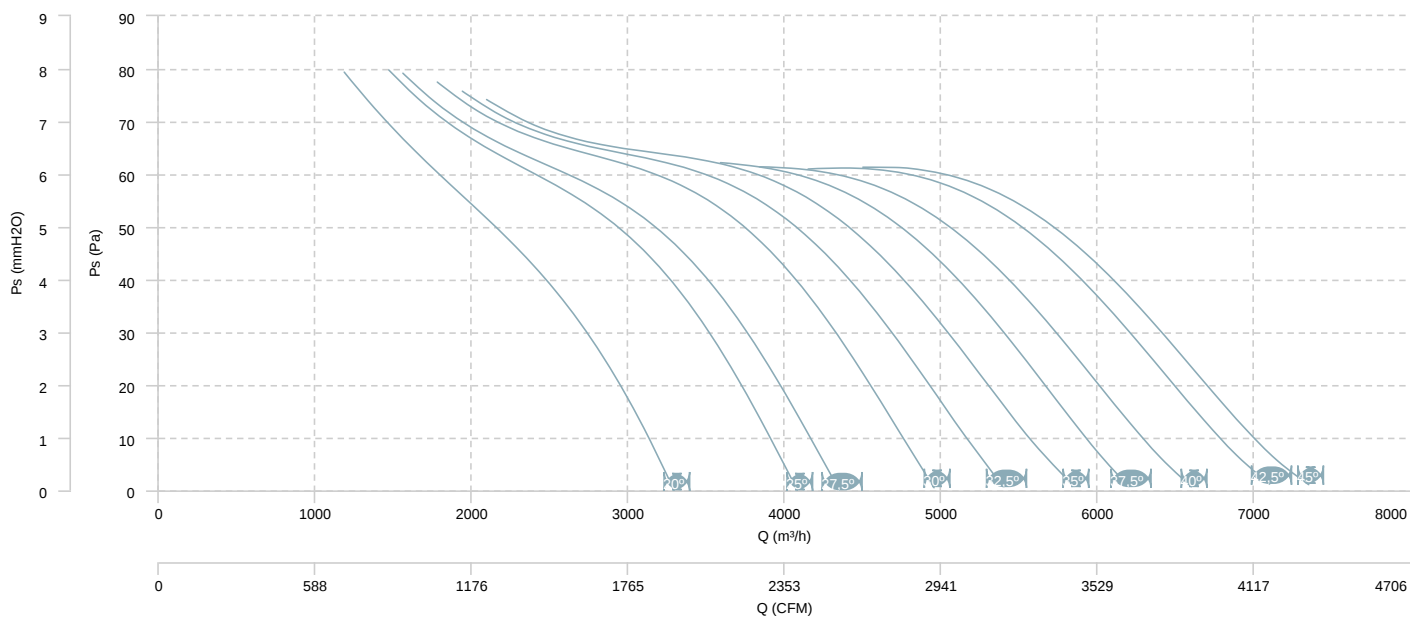


AIR FLOW - MECHANICAL POWER (4 poles)

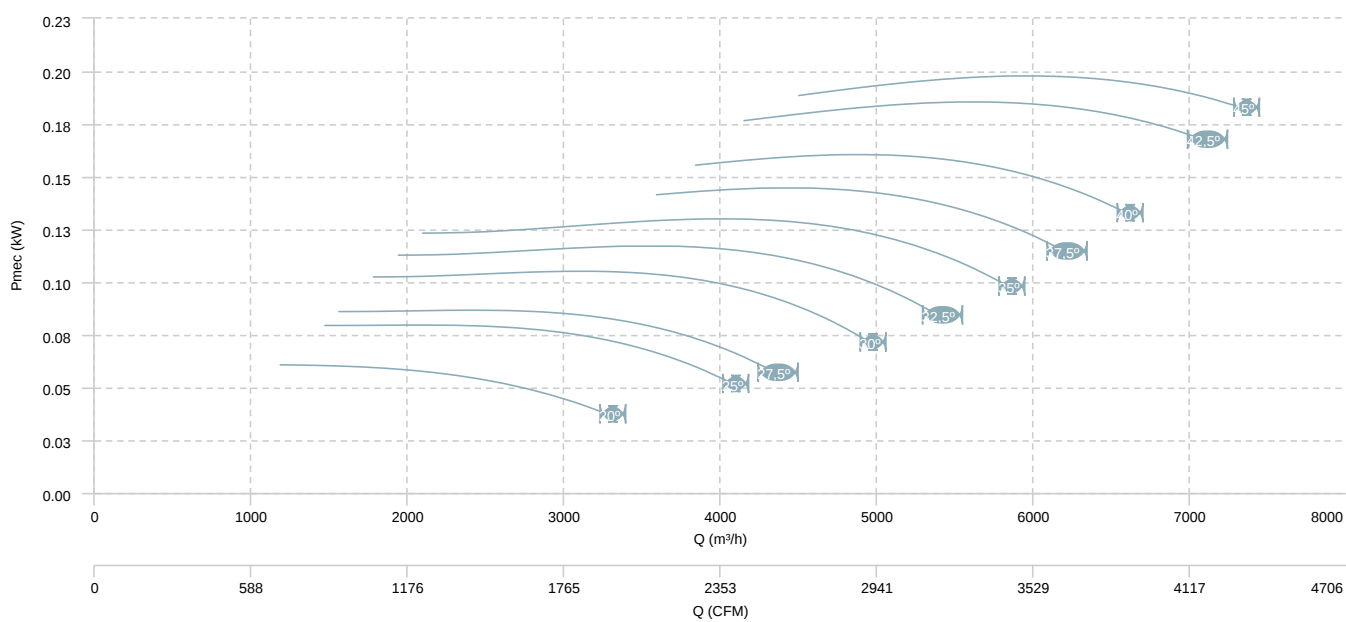


HMA 56 T4/T8 (A2:9)

AIR FLOW - PRESSURE (8 poles)

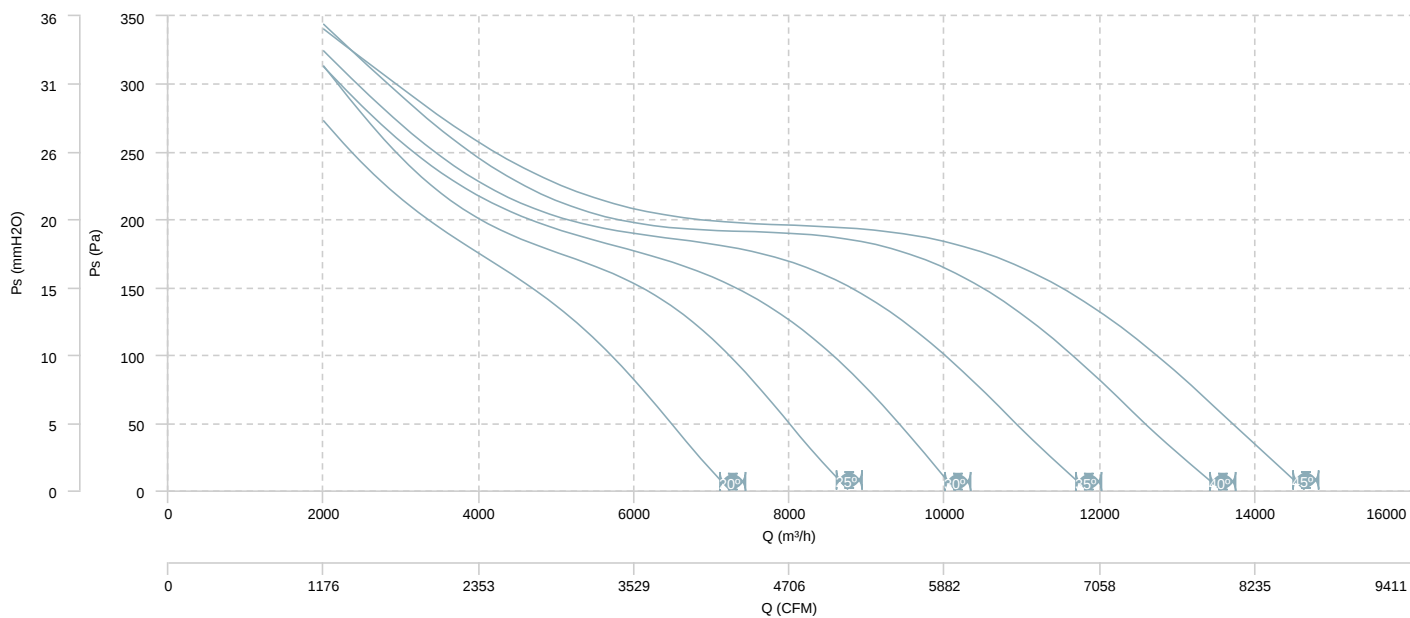


AIR FLOW - MECHANICAL POWER (8 poles)

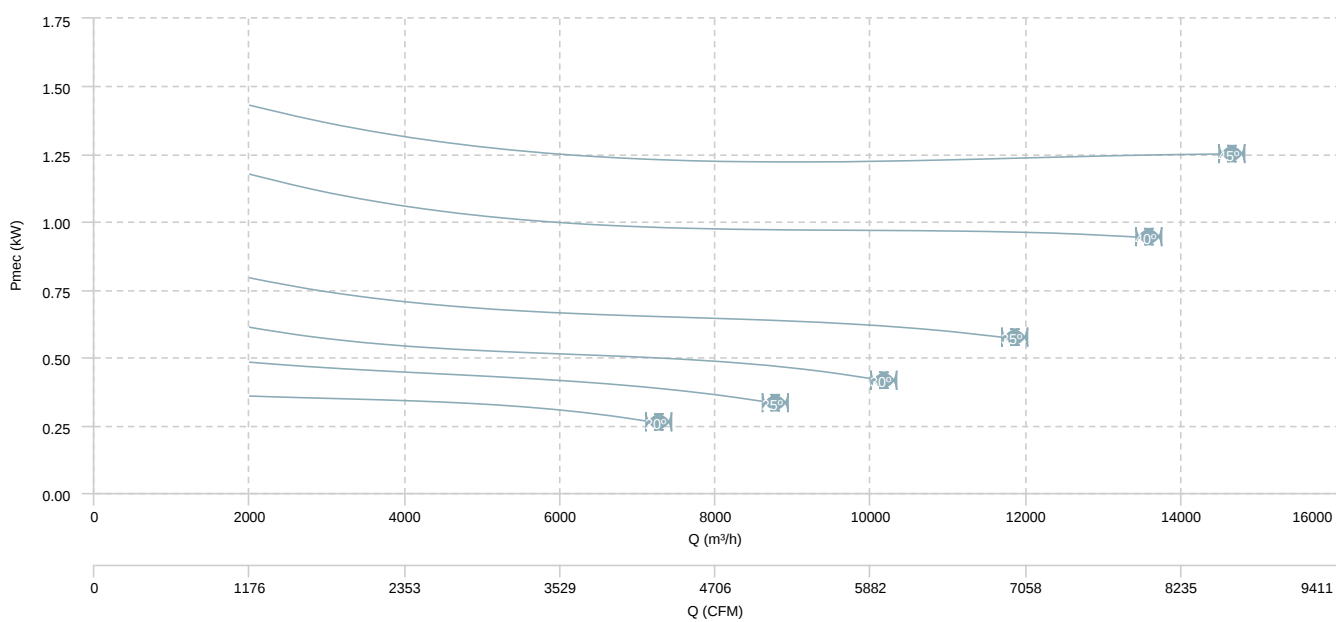


HMA 56 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

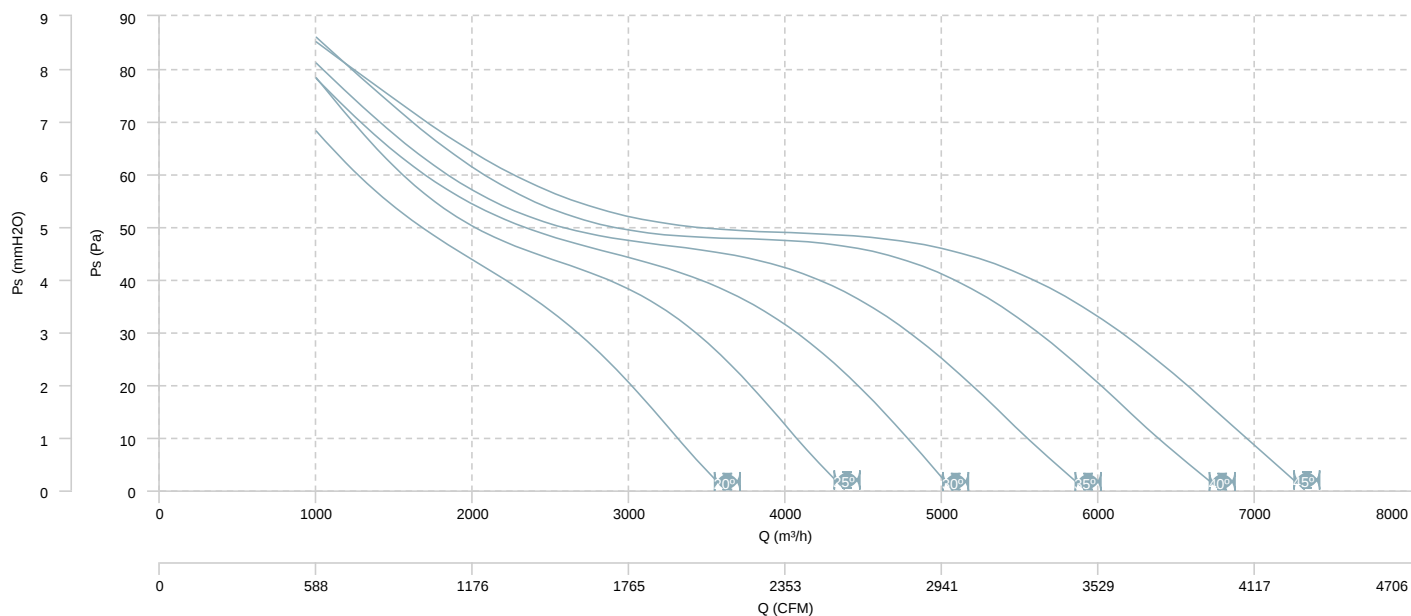


AIR FLOW - MECHANICAL POWER (4 poles)

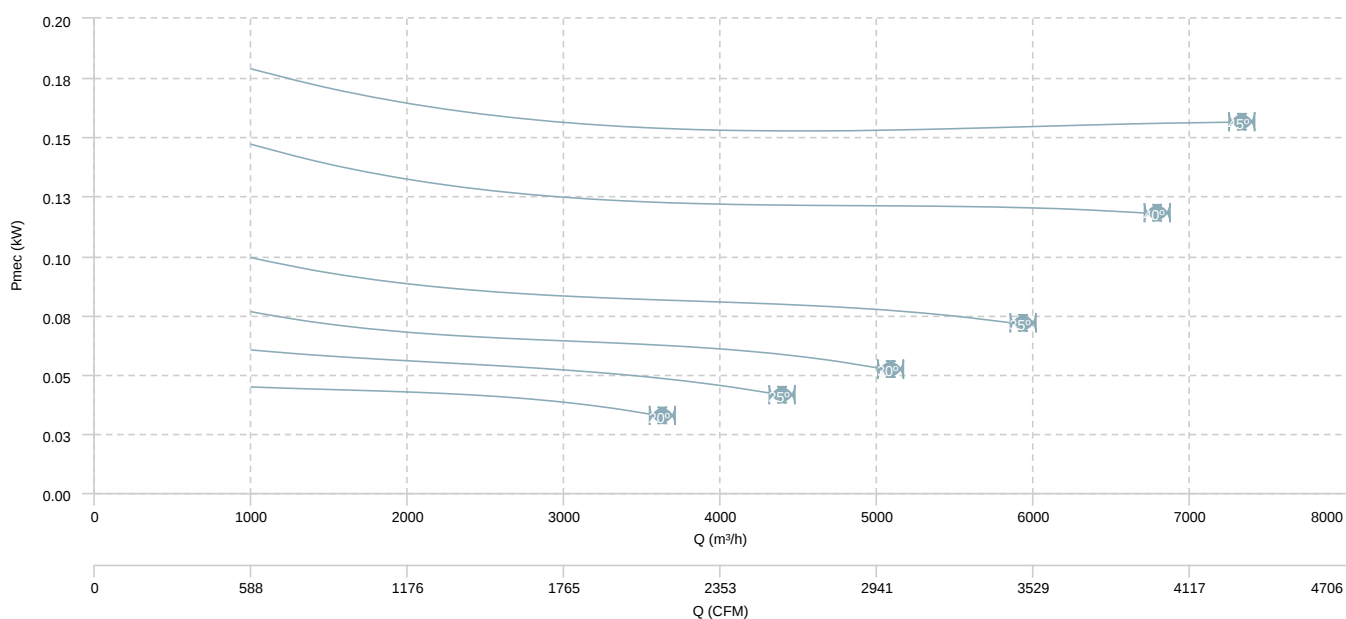


HMA 56 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

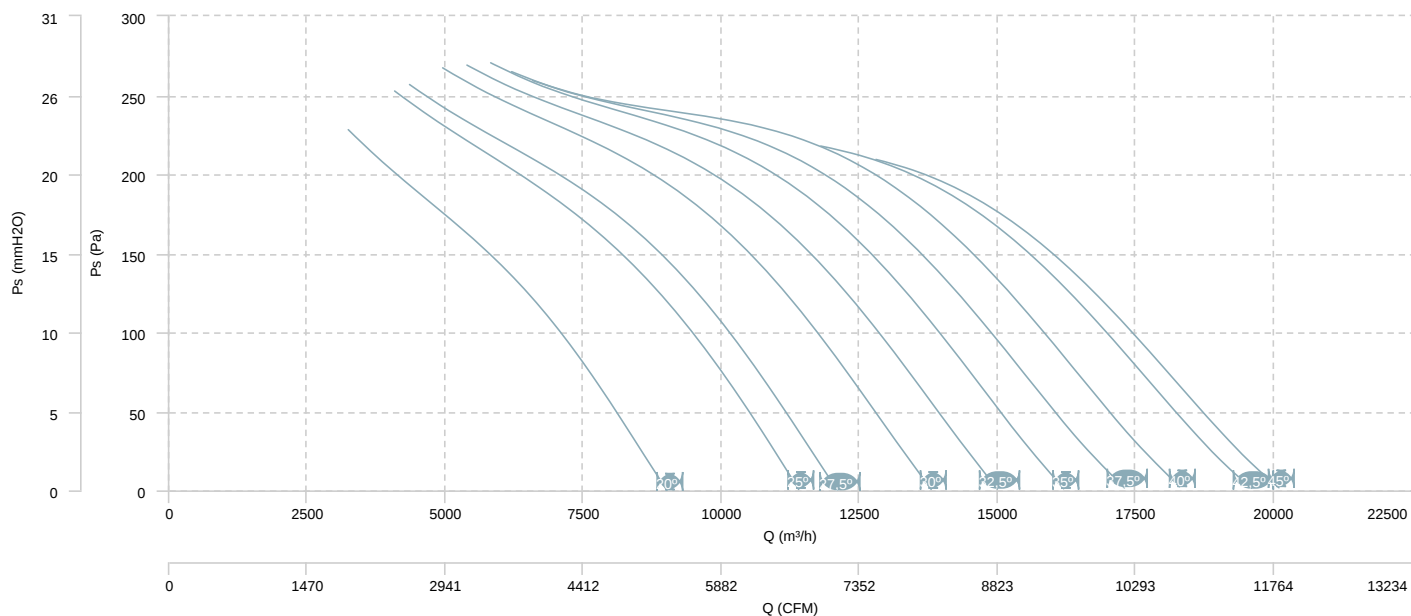


AIR FLOW - MECHANICAL POWER (8 poles)

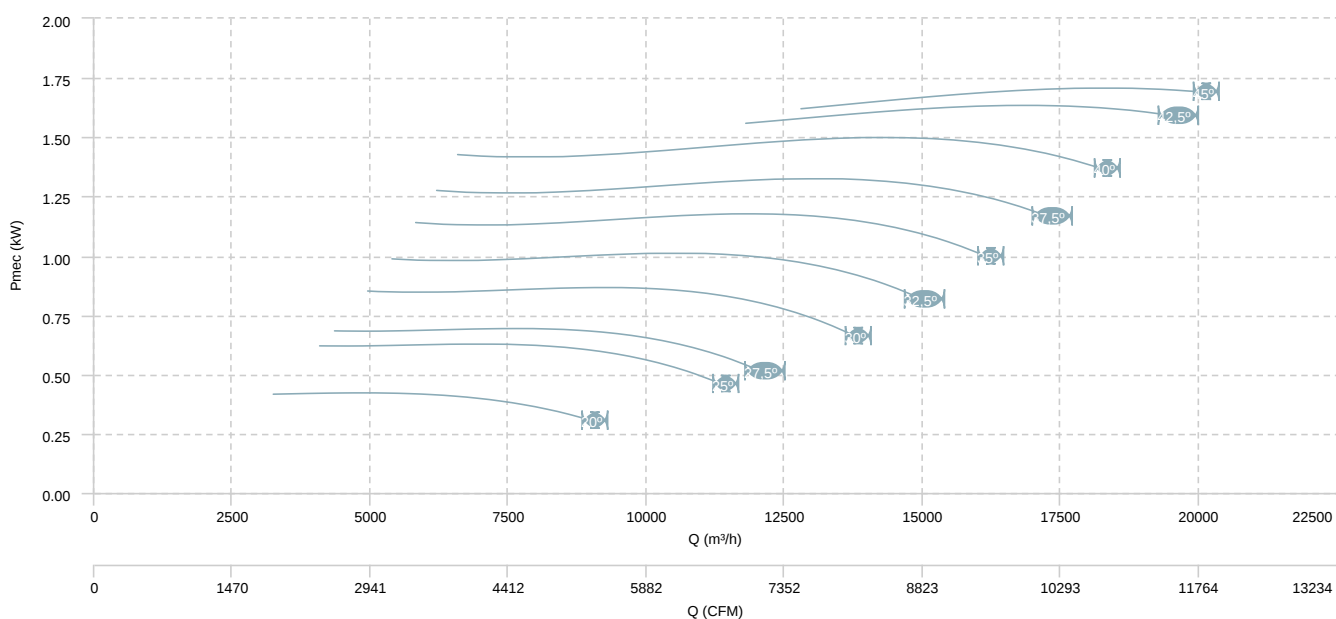


HMA 63 T4 (A2:6)

AIR FLOW - PRESSURE

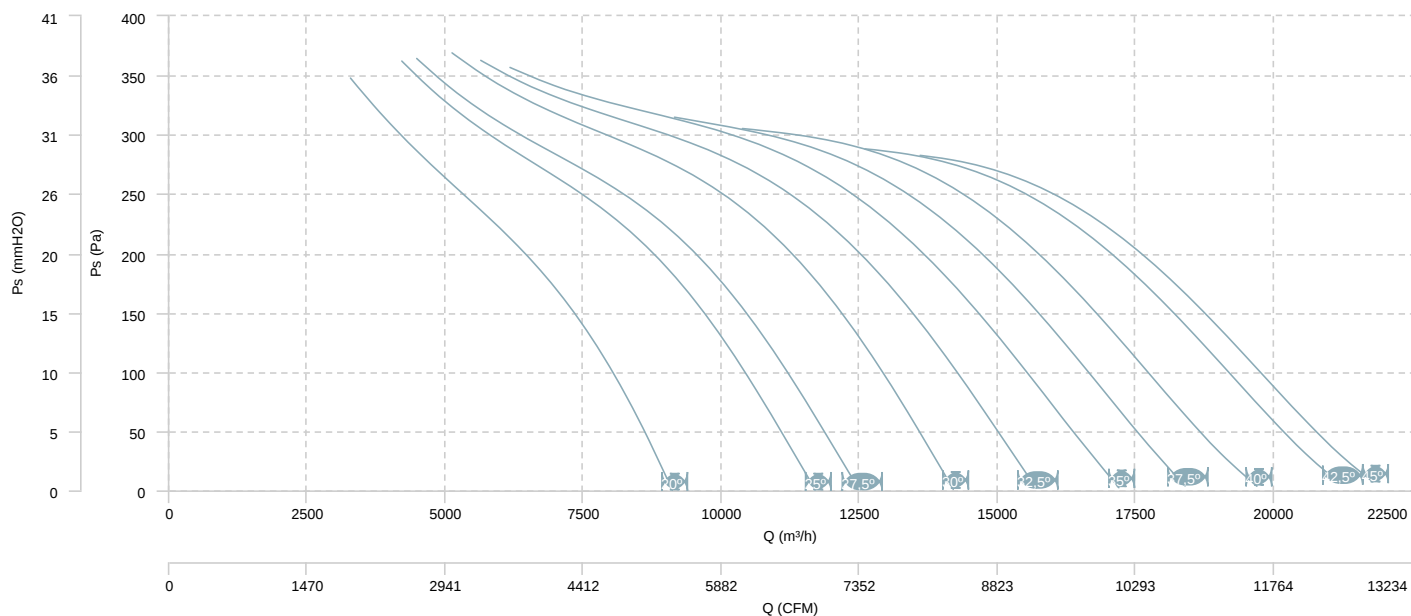


AIR FLOW - MECHANICAL POWER

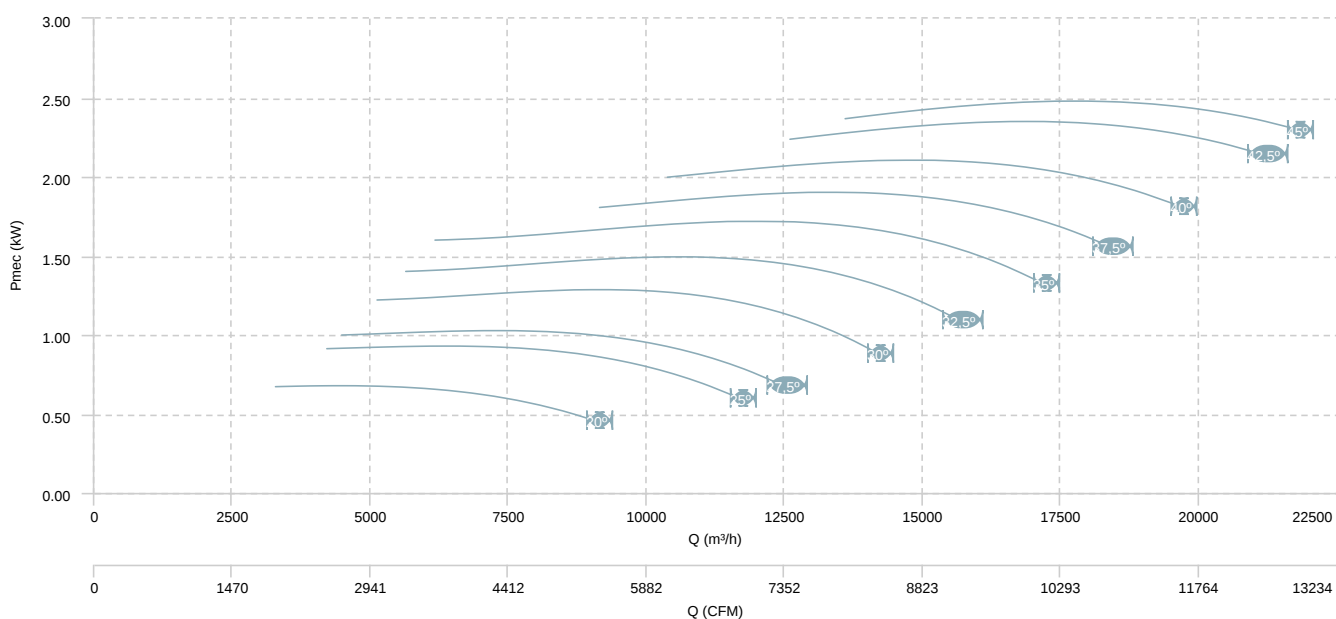


HMA 63 T4 (A2:9)

AIR FLOW - PRESSURE

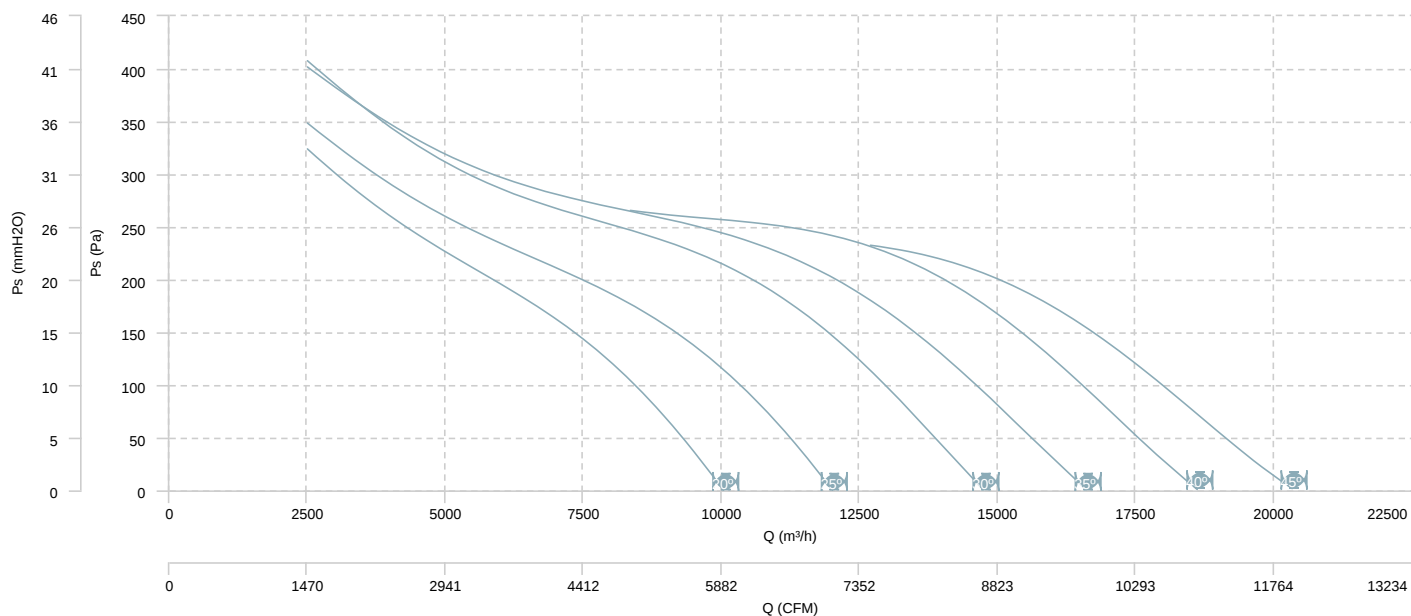


AIR FLOW - MECHANICAL POWER

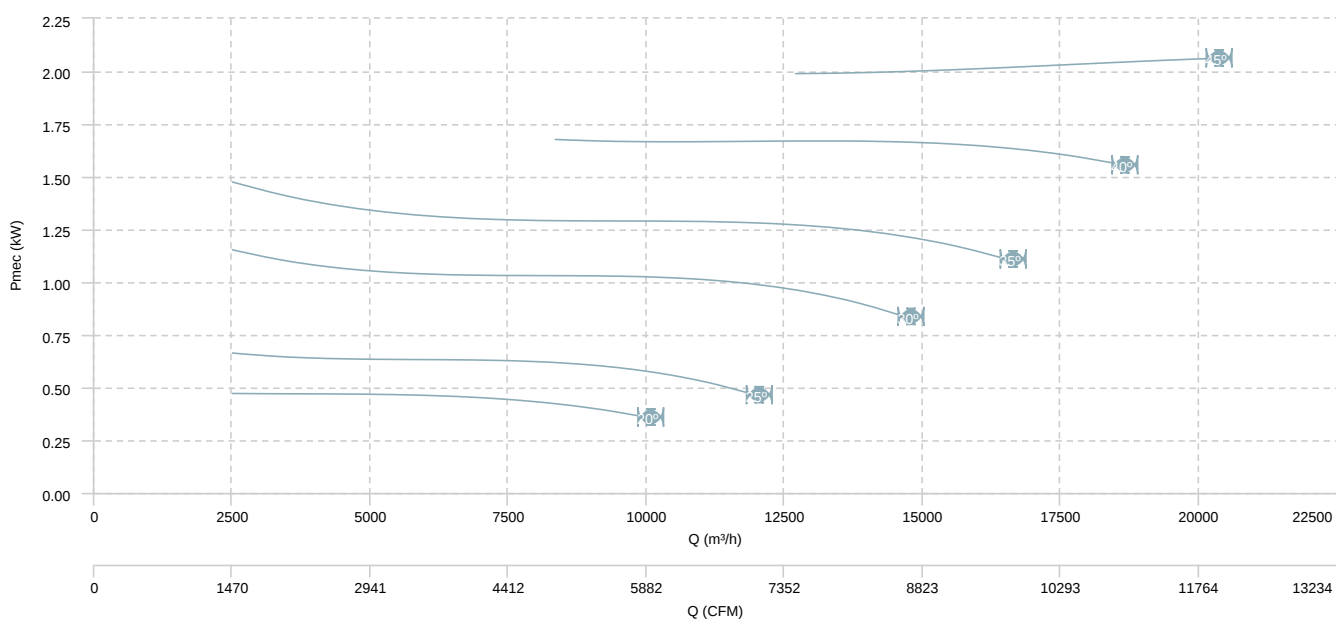


HMA 63 T4 (A5:6)

AIR FLOW - PRESSURE

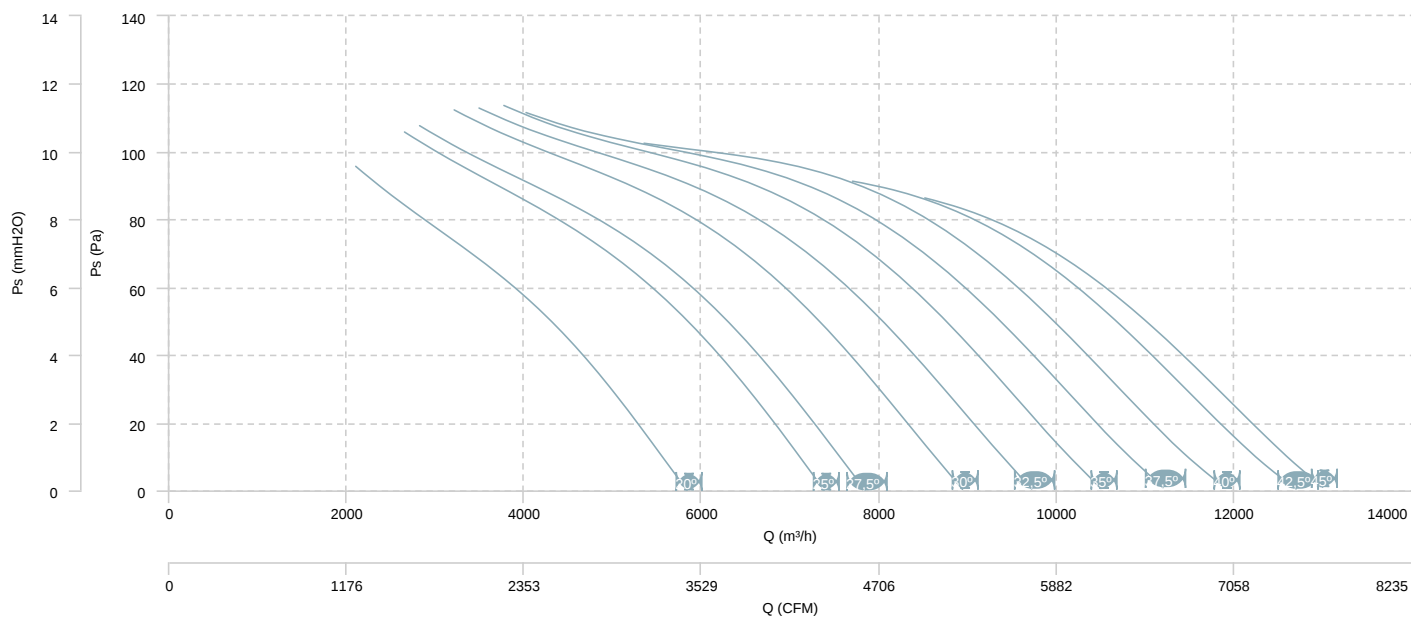


AIR FLOW - MECHANICAL POWER

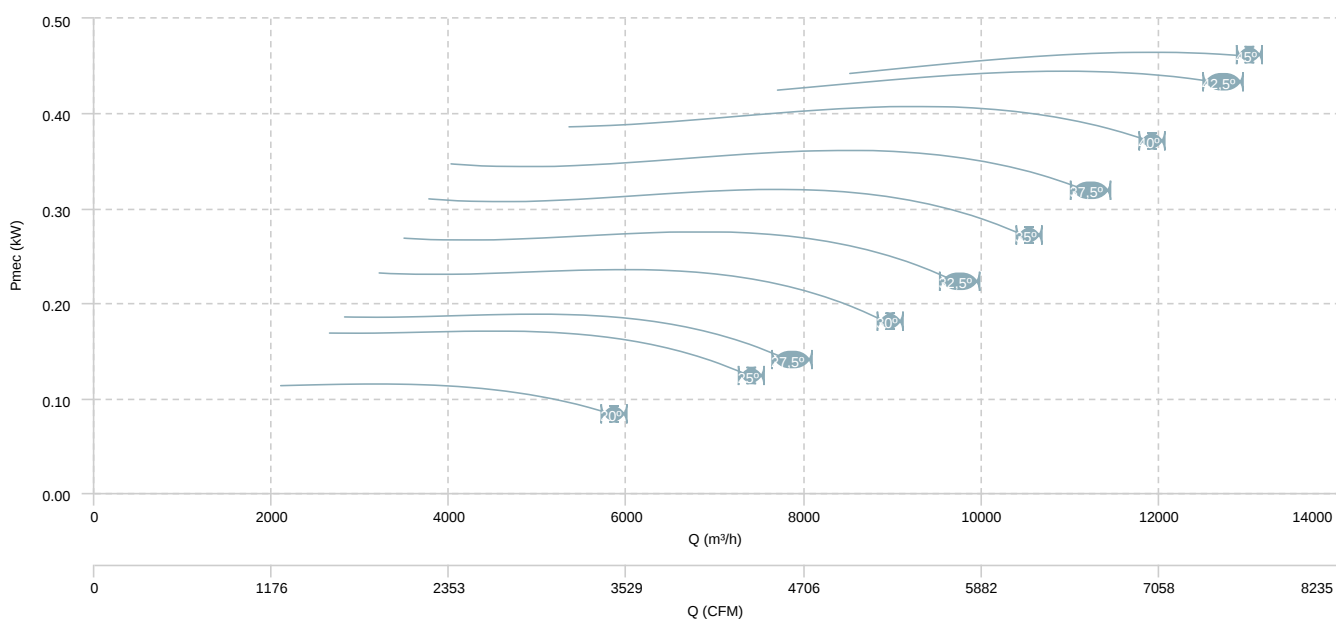


HMA 63 T6 (A2:6)

AIR FLOW - PRESSURE

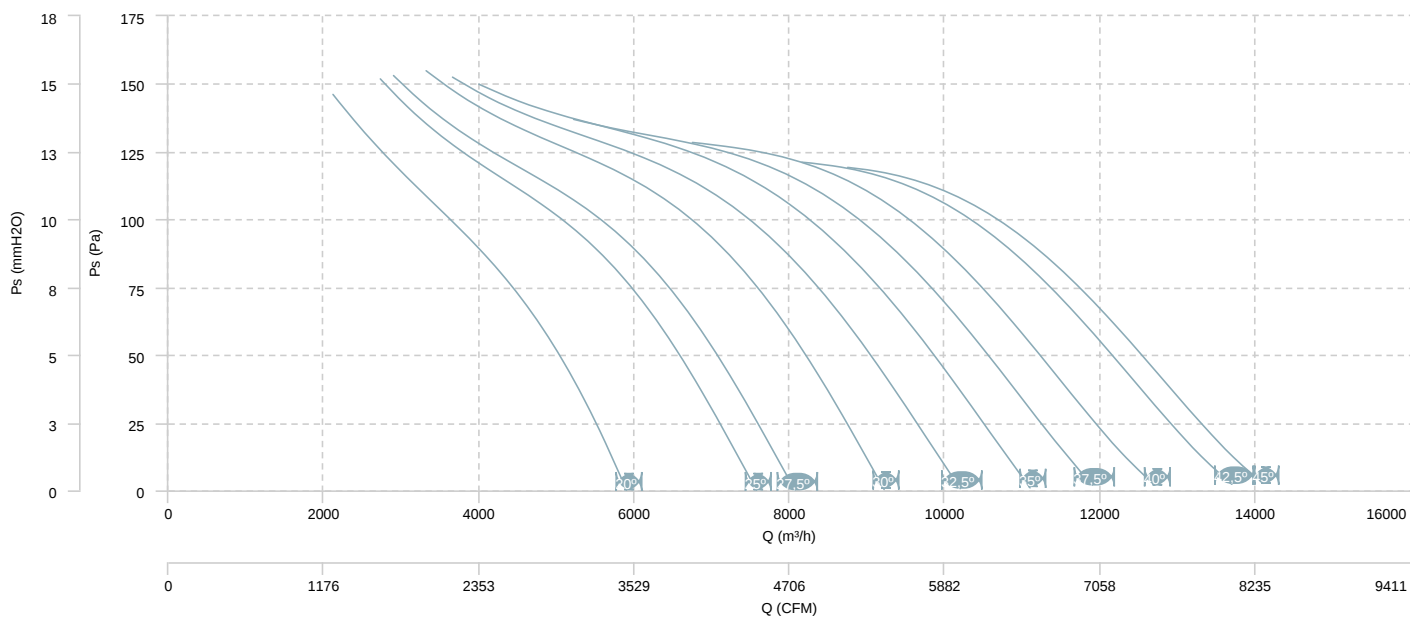


AIR FLOW - MECHANICAL POWER

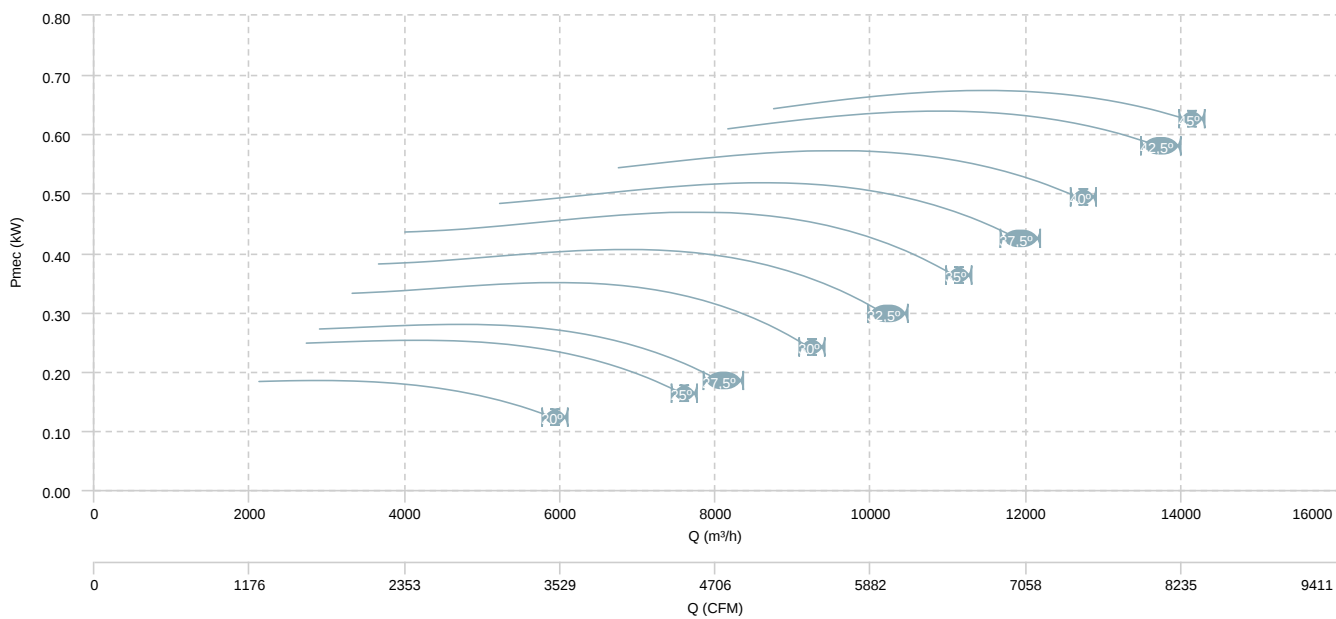


HMA 63 T6 (A2:9)

AIR FLOW - PRESSURE

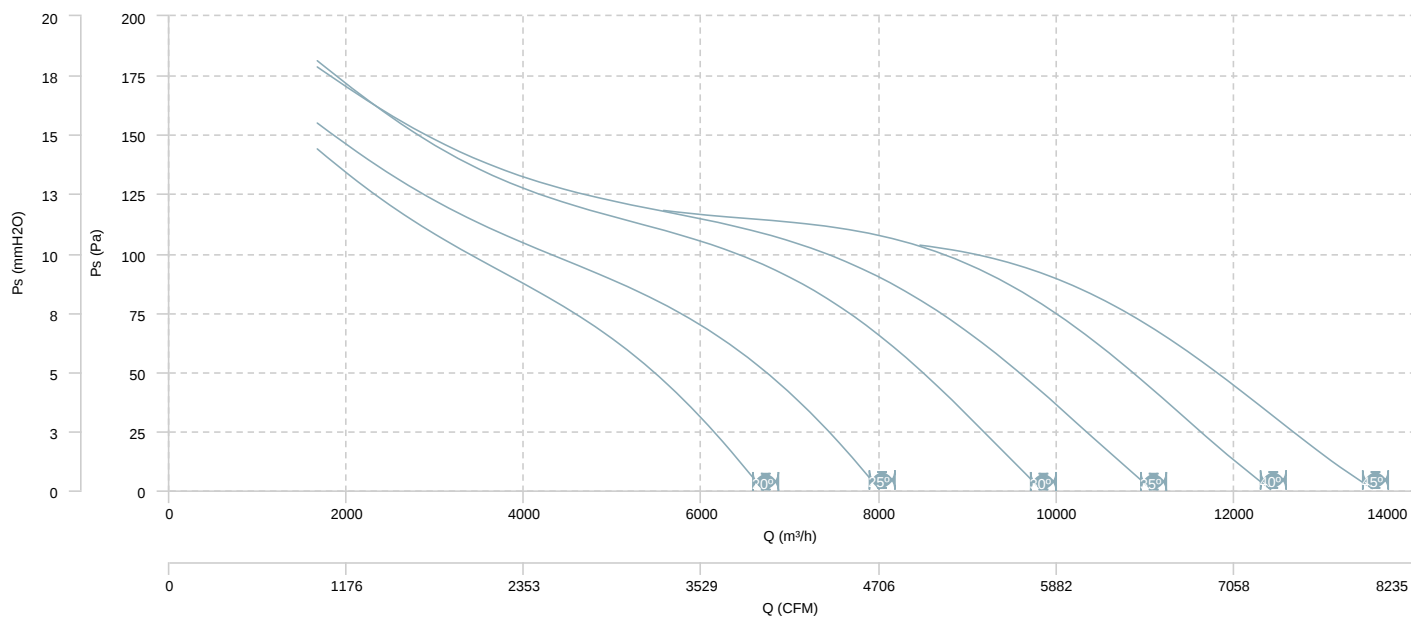


AIR FLOW - MECHANICAL POWER

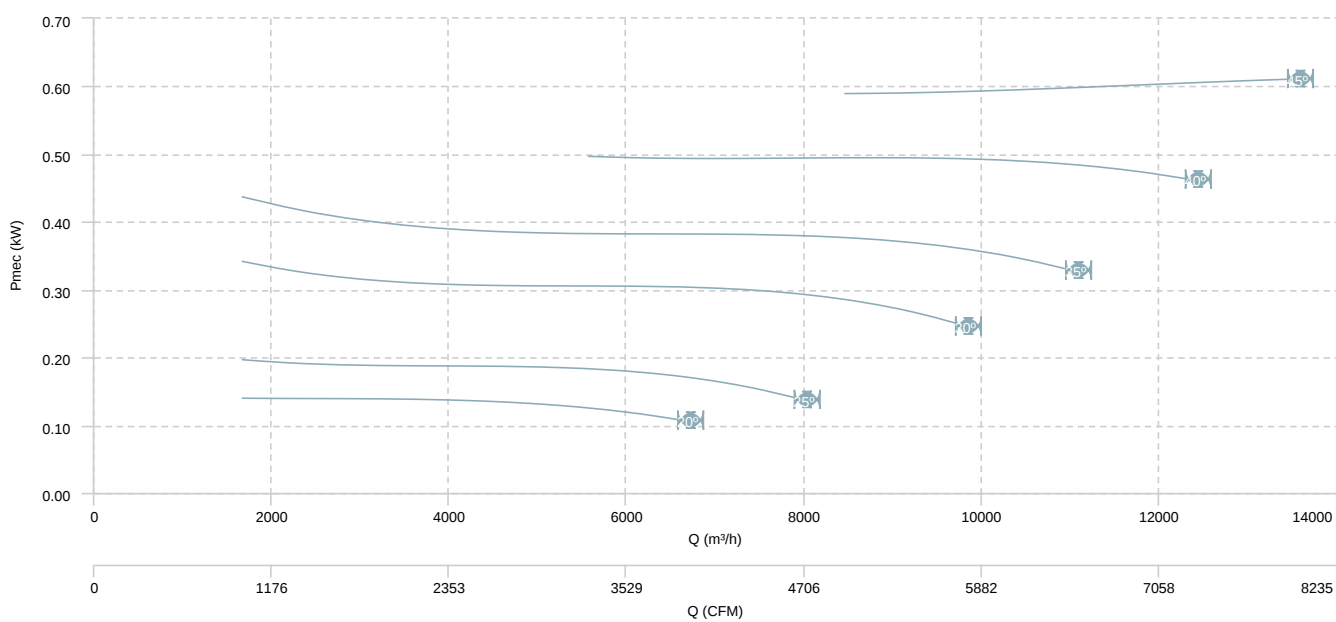


HMA 63 T6 (A5:6)

AIR FLOW - PRESSURE

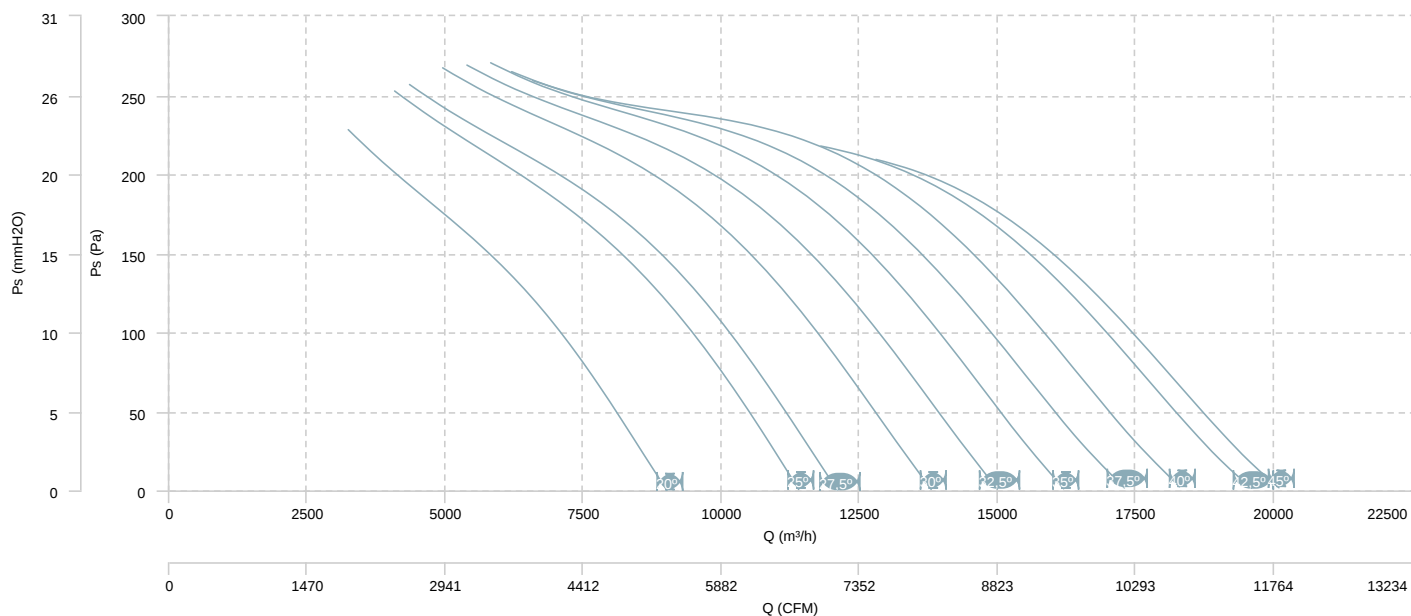


AIR FLOW - MECHANICAL POWER

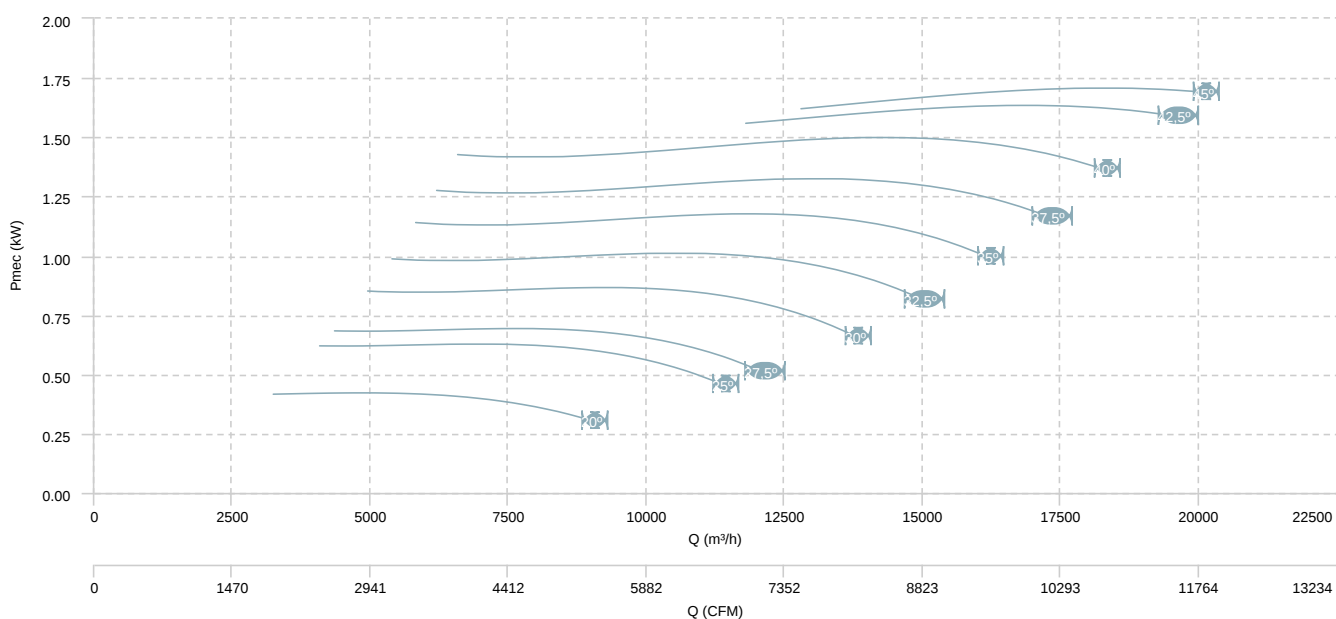


HMA 63 T4/T8 (A2:6)

AIR FLOW - PRESSURE (4 poles)

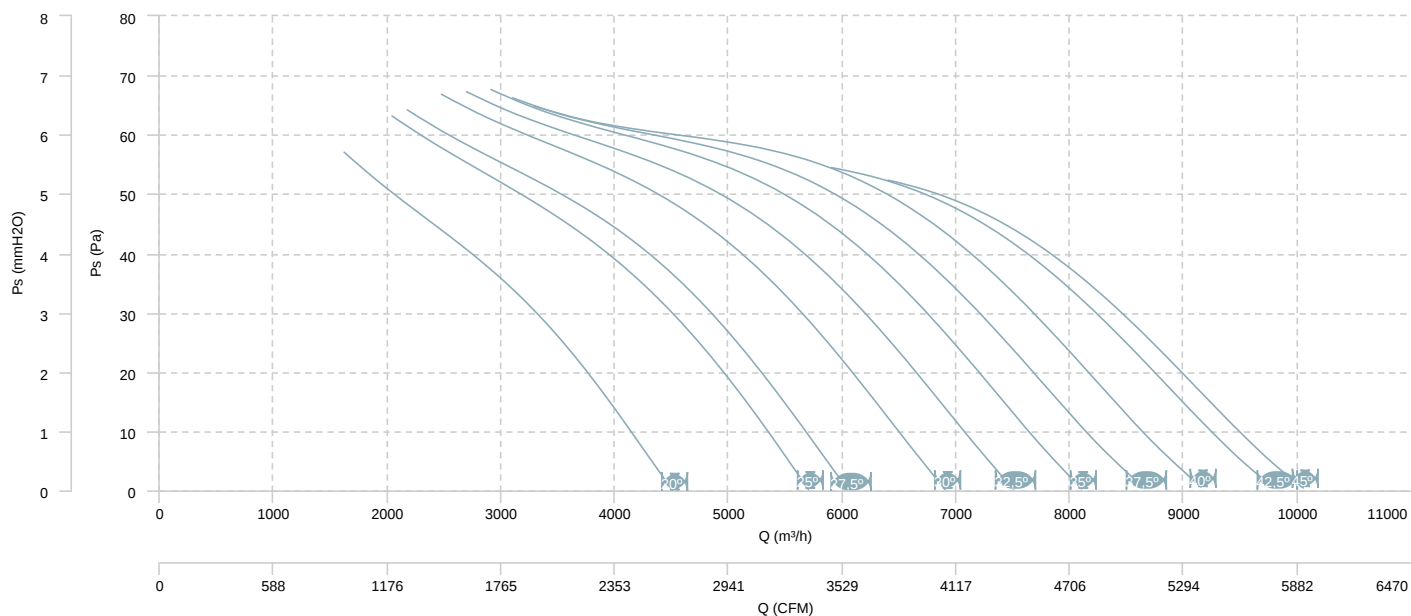


AIR FLOW - MECHANICAL POWER (4 poles)

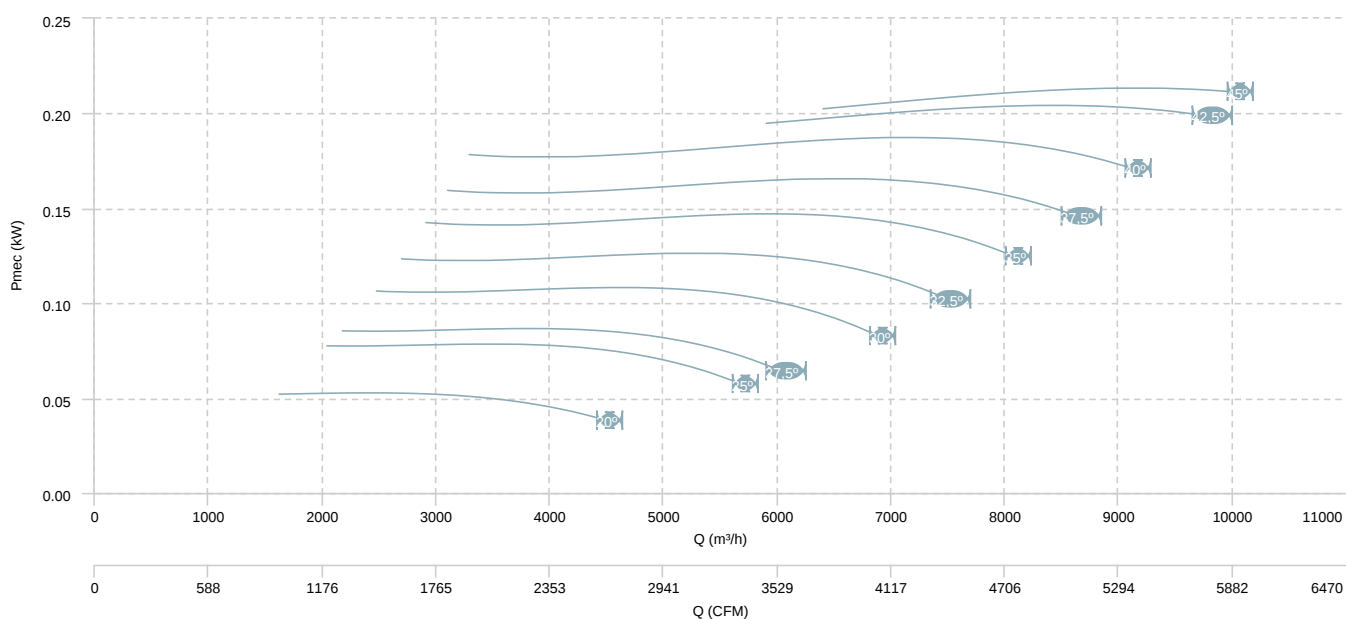


HMA 63 T4/T8 (A2:6)

AIR FLOW - PRESSURE (8 poles)

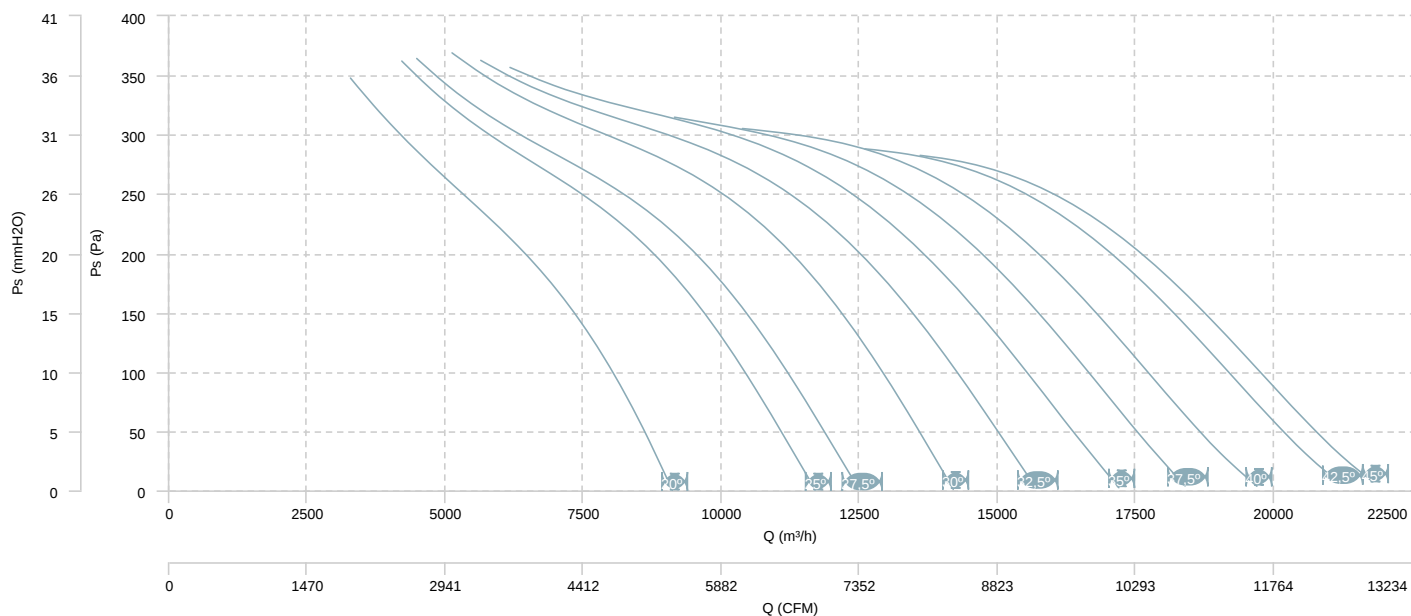


AIR FLOW - MECHANICAL POWER (8 poles)

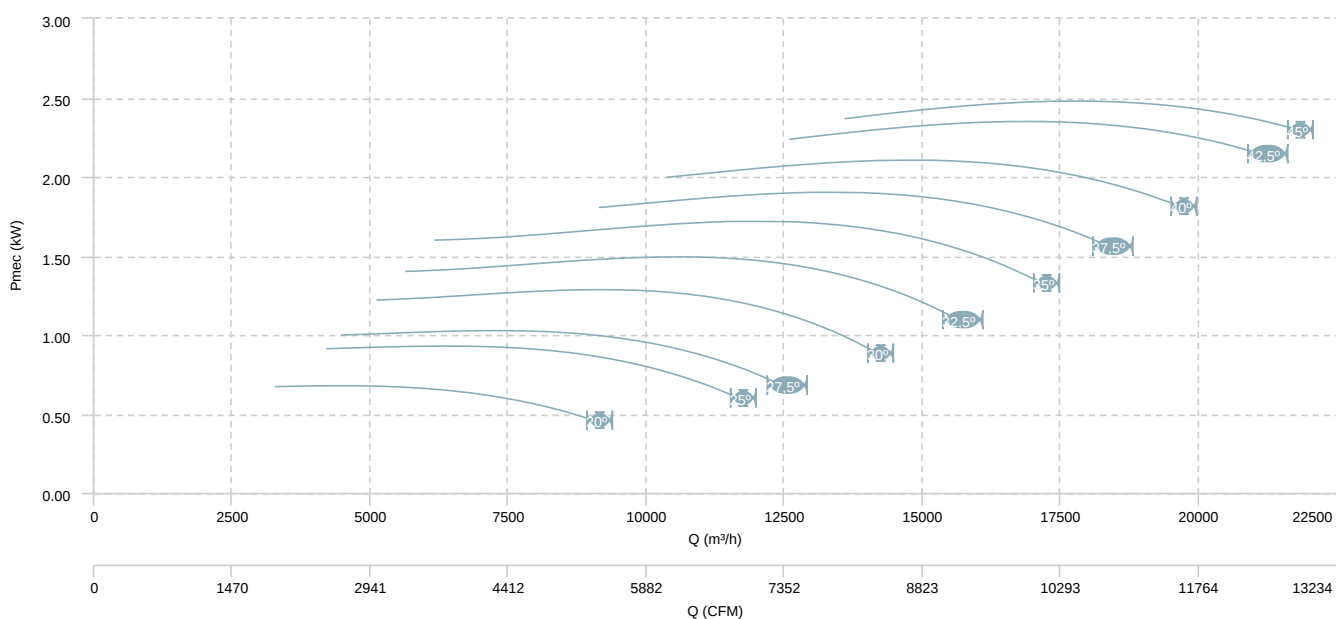


HMA 63 T4/T8 (A2:9)

AIR FLOW - PRESSURE (4 poles)

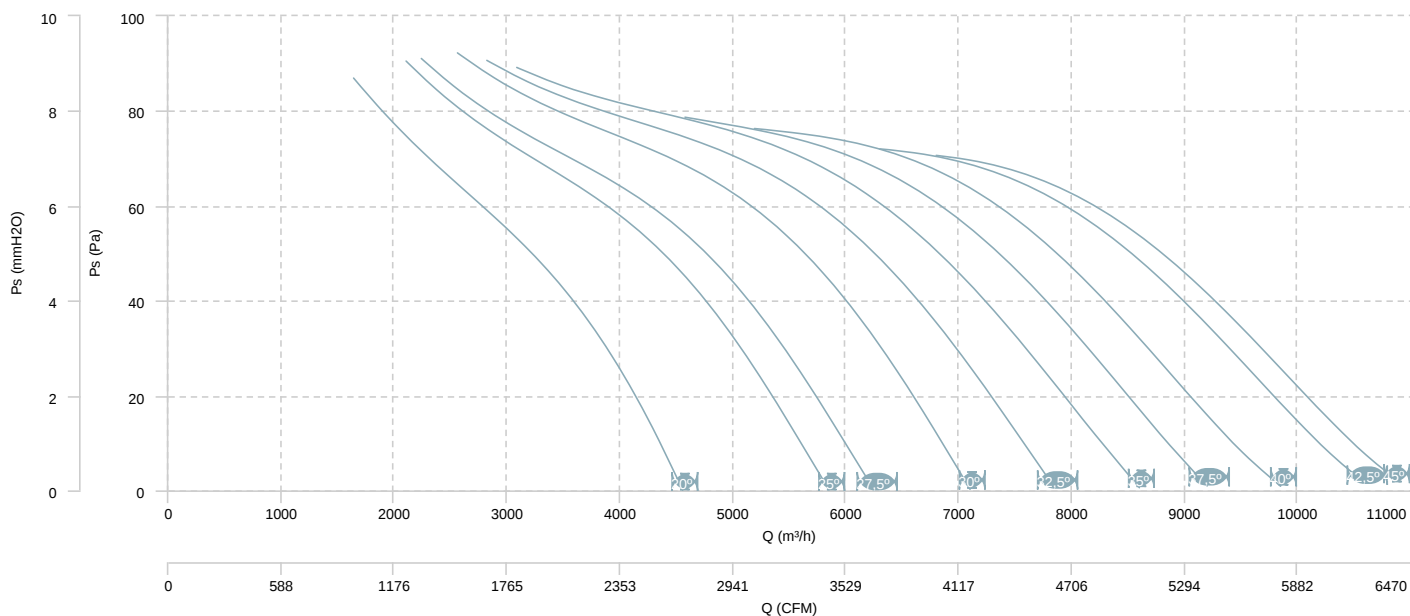


AIR FLOW - MECHANICAL POWER (4 poles)

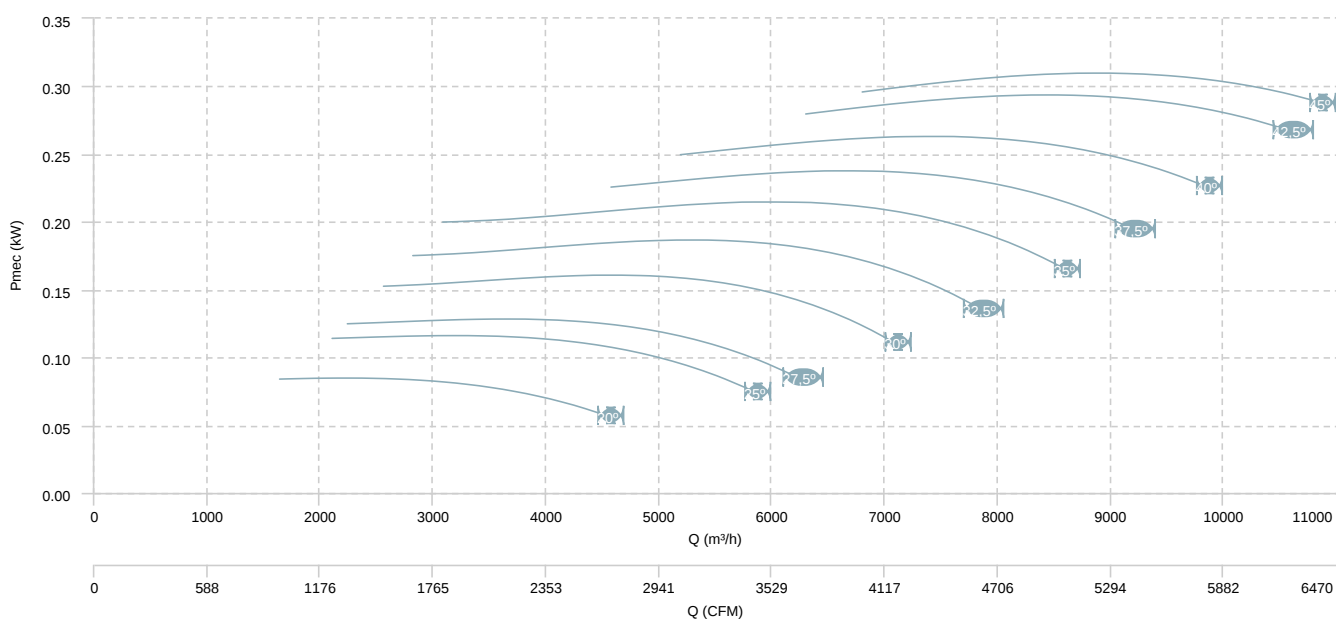


HMA 63 T4/T8 (A2:9)

AIR FLOW - PRESSURE (8 poles)

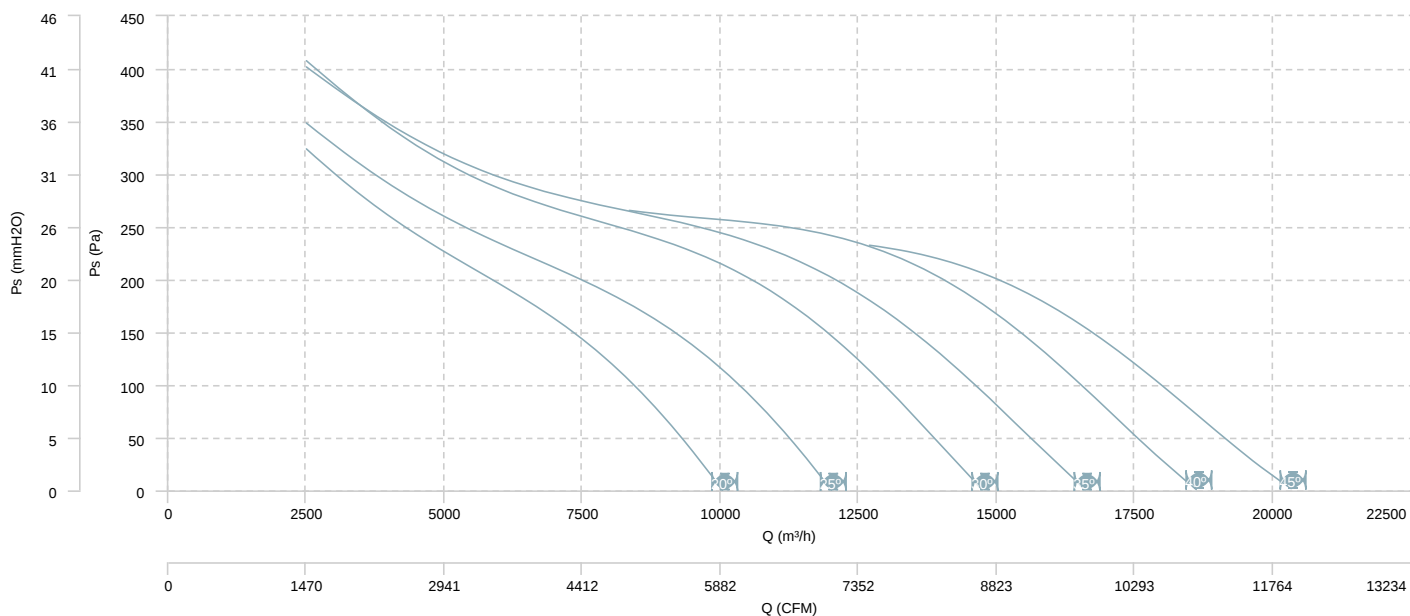


AIR FLOW - MECHANICAL POWER (8 poles)

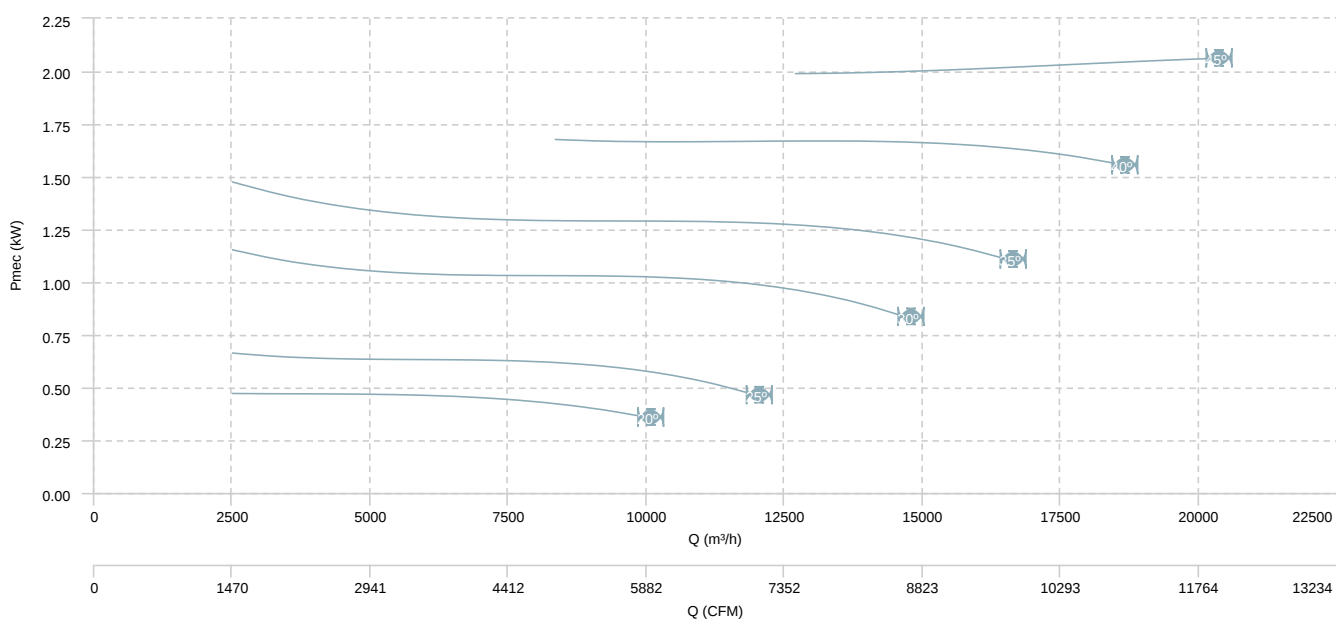


HMA 63 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

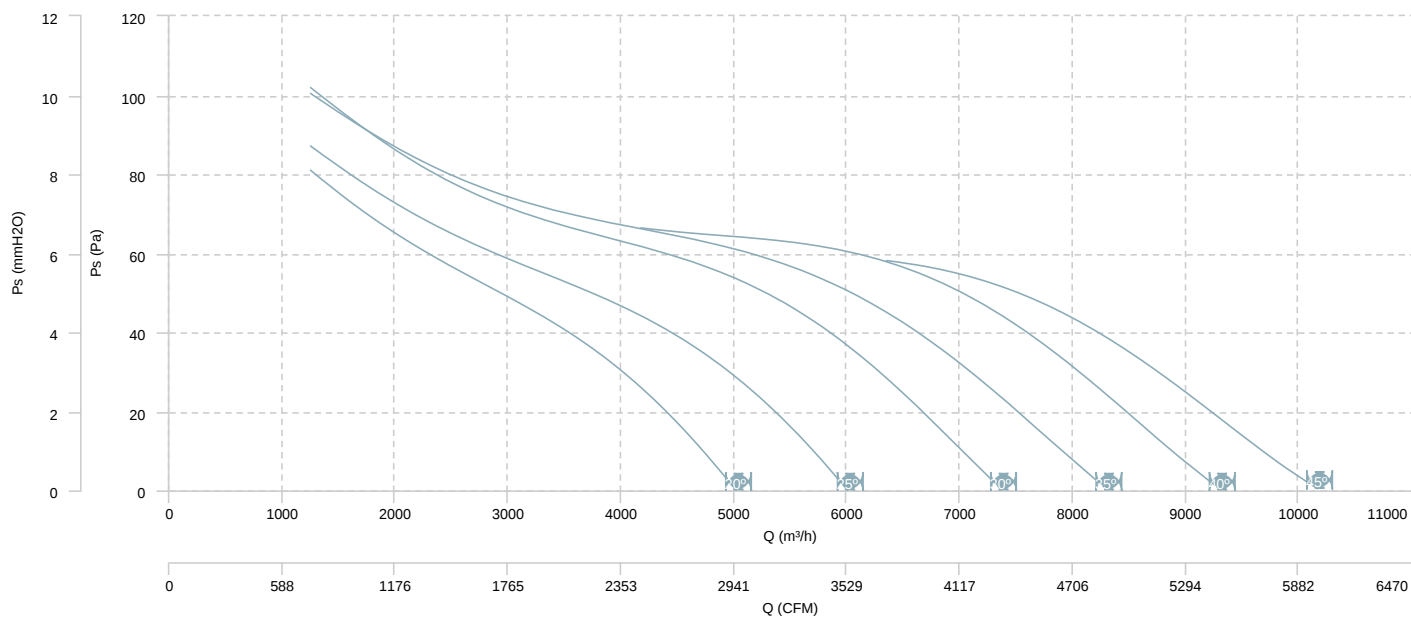


AIR FLOW - MECHANICAL POWER (4 poles)

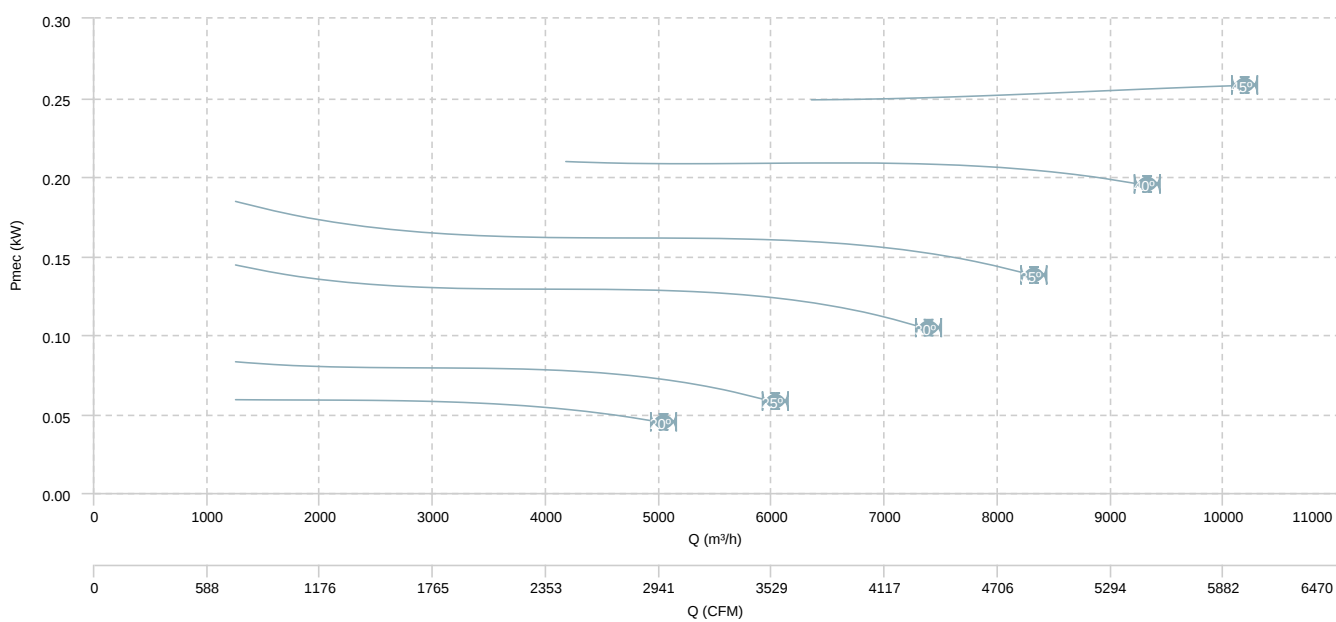


HMA 63 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

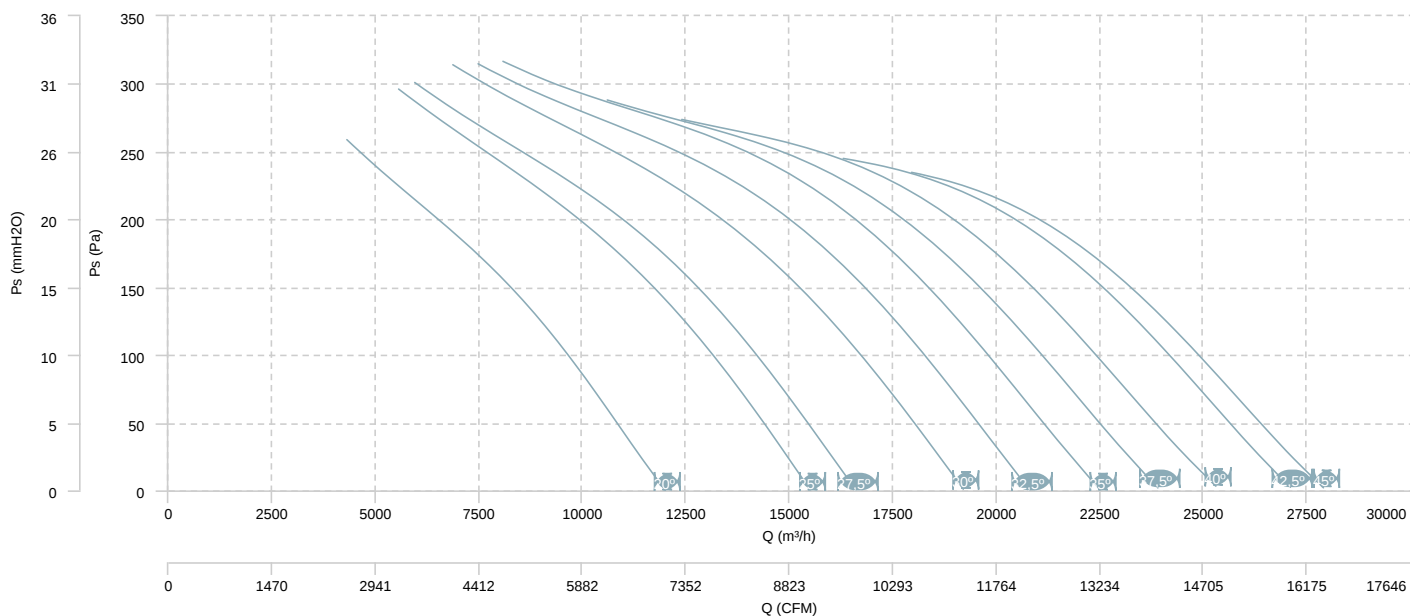


AIR FLOW - MECHANICAL POWER (8 poles)

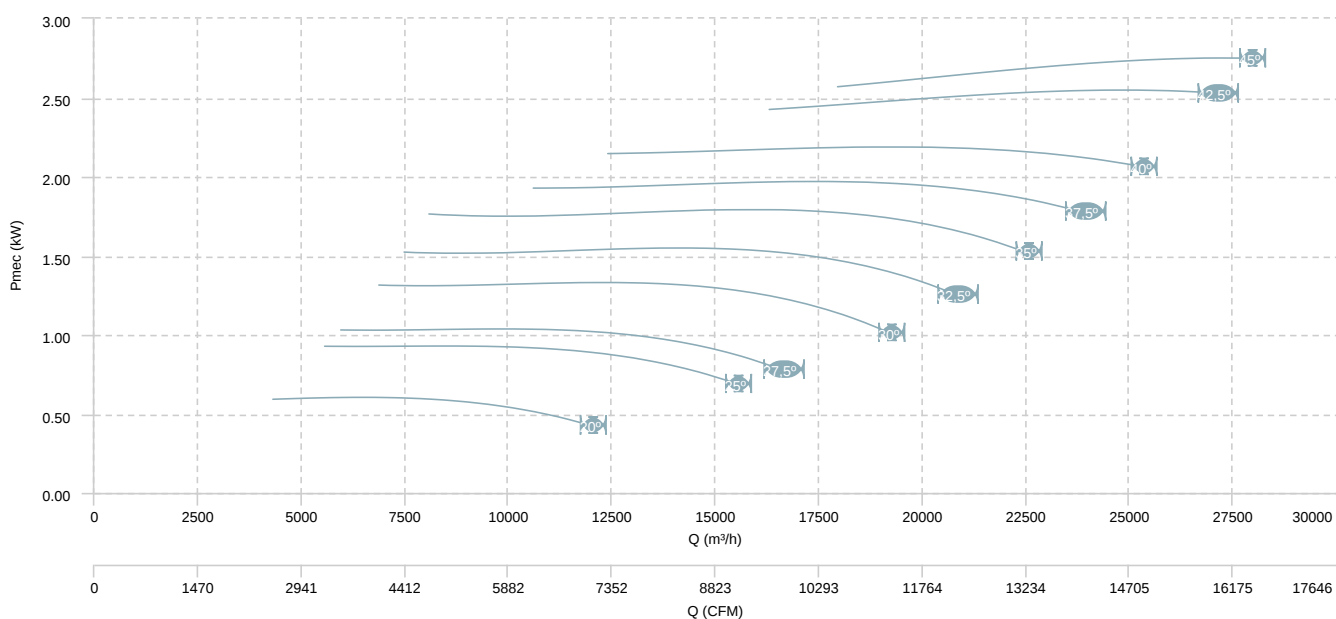


HMA 71 T4 (A2:6)

AIR FLOW - PRESSURE

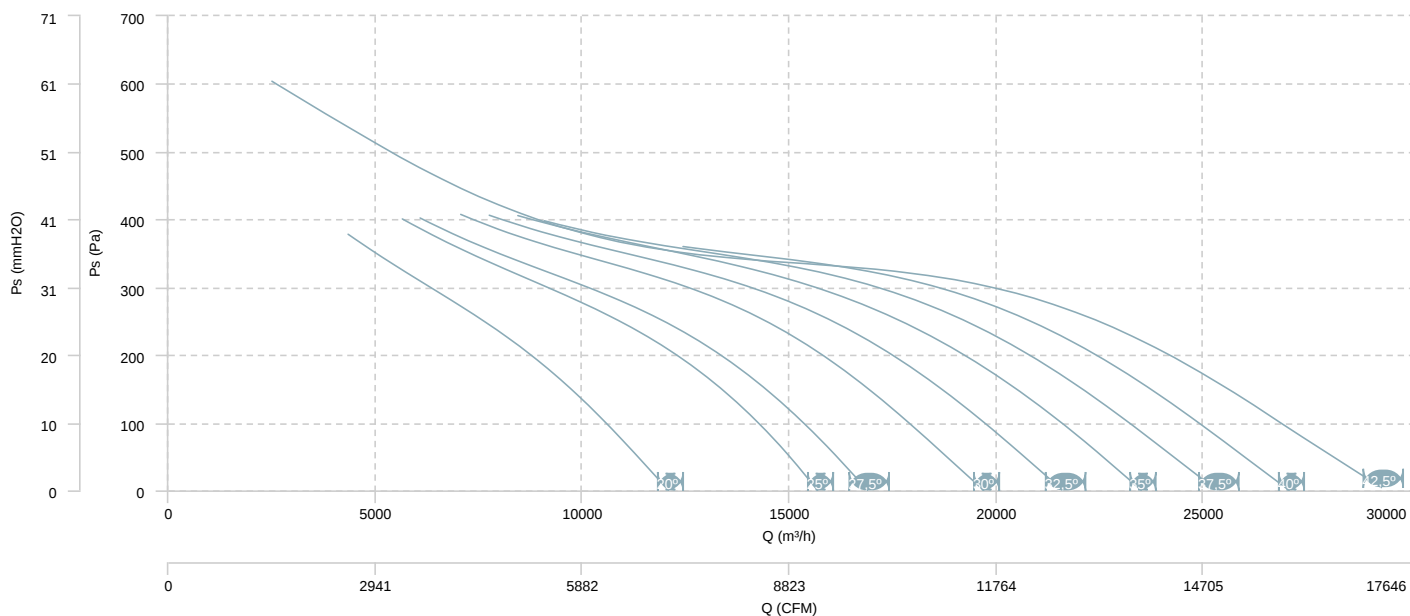


AIR FLOW - MECHANICAL POWER

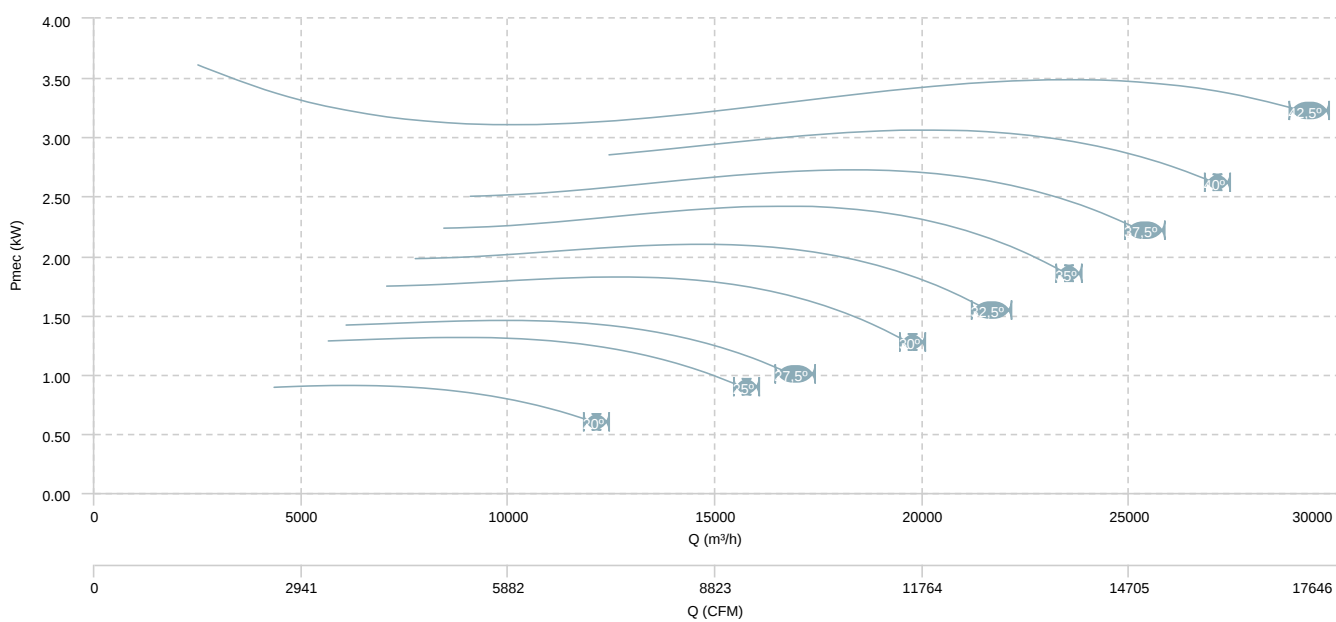


HMA 71 T4 (A2:9)

AIR FLOW - PRESSURE

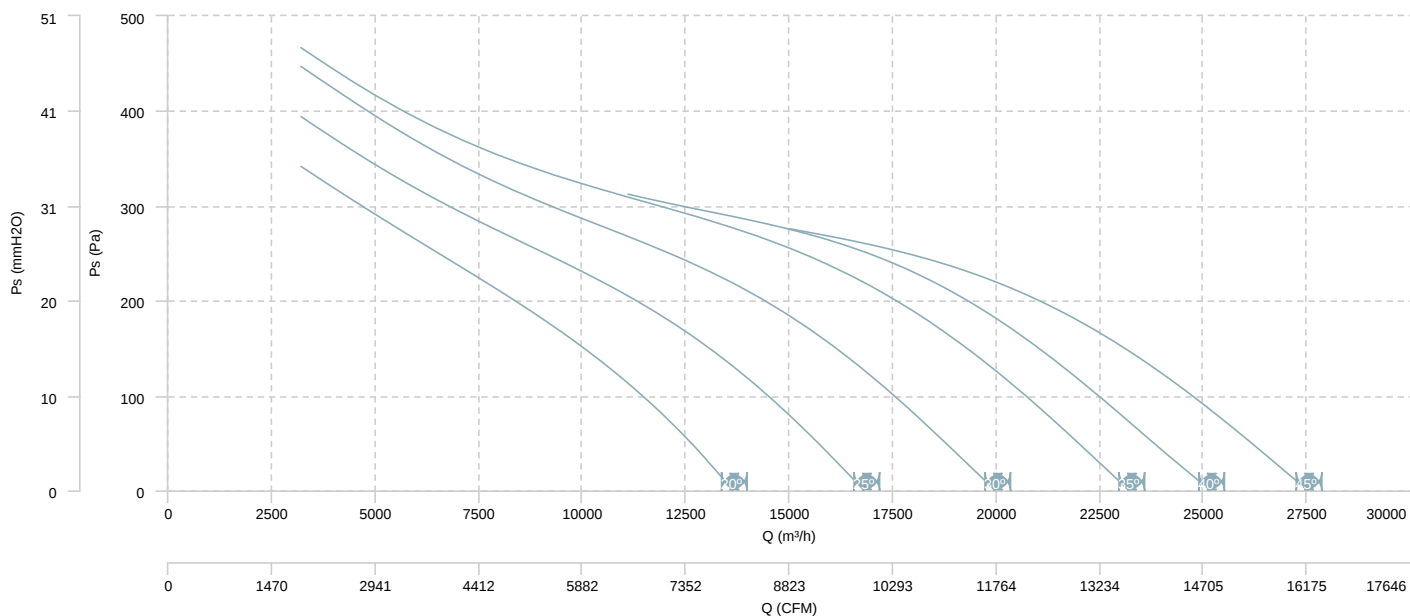


AIR FLOW - MECHANICAL POWER

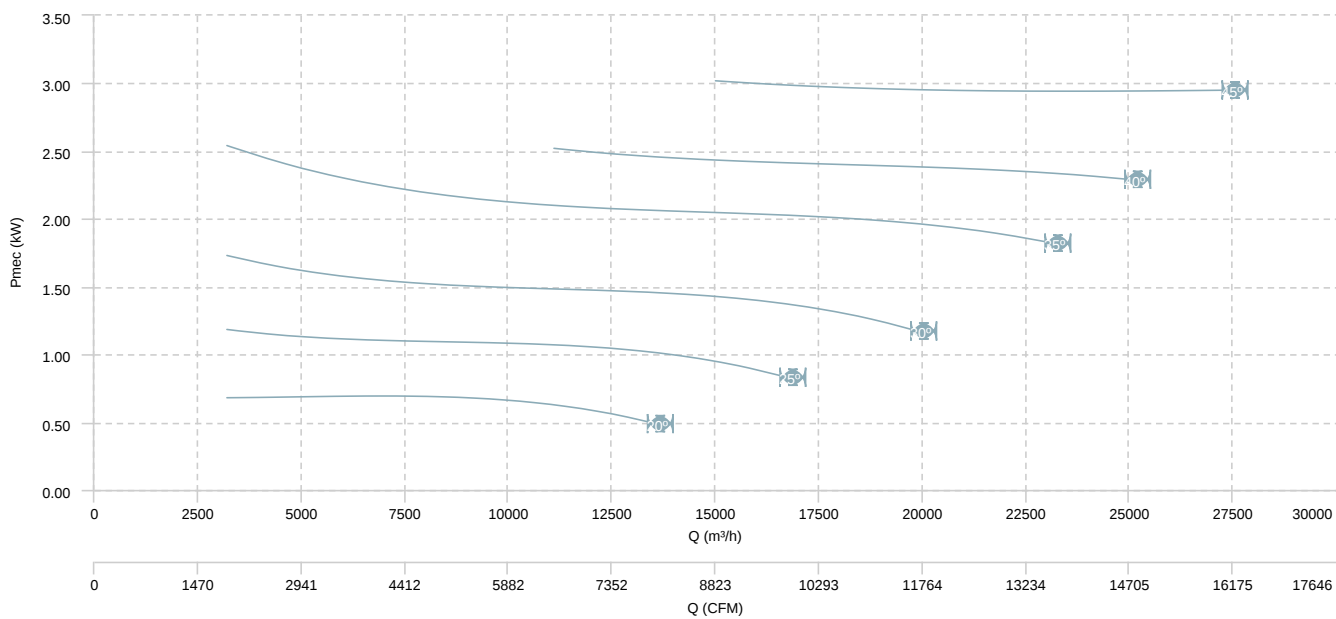


HMA 71 T4 (A5:6)

AIR FLOW - PRESSURE

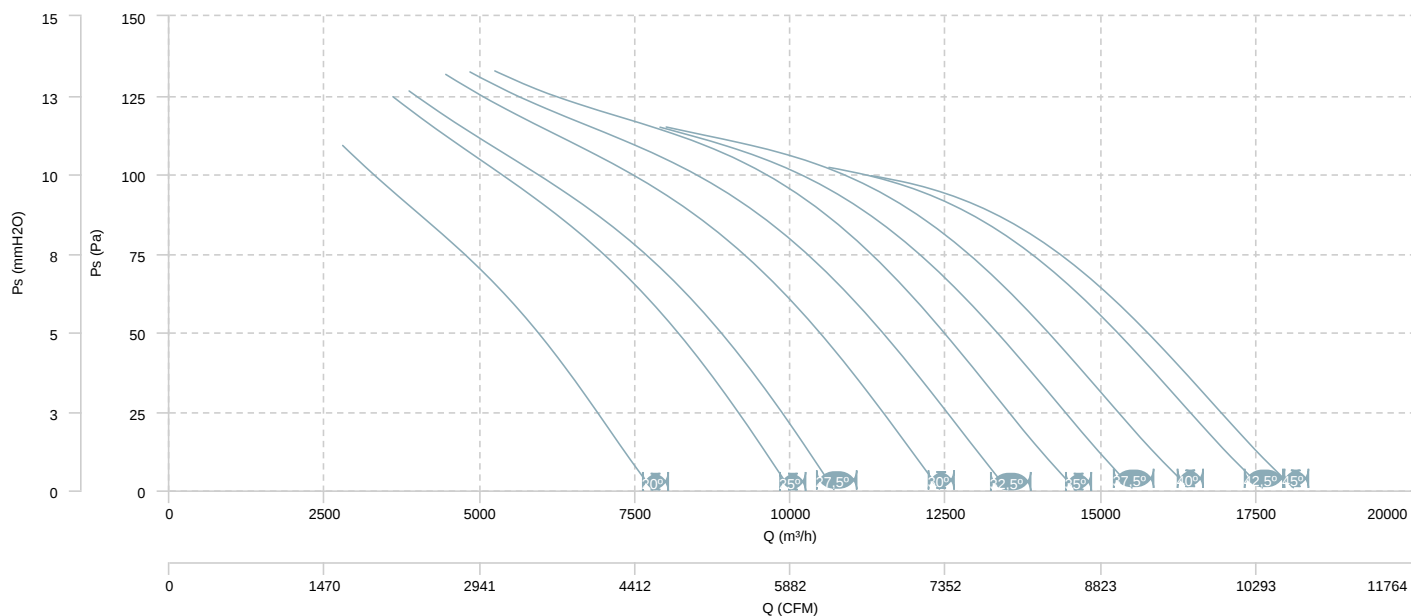


AIR FLOW - MECHANICAL POWER

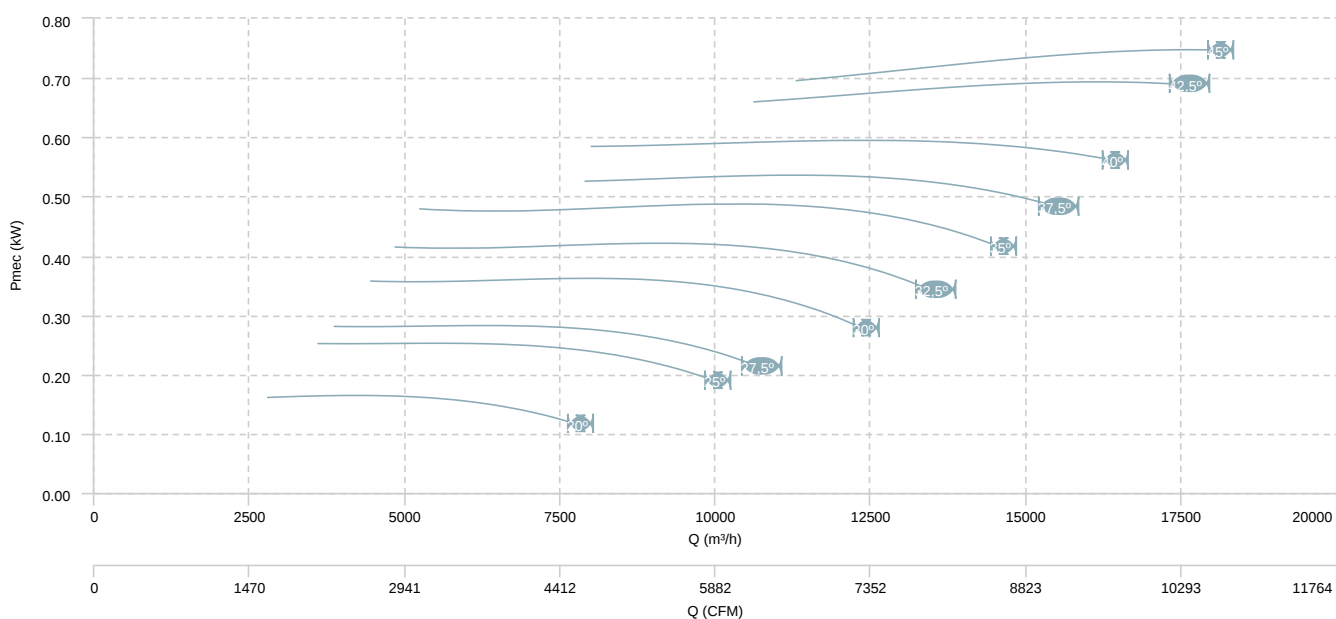


HMA 71 T6 (A2:6)

AIR FLOW - PRESSURE

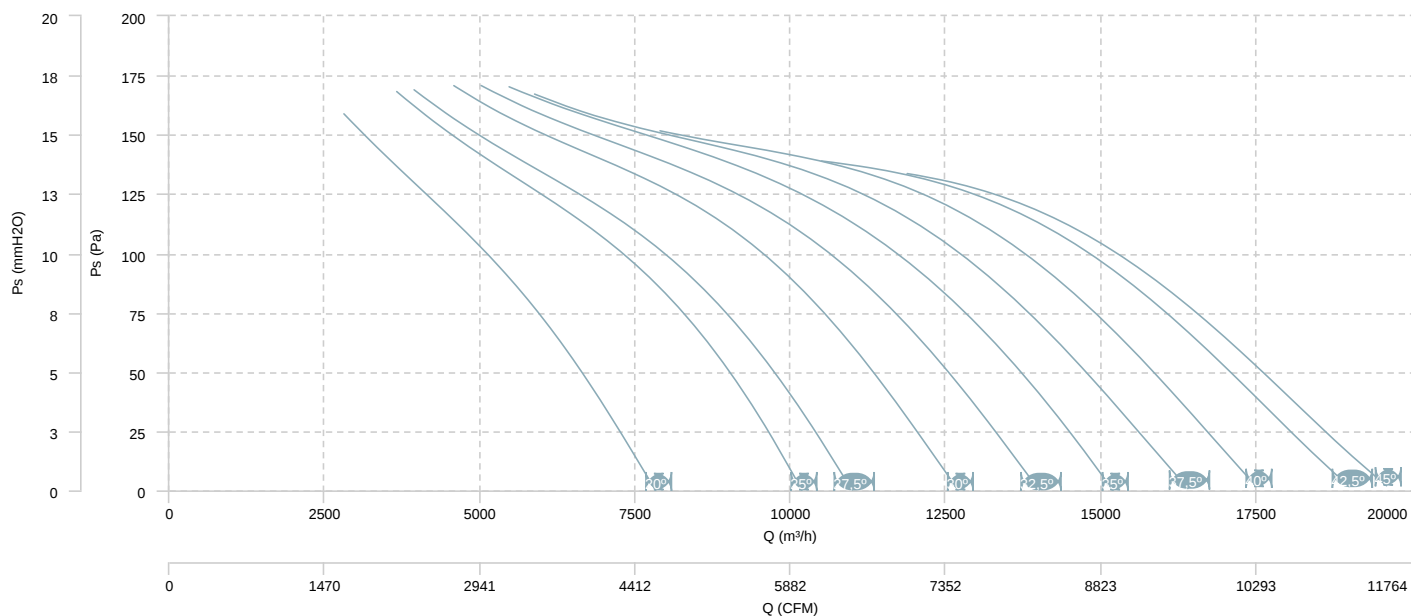


AIR FLOW - MECHANICAL POWER

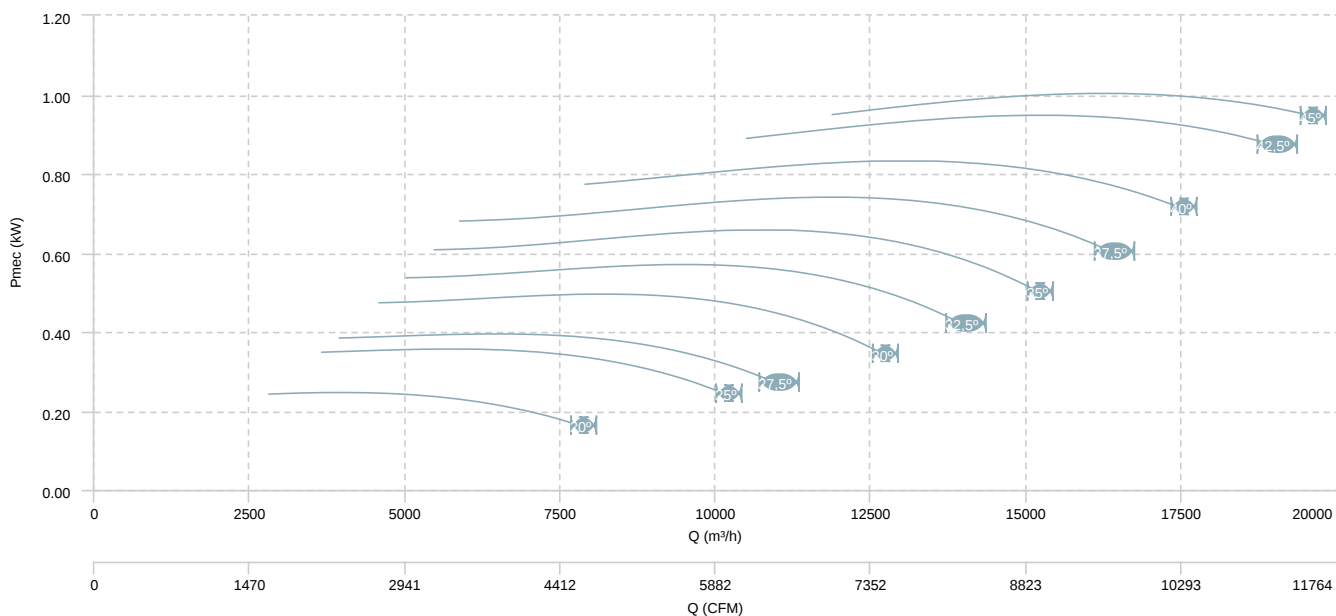


HMA 71 T6 (A2:9)

AIR FLOW - PRESSURE

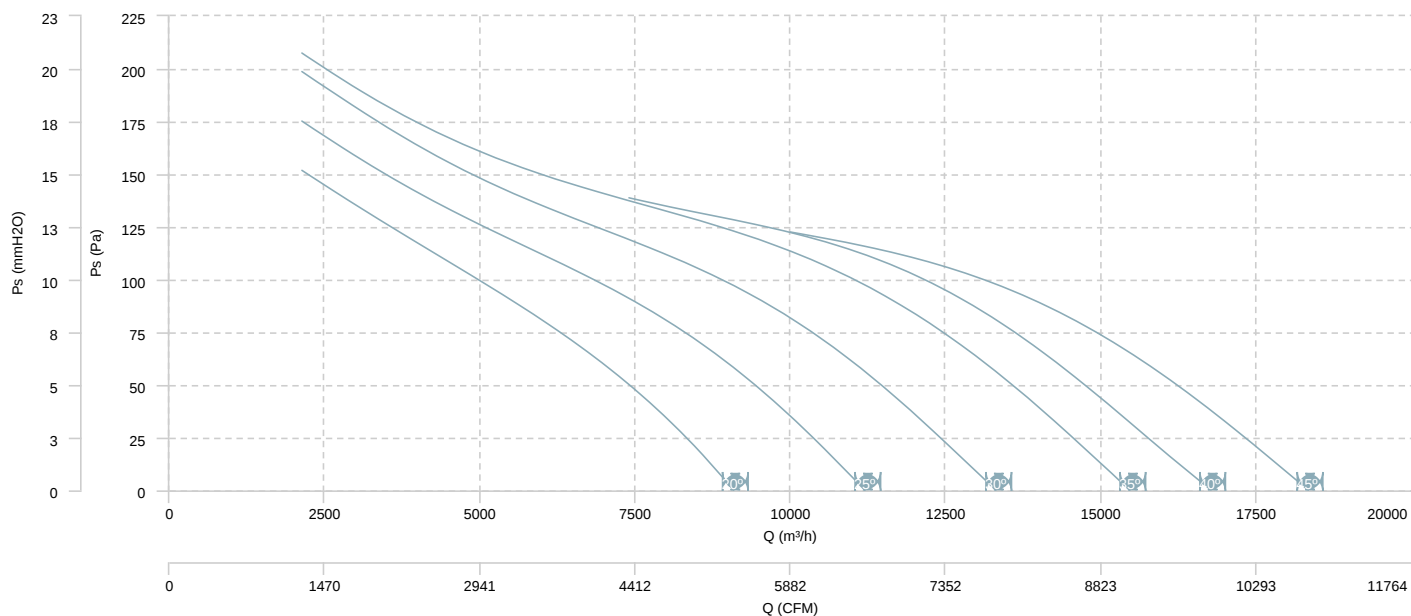


AIR FLOW - MECHANICAL POWER

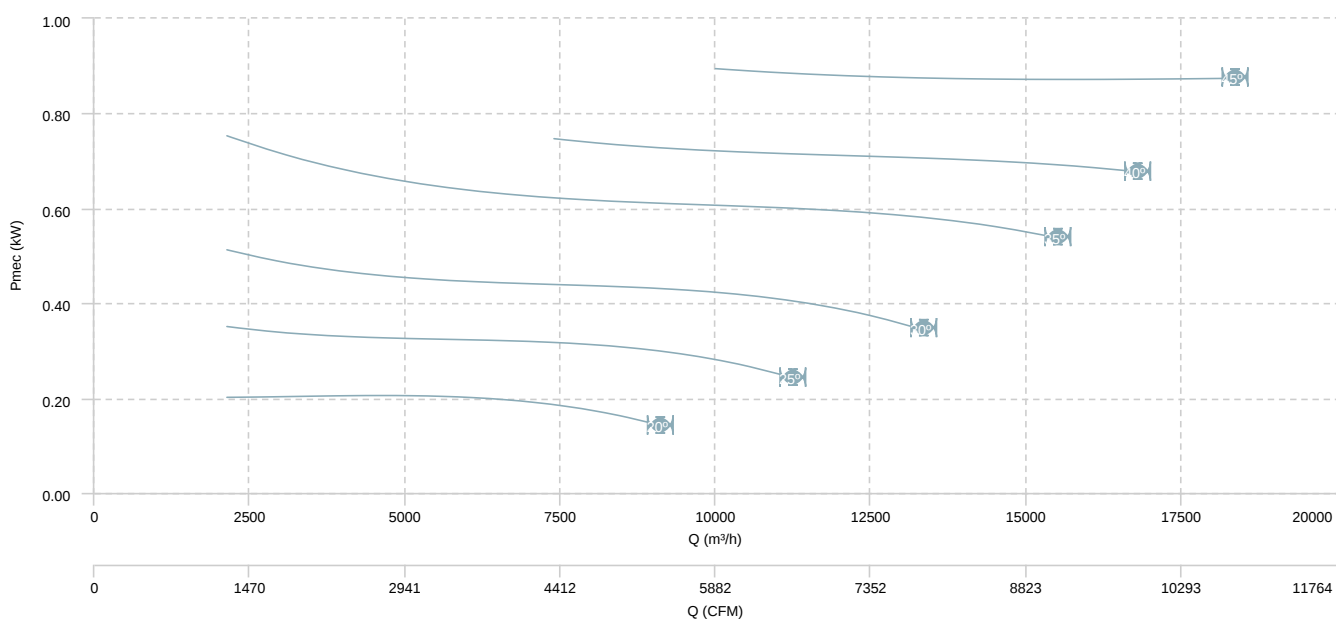


HMA 71 T6 (A5:6)

AIR FLOW - PRESSURE

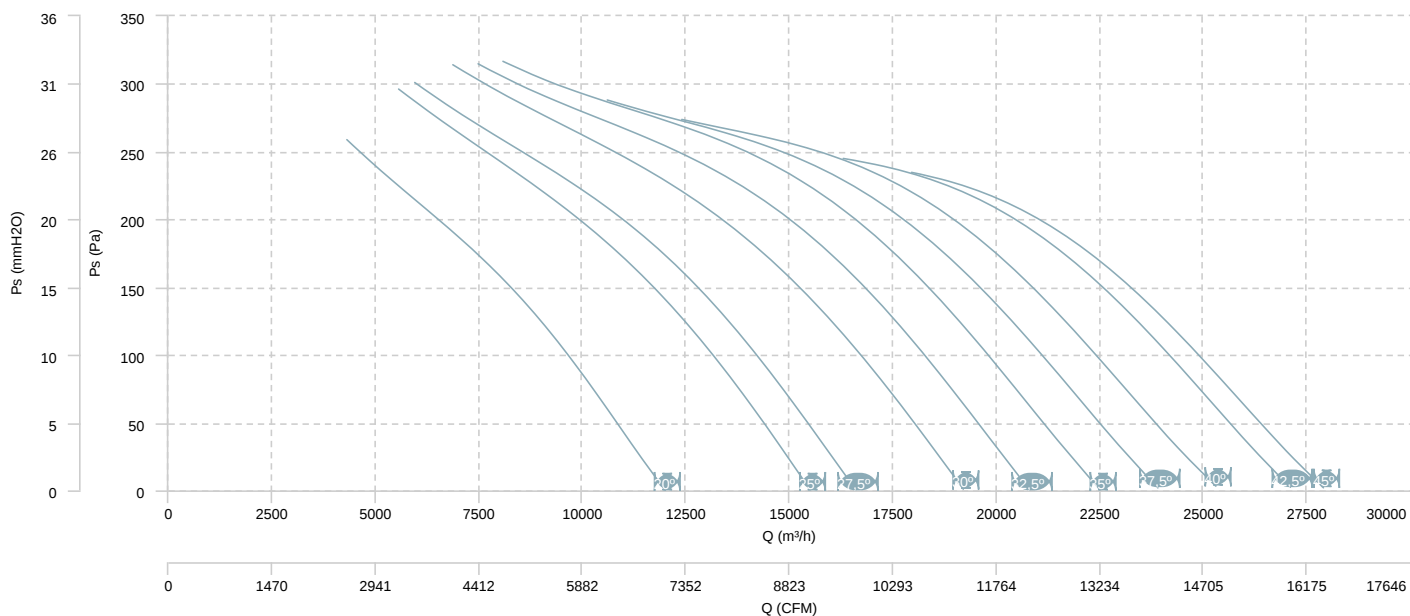


AIR FLOW - MECHANICAL POWER

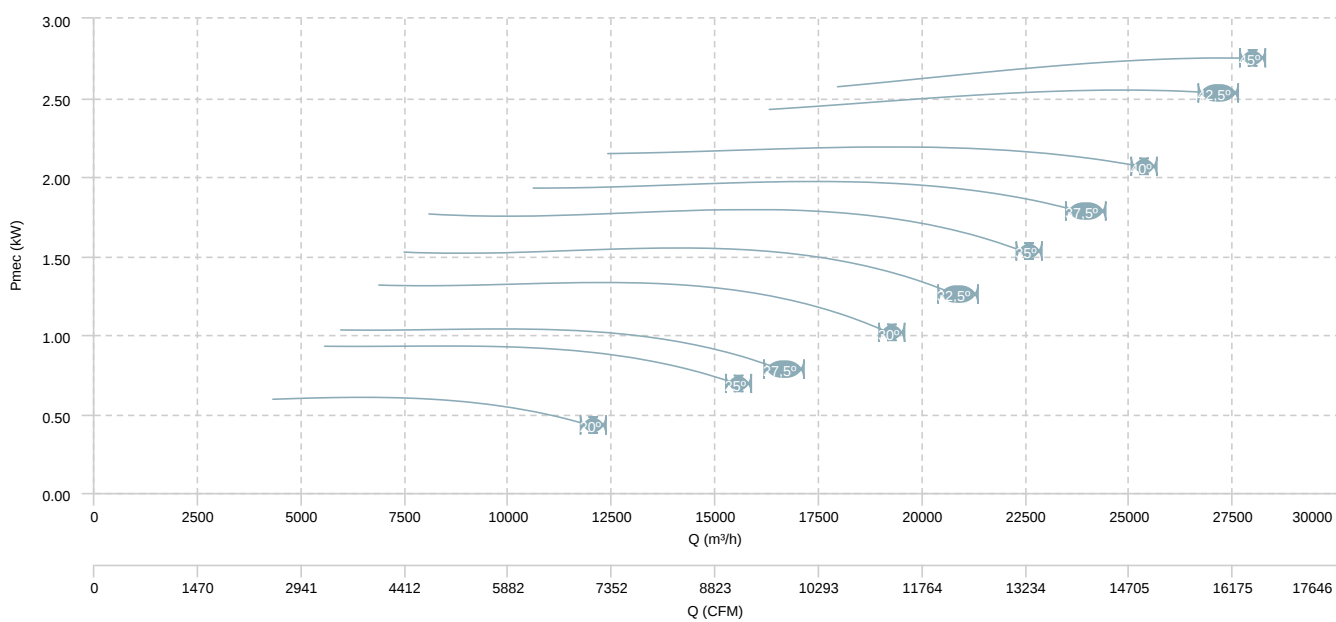


HMA 71 T4/T8 (A2:6)

AIR FLOW - PRESSURE (4 poles)

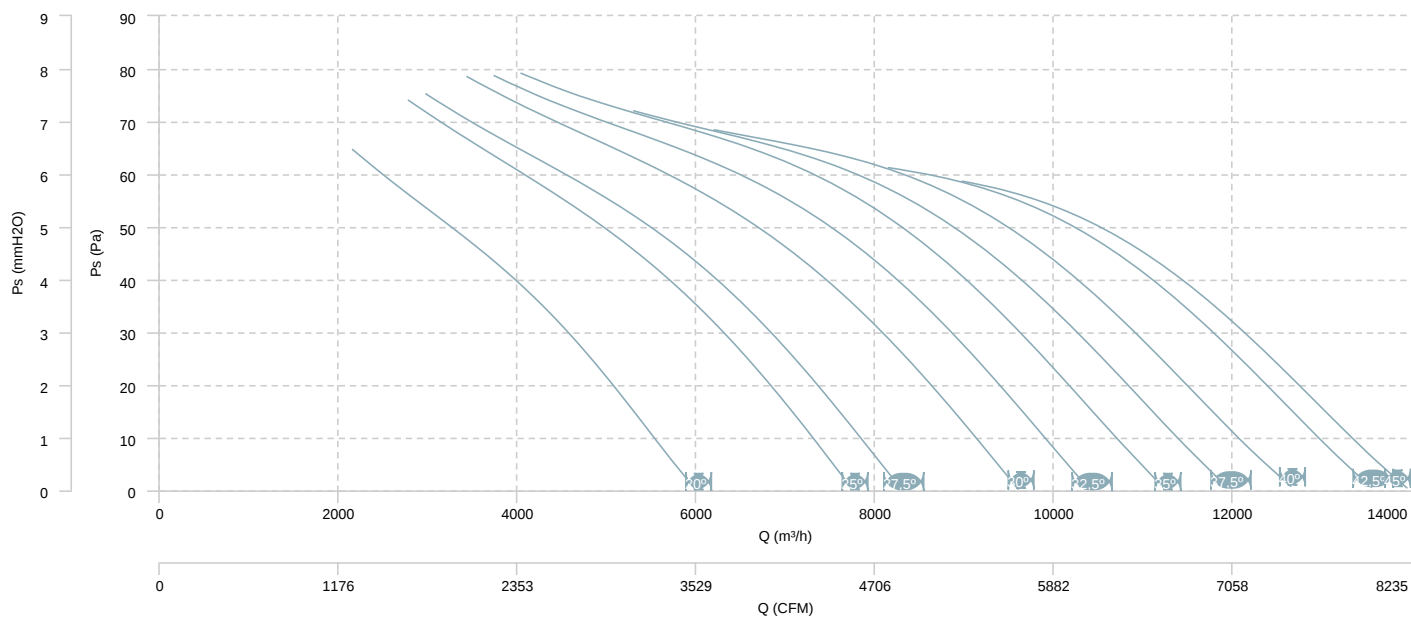


AIR FLOW - MECHANICAL POWER (4 poles)

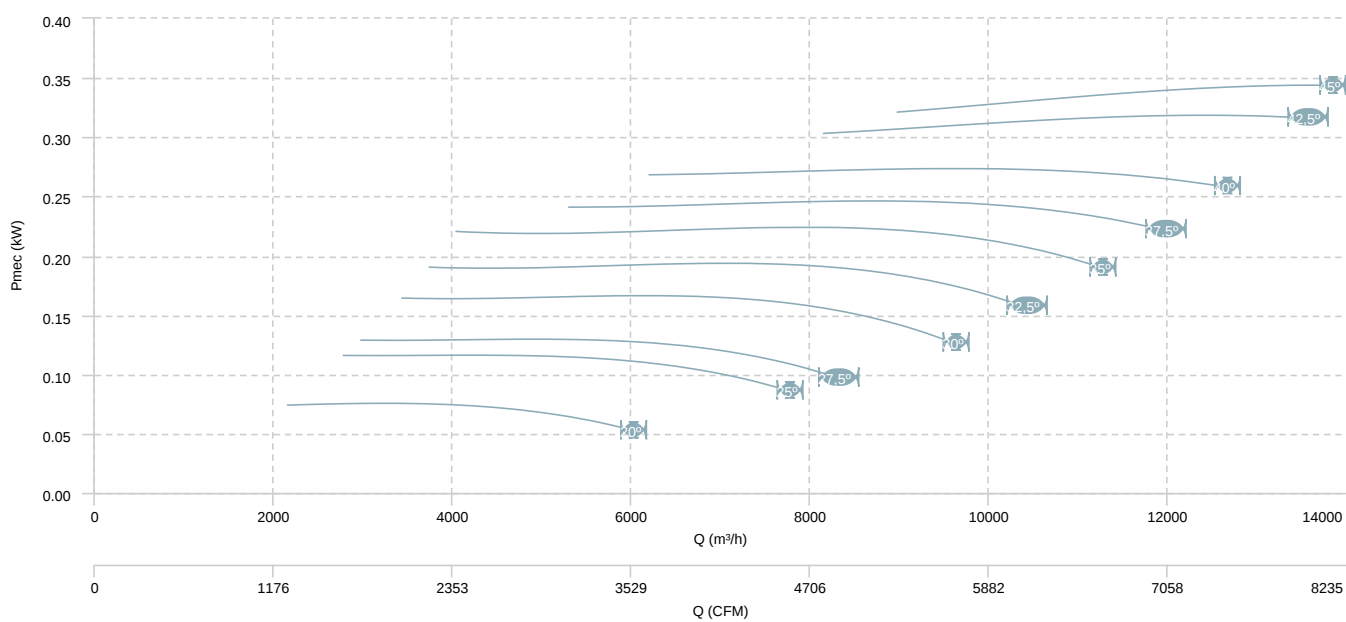


HMA 71 T4/T8 (A2:6)

AIR FLOW - PRESSURE (8 poles)

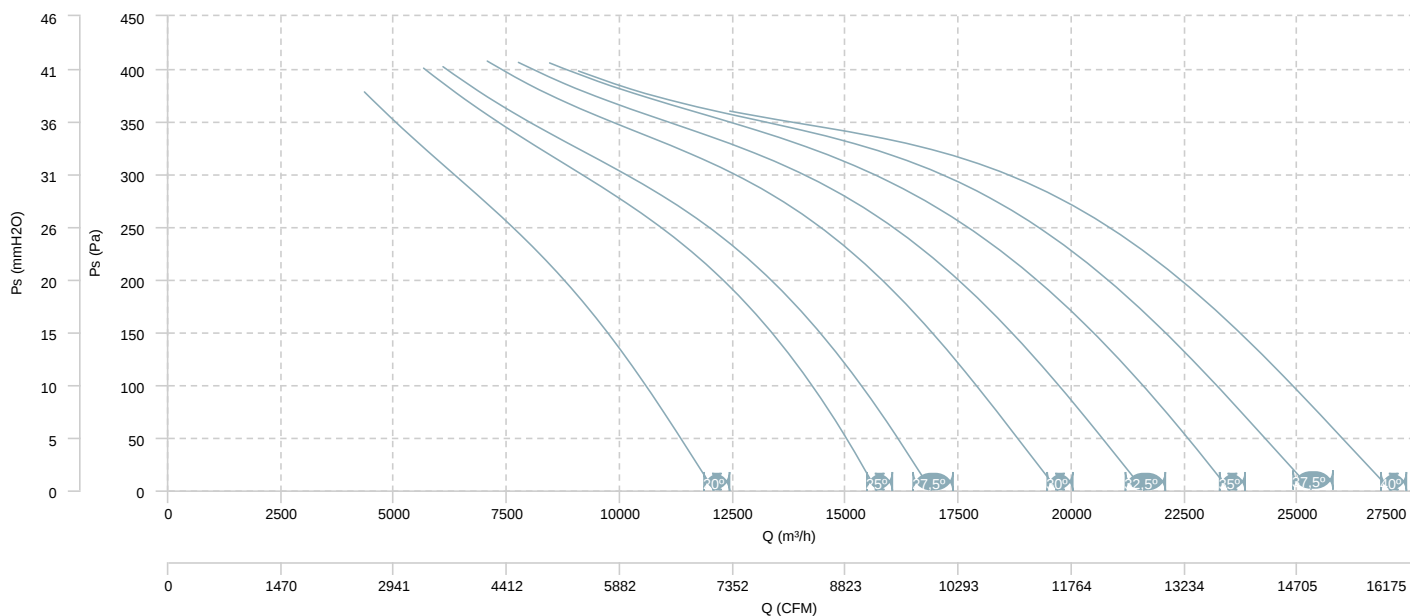


AIR FLOW - MECHANICAL POWER (8 poles)

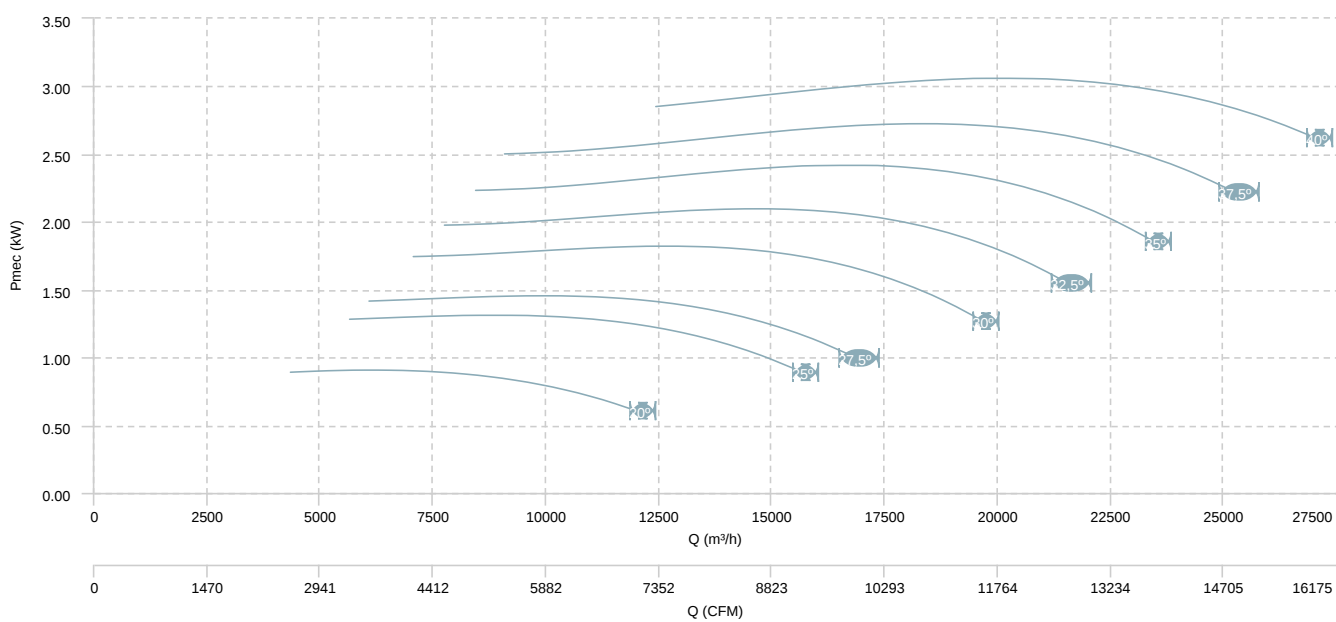


HMA 71 T4/T8 (A2:9)

AIR FLOW - PRESSURE (4 poles)

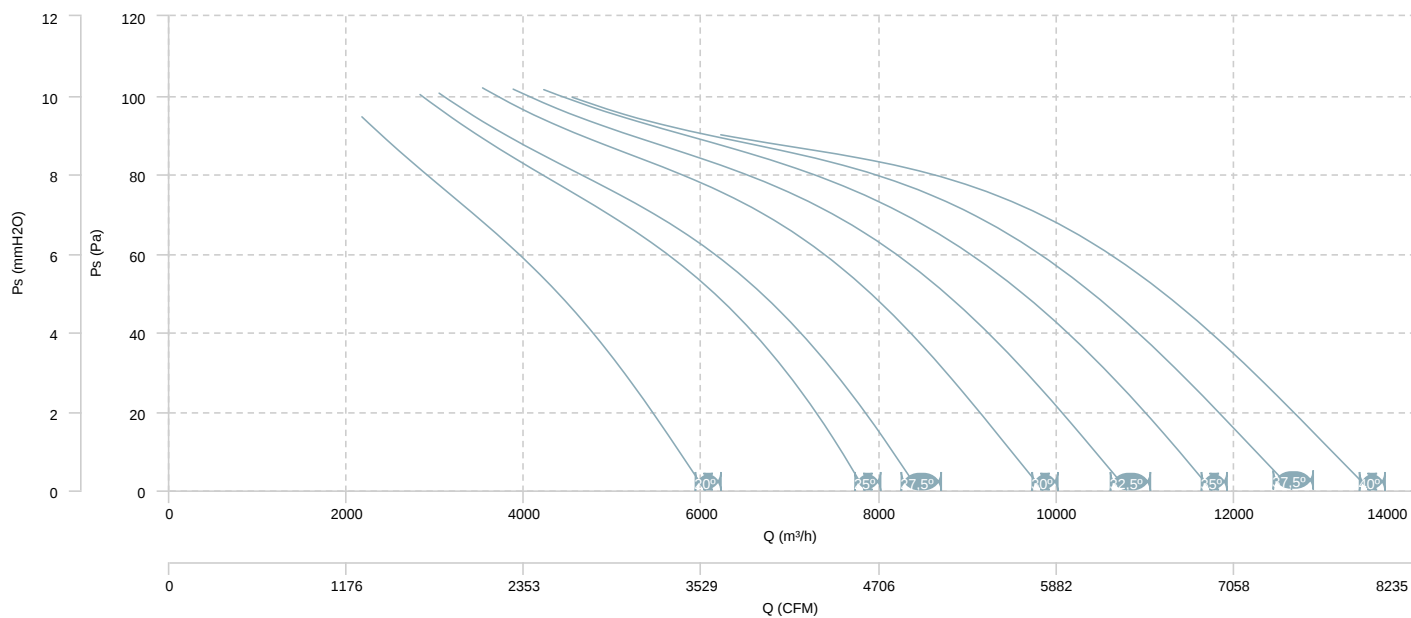


AIR FLOW - MECHANICAL POWER (4 poles)

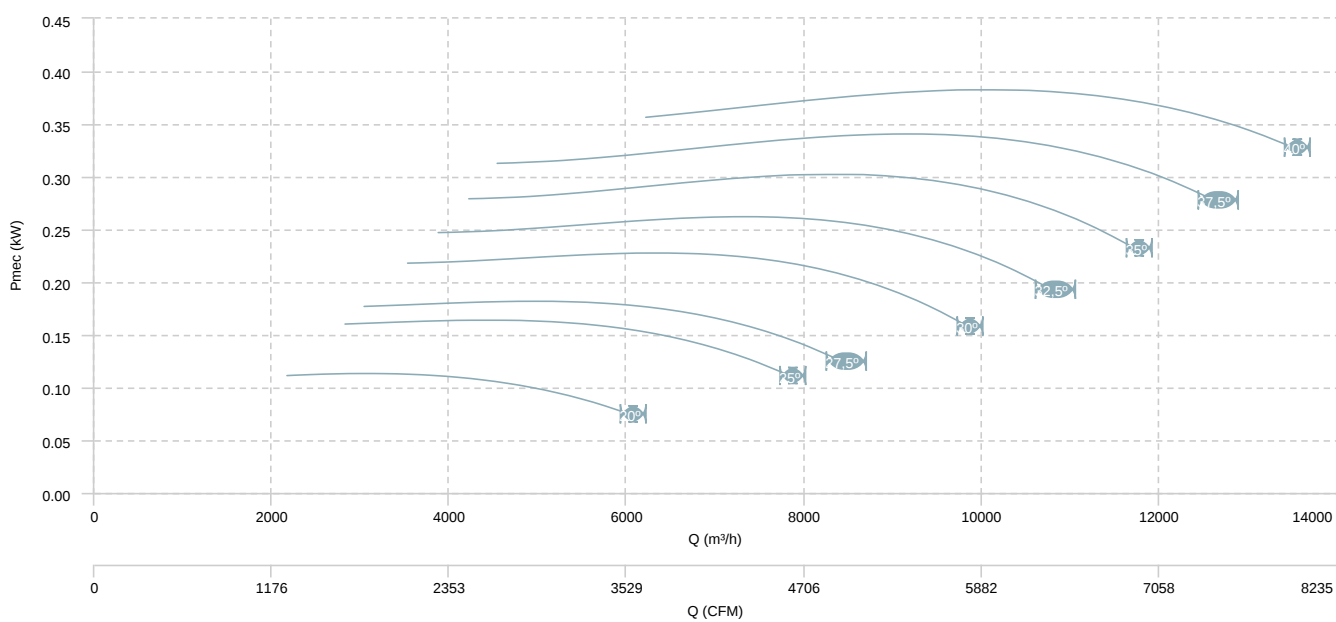


HMA 71 T4/T8 (A2:9)

AIR FLOW - PRESSURE (8 poles)

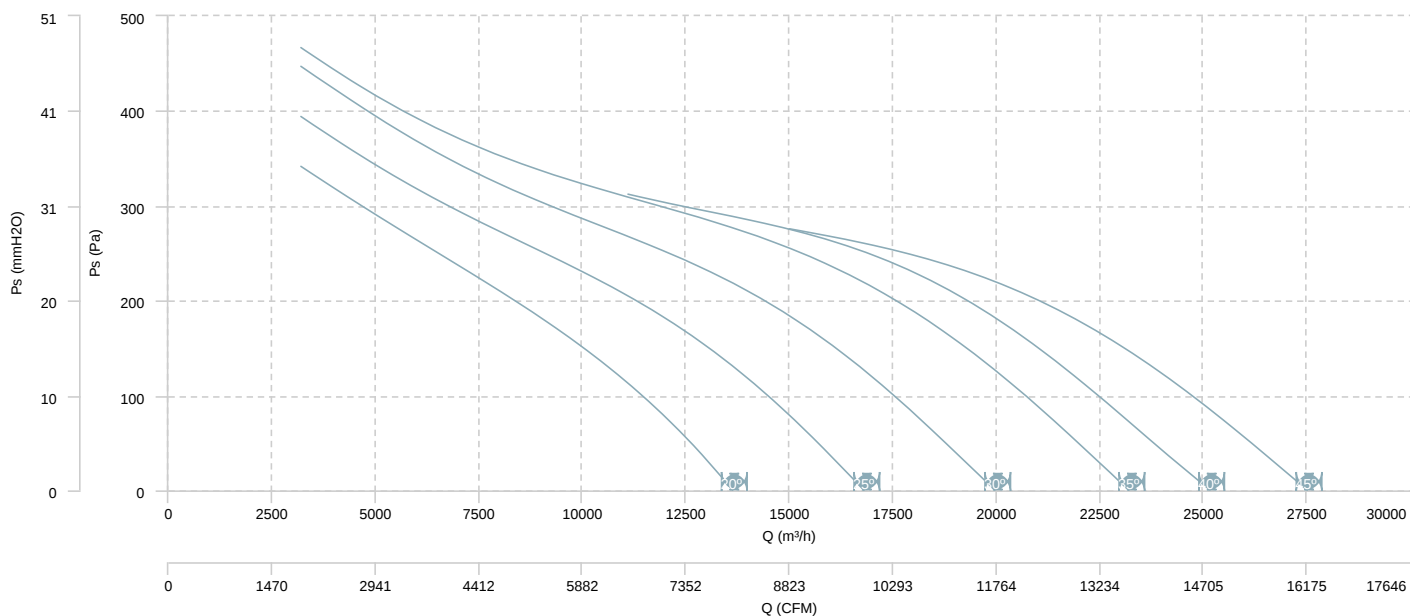


AIR FLOW - MECHANICAL POWER (8 poles)

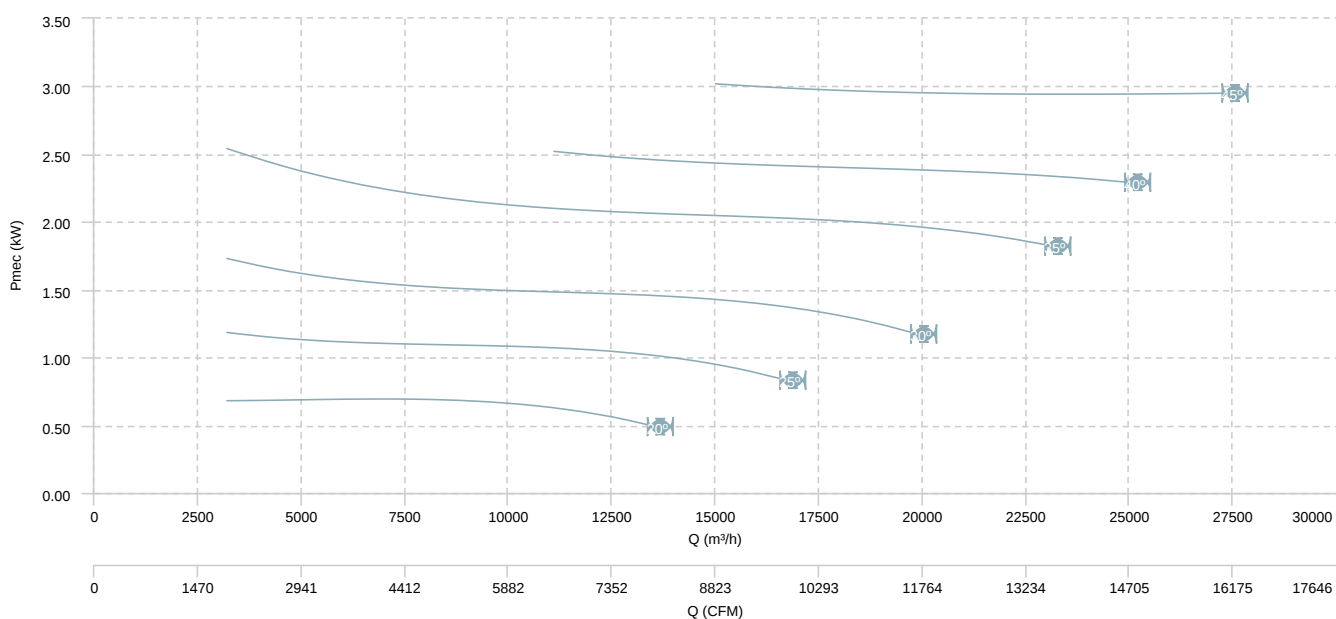


HMA 71 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

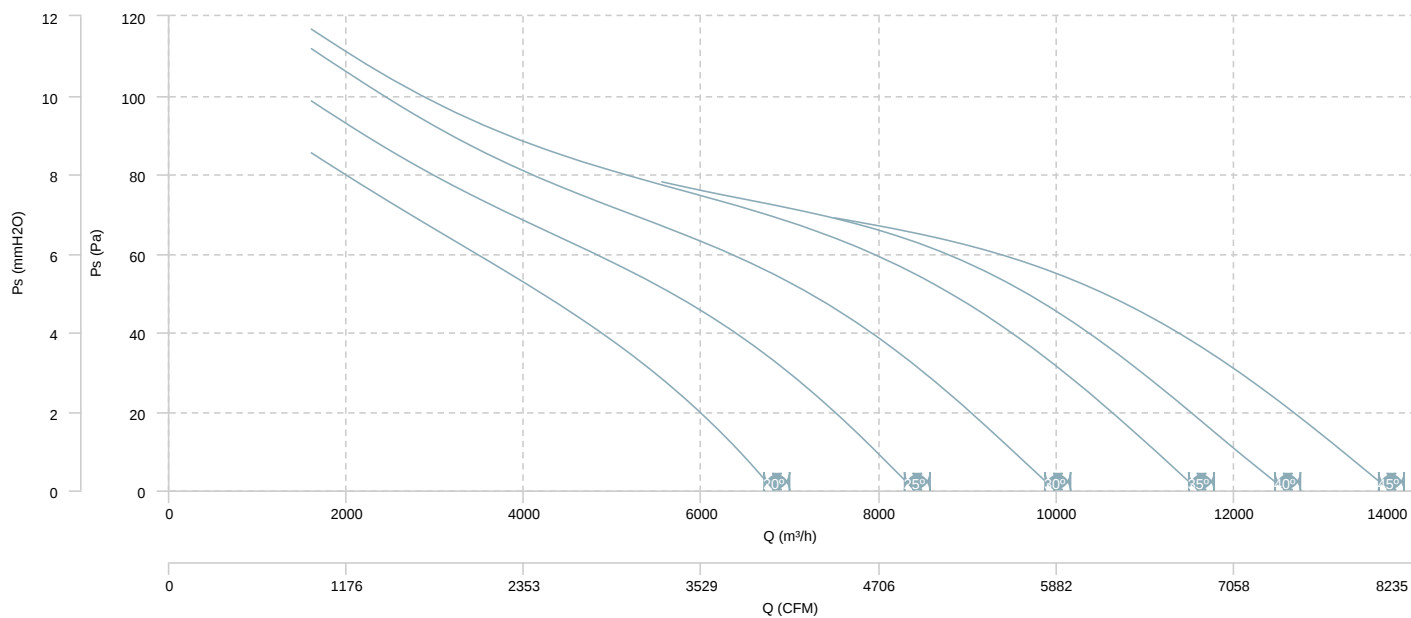


AIR FLOW - MECHANICAL POWER (4 poles)

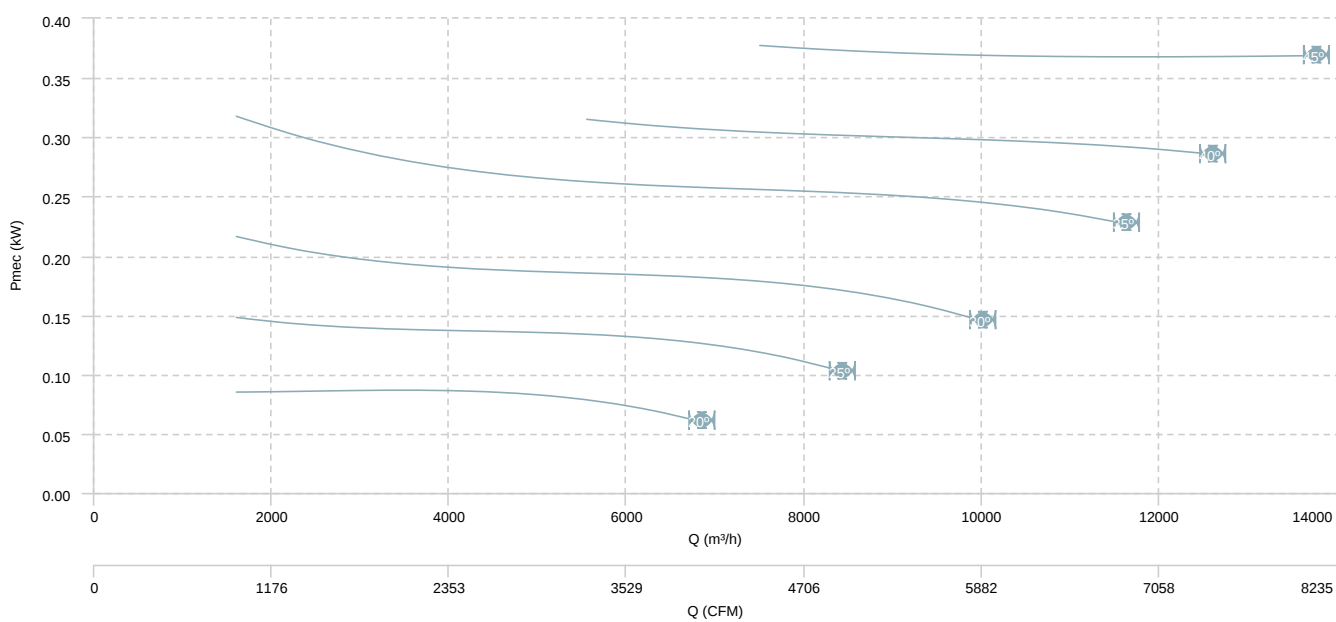


HMA 71 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

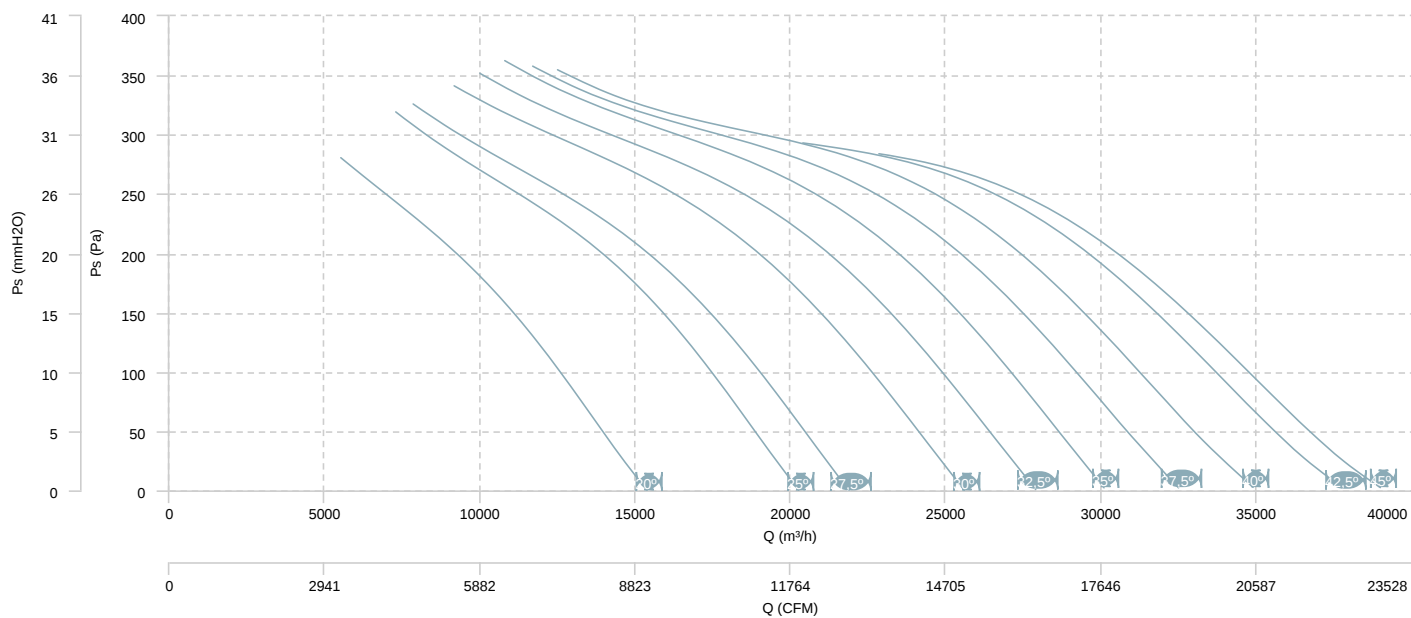


AIR FLOW - MECHANICAL POWER (8 poles)

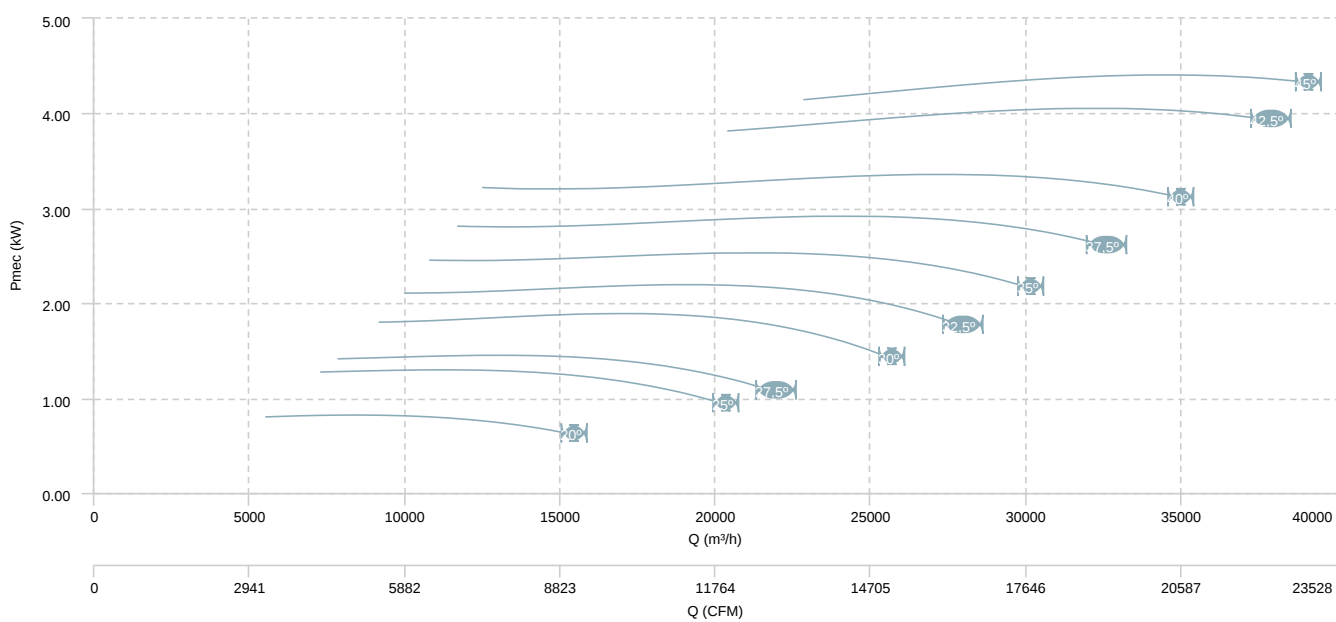


HMA 80 T4 (A2:6)

AIR FLOW - PRESSURE

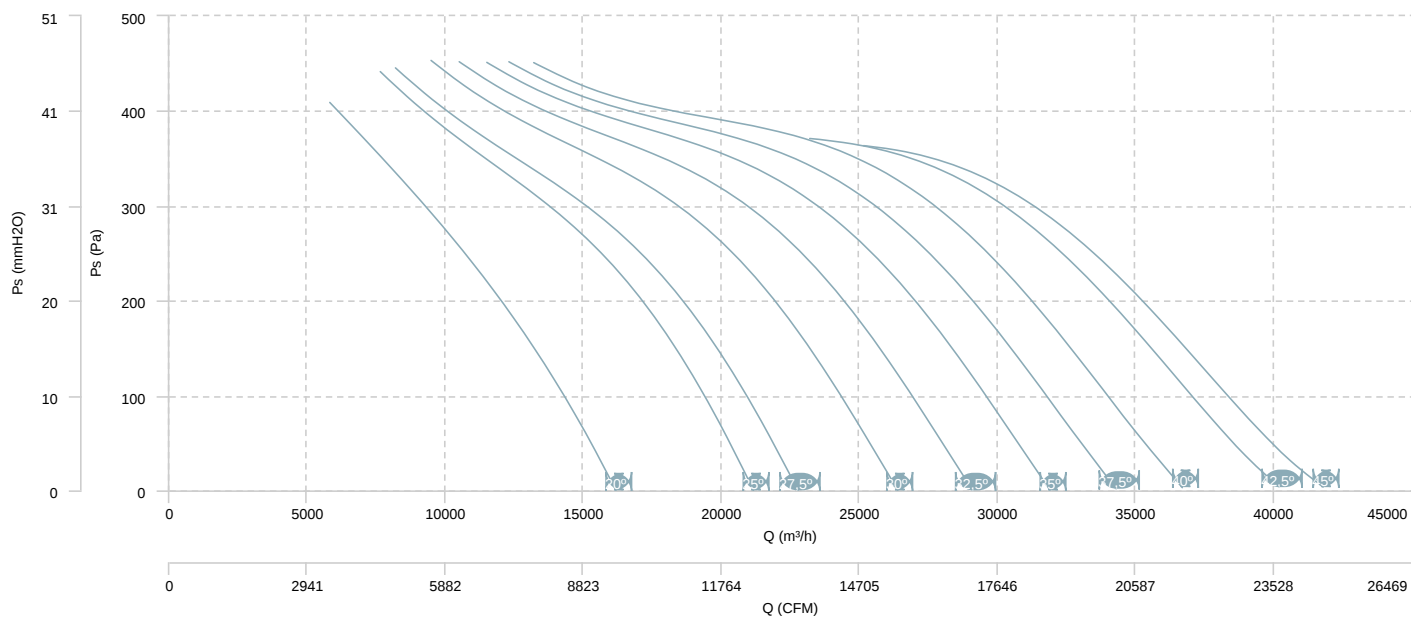


AIR FLOW - MECHANICAL POWER

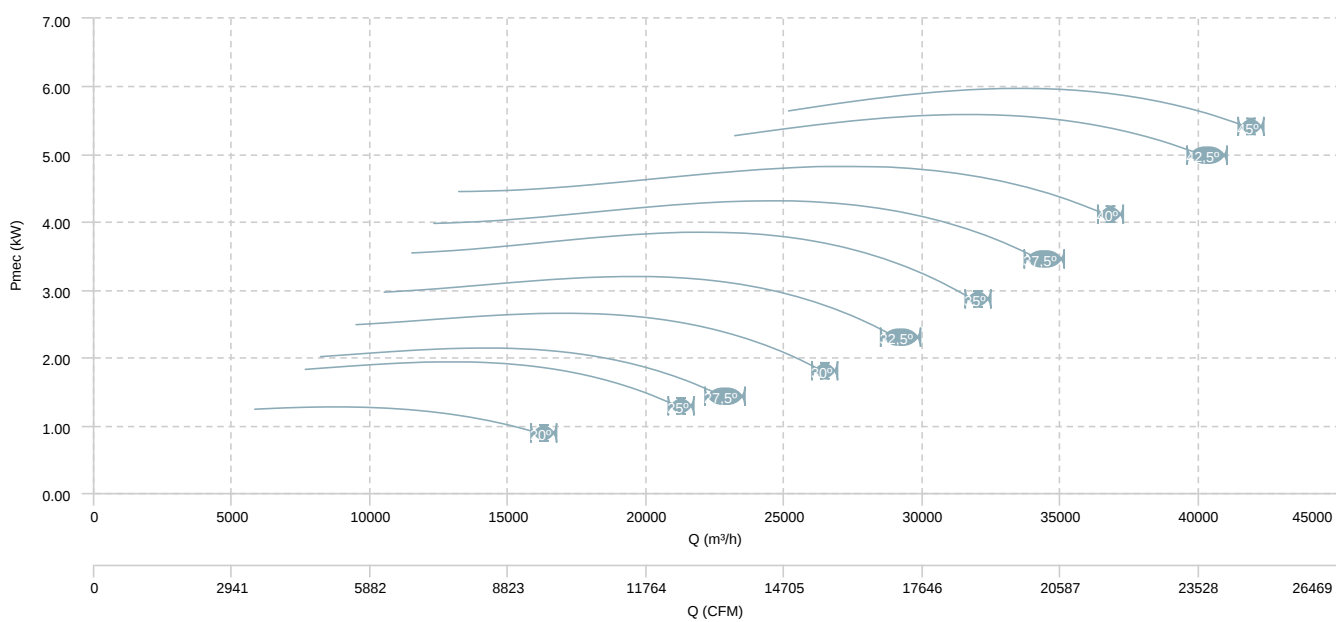


HMA 80 T4 (A2:9)

AIR FLOW - PRESSURE

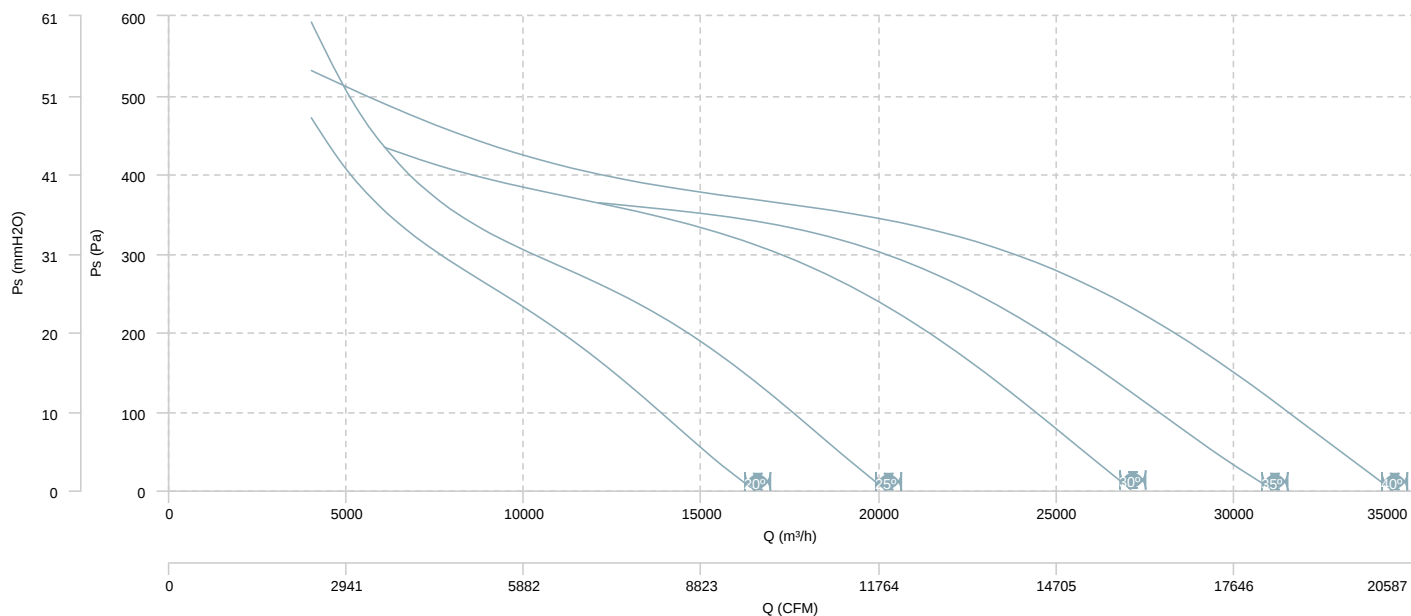


AIR FLOW - MECHANICAL POWER

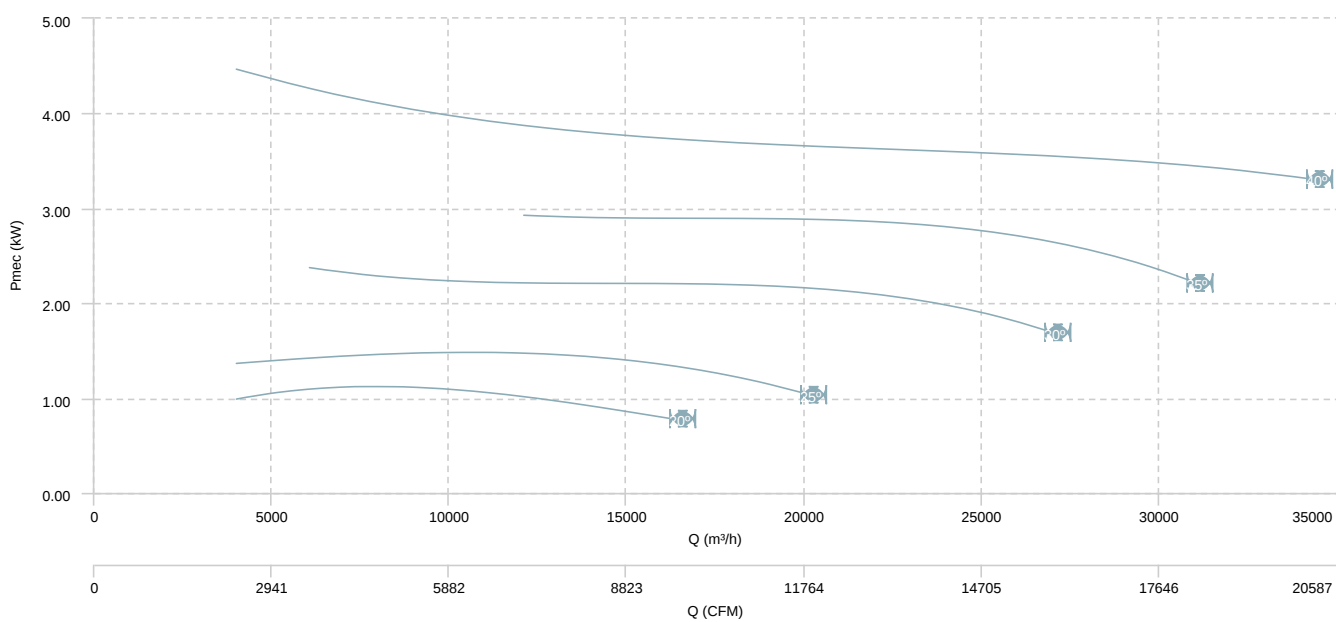


HMA 80 T4 (A5:6)

AIR FLOW - PRESSURE

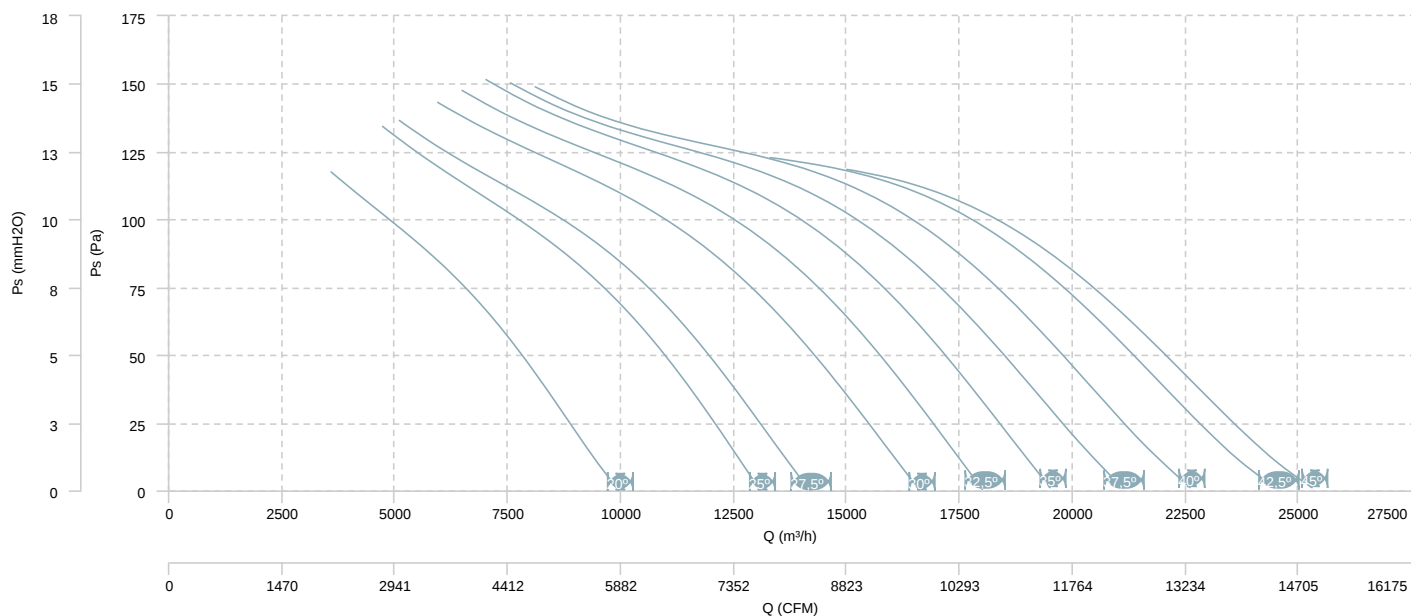


AIR FLOW - MECHANICAL POWER

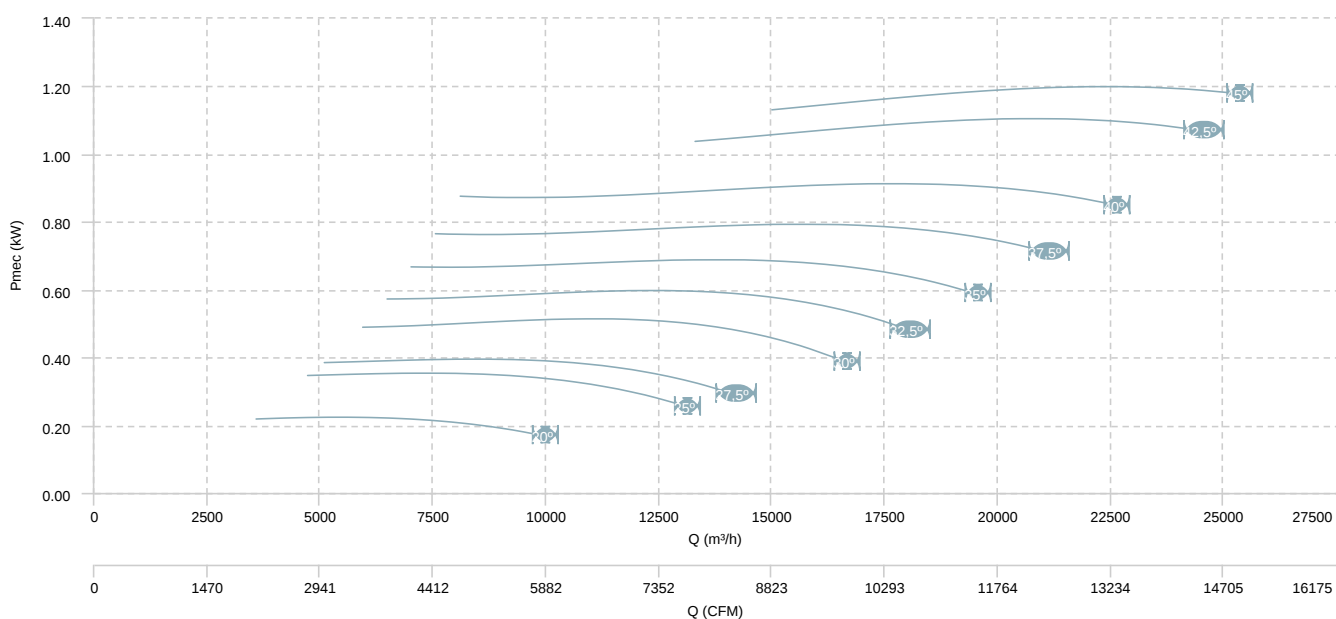


HMA 80 T6 (A2:6)

AIR FLOW - PRESSURE

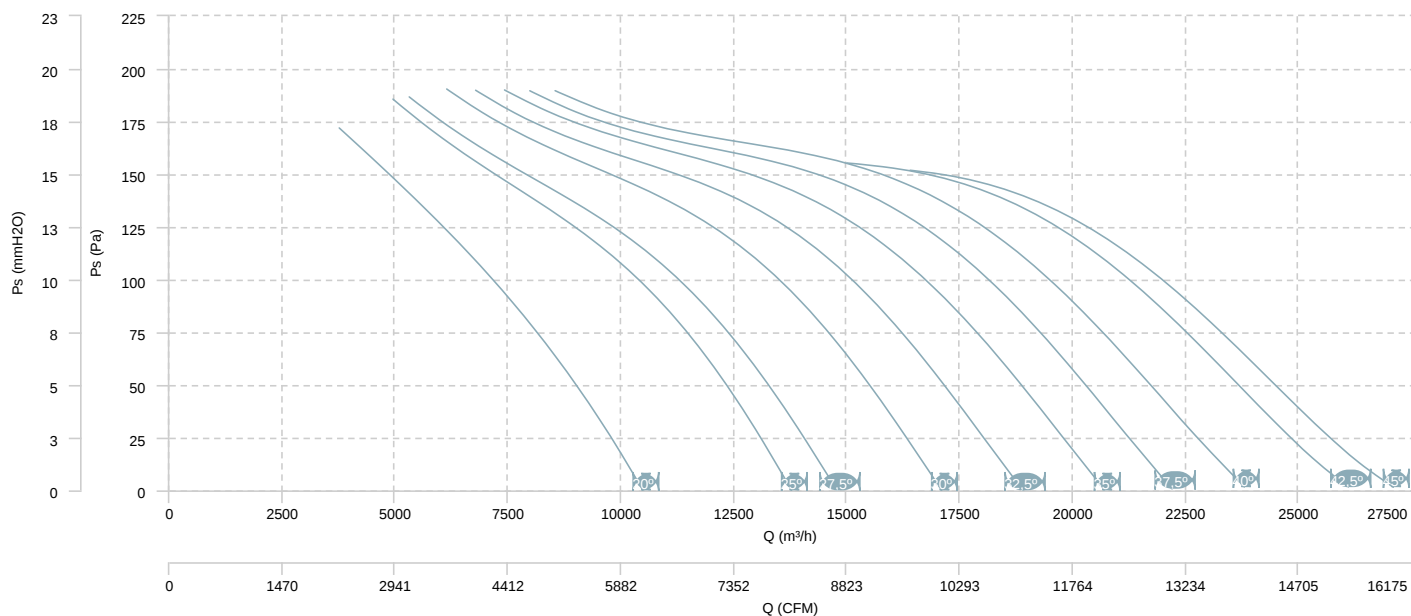


AIR FLOW - MECHANICAL POWER

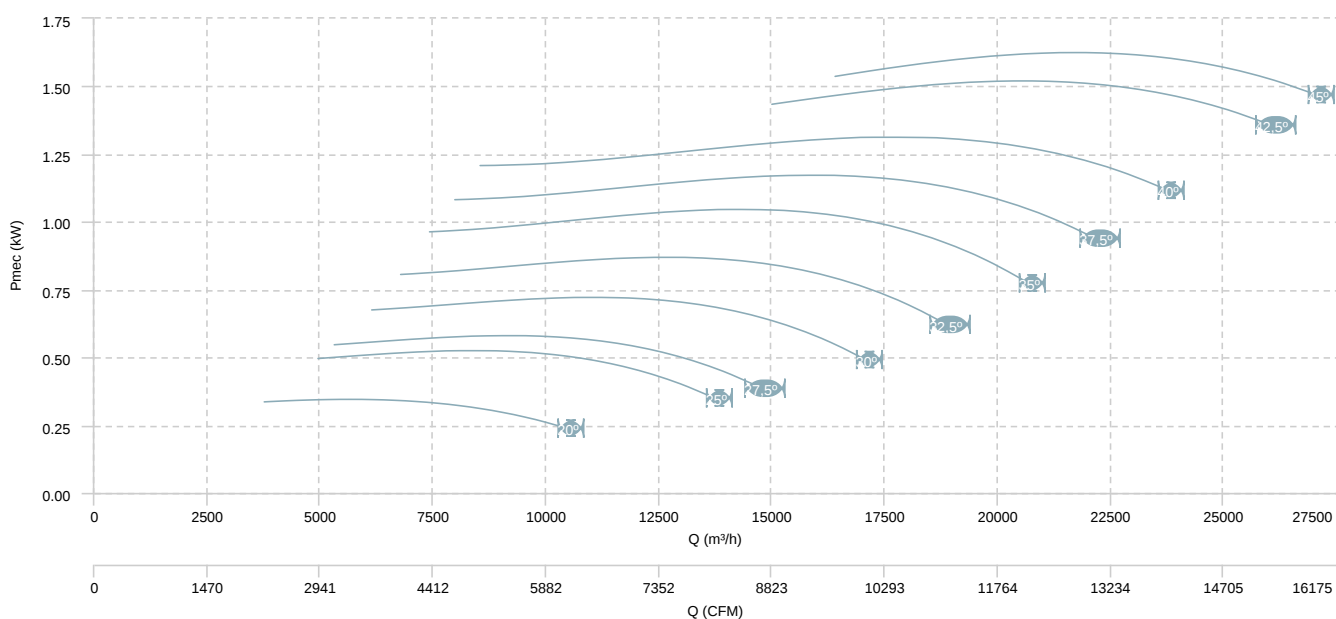


HMA 80 T6 (A2:9)

AIR FLOW - PRESSURE

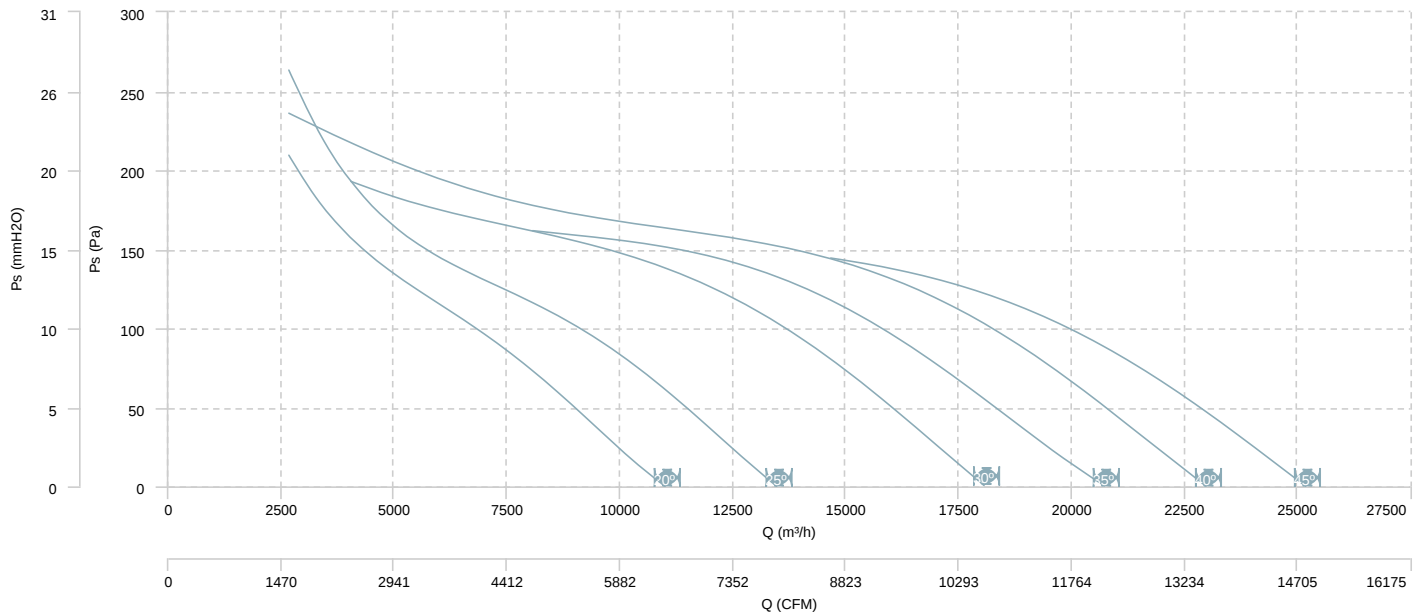


AIR FLOW - MECHANICAL POWER

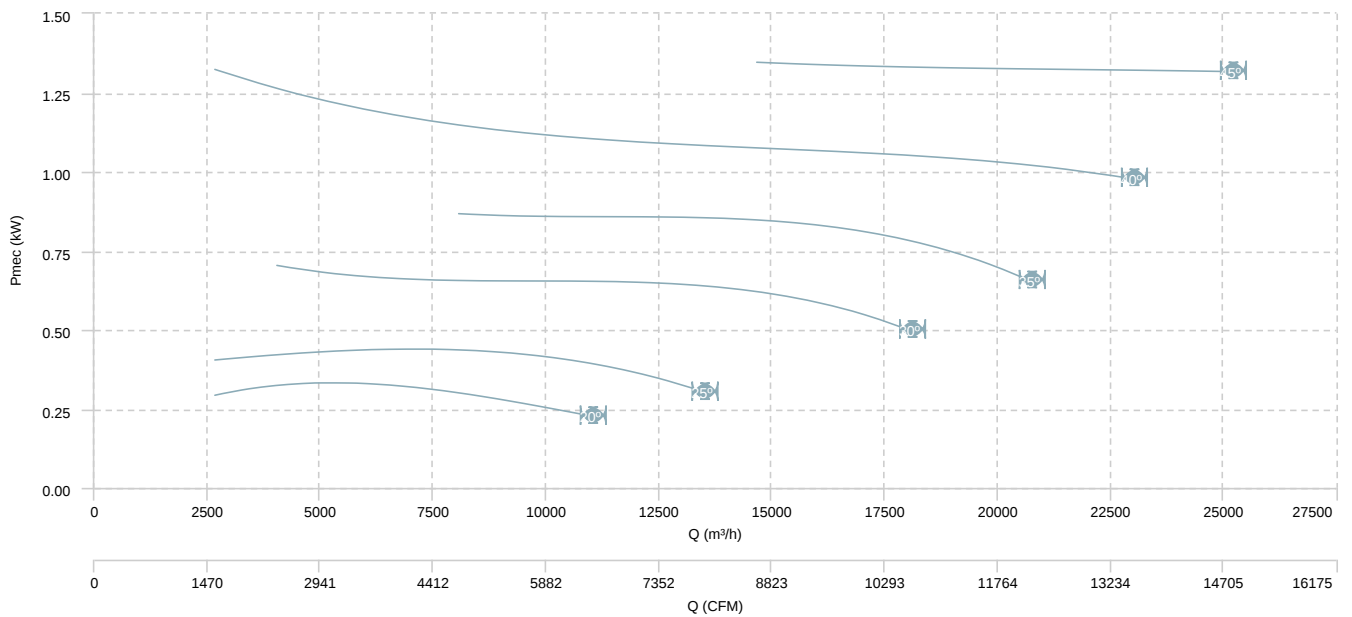


HMA 80 T6 (A5:6)

AIR FLOW - PRESSURE

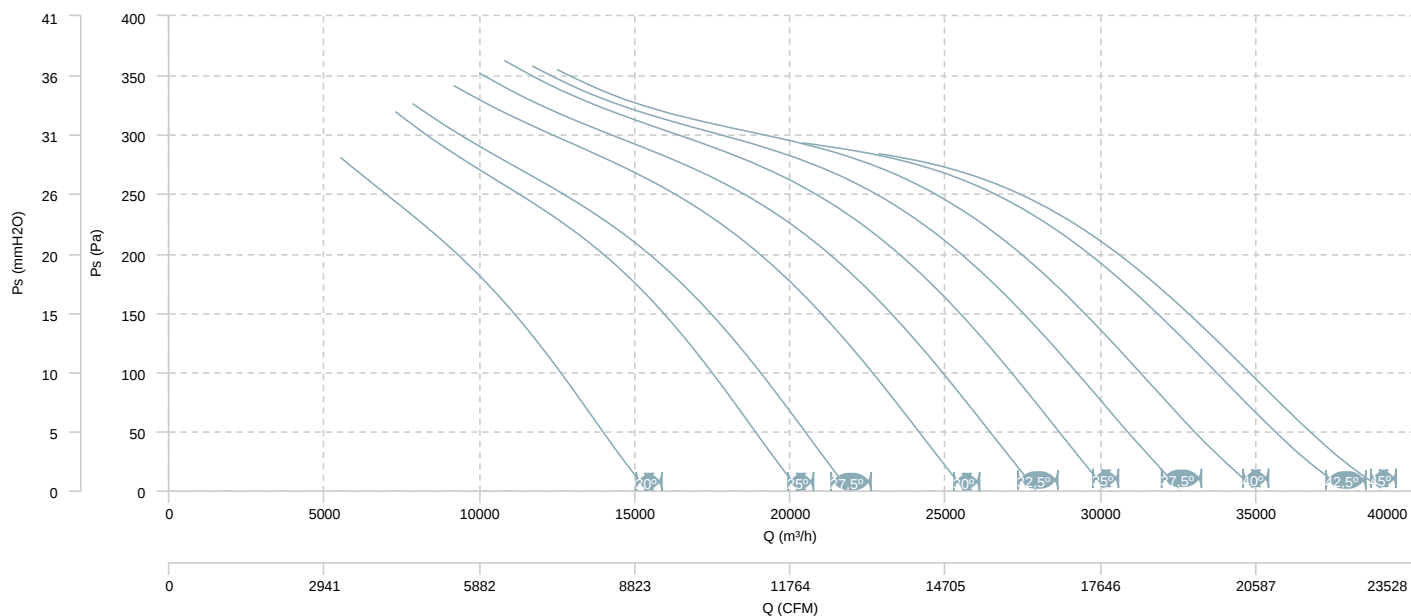


AIR FLOW - MECHANICAL POWER

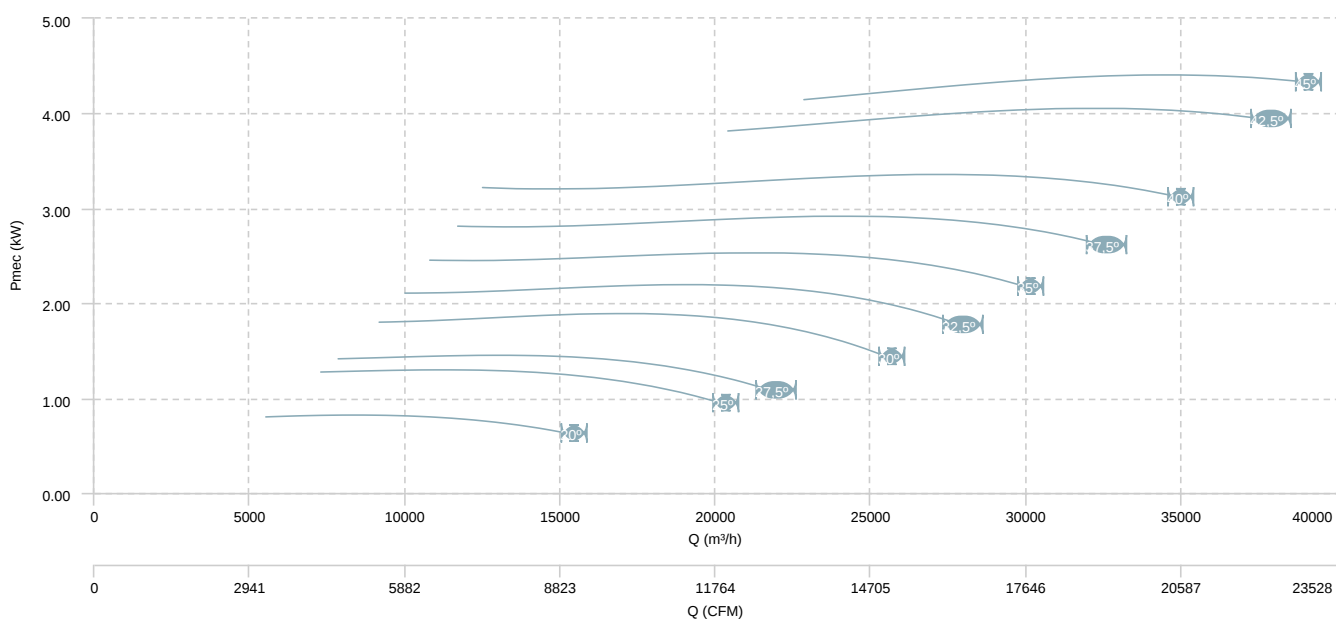


HMA 80 T4/T8 (A2:6)

AIR FLOW - PRESSURE (4 poles)

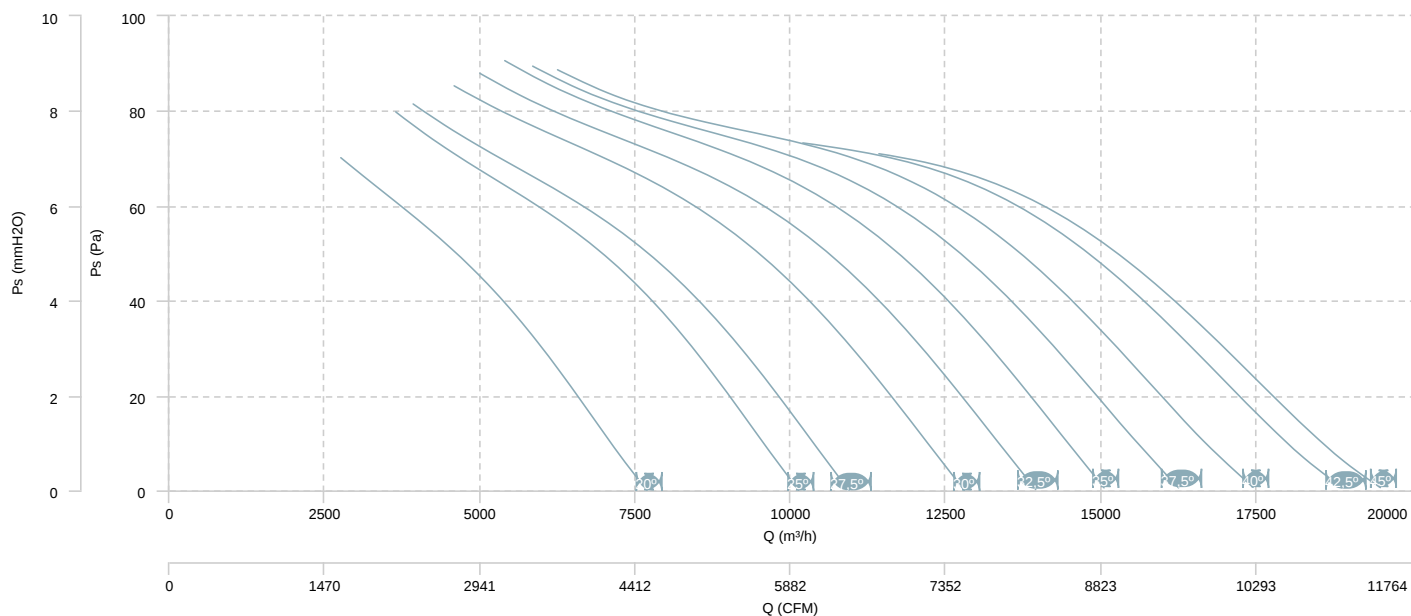


AIR FLOW - MECHANICAL POWER (4 poles)

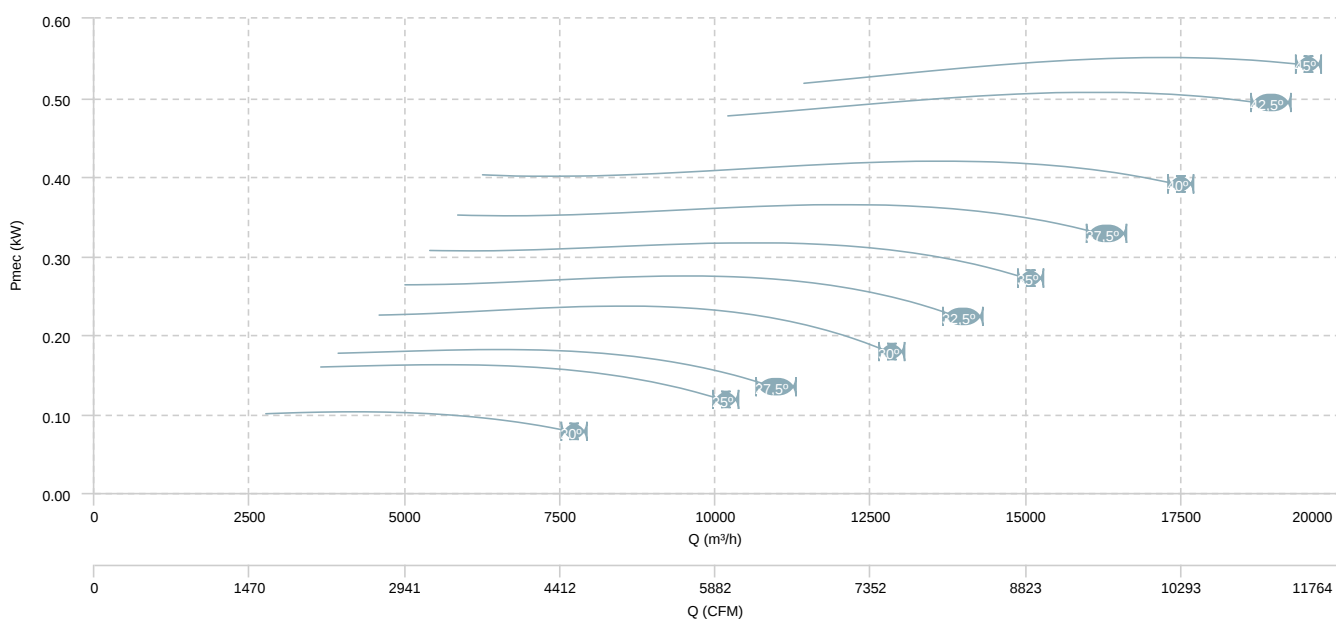


HMA 80 T4/T8 (A2:6)

AIR FLOW - PRESSURE (8 poles)

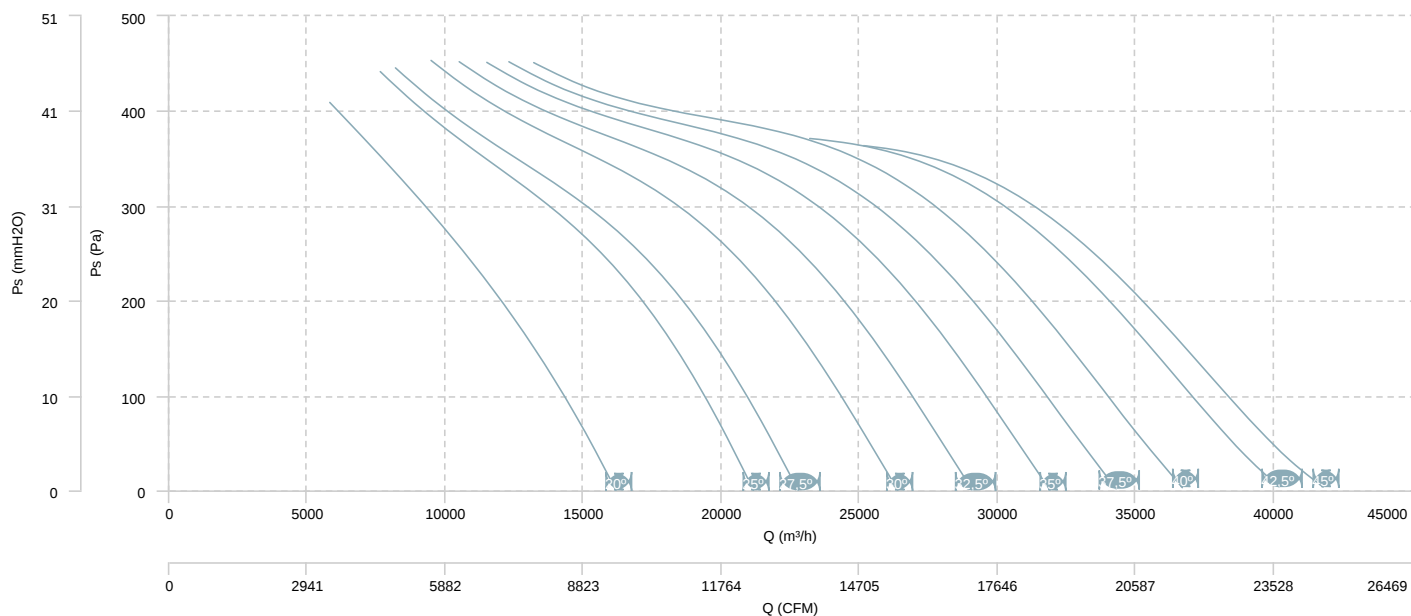


AIR FLOW - MECHANICAL POWER (8 poles)

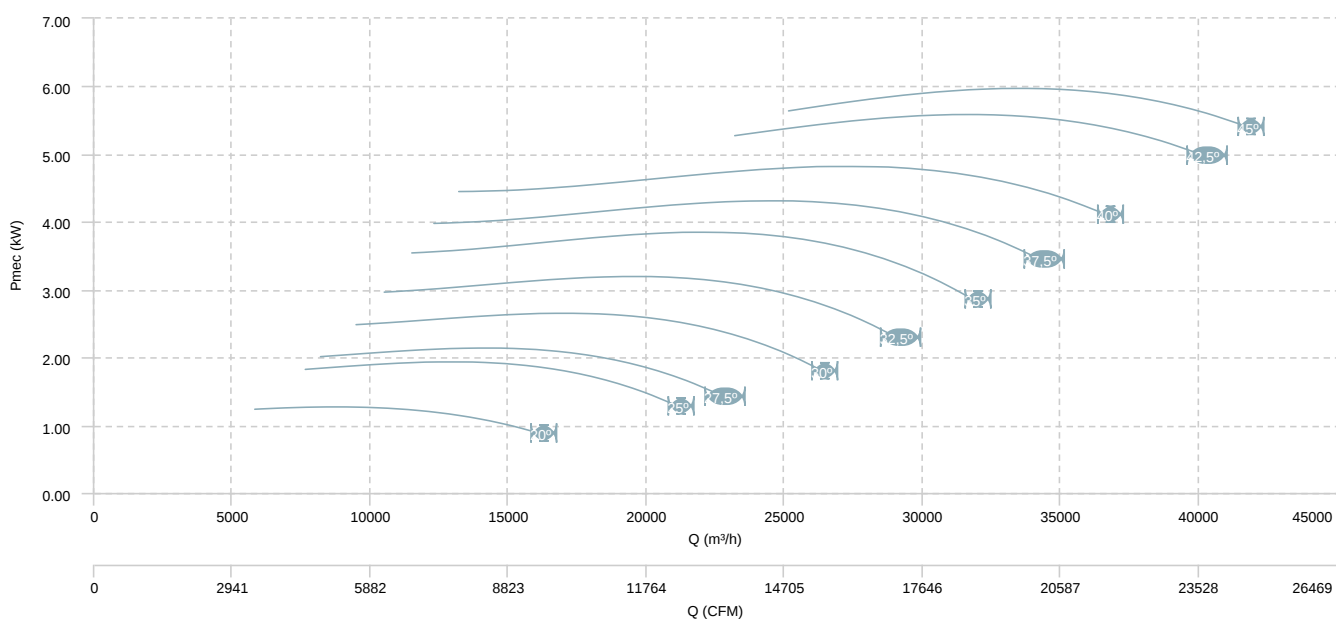


HMA 80 T4/T8 (A2:9)

AIR FLOW - PRESSURE (4 poles)

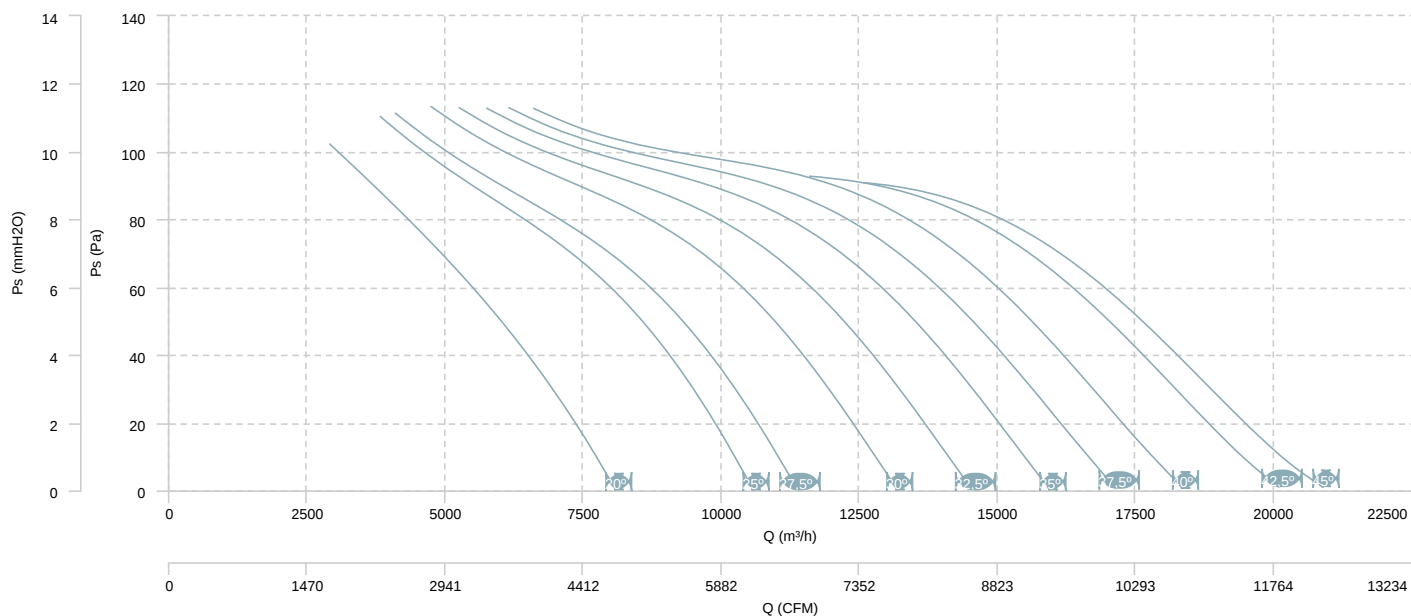


AIR FLOW - MECHANICAL POWER (4 poles)

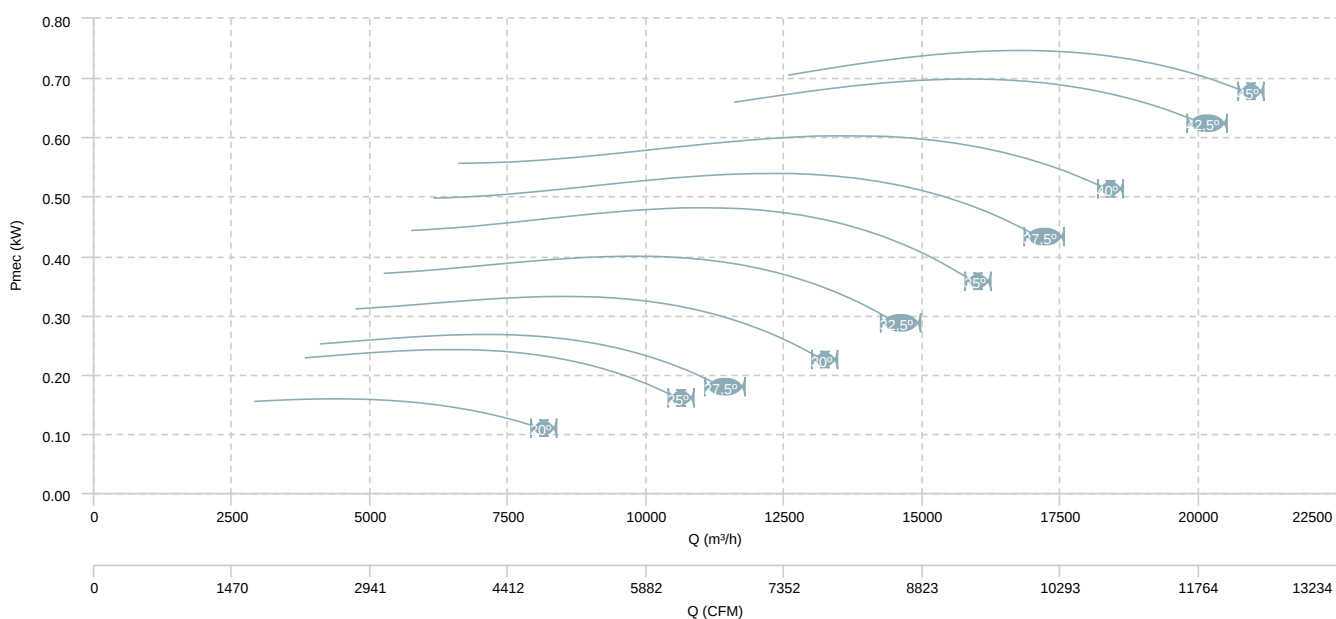


HMA 80 T4/T8 (A2:9)

AIR FLOW - PRESSURE (8 poles)

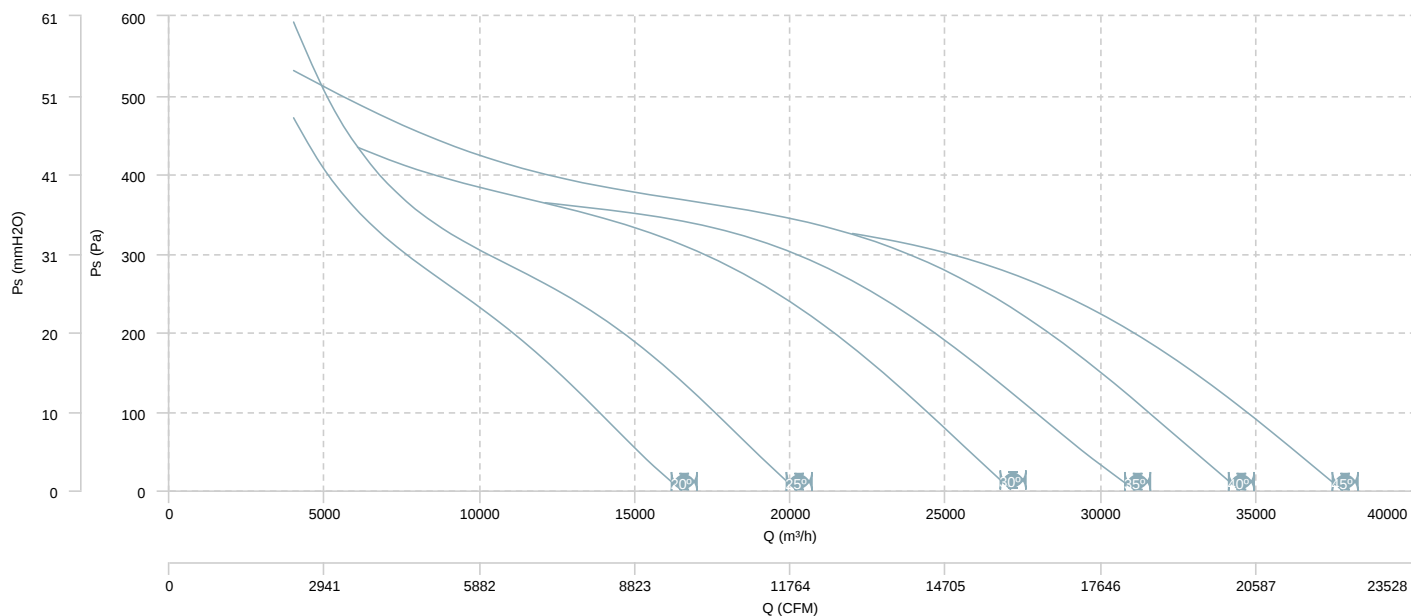


AIR FLOW - MECHANICAL POWER (8 poles)

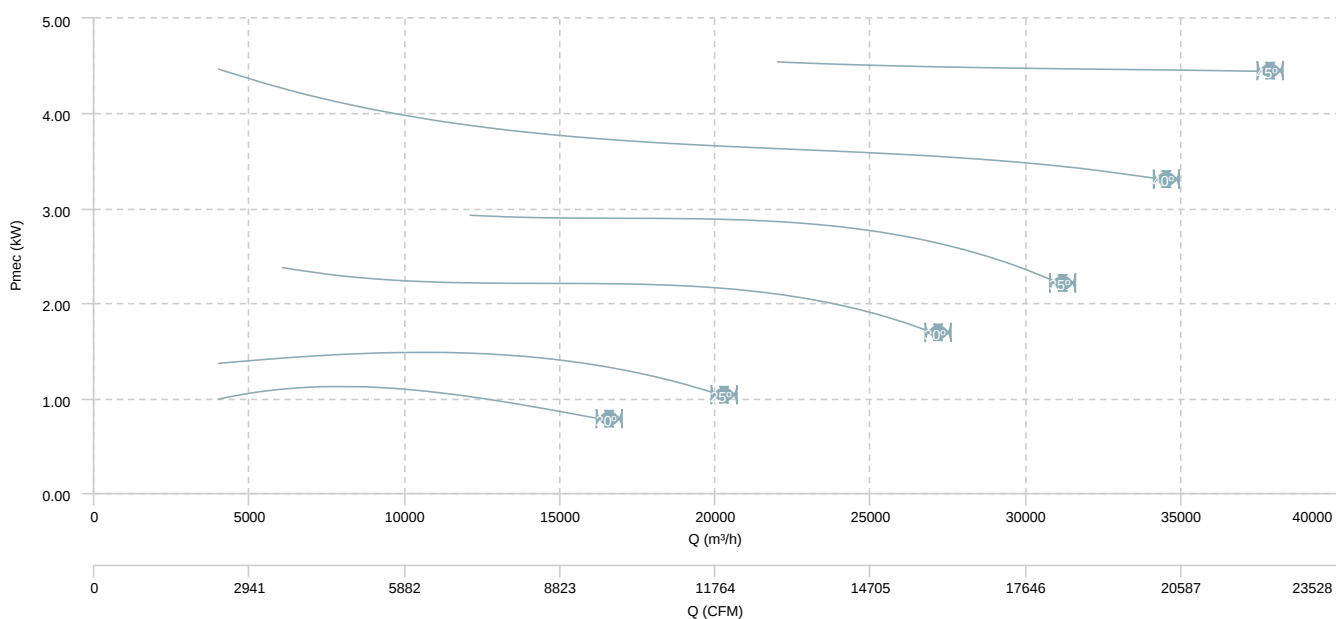


HMA 80 T4/T8 (A5:6)

AIR FLOW - PRESSURE (4 poles)

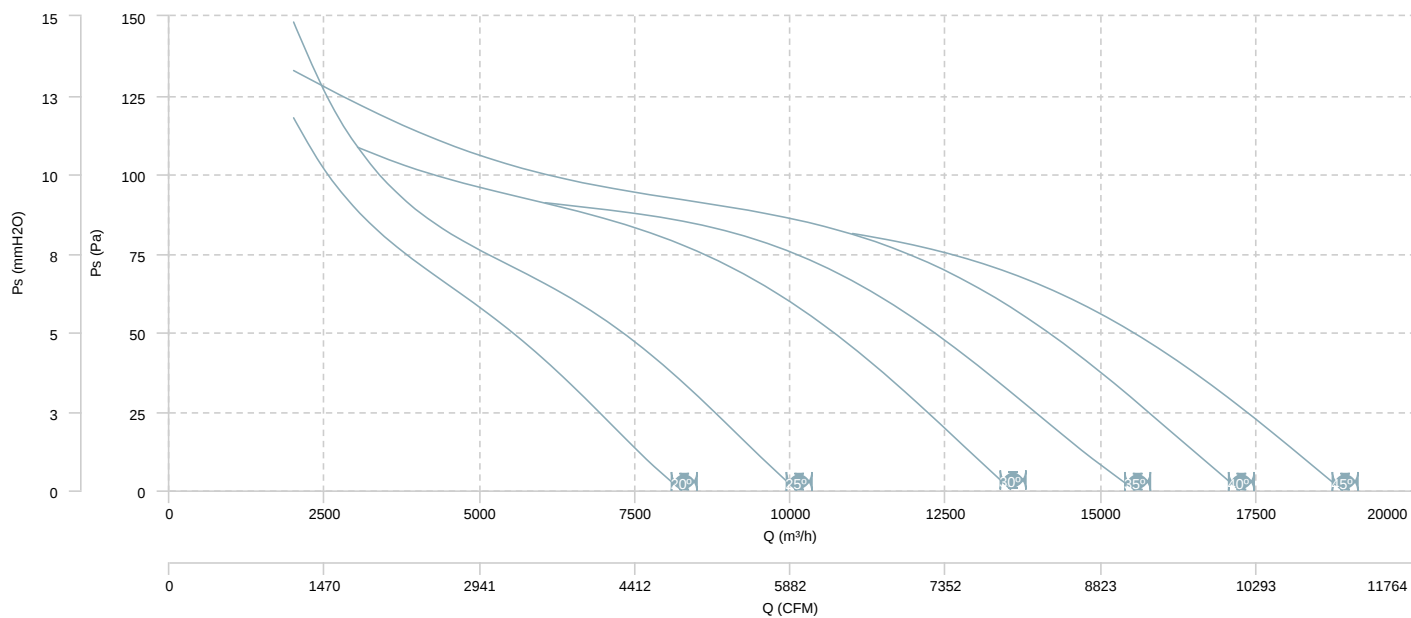


AIR FLOW - MECHANICAL POWER (4 poles)

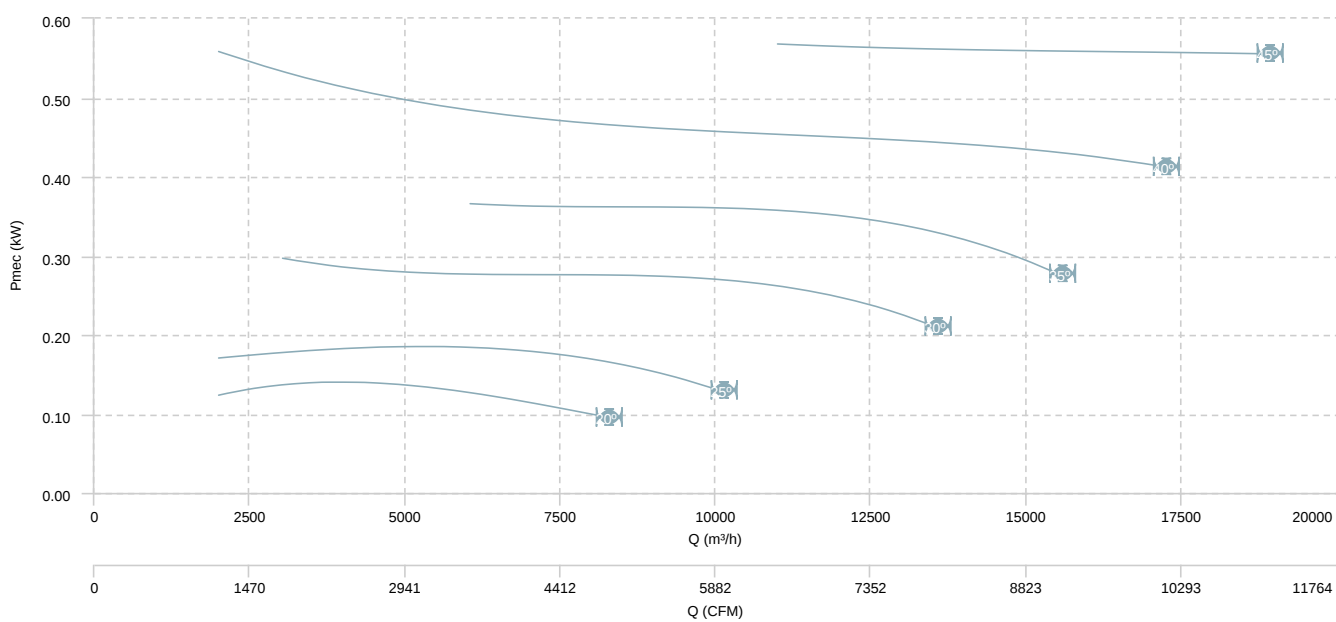


HMA 80 T4/T8 (A5:6)

AIR FLOW - PRESSURE (8 poles)

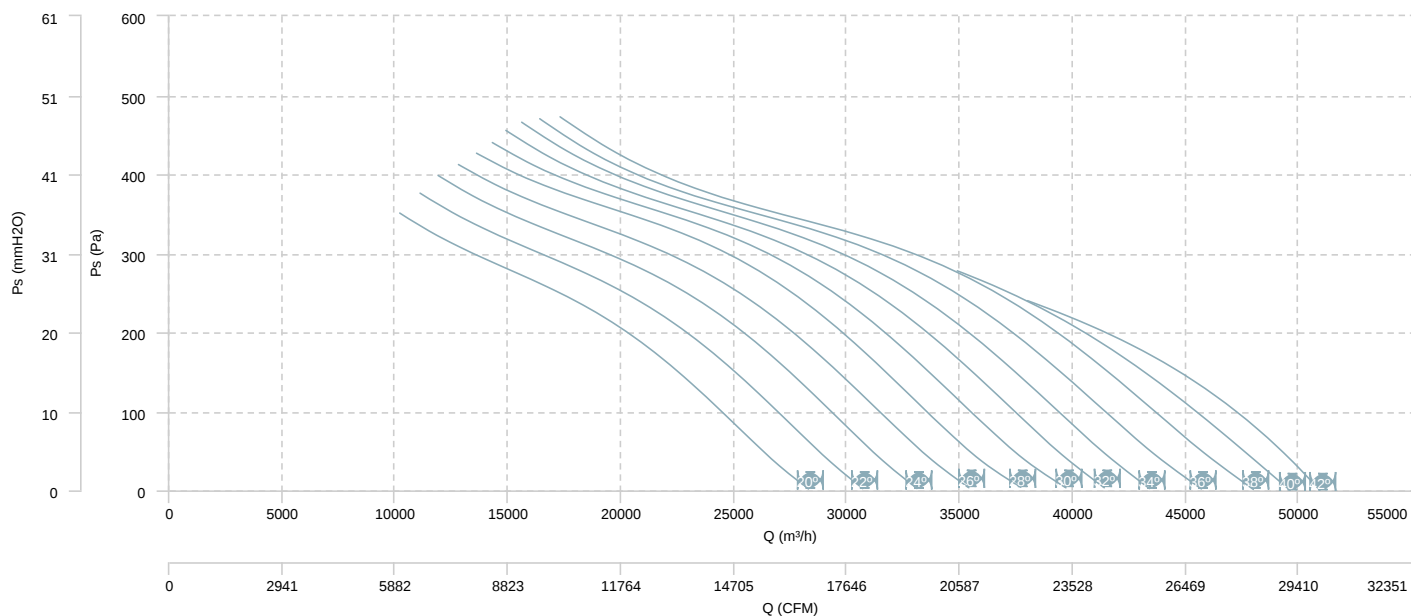


AIR FLOW - MECHANICAL POWER (8 poles)

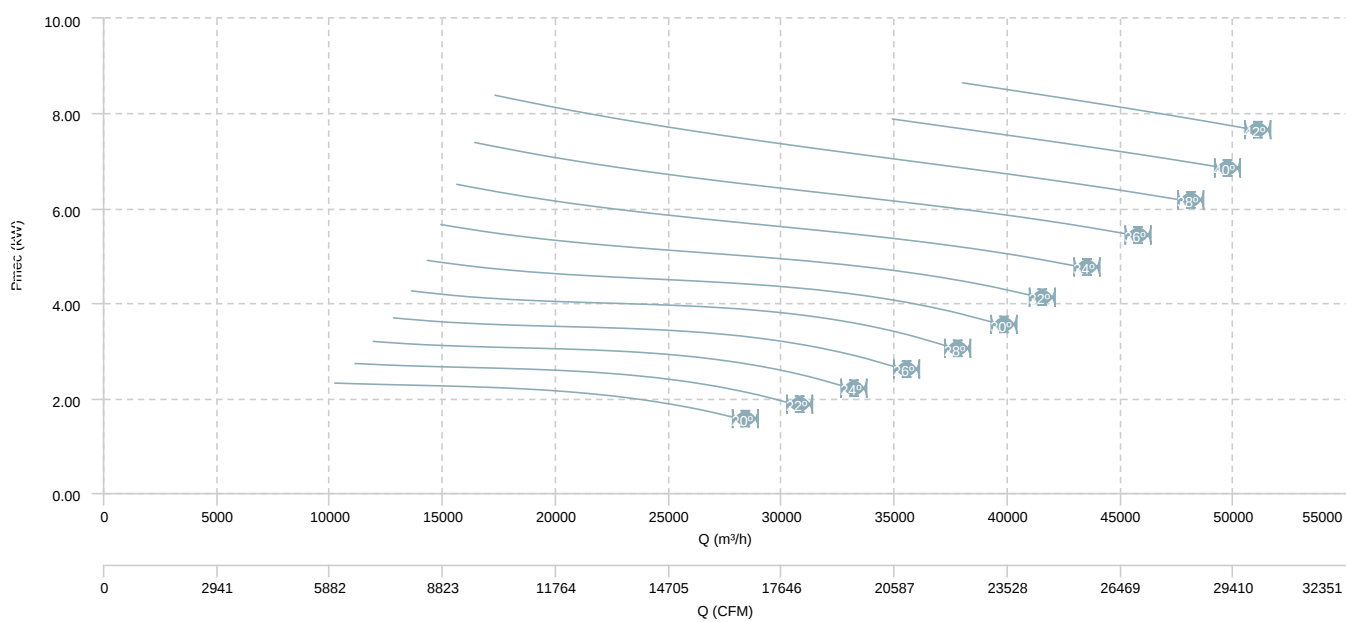


HMA 90 T4 (A6:3)

AIR FLOW - PRESSURE

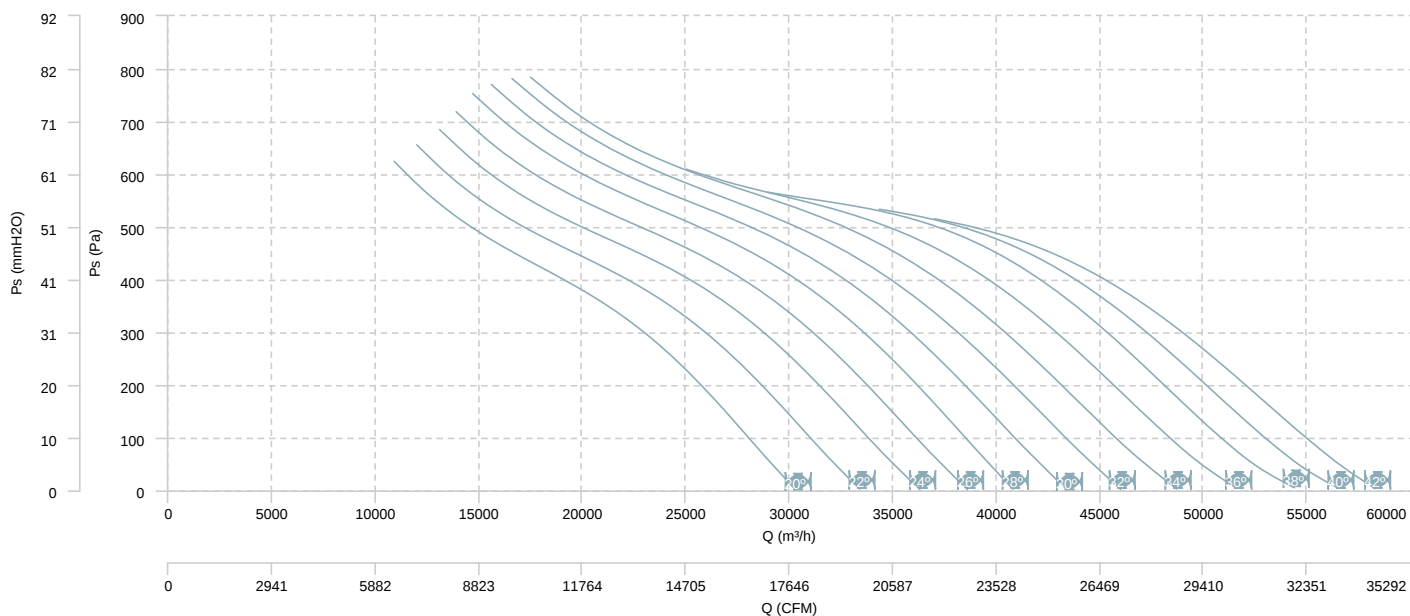


AIR FLOW - MECHANICAL POWER

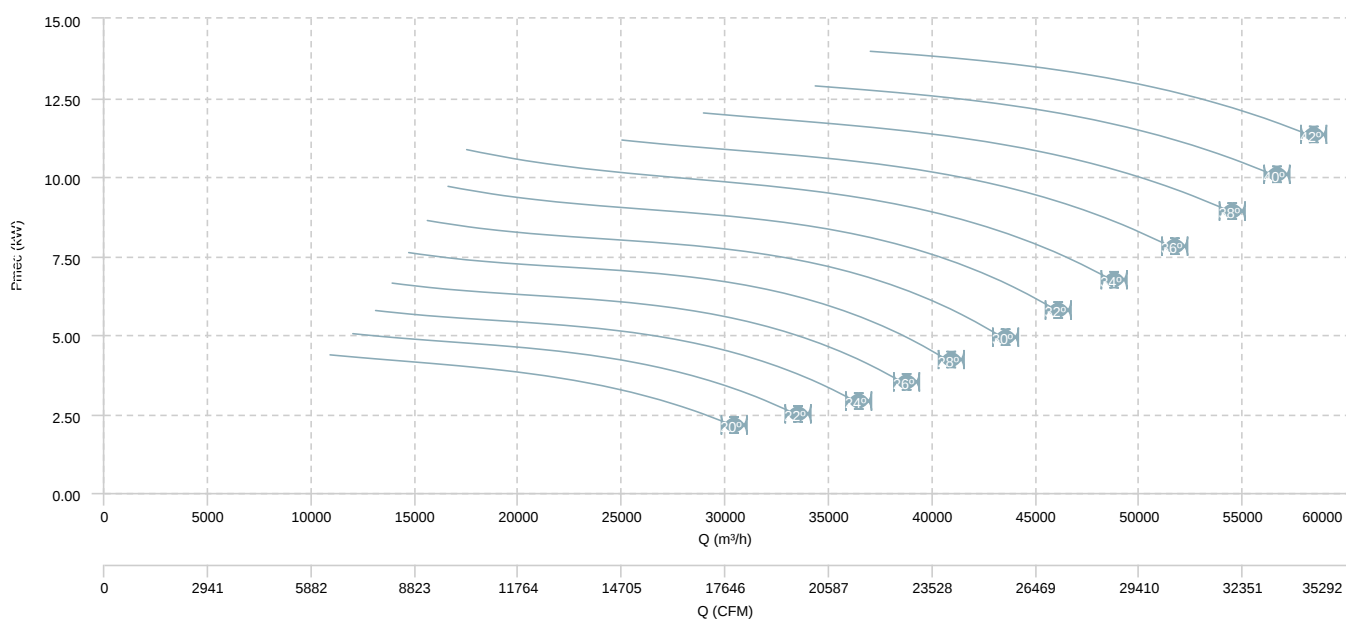


HMA 90 T4 (A6:6)

AIR FLOW - PRESSURE

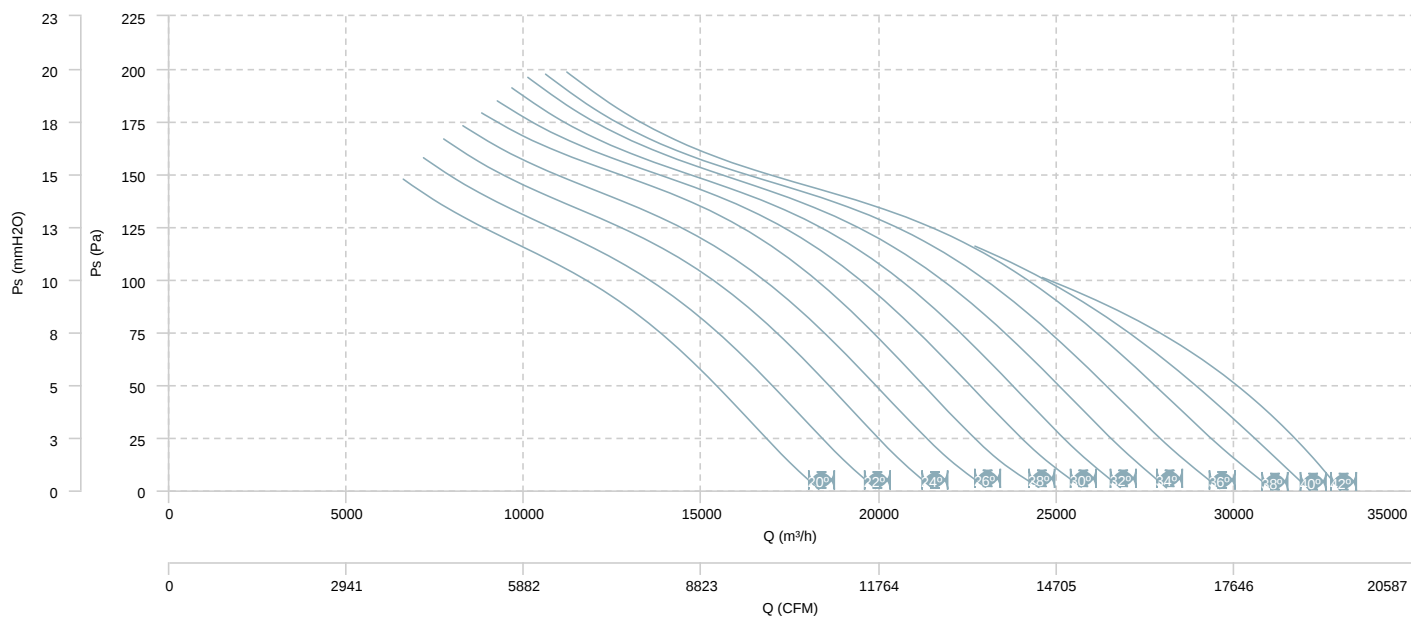


AIR FLOW - MECHANICAL POWER

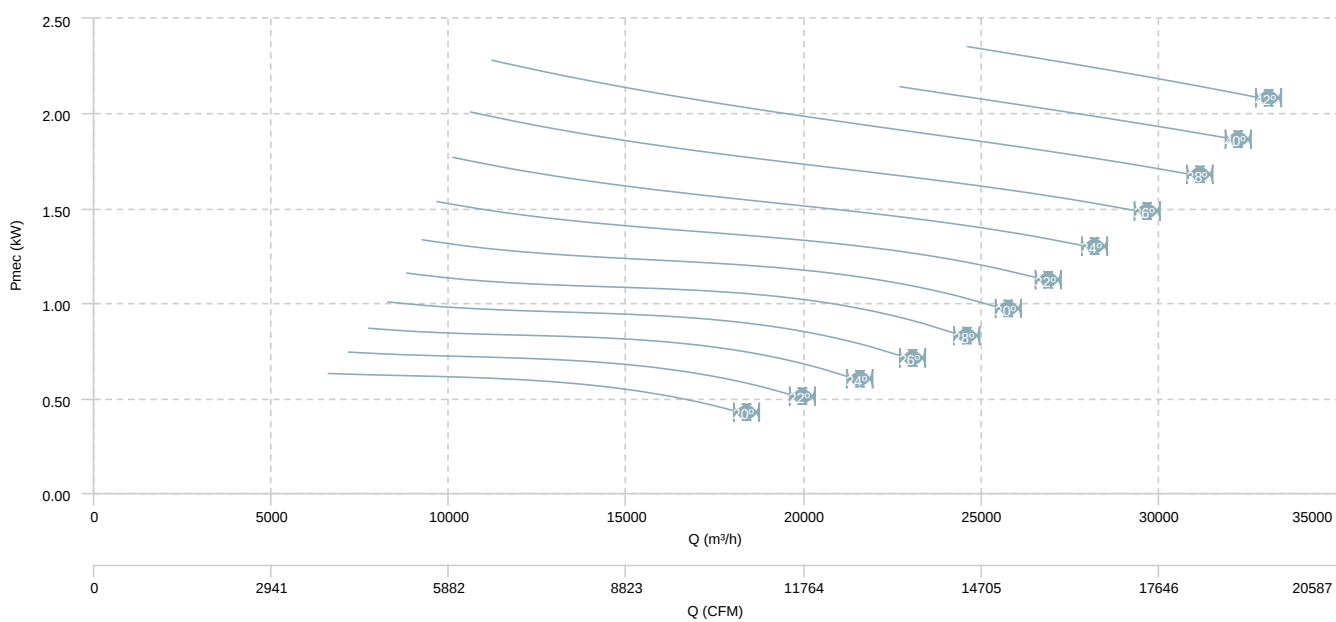


HMA 90 T6 (A6:3)

AIR FLOW - PRESSURE

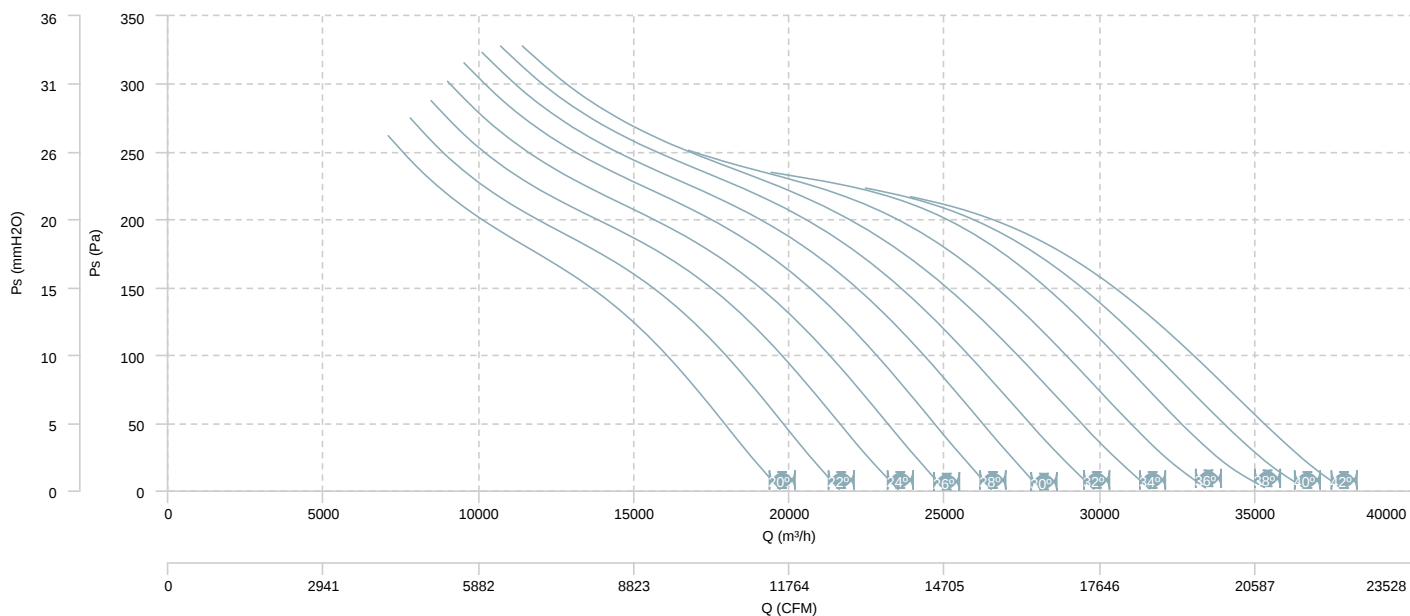


AIR FLOW - MECHANICAL POWER

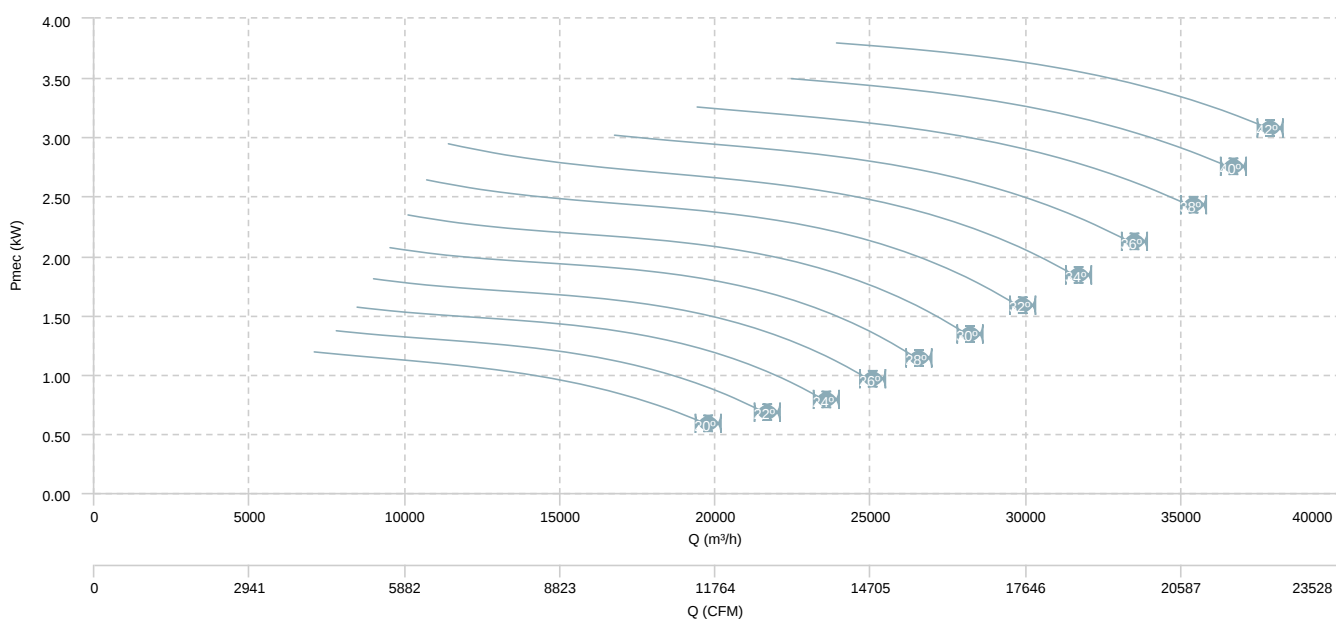


HMA 90 T6 (A6:6)

AIR FLOW - PRESSURE

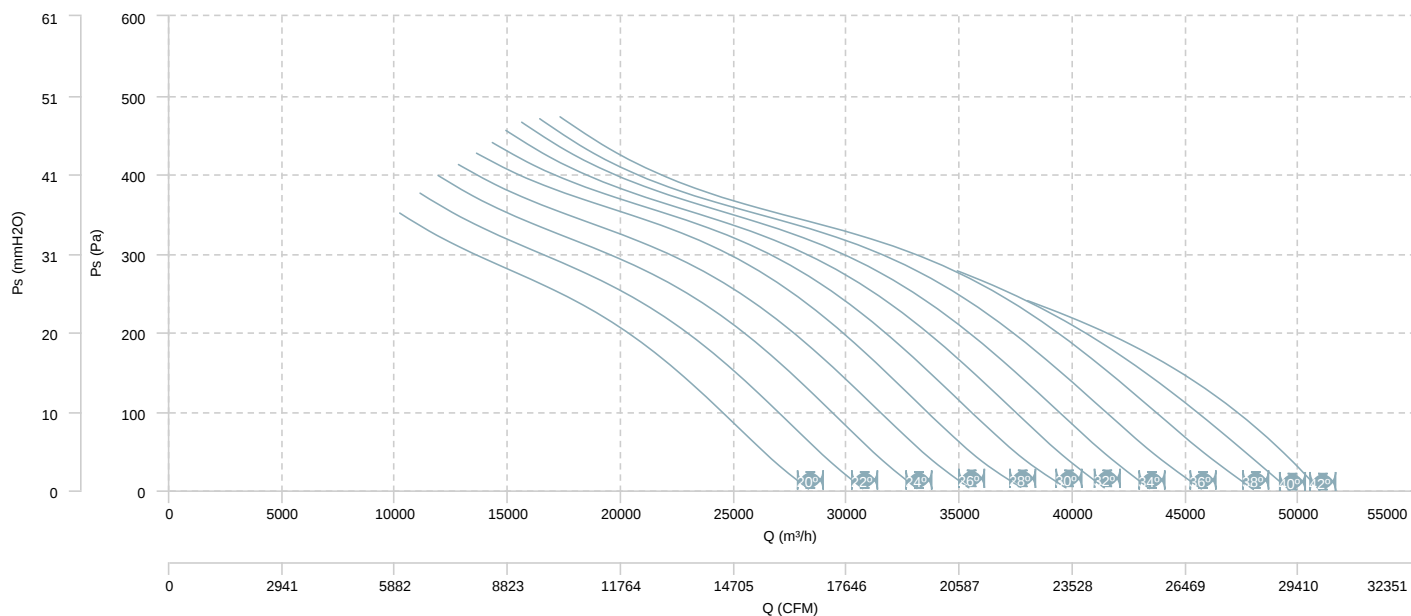


AIR FLOW - MECHANICAL POWER

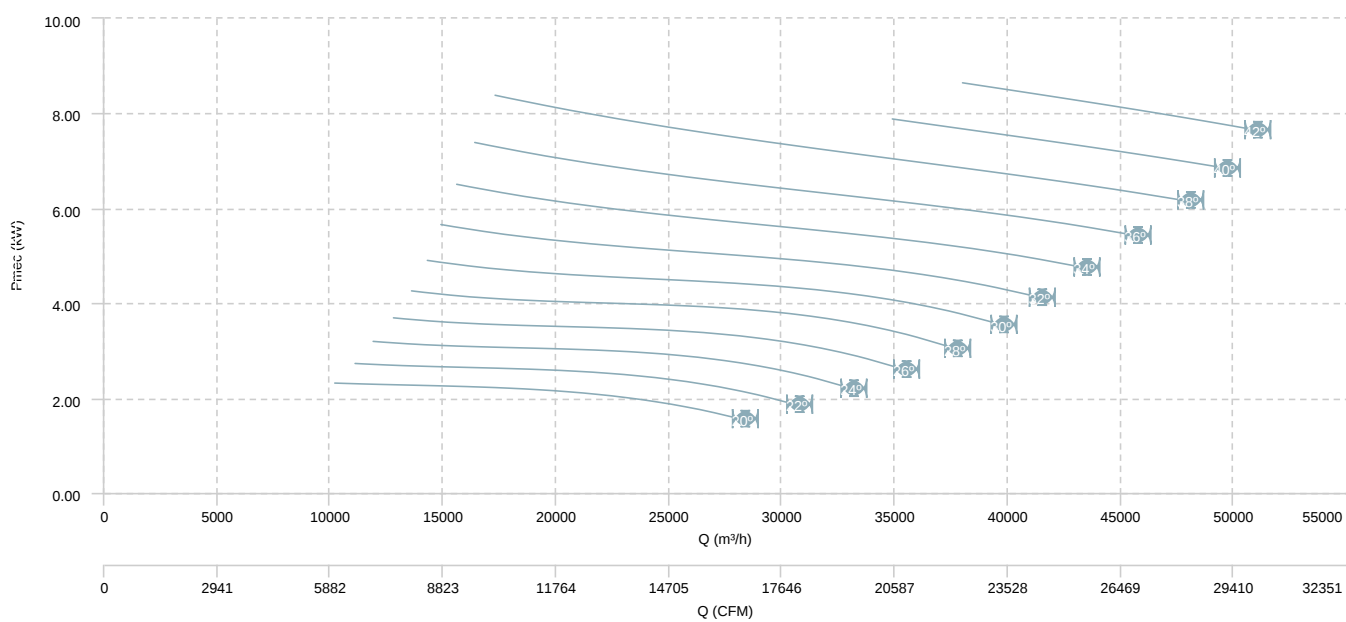


HMA 90 T4/T8 (A6:3)

AIR FLOW - PRESSURE (4 poles)

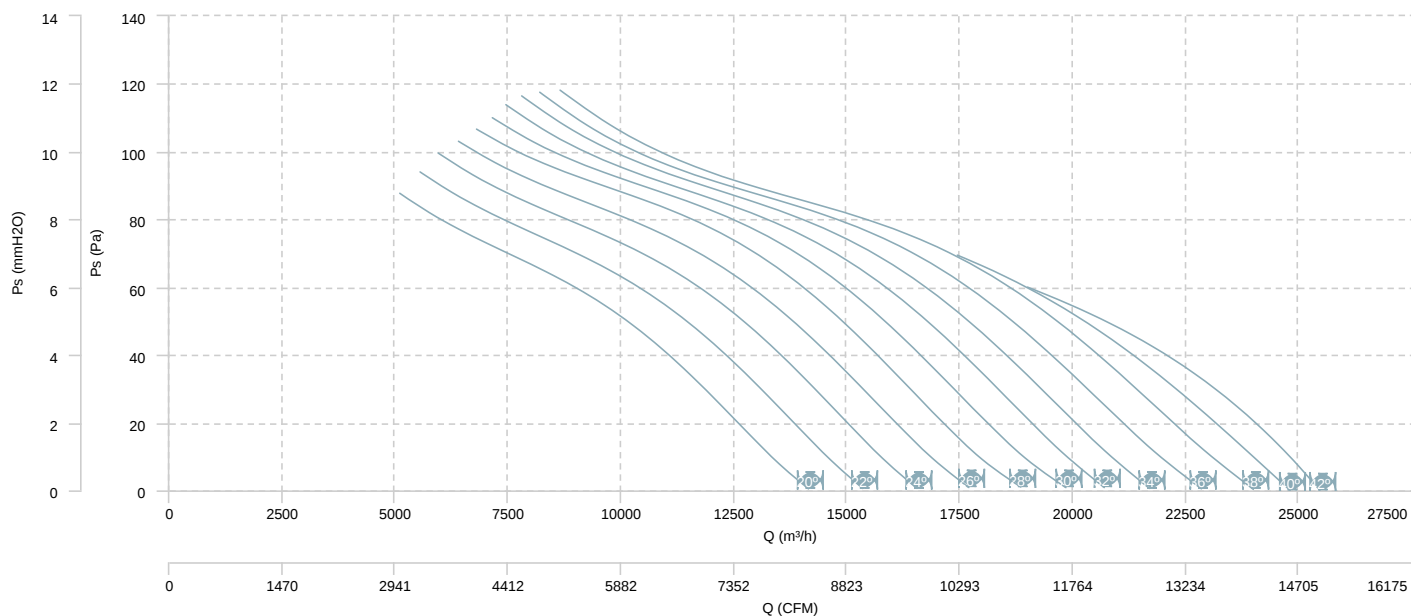


AIR FLOW - MECHANICAL POWER (4 poles)

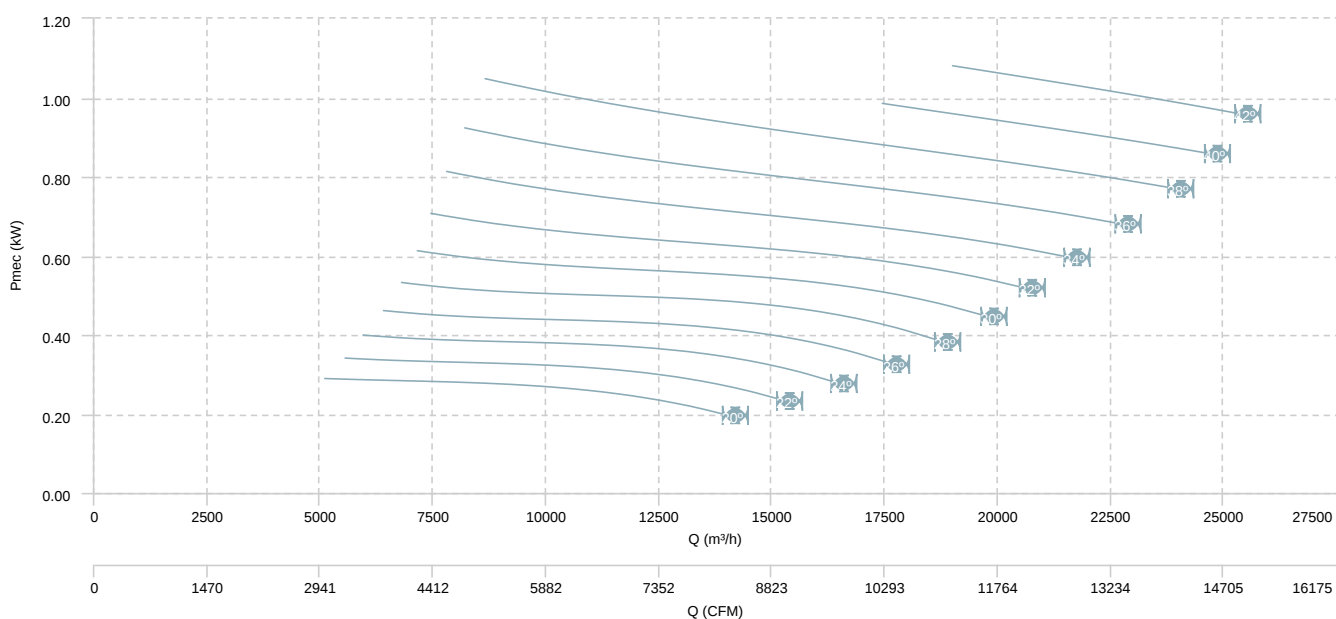


HMA 90 T4/T8 (A6:3)

AIR FLOW - PRESSURE (8 poles)

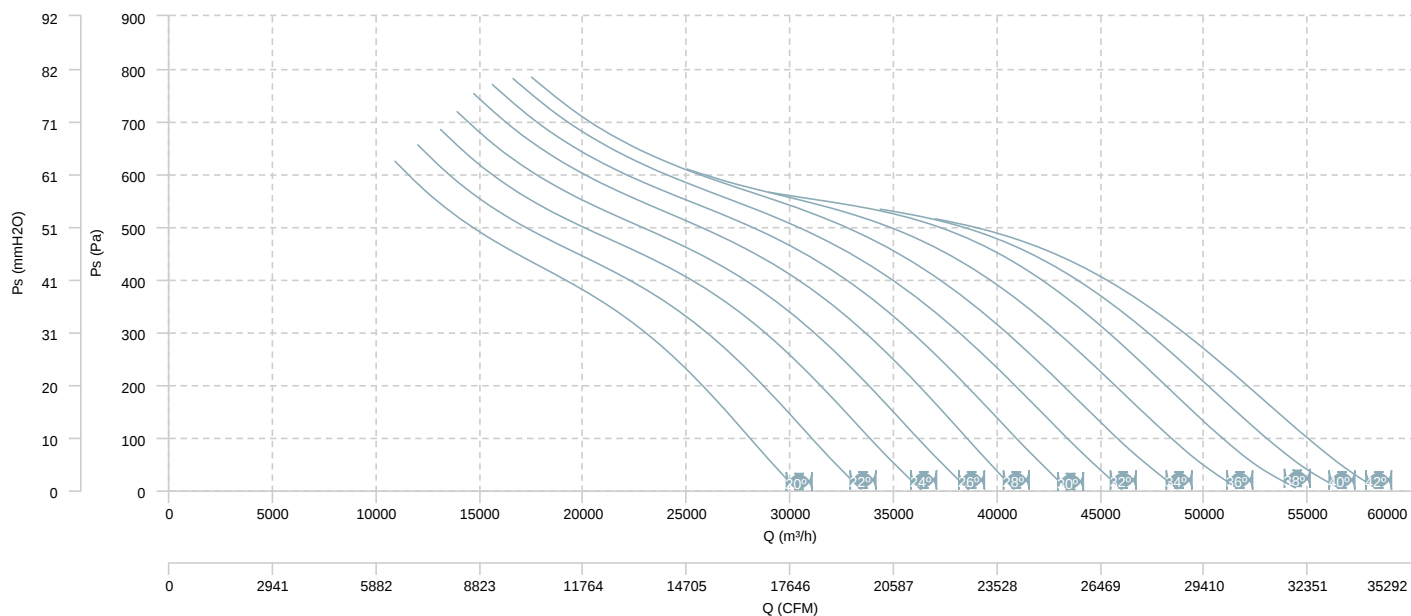


AIR FLOW - MECHANICAL POWER (8 poles)

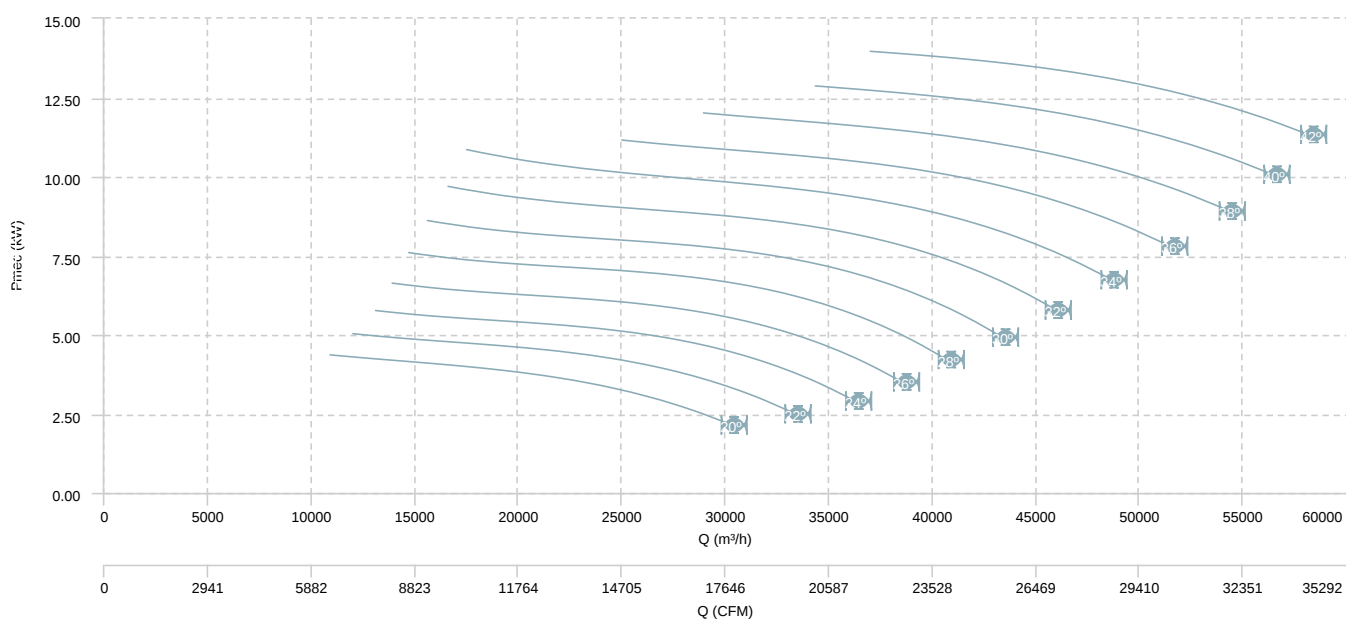


HMA 90 T4/T8 (A6:6)

AIR FLOW - PRESSURE (4 poles)

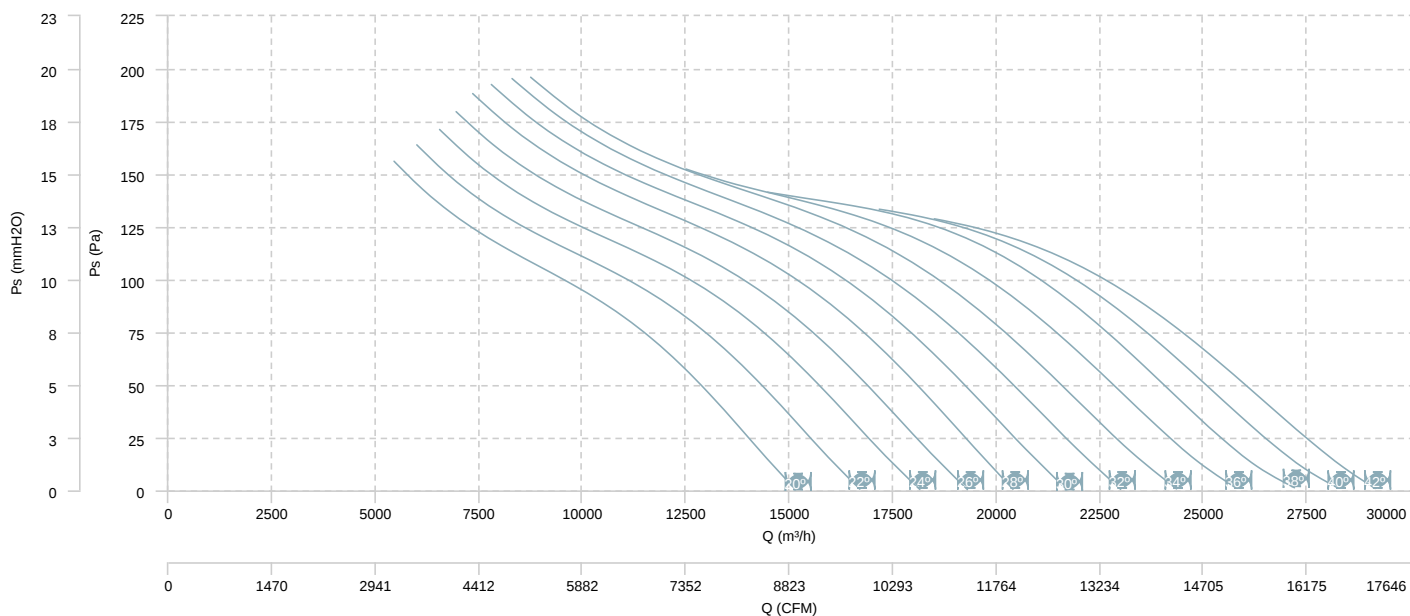


AIR FLOW - MECHANICAL POWER (4 poles)

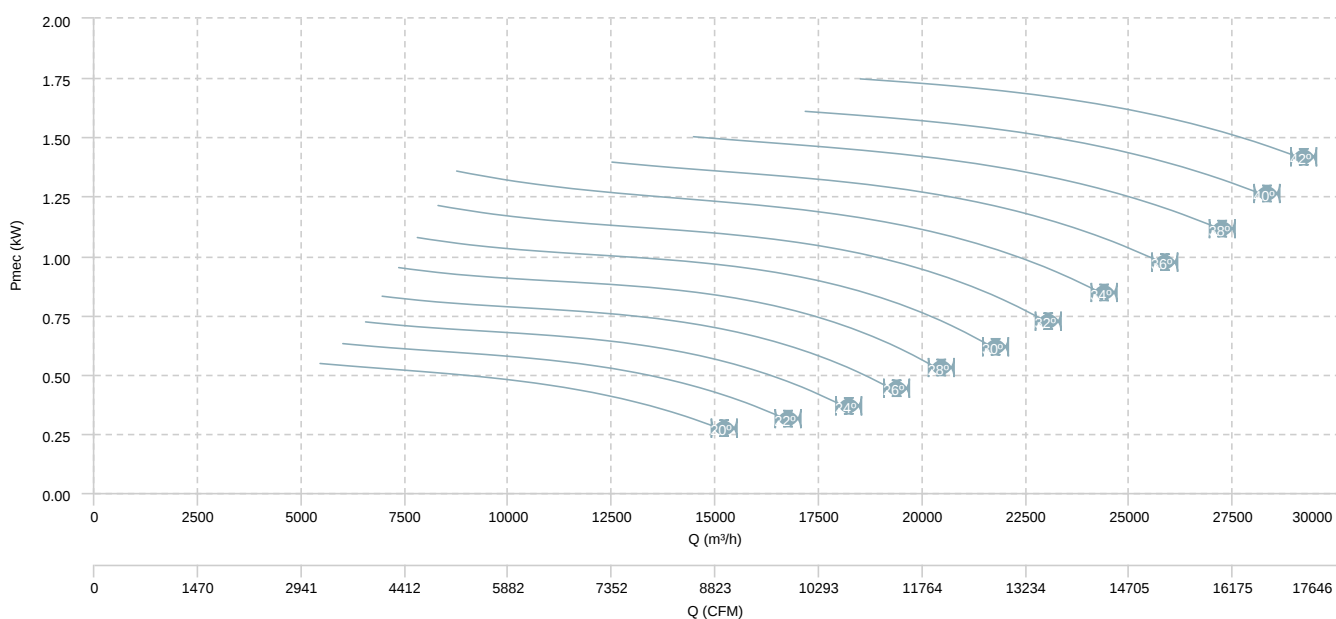


HMA 90 T4/T8 (A6:6)

AIR FLOW - PRESSURE (8 poles)

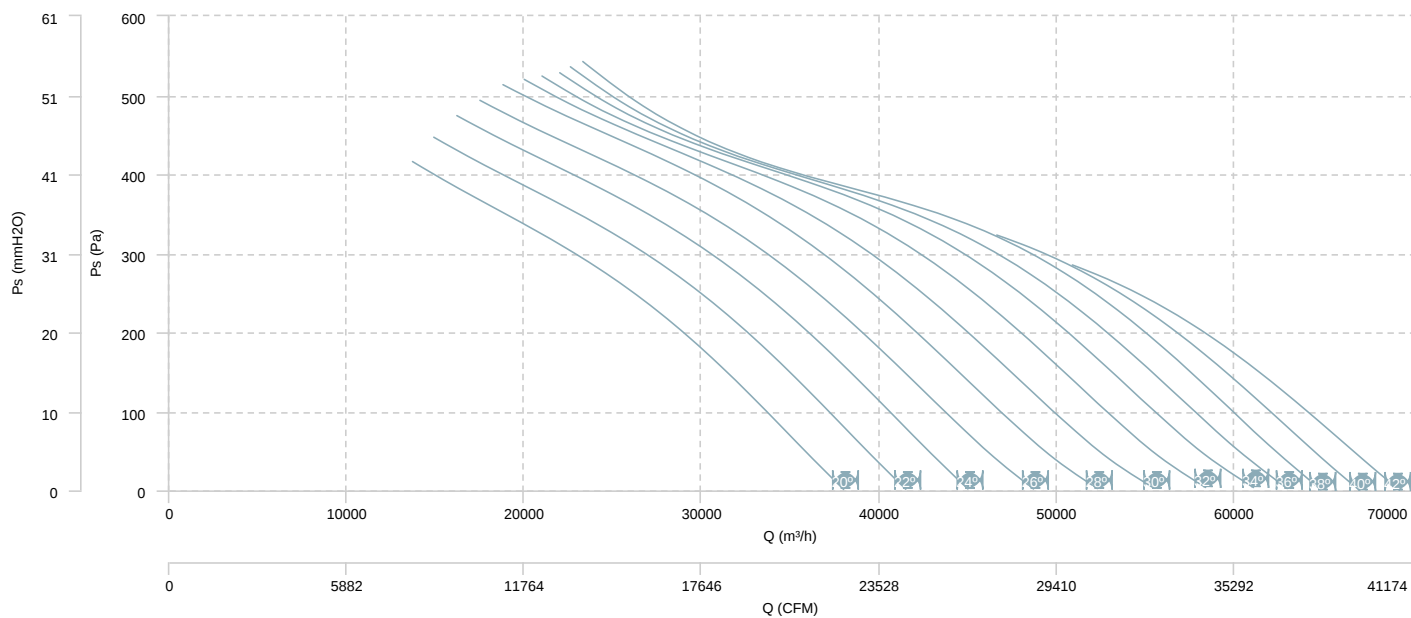


AIR FLOW - MECHANICAL POWER (8 poles)

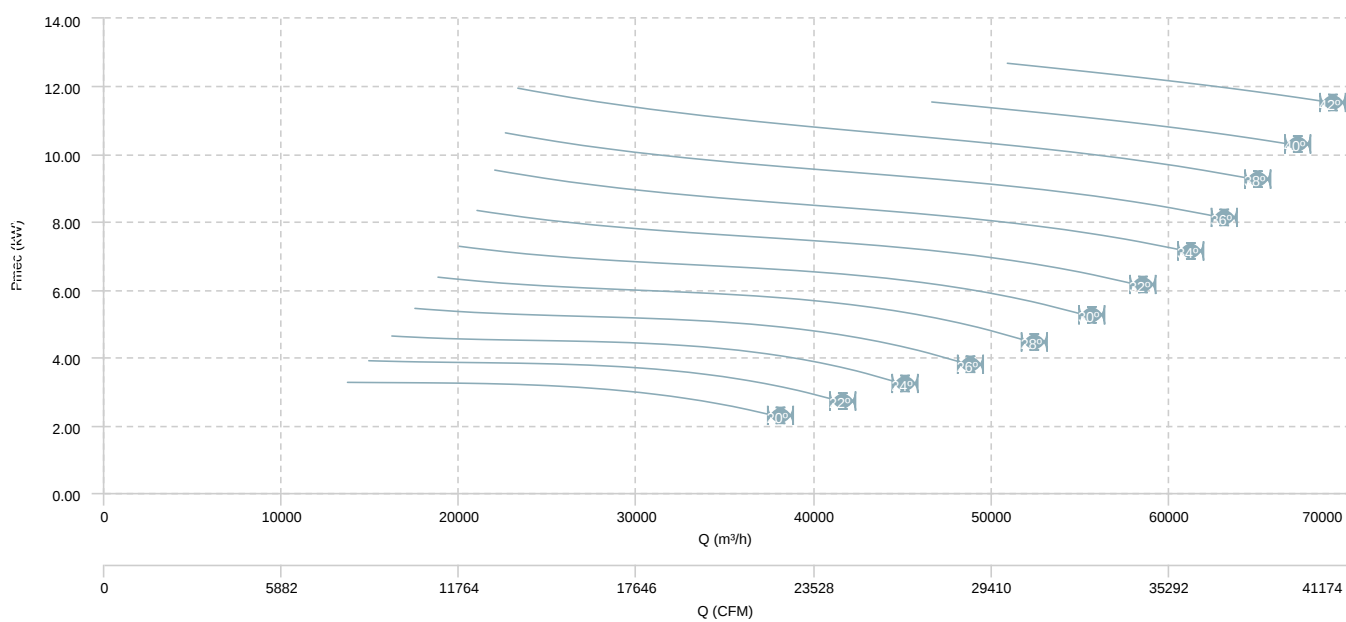


HMA 100 T4 (A6:3)

AIR FLOW - PRESSURE

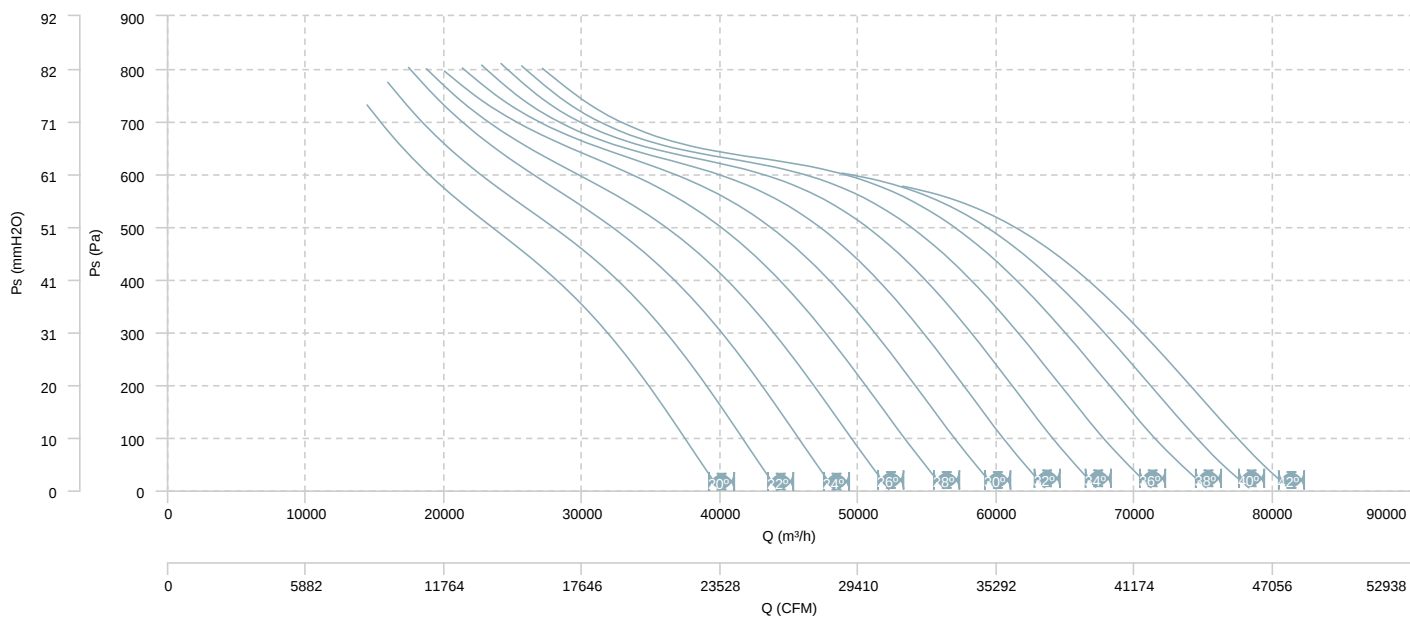


AIR FLOW - MECHANICAL POWER

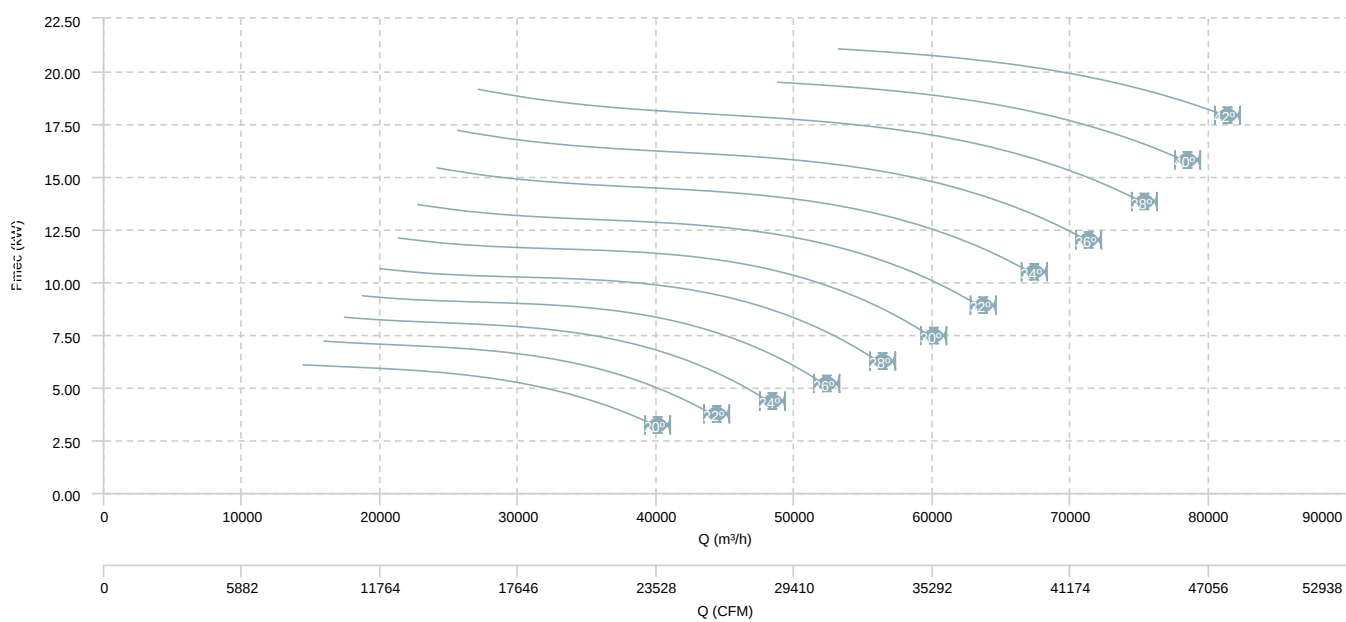


HMA 100 T4 (A6:6)

AIR FLOW - PRESSURE

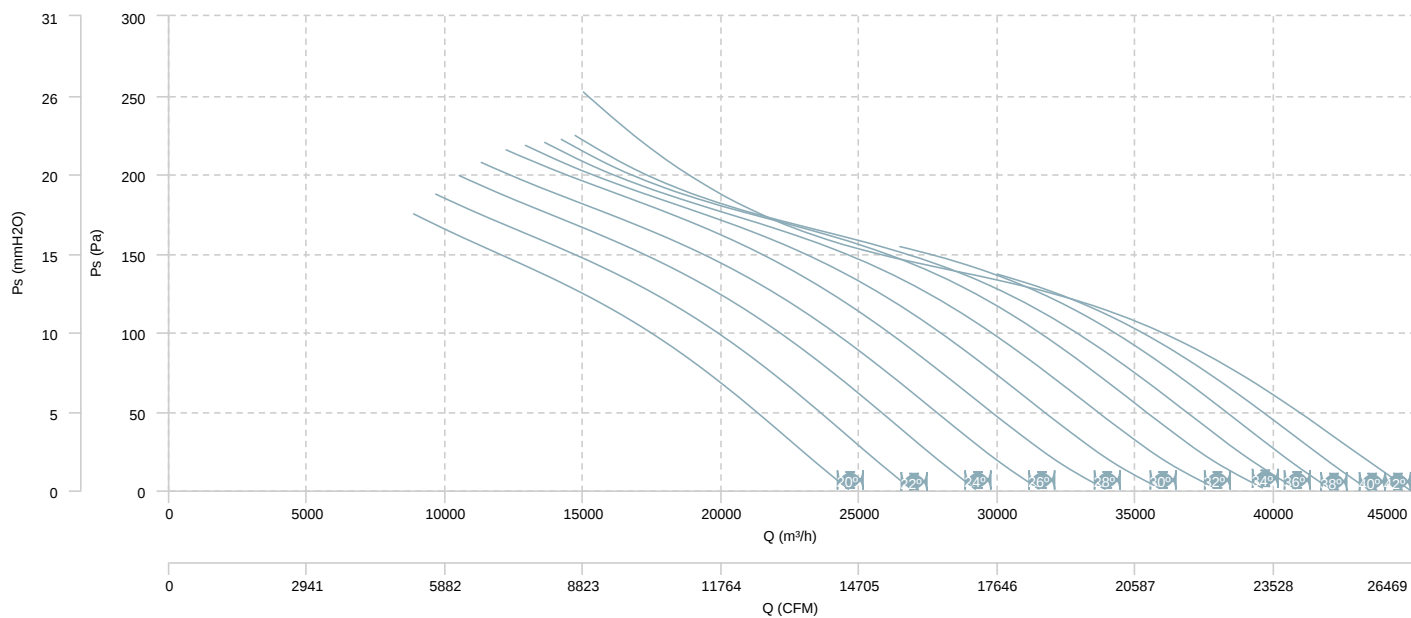


AIR FLOW - MECHANICAL POWER

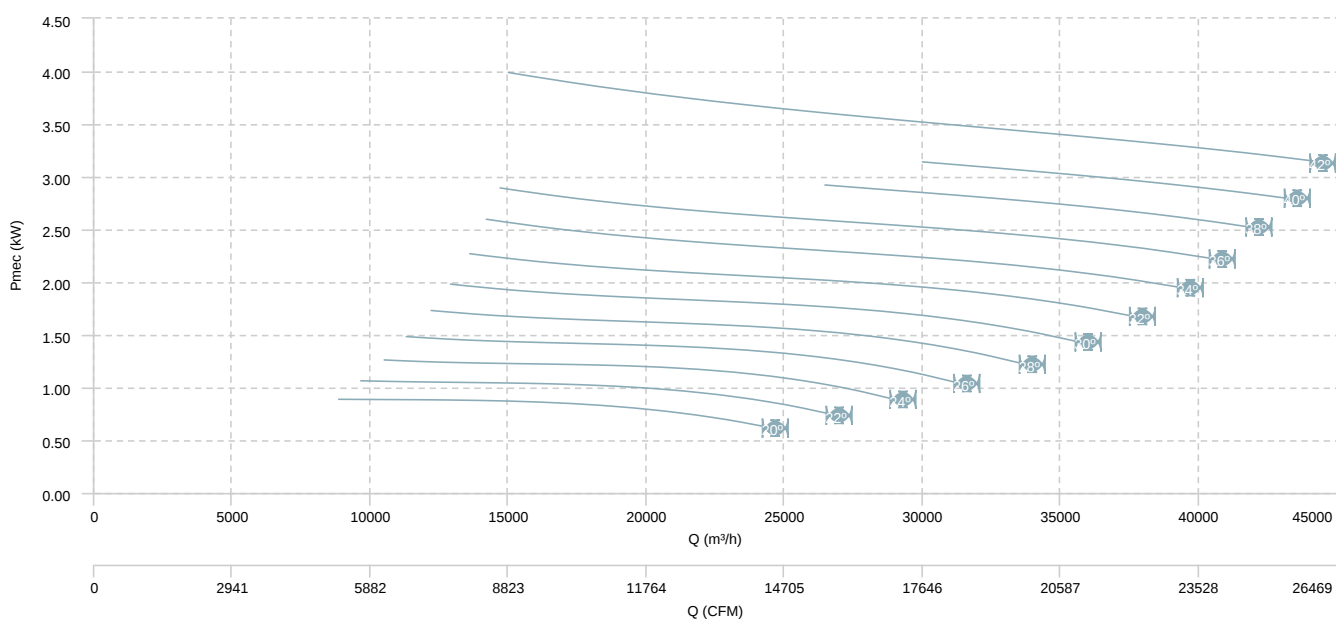


HMA 100 T6 (A6:3)

AIR FLOW - PRESSURE

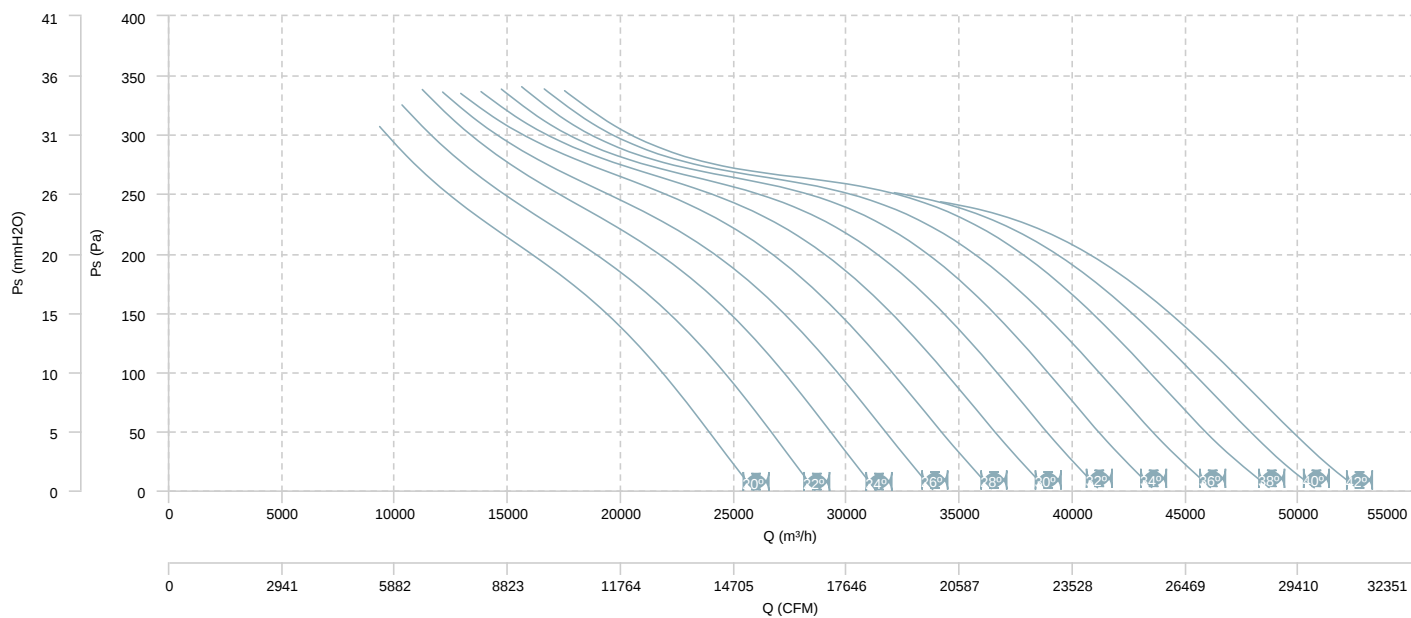


AIR FLOW - MECHANICAL POWER

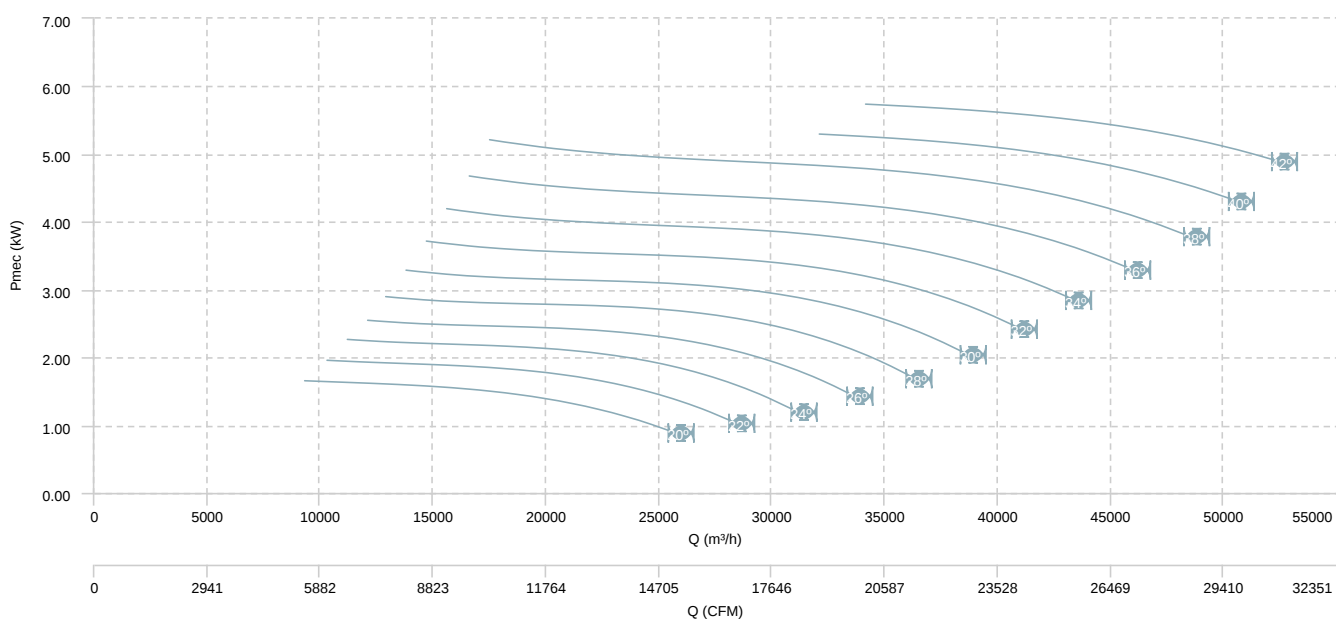


HMA 100 T6 (A6:6)

AIR FLOW - PRESSURE

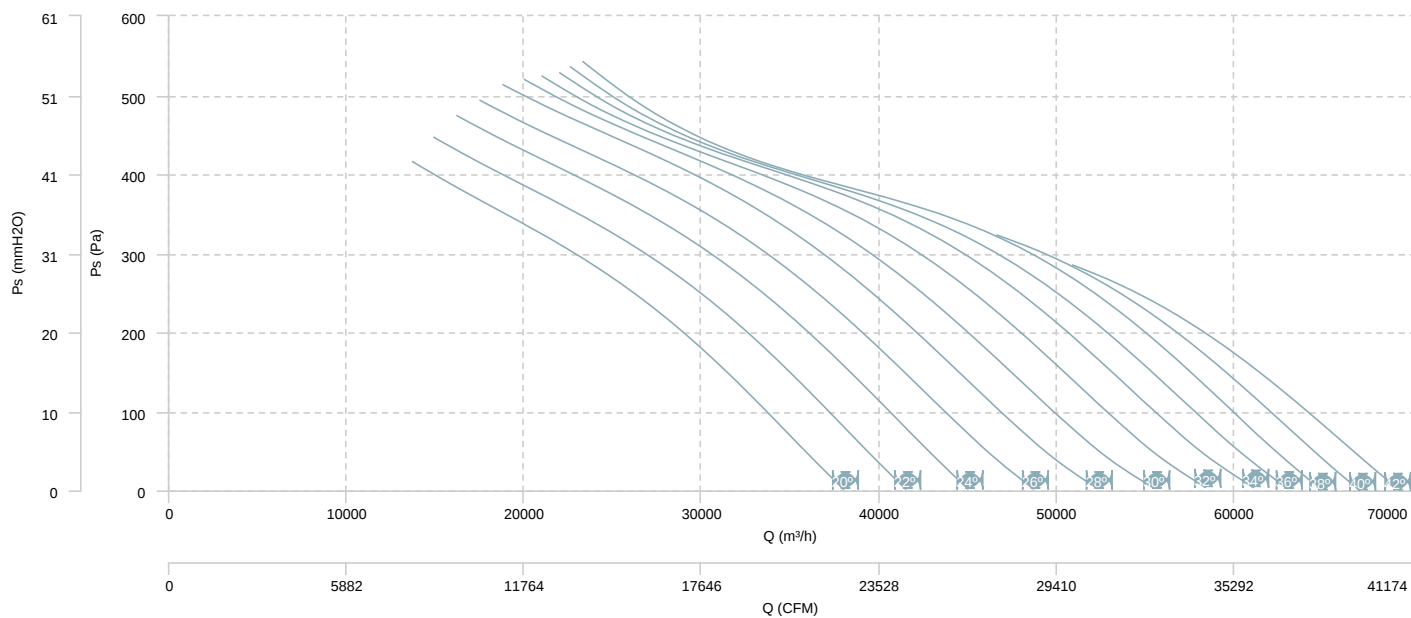


AIR FLOW - MECHANICAL POWER

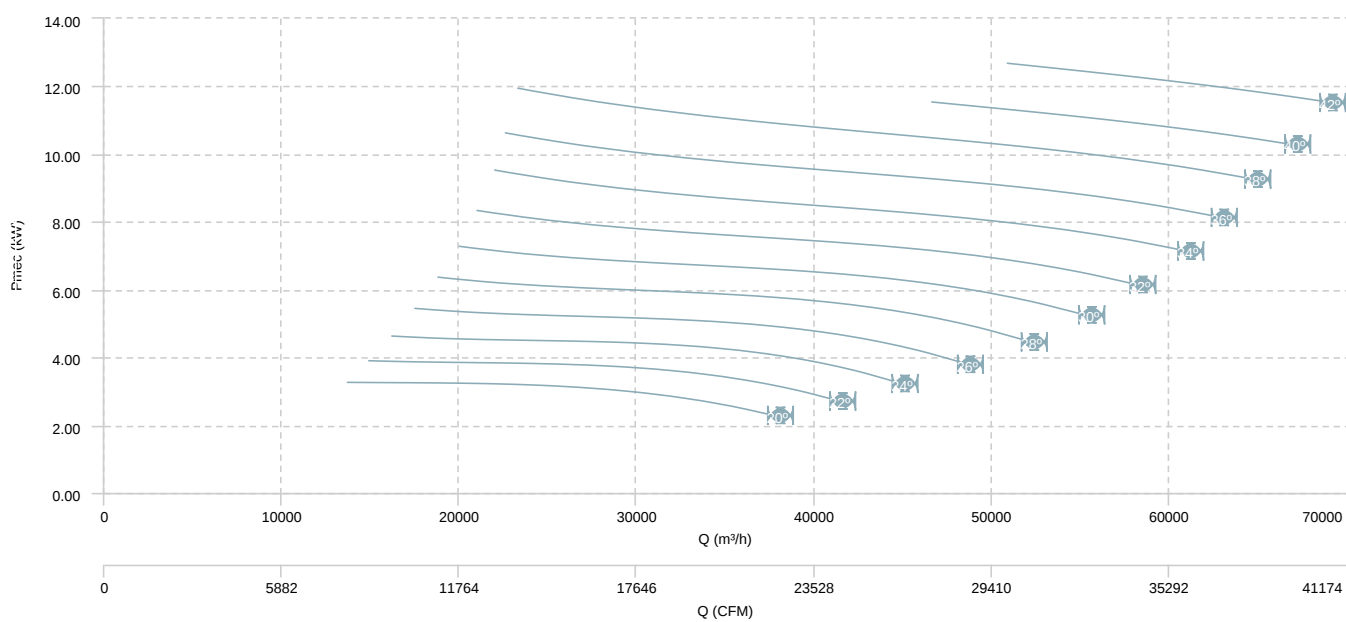


HMA 100 T4/T8 (A6:3)

AIR FLOW - PRESSURE (4 poles)

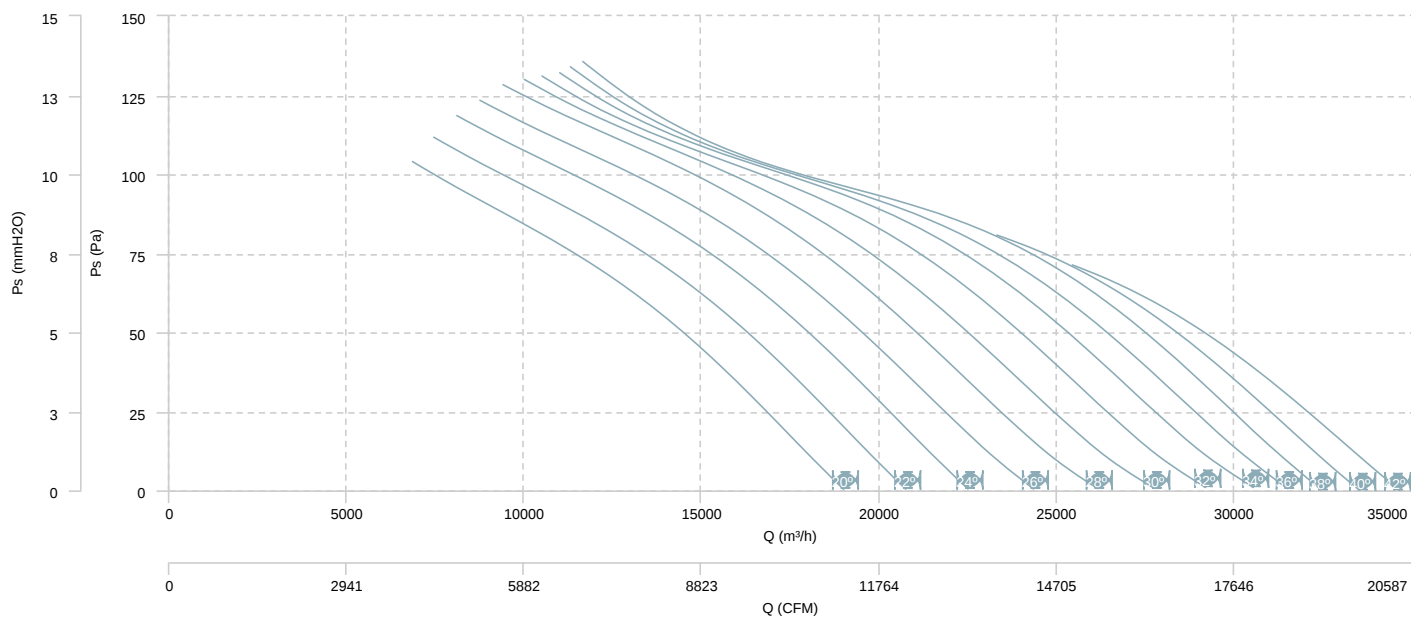


AIR FLOW - MECHANICAL POWER (4 poles)

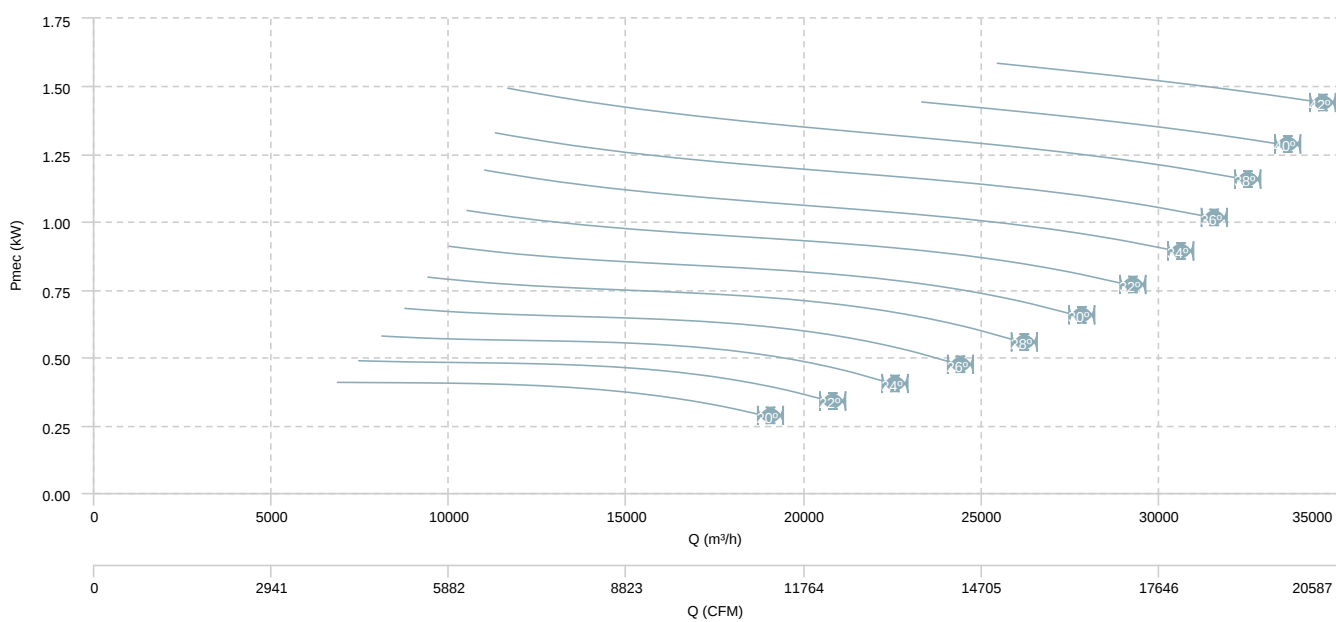


HMA 100 T4/T8 (A6:3)

AIR FLOW - PRESSURE (8 poles)

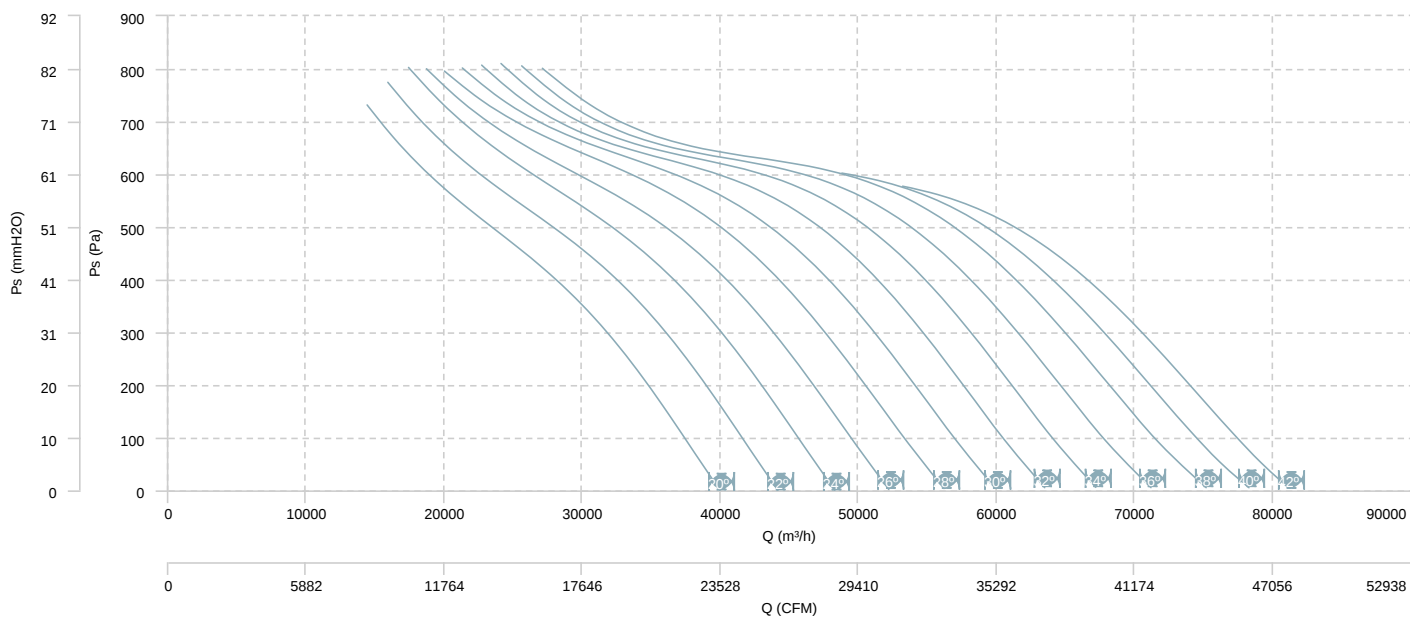


AIR FLOW - MECHANICAL POWER (8 poles)

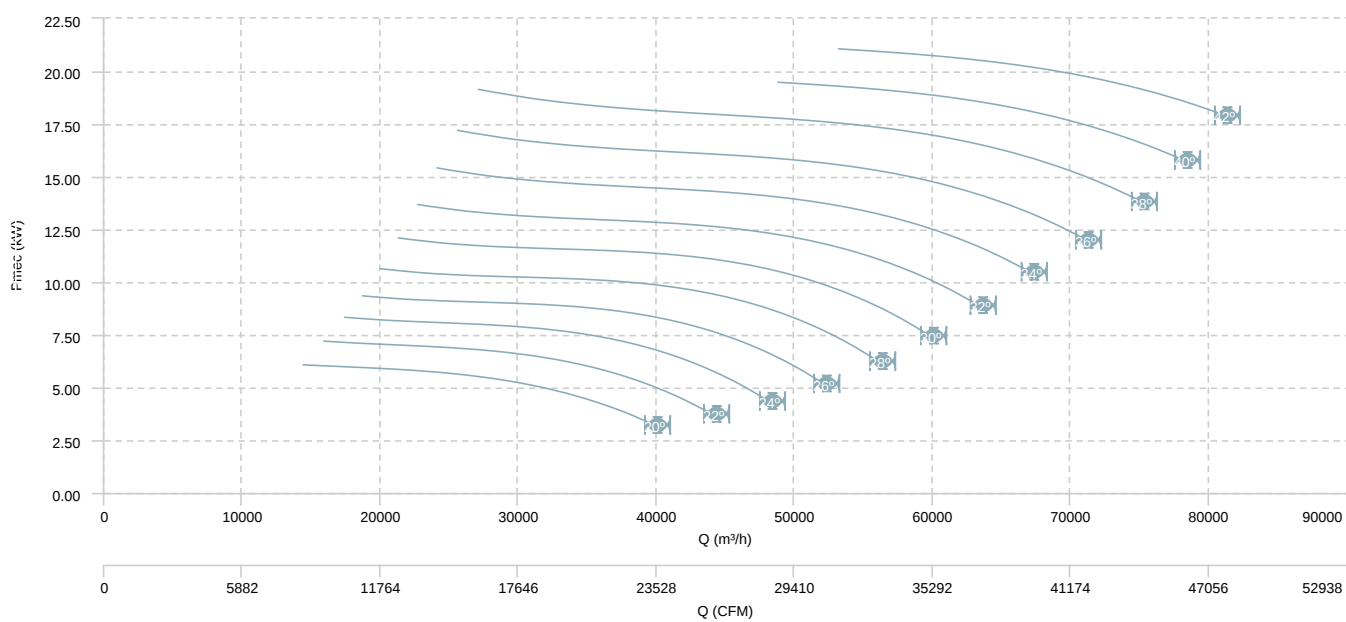


HMA 100 T4/T8 (A6:6)

AIR FLOW - PRESSURE (4 poles)

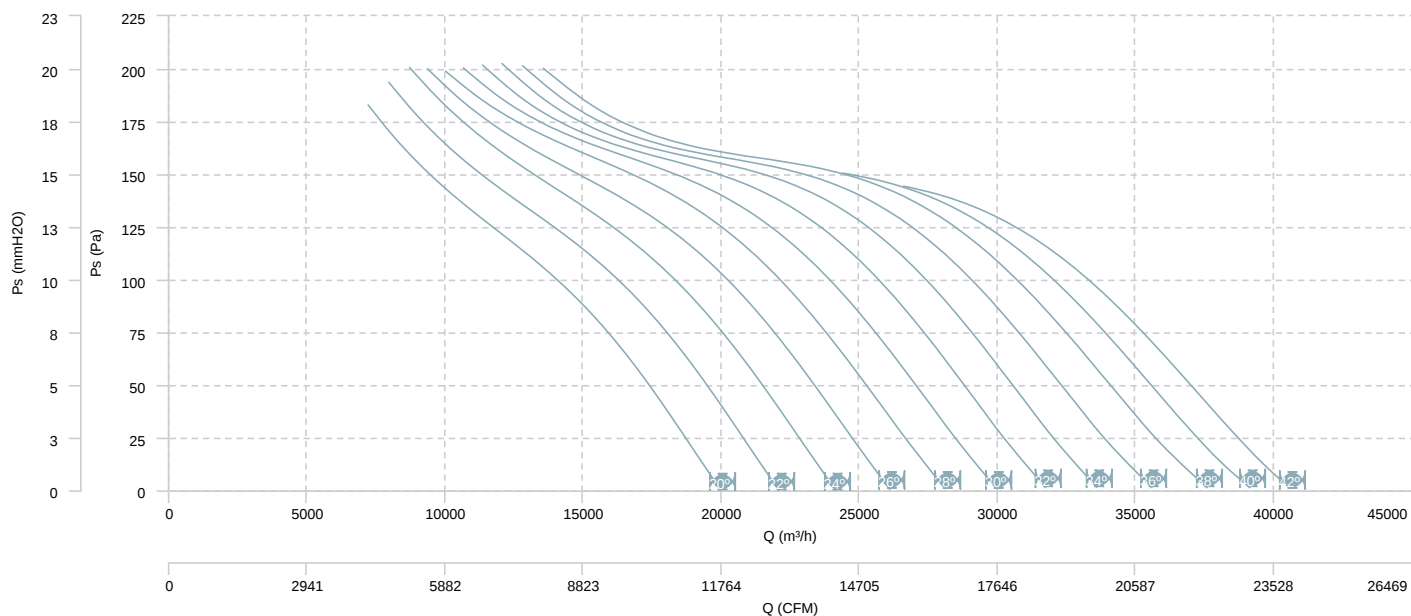


AIR FLOW - MECHANICAL POWER (4 poles)

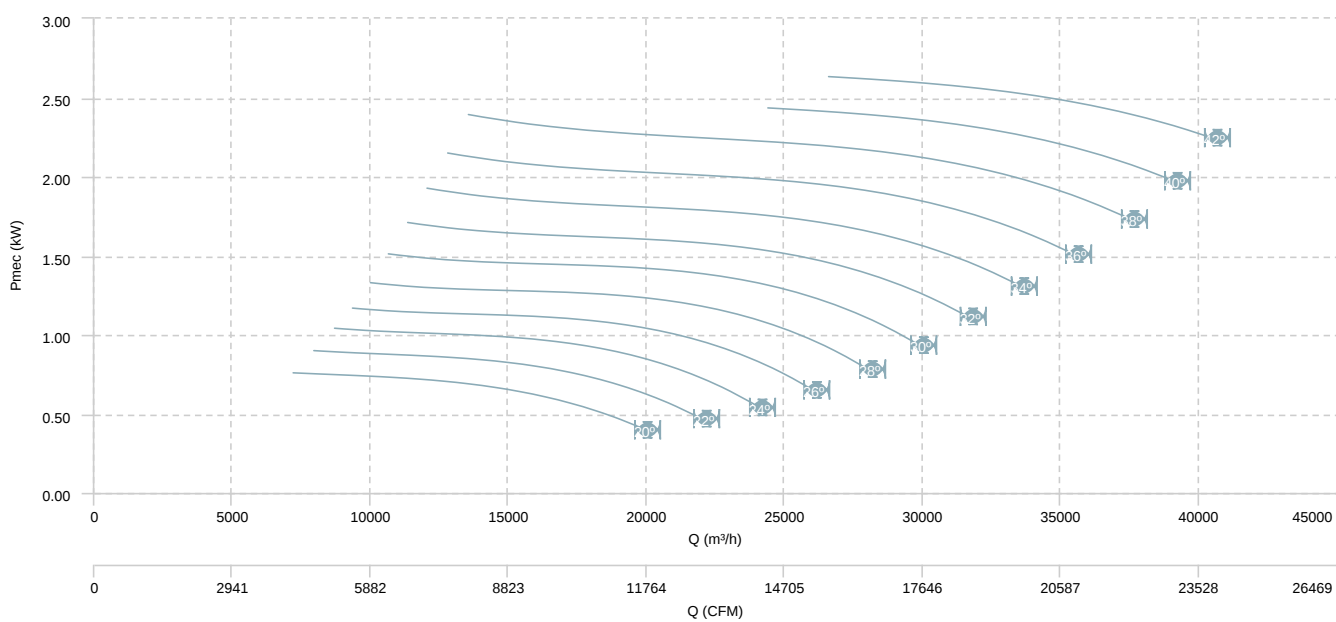


HMA 100 T4/T8 (A6:6)

AIR FLOW - PRESSURE (8 poles)

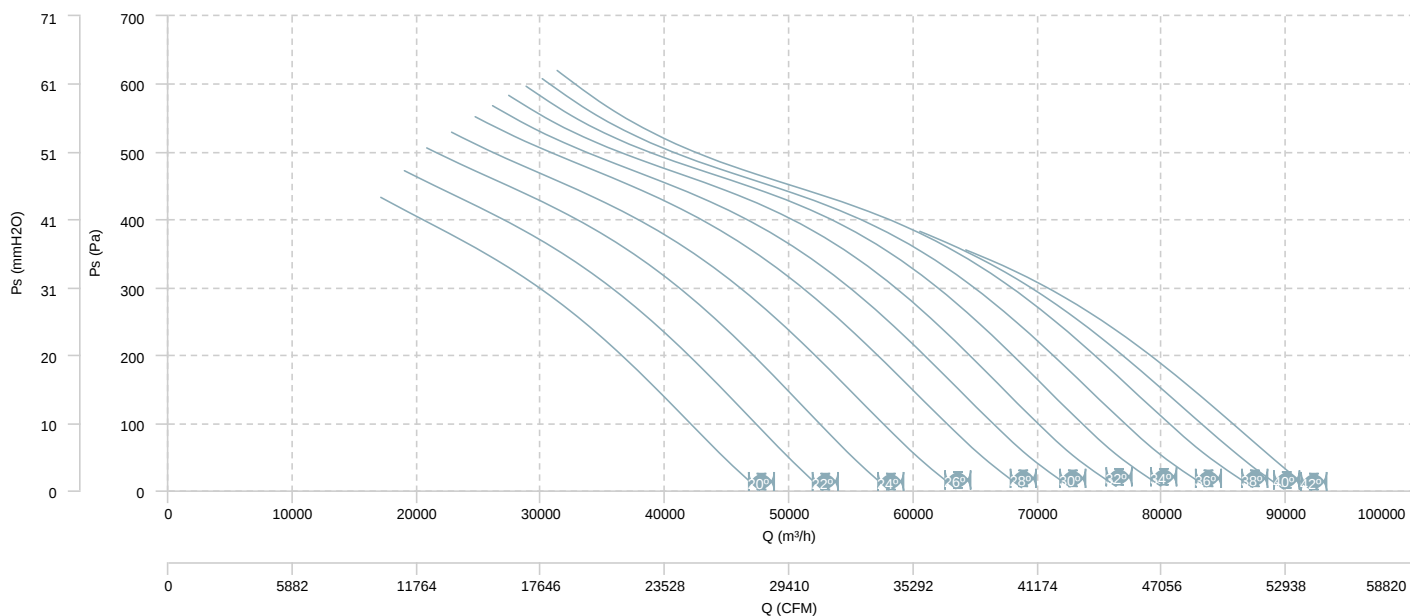


AIR FLOW - MECHANICAL POWER (8 poles)

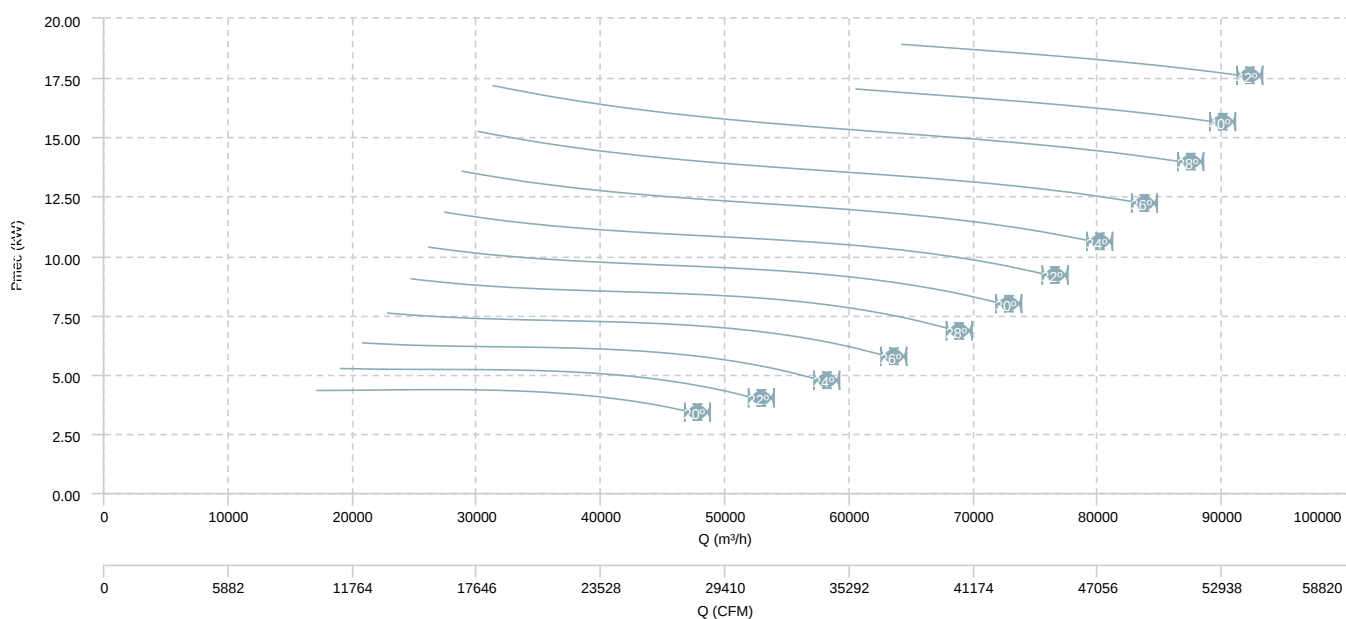


HMA 112 T4 (A6:3)

AIR FLOW - PRESSURE

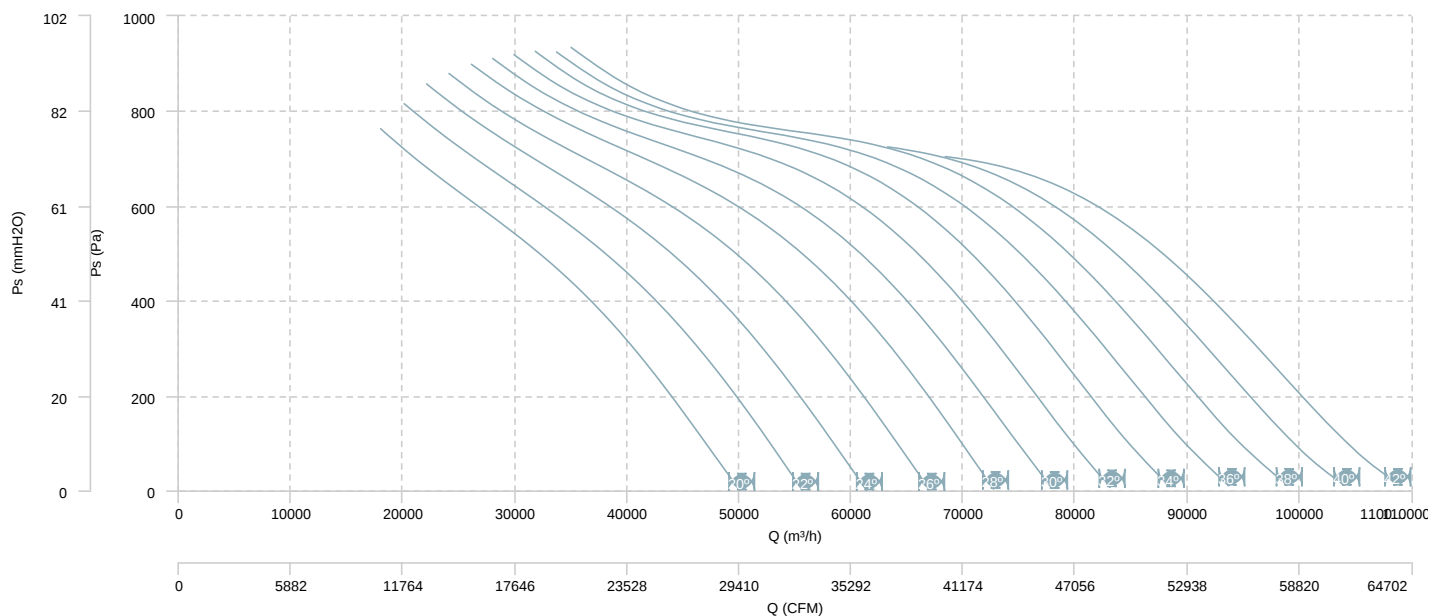


AIR FLOW - MECHANICAL POWER

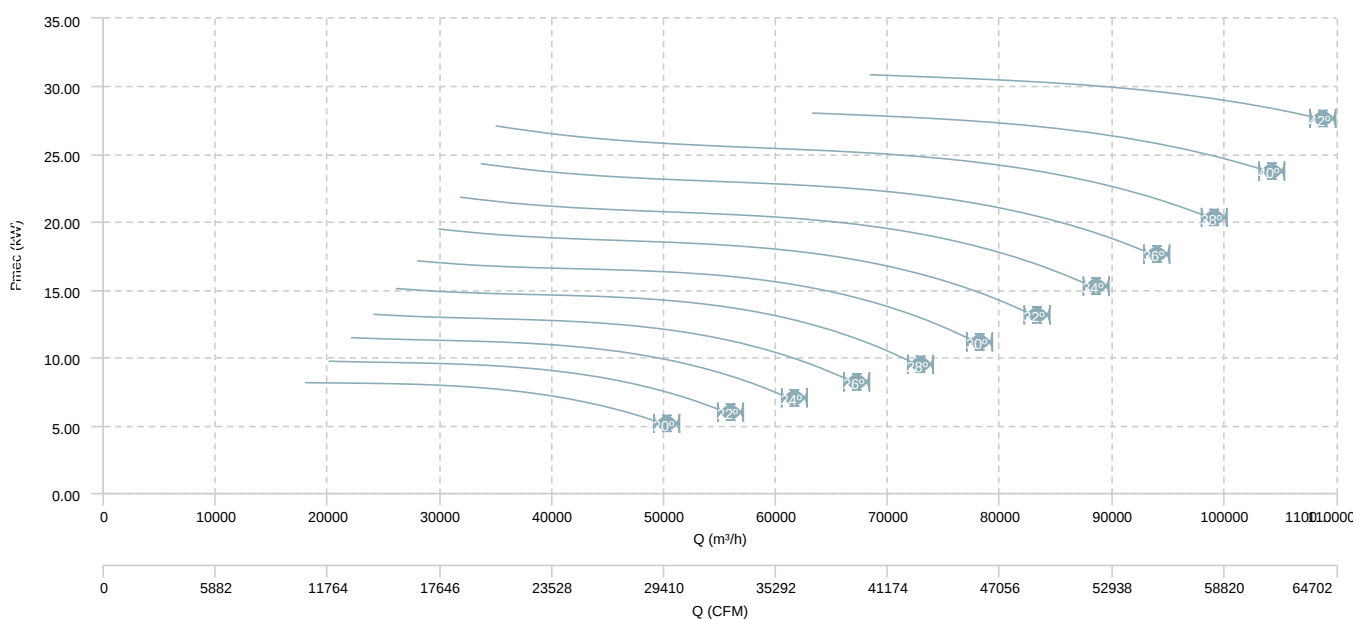


HMA 112 T4 (A6:6)

AIR FLOW - PRESSURE

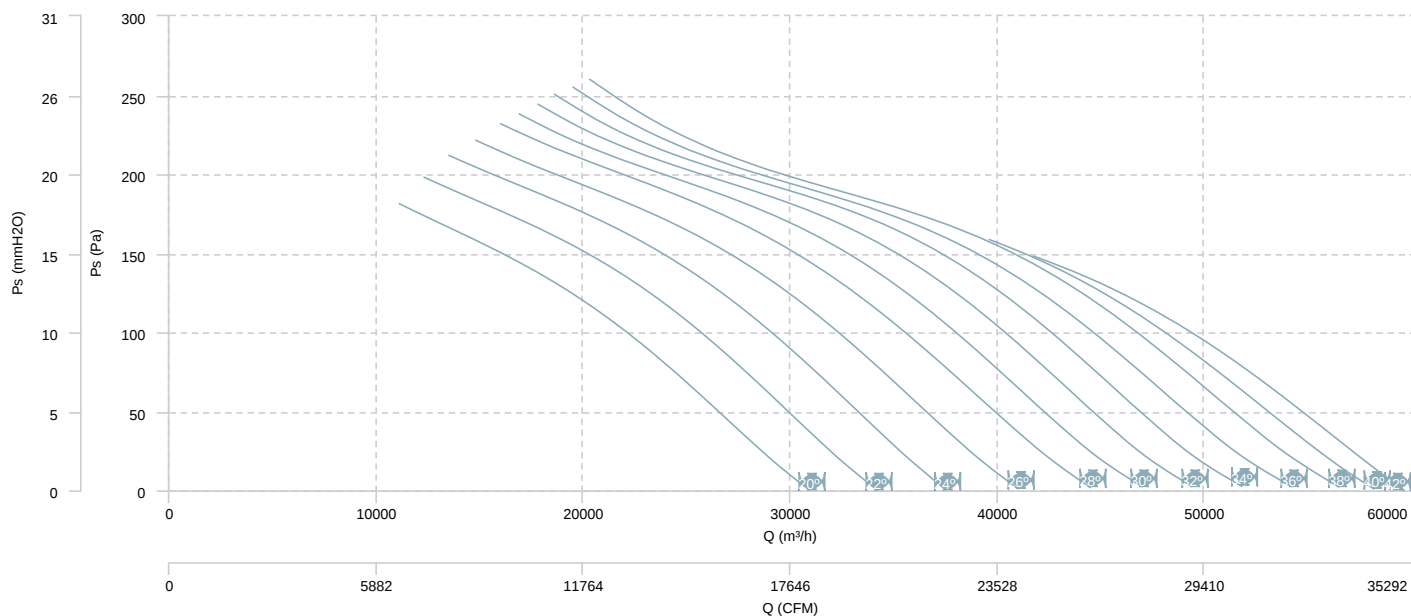


AIR FLOW - MECHANICAL POWER

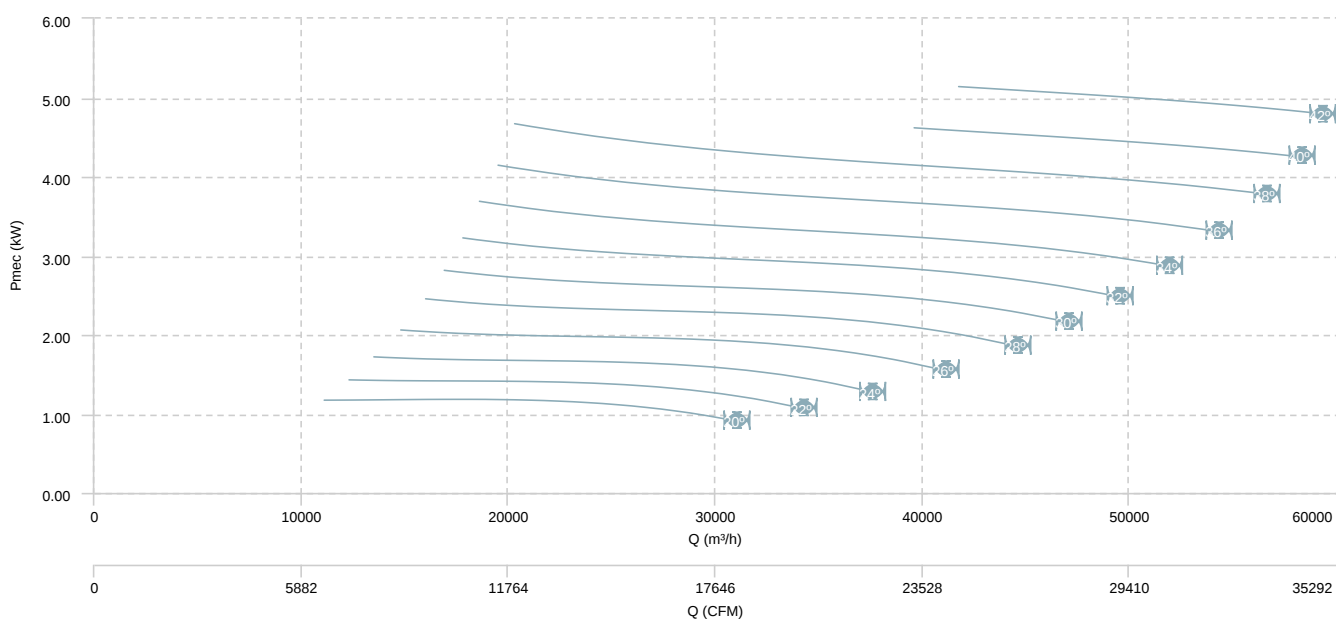


HMA 112 T6 (A6:3)

AIR FLOW - PRESSURE

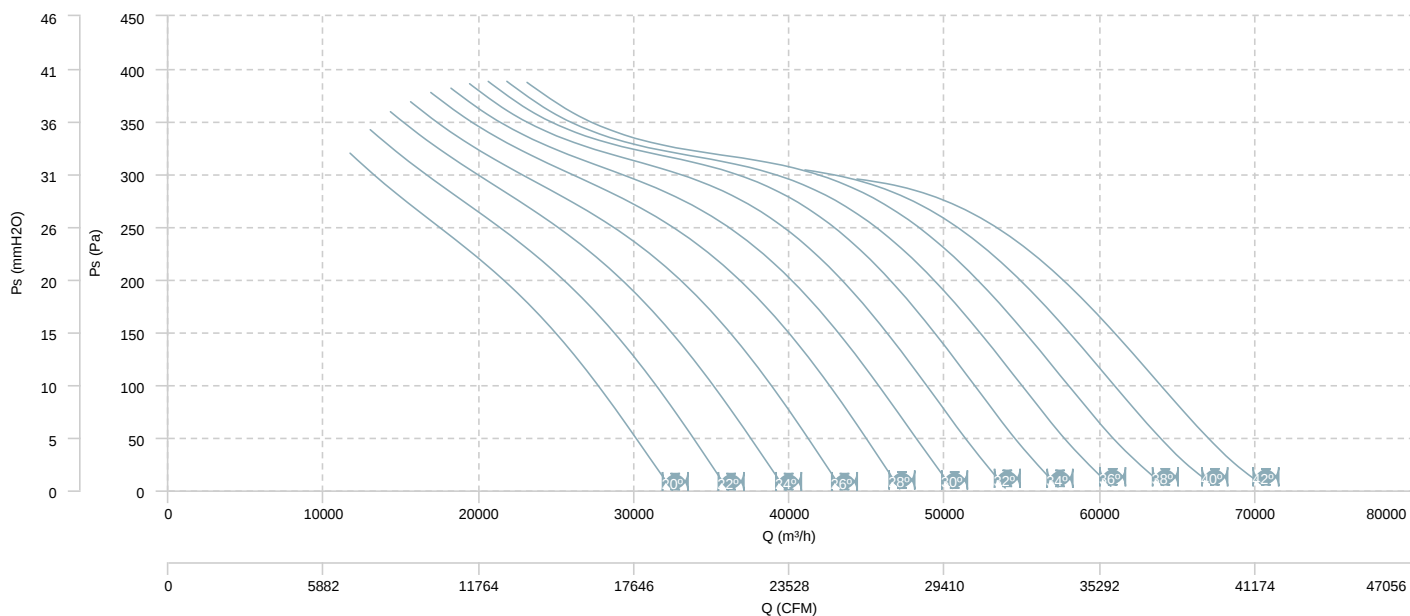


AIR FLOW - MECHANICAL POWER

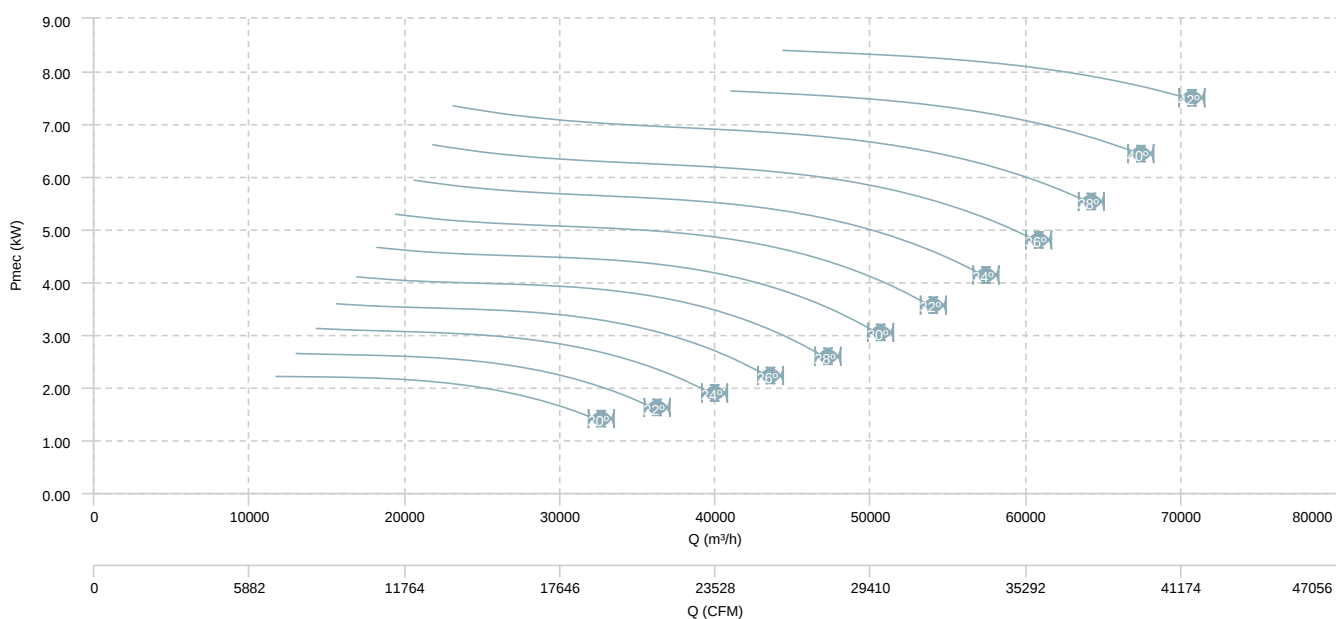


HMA 112 T6 (A6:6)

AIR FLOW - PRESSURE

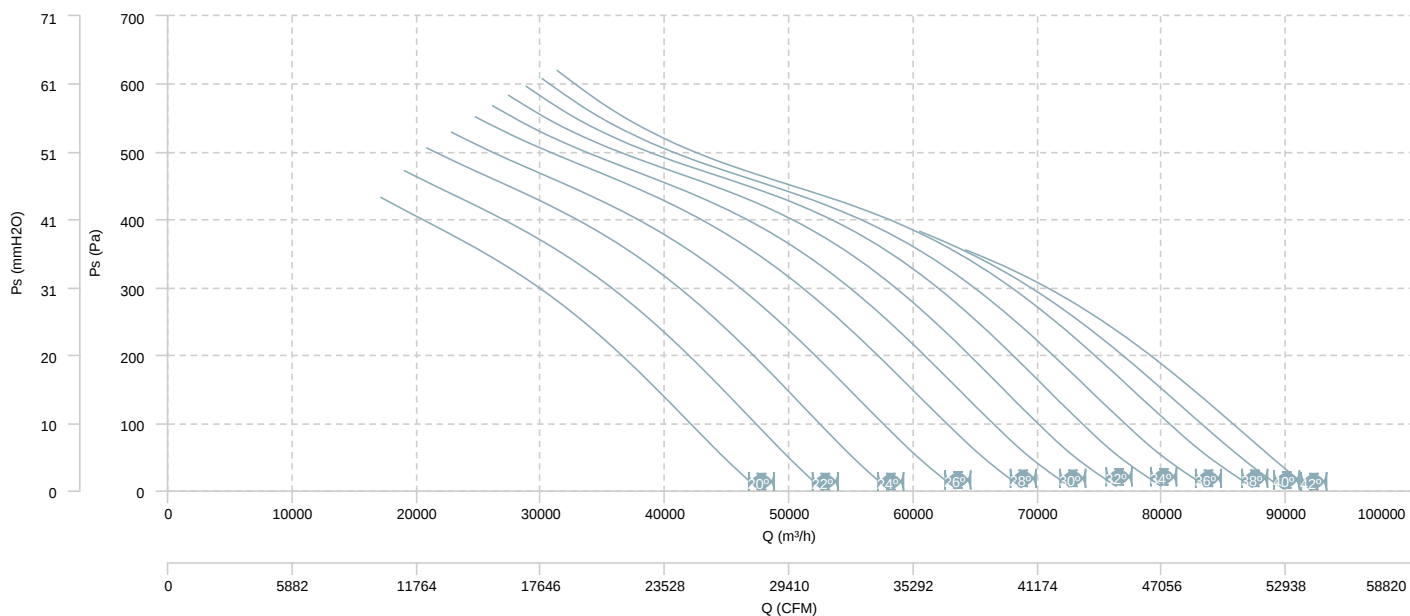


AIR FLOW - MECHANICAL POWER

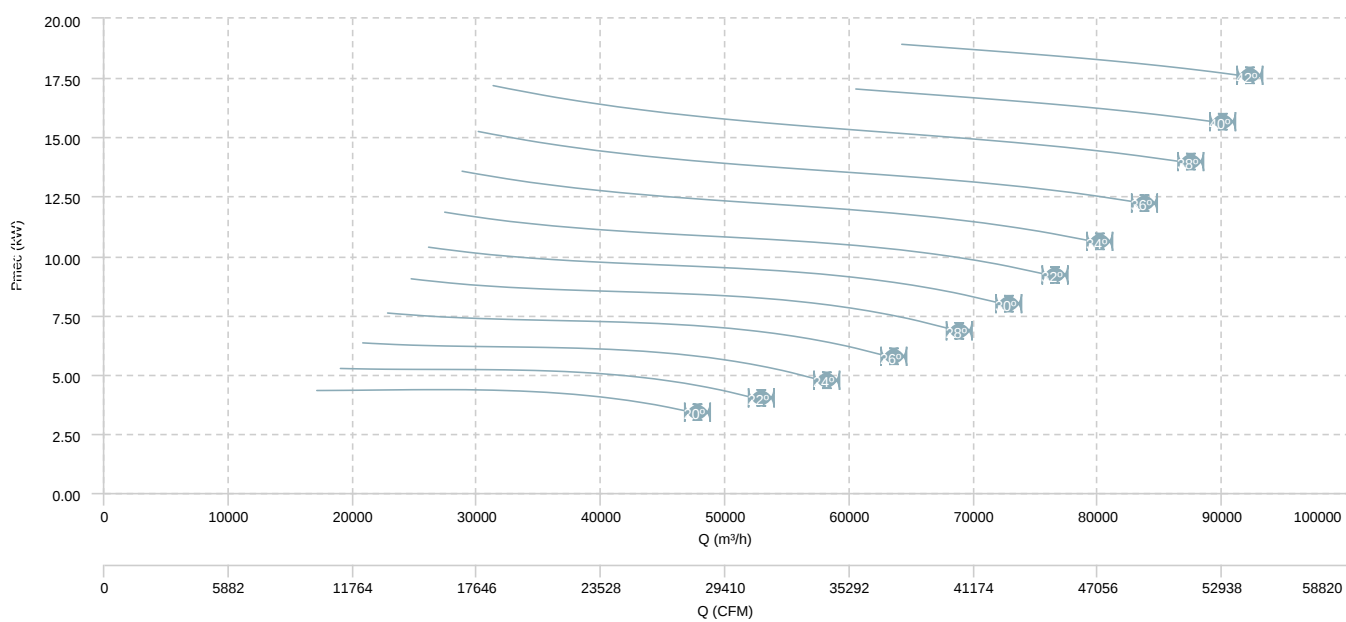


HMA 112 T4/T8 (A6:3)

AIR FLOW - PRESSURE (4 poles)

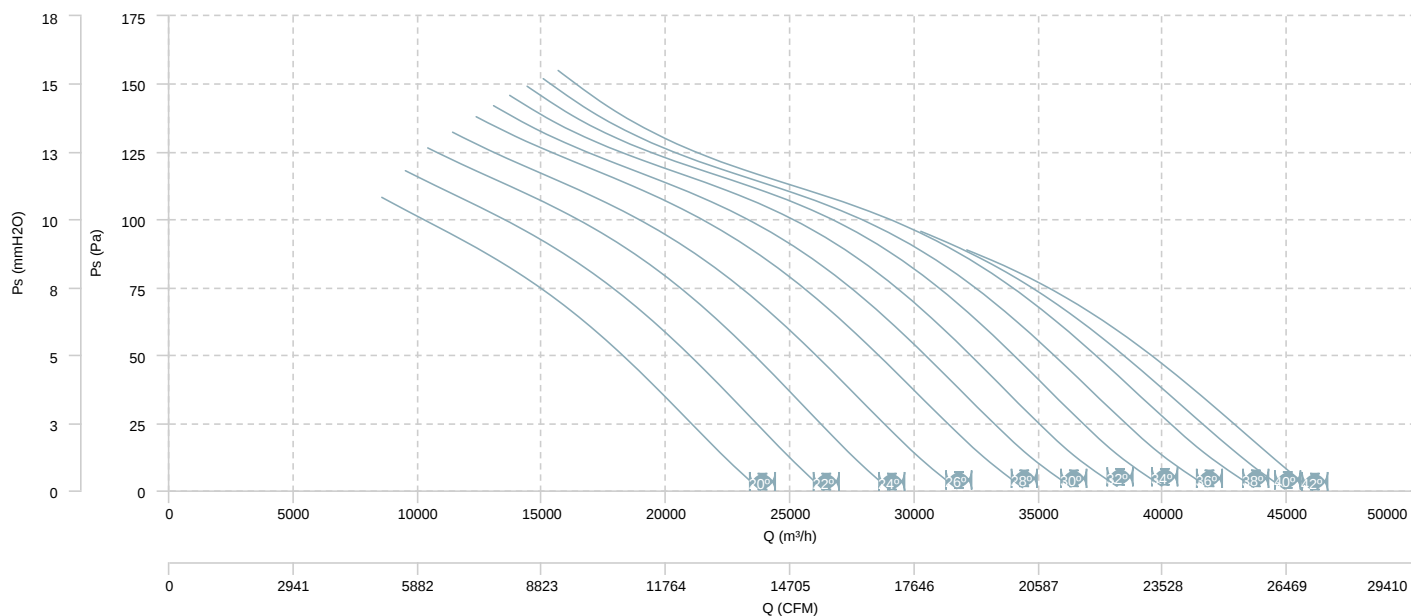


AIR FLOW - MECHANICAL POWER (4 poles)

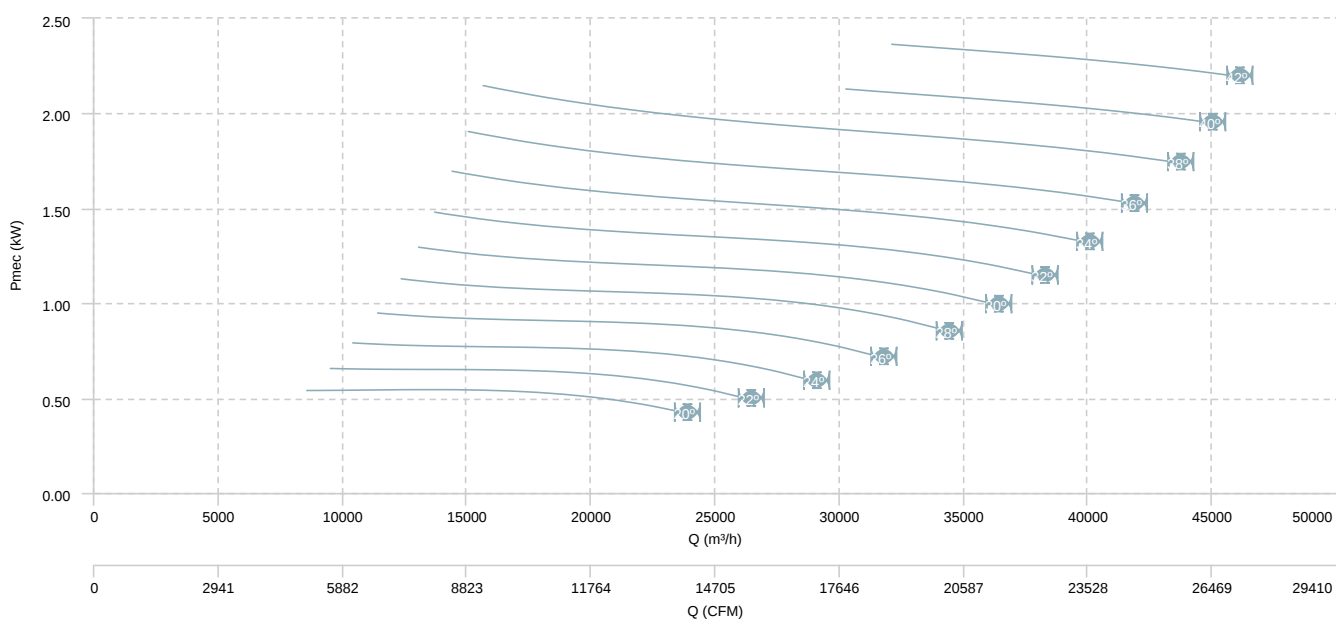


HMA 112 T4/T8 (A6:3)

AIR FLOW - PRESSURE (8 poles)

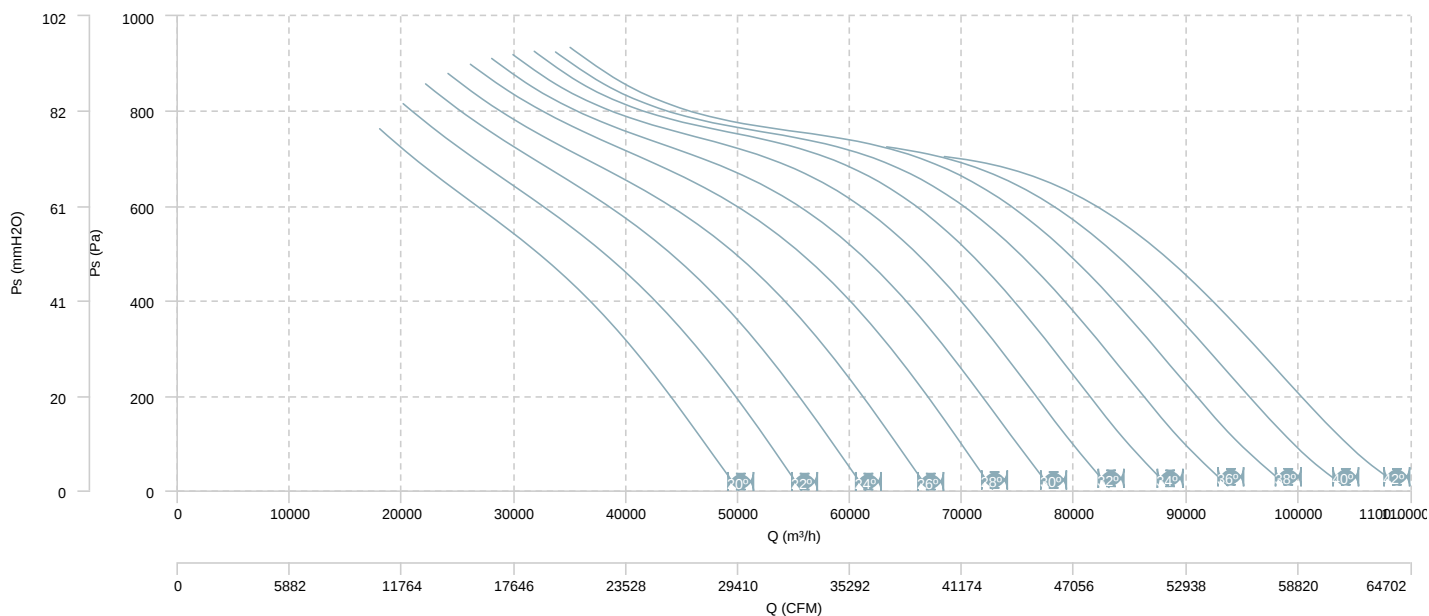


AIR FLOW - MECHANICAL POWER (8 poles)

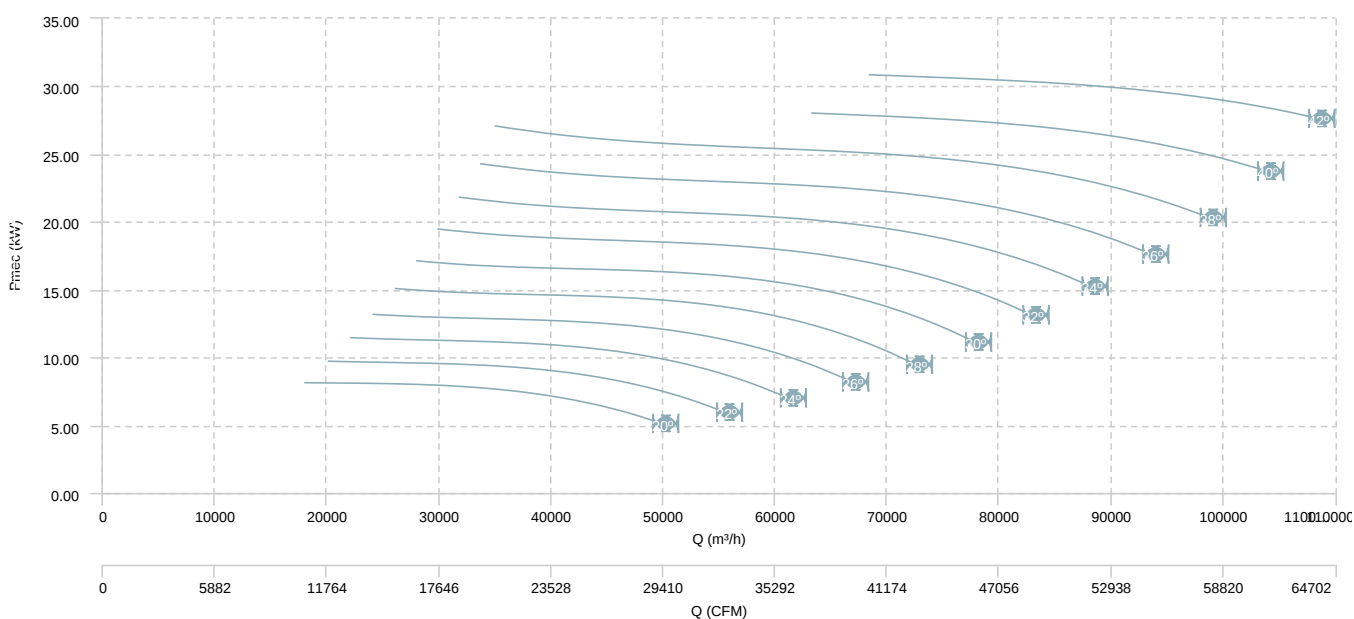


HMA 112 T4/T8 (A6:6)

AIR FLOW - PRESSURE (4 poles)

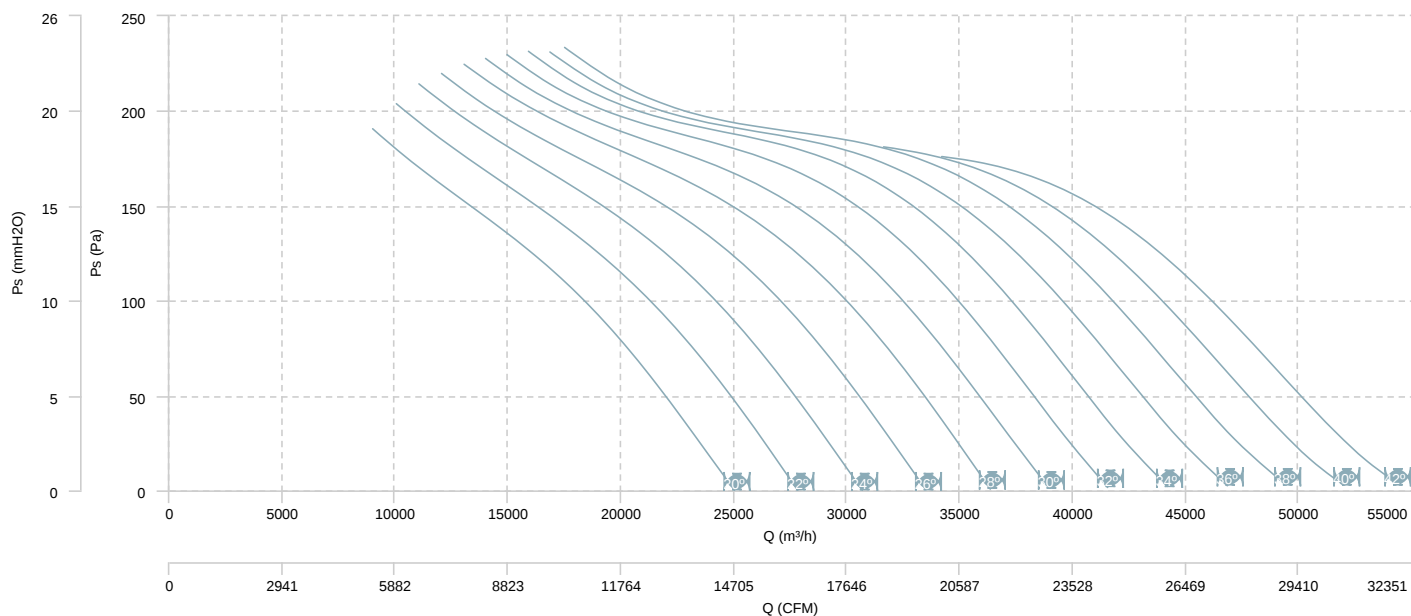


AIR FLOW - MECHANICAL POWER (4 poles)

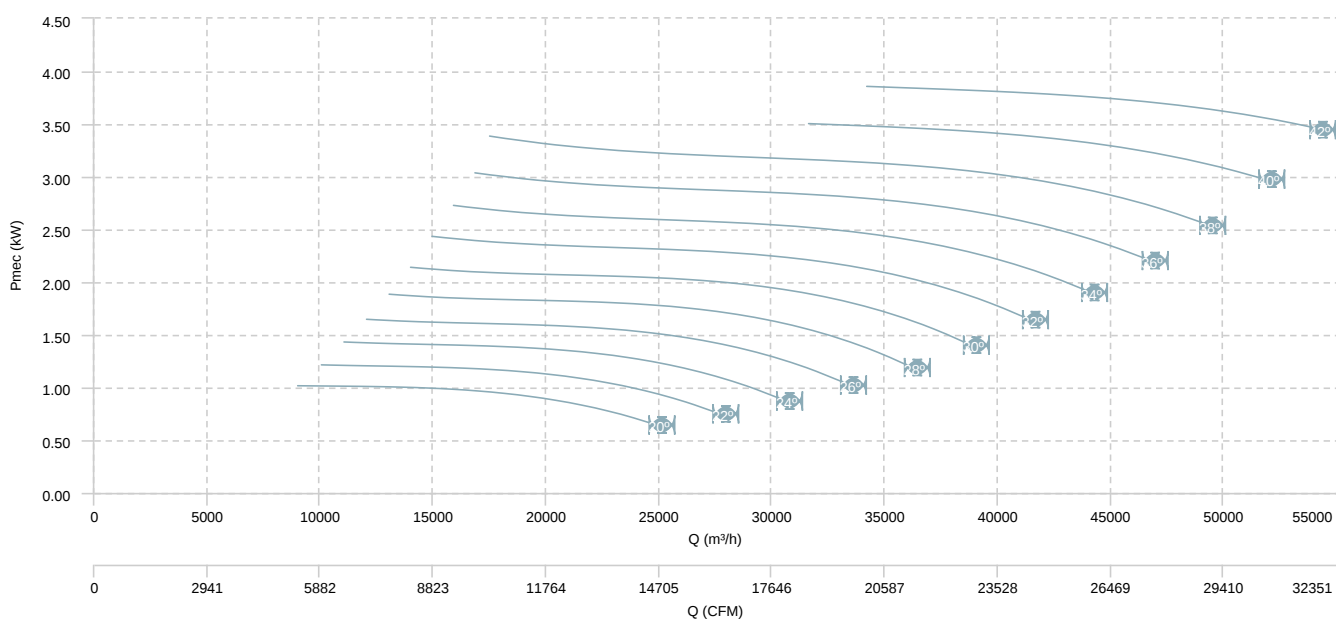


HMA 112 T4/T8 (A6:6)

AIR FLOW - PRESSURE (8 poles)

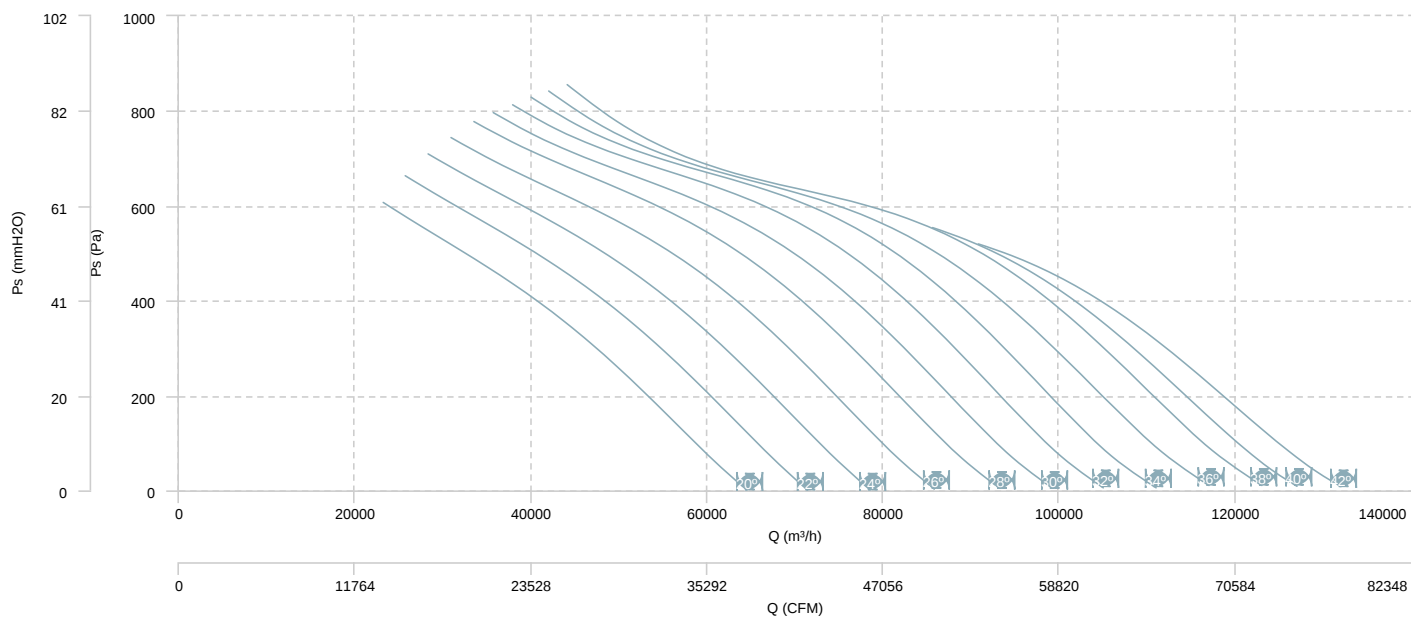


AIR FLOW - MECHANICAL POWER (8 poles)

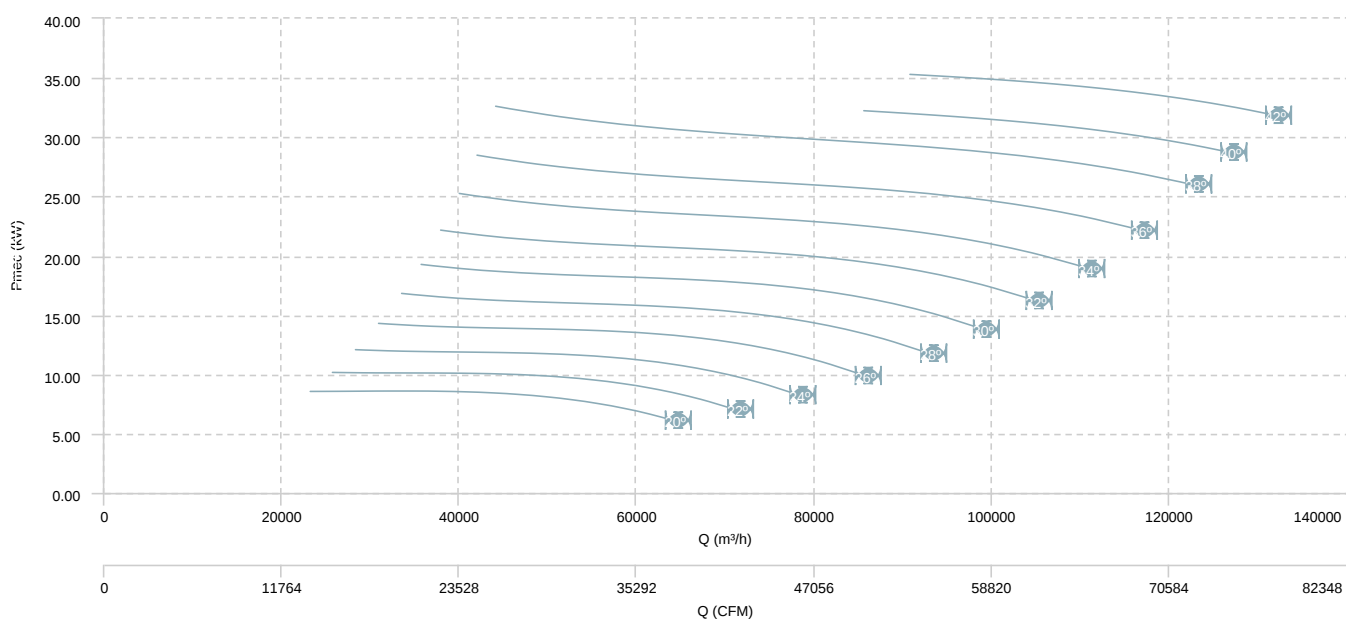


HMA 125 T4 (A7:4)

AIR FLOW - PRESSURE

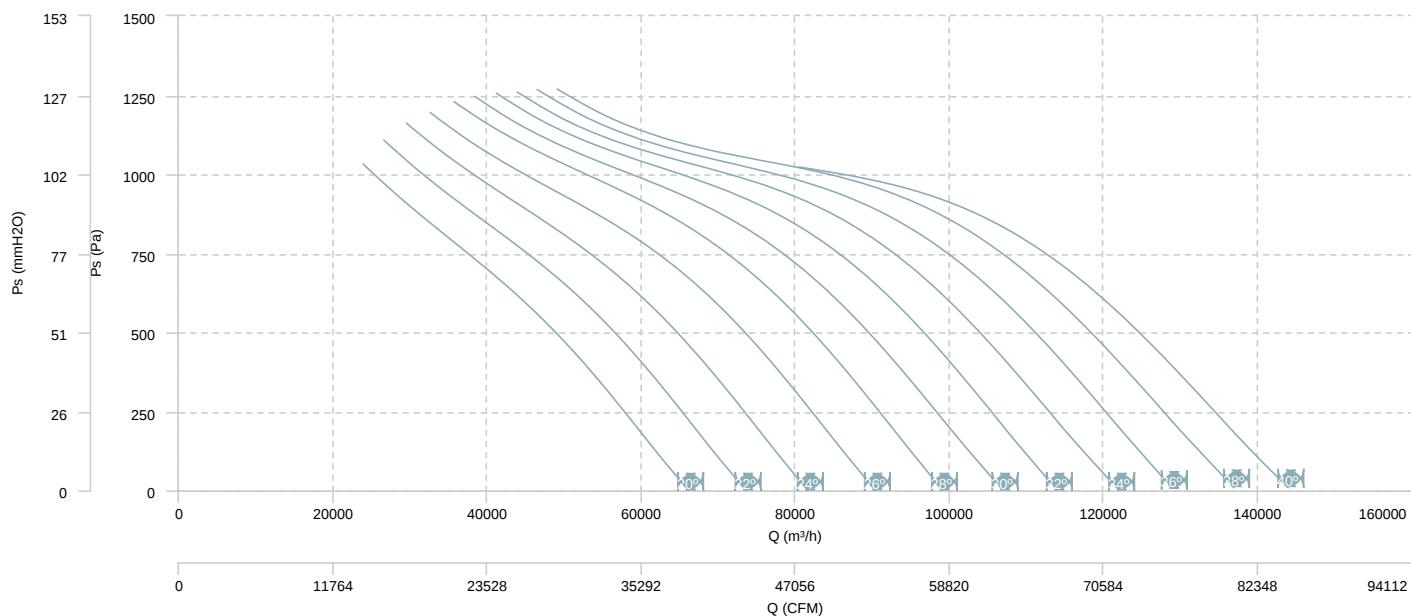


AIR FLOW - MECHANICAL POWER

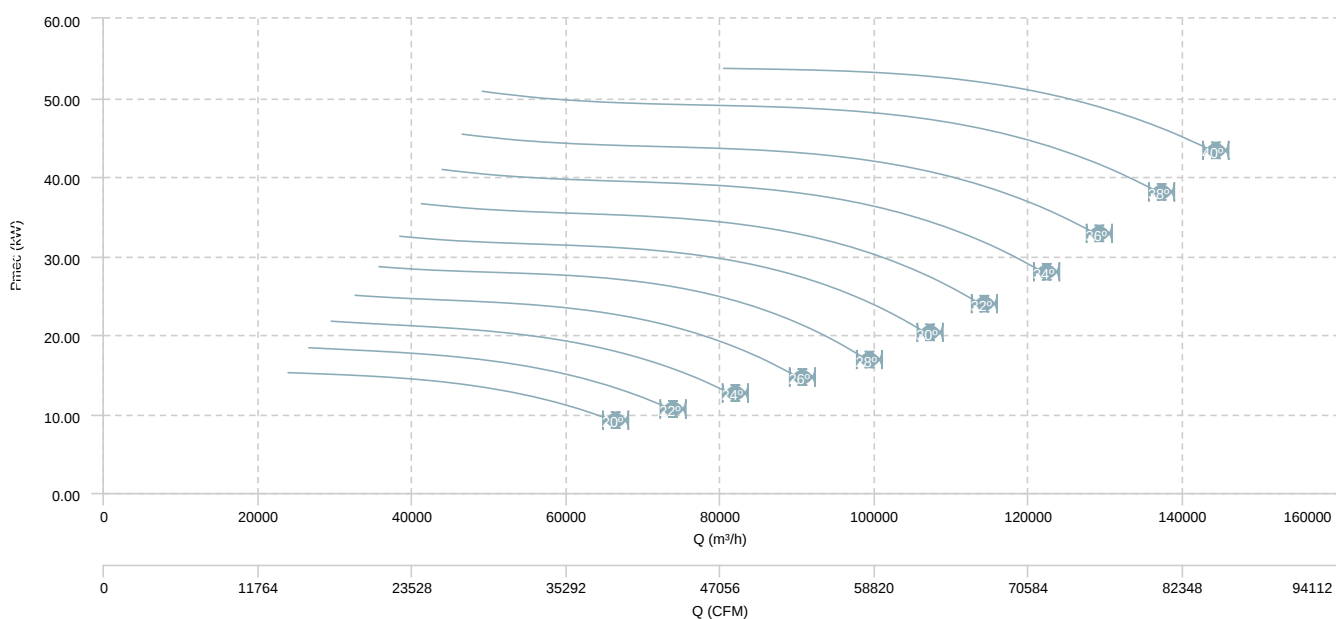


HMA 125 T4 (A7:8)

AIR FLOW - PRESSURE

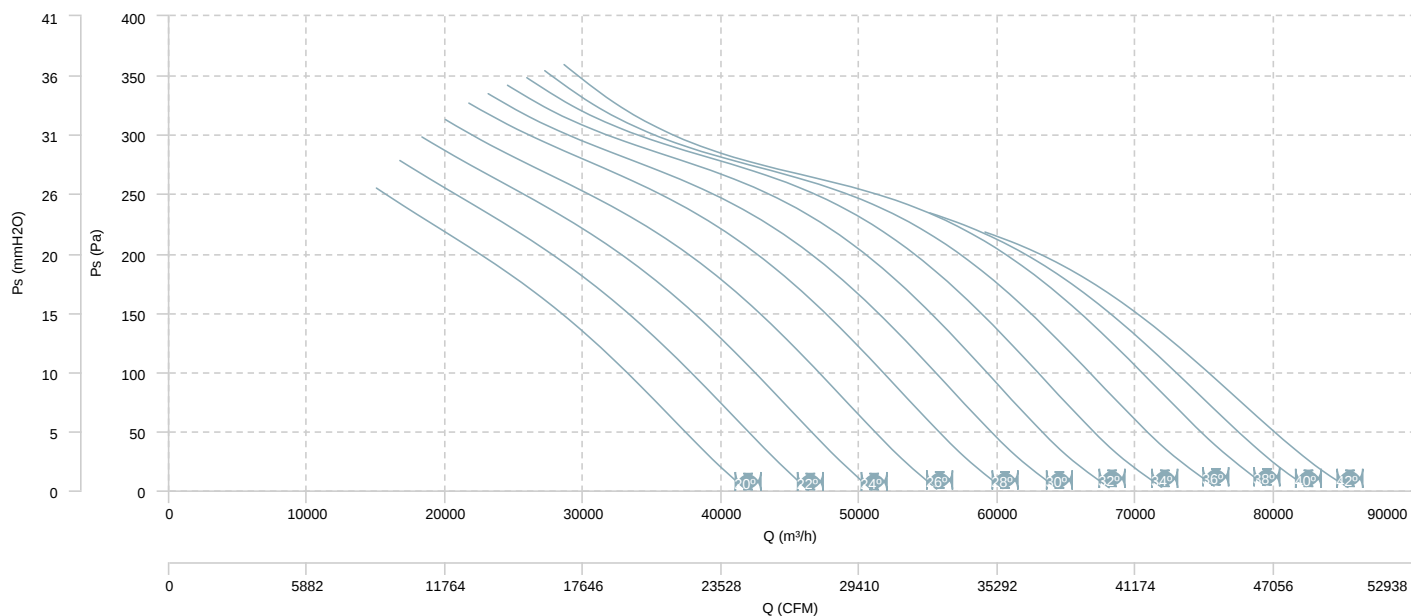


AIR FLOW - MECHANICAL POWER

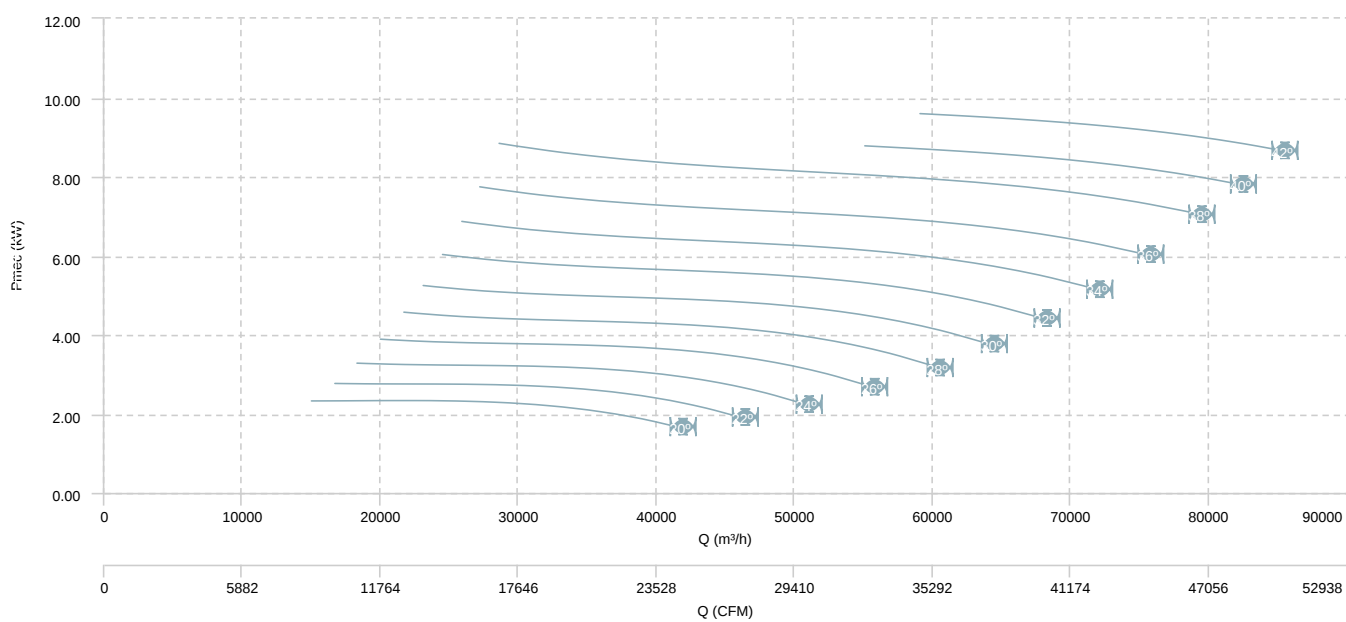


HMA 125 T6 (A7:4)

AIR FLOW - PRESSURE

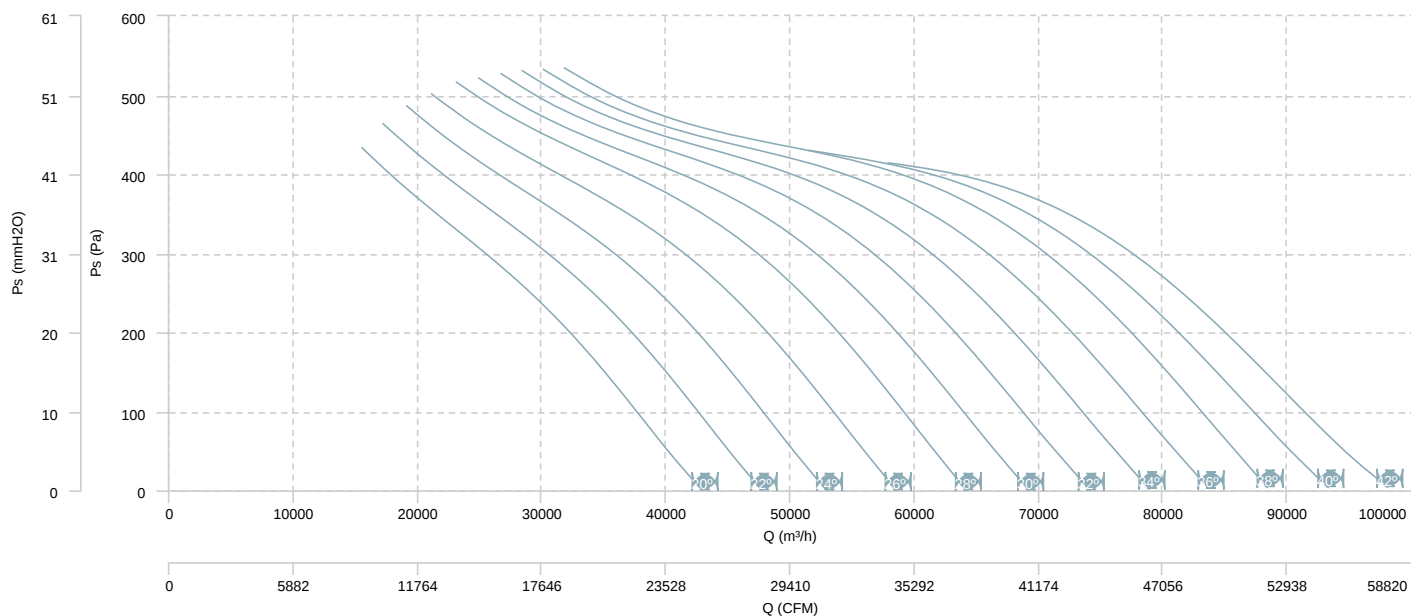


AIR FLOW - MECHANICAL POWER

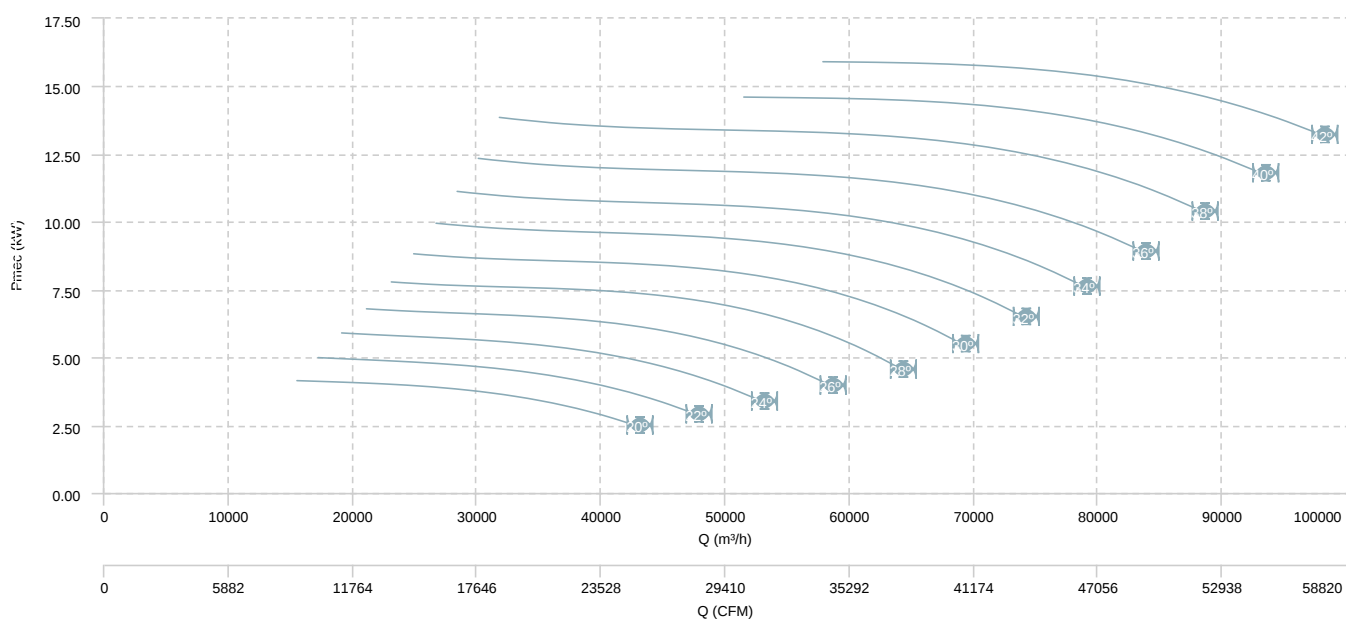


HMA 125 T6 (A7:8)

AIR FLOW - PRESSURE

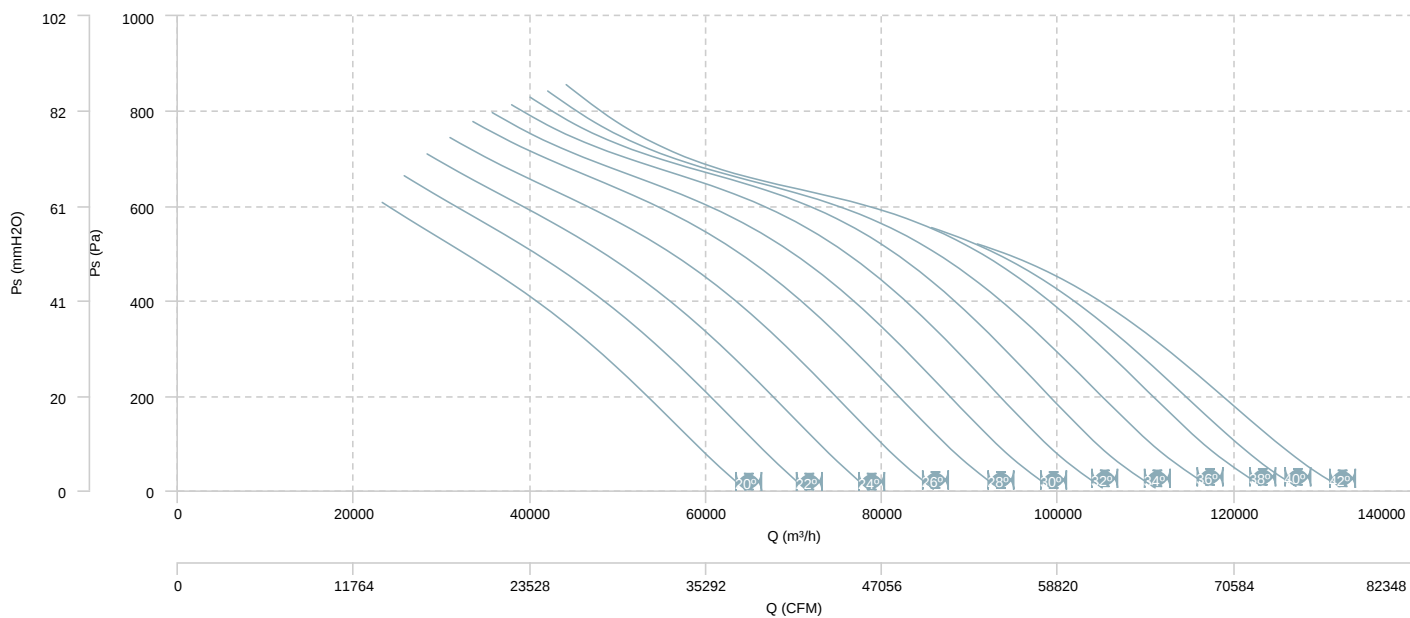


AIR FLOW - MECHANICAL POWER

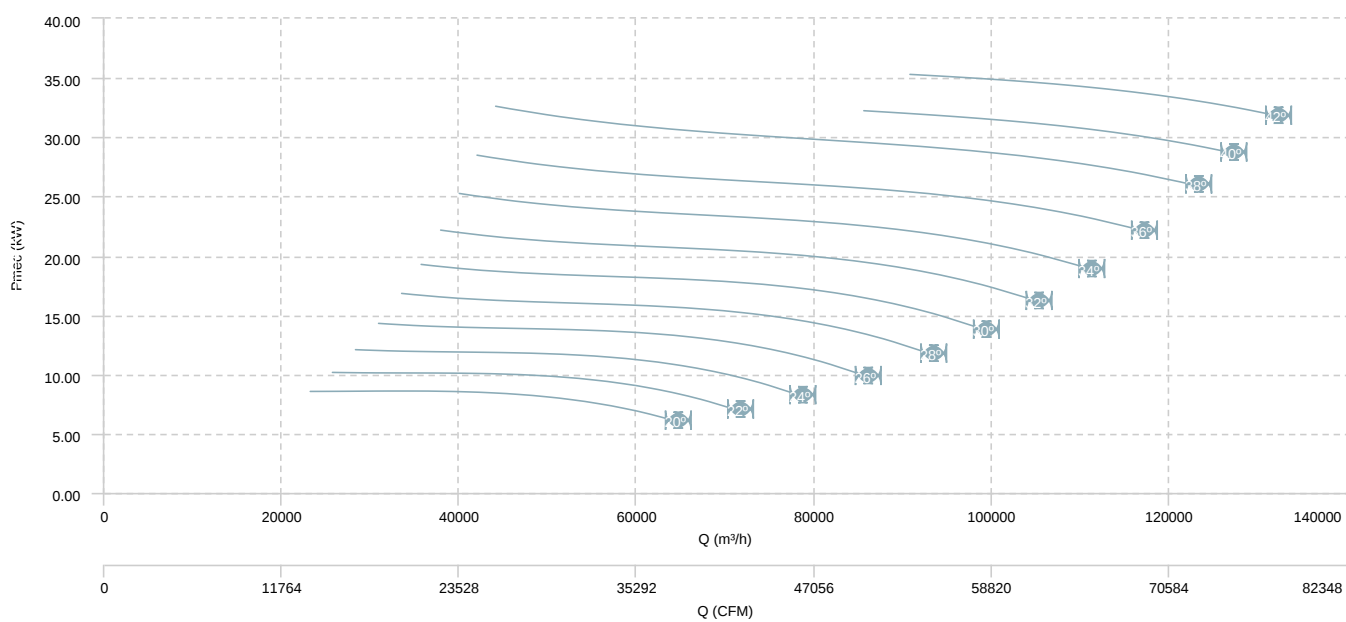


HMA 125 T4/T8 (A7:4)

AIR FLOW - PRESSURE (4 poles)

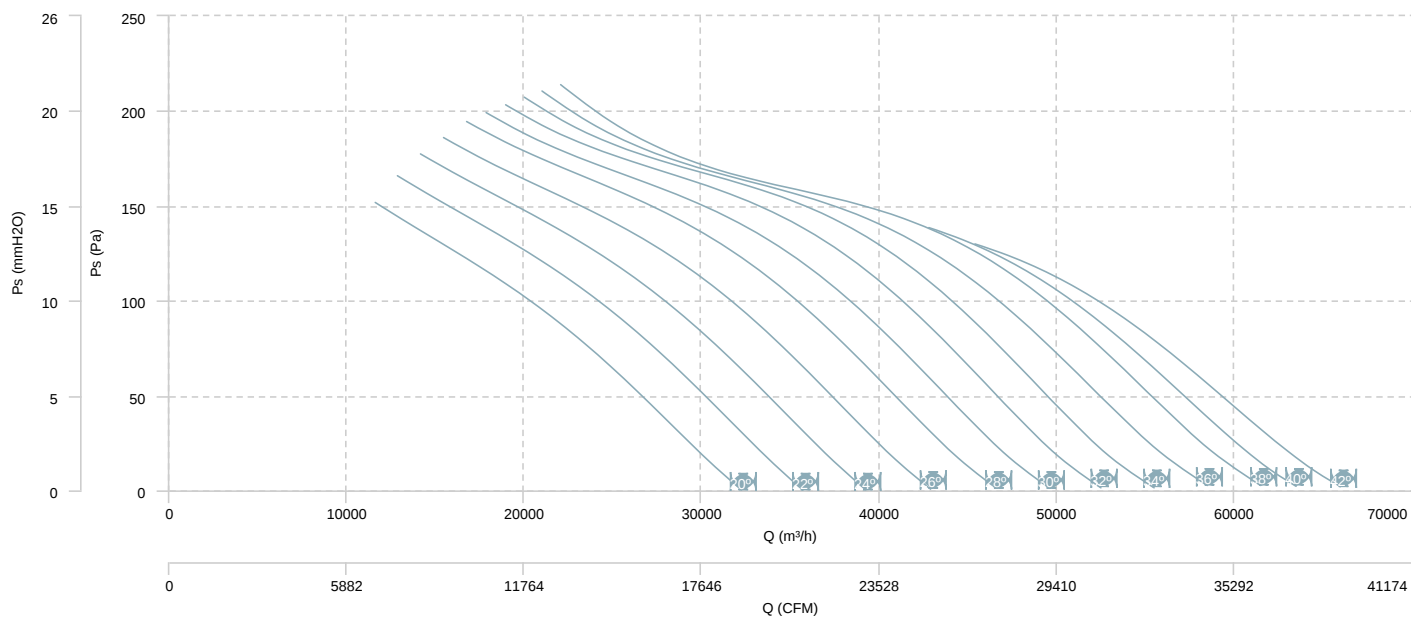


AIR FLOW - MECHANICAL POWER (4 poles)

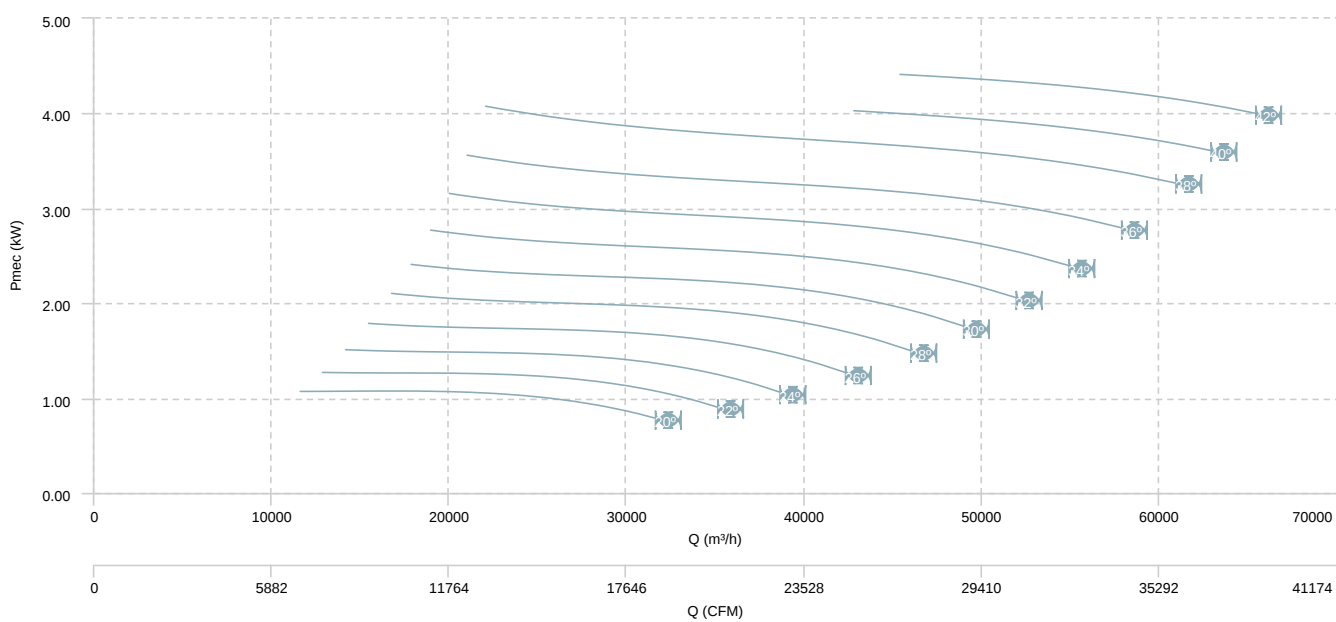


HMA 125 T4/T8 (A7:4)

AIR FLOW - PRESSURE (8 poles)

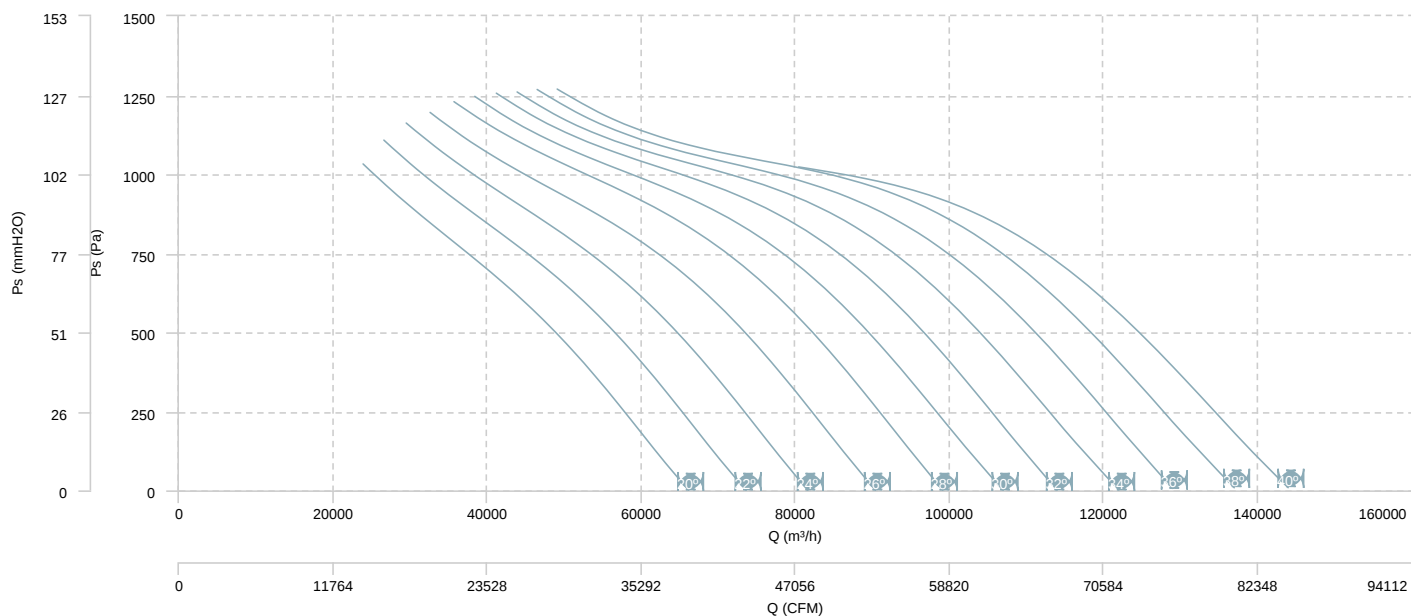


AIR FLOW - MECHANICAL POWER (8 poles)

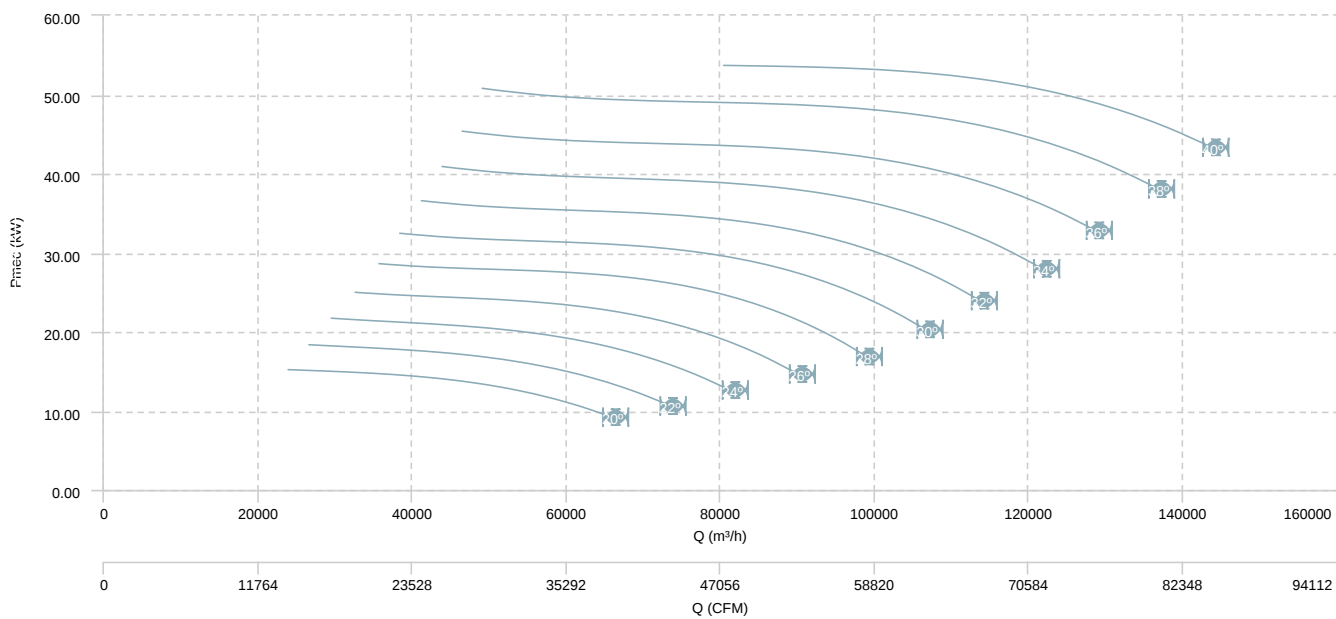


HMA 125 T4/T8 (A7:8)

AIR FLOW - PRESSURE (4 poles)

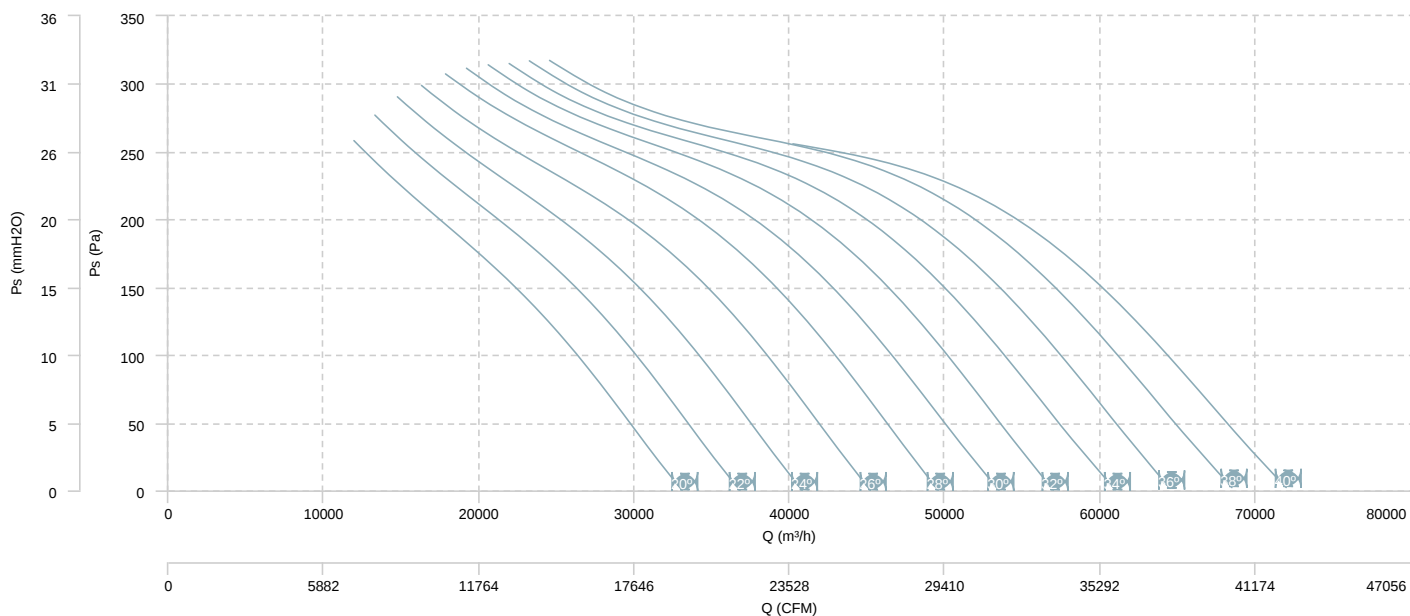


AIR FLOW - MECHANICAL POWER (4 poles)

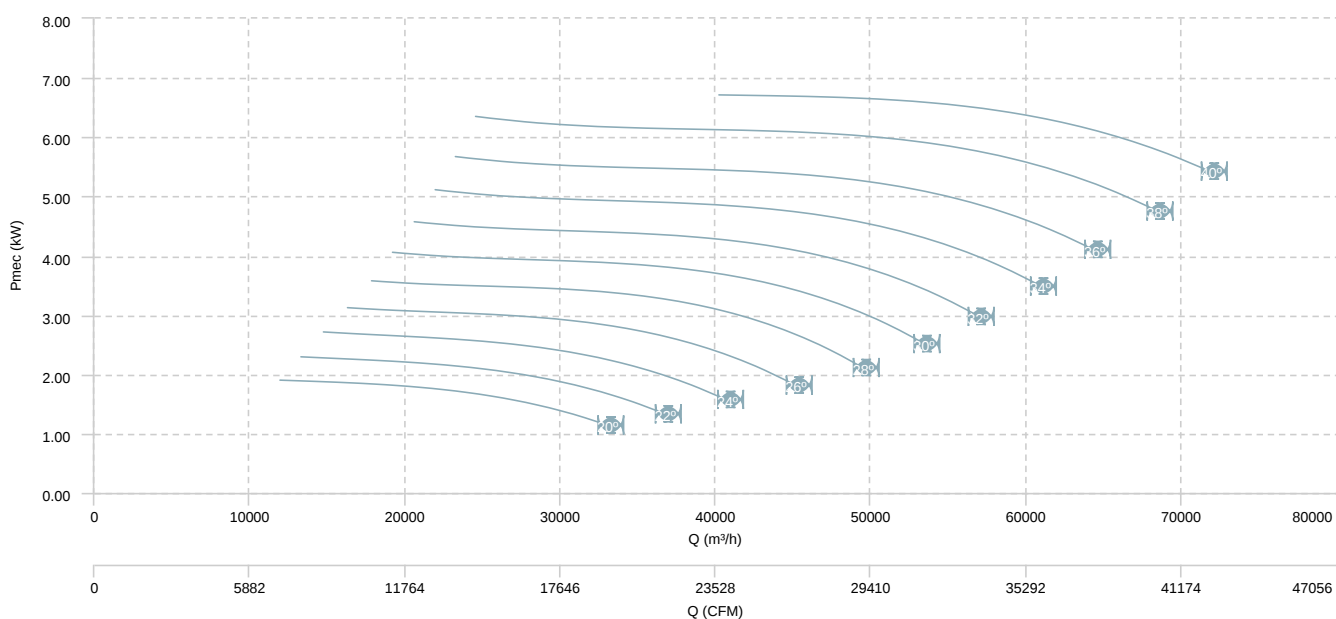


HMA 125 T4/T8 (A7:8)

AIR FLOW - PRESSURE (8 poles)



AIR FLOW - MECHANICAL POWER (8 poles)



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 35 M2 (A0:6) (25º)	Inlet	55	65	70	79	80	79	80	75	86
HMA 35 M2 (A0:6) (30º)	Inlet	55	63	69	76	77	77	78	73	84
HMA 35 M2 (A0:6) (35º)	Inlet	54	62	68	72	75	75	77	71	82
HMA 35 M2 (A0:6) (40º)	Inlet	56	64	69	74	76	77	78	72	83
HMA 35 T2 (A0:6) (25º)	Inlet	55	65	70	79	80	79	80	75	86
HMA 35 T2 (A0:6) (30º)	Inlet	55	63	69	76	77	77	78	73	84
HMA 35 T2 (A0:6) (35º)	Inlet	54	62	68	72	75	75	77	71	82
HMA 35 T2 (A0:6) (40º)	Inlet	56	64	69	74	76	77	78	72	83
HMA 40 T2 (A0:6) (25º)	Inlet	56	65	71	80	82	81	82	76	88
HMA 40 T2 (A0:6) (30º)	Inlet	58	65	70	78	80	80	81	75	86
HMA 40 T2 (A0:6) (35º)	Inlet	58	65	70	74	77	79	80	73	85
HMA 40 T2 (A0:6) (40º)	Inlet	62	68	74	78	81	82	82	76	87
HMA 45 T2 (A0:6) (25º)	Inlet	35	55	68	80	88	89	90	83	94
HMA 45 T2 (A0:6) (35º)	Inlet	36	53	66	76	82	84	85	76	89
HMA 50 T2 (A9:4) (25º)	Inlet	66	72	79	87	92	91	91	86	97
HMA 50 T2 (A9:4) (30º)	Inlet	64	70	76	81	86	85	86	80	91
HMA 50 T2 (A9:4) (35º)	Inlet	63	70	75	80	83	83	85	77	89
HMA 50 T2 (A9:4) (40º)	Inlet	63	70	75	79	82	83	83	76	89
HMA 50 T2 (A9:4) (45º)	Inlet	65	72	77	81	83	85	84	78	90
HMA 50 T2 (A9:4) (50º)	Inlet	66	73	78	83	87	87	87	82	93
HMA 50 T2 (A9:8) (25º)	Inlet	63	72	79	86	91	91	92	84	97
HMA 50 T2 (A9:8) (30º)	Inlet	63	70	75	81	86	88	88	80	93
HMA 50 T2 (A9:8) (35º)	Inlet	64	71	76	82	85	87	86	78	92
HMA 50 T2 (A9:8) (40º)	Inlet	65	72	77	80	83	86	84	77	90
HMA 50 T2 (A9:8) (45º)	Inlet	66	73	78	82	85	85	84	77	90
HMA 50 T2 (A9:8) (50º)	Inlet	66	73	78	82	85	86	85	78	91
HMA 56 T2 (A9:5) (25º)	Inlet	62	71	77	84	87	86	87	82	93
HMA 56 T2 (A9:5) (30º)	Inlet	64	73	78	86	87	87	89	83	94
HMA 56 T2 (A9:5) (35º)	Inlet	62	70	75	82	83	85	86	81	91
HMA 56 T2 (A9:5) (40º)	Inlet	64	72	77	84	85	86	87	82	92
HMA 56 T2 (A9:5) (45º)	Inlet	65	74	81	85	87	88	89	82	94
HMA 56 T2 (A9:5) (50º)	Inlet	67	76	81	86	89	90	90	84	95
HMA 56 T2 (A9:10) (25º)	Inlet	62	75	80	86	87	88	90	81	95
HMA 56 T2 (A9:10) (30º)	Inlet	63	72	77	83	86	88	87	80	93
HMA 56 T2 (A9:10) (35º)	Inlet	66	73	78	84	89	90	87	81	95

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 56 T2 (A9:10) (40º)	Inlet	66	73	78	83	87	88	86	80	93
HMA 56 T2 (A9:10) (45º)	Inlet	69	76	81	85	88	89	87	81	94
HMA 56 T2 (A9:10) (50º)	Inlet	69	76	81	84	88	88	87	80	93

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
HMA 35 M4 (A0:6) (35º)	Inlet	39	47	54	57	60	61	62	56	67
HMA 35 M4 (A0:6) (40º)	Inlet	41	49	55	59	61	62	63	57	68
HMA 35 T4 (A0:6) (35º)	Inlet	39	47	54	57	60	61	62	56	67
HMA 35 T4 (A0:6) (40º)	Inlet	41	49	55	59	61	62	63	57	68
HMA 40 M4 (A0:6) (35º)	Inlet	43	50	56	59	62	64	65	58	70
HMA 40 M4 (A0:6) (40º)	Inlet	47	53	59	63	66	67	67	60	72
HMA 40 T4 (A0:6) (35º)	Inlet	43	50	56	59	62	64	65	58	70
HMA 40 T4 (A0:6) (40º)	Inlet	47	53	59	63	66	67	67	60	72
HMA 45 M4 (A0:6) (35º)	Inlet	45	52	57	62	65	66	67	61	72
HMA 45 M4 (A0:6) (40º)	Inlet	47	54	60	63	66	67	68	61	73
HMA 45 M4 (A5:6) (25º)	Inlet	45	50	57	64	63	64	66	59	71
HMA 45 M4 (A5:6) (30º)	Inlet	48	53	60	64	66	67	68	59	73
HMA 45 M4 (A5:6) (35º)	Inlet	50	54	62	63	68	68	69	59	74
HMA 45 M4 (A5:6) (40º)	Inlet	53	56	65	66	70	70	71	62	76
HMA 45 M4 (A5:6) (45º)	Inlet	52	56	64	67	71	71	72	64	77
HMA 45 T4 (A0:6) (35º)	Inlet	45	52	57	62	65	66	67	61	72
HMA 45 T4 (A0:6) (40º)	Inlet	47	54	60	63	66	67	68	61	73
HMA 45 T4 (A5:6) (25º)	Inlet	45	50	57	64	63	64	66	59	71
HMA 45 T4 (A5:6) (30º)	Inlet	48	53	60	64	66	67	68	59	73
HMA 45 T4 (A5:6) (35º)	Inlet	50	54	62	63	68	68	69	59	74
HMA 45 T4 (A5:6) (40º)	Inlet	53	56	65	66	70	70	71	62	76
HMA 45 T4 (A5:6) (45º)	Inlet	52	56	64	67	71	71	72	64	77
HMA 50 M4 (A0:6) (35º)	Inlet	46	53	60	63	66	65	67	60	72
HMA 50 M4 (A0:6) (40º)	Inlet	49	56	61	65	69	68	69	62	74
HMA 50 M4 (A5:6) (25º)	Inlet	44	51	56	61	64	66	68	60	72
HMA 50 M4 (A5:6) (30º)	Inlet	47	52	59	63	66	67	70	61	74
HMA 50 M4 (A5:6) (35º)	Inlet	49	54	61	67	69	70	72	63	77
HMA 50 M4 (A5:6) (40º)	Inlet	49	56	61	67	69	70	72	63	77
HMA 50 M4 (A5:6) (45º)	Inlet	52	59	64	72	73	73	75	67	80
HMA 50 T4 (A0:6) (35º)	Inlet	46	53	60	63	66	65	67	60	72

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 50 T4 (A0:6) (40º)	Inlet	49	56	61	65	69	68	69	62	74
HMA 50 T4 (A5:6) (25º)	Inlet	44	51	56	61	64	66	68	60	72
HMA 50 T4 (A5:6) (30º)	Inlet	47	52	59	63	66	67	70	61	74
HMA 50 T4 (A5:6) (35º)	Inlet	49	54	61	67	69	70	72	63	77
HMA 50 T4 (A5:6) (40º)	Inlet	49	56	61	67	69	70	72	63	77
HMA 50 T4 (A5:6) (45º)	Inlet	52	59	64	72	73	73	75	67	80
HMA 56 M4 (A2:6) (20º)	Inlet	46	54	64	73	75	75	76	72	81
HMA 56 M4 (A2:6) (25º)	Inlet	50	57	66	73	75	76	77	72	82
HMA 56 M4 (A2:6) (27,5º)	Inlet	50	58	66	72	74	75	76	71	81
HMA 56 M4 (A2:6) (30º)	Inlet	51	58	65	71	73	75	75	70	80
HMA 56 M4 (A2:6) (32,5º)	Inlet	52	59	65	71	73	75	75	70	80
HMA 56 M4 (A2:6) (35º)	Inlet	52	59	65	70	72	75	75	70	80
HMA 56 M4 (A2:6) (37,5º)	Inlet	53	60	65	71	73	75	76	70	81
HMA 56 M4 (A2:6) (40º)	Inlet	54	61	66	71	73	76	76	69	81
HMA 56 M4 (A2:6) (42,5º)	Inlet	55	60	68	71	74	76	76	70	82
HMA 56 M4 (A2:6) (45º)	Inlet	56	60	68	72	75	77	76	70	82
HMA 56 M4 (A2:9) (20º)	Inlet	53	58	67	73	76	76	77	69	82
HMA 56 M4 (A2:9) (25º)	Inlet	53	58	67	73	76	76	77	70	82
HMA 56 M4 (A2:9) (27,5º)	Inlet	53	58	67	73	76	77	77	71	83
HMA 56 M4 (A2:9) (30º)	Inlet	54	59	68	73	76	77	78	73	83
HMA 56 M4 (A2:9) (32,5º)	Inlet	53	59	68	73	76	77	78	73	83
HMA 56 M4 (A2:9) (35º)	Inlet	52	59	68	73	76	77	79	73	83
HMA 56 M4 (A2:9) (37,5º)	Inlet	53	59	69	73	76	77	78	72	83
HMA 56 M4 (A2:9) (40º)	Inlet	53	59	69	72	76	77	78	72	83
HMA 56 M4 (A2:9) (42,5º)	Inlet	53	60	70	73	76	77	78	72	83
HMA 56 M4 (A2:9) (45º)	Inlet	53	60	71	73	76	77	78	72	83
HMA 56 M4 (A5:6) (20º)	Inlet	66	73	78	79	80	78	76	68	86
HMA 56 M4 (A5:6) (25º)	Inlet	53	62	67	73	75	75	76	67	82
HMA 56 M4 (A5:6) (30º)	Inlet	62	72	79	81	81	79	77	69	87
HMA 56 M4 (A5:6) (35º)	Inlet	50	62	67	73	74	75	76	68	81
HMA 56 M4 (A5:6) (40º)	Inlet	56	69	79	85	84	78	76	67	89
HMA 56 M4 (A5:6) (45º)	Inlet	60	73	88	94	91	80	76	67	96
HMA 56 T4 (A2:6) (20º)	Inlet	46	54	64	73	75	75	76	72	81
HMA 56 T4 (A2:6) (25º)	Inlet	50	57	66	73	75	76	77	72	82
HMA 56 T4 (A2:6) (27,5º)	Inlet	50	58	66	72	74	75	76	71	81
HMA 56 T4 (A2:6) (30º)	Inlet	51	58	65	71	73	75	75	70	80
HMA 56 T4 (A2:6) (32,5º)	Inlet	52	59	65	71	73	75	75	70	80
HMA 56 T4 (A2:6) (35º)	Inlet	52	59	65	70	72	75	75	70	80
HMA 56 T4 (A2:6) (37,5º)	Inlet	53	60	65	71	73	75	76	70	81

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 56 T4 (A2:6) (40º)	Inlet	54	61	66	71	73	76	76	69	81
HMA 56 T4 (A2:6) (42,5º)	Inlet	55	60	68	71	74	76	76	70	82
HMA 56 T4 (A2:6) (45º)	Inlet	56	60	68	72	75	77	76	70	82
HMA 56 T4 (A2:9) (20º)	Inlet	53	58	67	73	76	76	77	69	82
HMA 56 T4 (A2:9) (25º)	Inlet	53	58	67	73	76	76	77	70	82
HMA 56 T4 (A2:9) (27,5º)	Inlet	53	58	67	73	76	77	77	71	83
HMA 56 T4 (A2:9) (30º)	Inlet	54	59	68	73	76	77	78	73	83
HMA 56 T4 (A2:9) (32,5º)	Inlet	53	59	68	73	76	77	78	73	83
HMA 56 T4 (A2:9) (35º)	Inlet	52	59	68	73	76	77	79	73	83
HMA 56 T4 (A2:9) (37,5º)	Inlet	53	59	69	73	76	77	78	72	83
HMA 56 T4 (A2:9) (40º)	Inlet	53	59	69	72	76	77	78	72	83
HMA 56 T4 (A2:9) (42,5º)	Inlet	53	60	70	73	76	77	78	72	83
HMA 56 T4 (A2:9) (45º)	Inlet	53	60	71	73	76	77	78	72	83
HMA 56 T4 (A5:6) (20º)	Inlet	66	73	78	79	80	78	76	68	86
HMA 56 T4 (A5:6) (25º)	Inlet	53	62	67	73	75	75	76	67	82
HMA 56 T4 (A5:6) (30º)	Inlet	62	72	79	81	81	79	77	69	87
HMA 56 T4 (A5:6) (35º)	Inlet	50	62	67	73	74	75	76	68	81
HMA 56 T4 (A5:6) (40º)	Inlet	56	69	79	85	84	78	76	67	89
HMA 56 T4 (A5:6) (45º)	Inlet	60	73	88	94	91	80	76	67	96
HMA 63 M4 (A2:6) (20º)	Inlet	48	51	64	73	73	73	75	70	80
HMA 63 M4 (A2:6) (25º)	Inlet	52	57	67	75	76	77	78	73	83
HMA 63 M4 (A2:6) (27,5º)	Inlet	52	58	67	75	76	77	78	73	83
HMA 63 M4 (A2:6) (30º)	Inlet	53	60	67	73	75	78	78	73	83
HMA 63 M4 (A2:9) (20º)	Inlet	57	60	71	76	78	78	79	74	85
HMA 63 M4 (A2:9) (25º)	Inlet	57	61	70	76	78	78	80	74	85
HMA 63 M4 (A2:9) (27,5º)	Inlet	57	61	70	76	78	79	80	74	85
HMA 63 M4 (A5:6) (20º)	Inlet	69	76	81	82	83	80	79	72	89
HMA 63 M4 (A5:6) (25º)	Inlet	54	63	68	73	77	76	76	70	83
HMA 63 T4 (A2:6) (20º)	Inlet	48	51	64	73	73	73	75	70	80
HMA 63 T4 (A2:6) (25º)	Inlet	52	57	67	75	76	77	78	73	83
HMA 63 T4 (A2:6) (27,5º)	Inlet	52	58	67	75	76	77	78	73	83
HMA 63 T4 (A2:6) (30º)	Inlet	53	60	67	73	75	78	78	73	83
HMA 63 T4 (A2:6) (32,5º)	Inlet	53	61	66	73	75	77	77	72	82
HMA 63 T4 (A2:6) (35º)	Inlet	53	60	65	72	74	77	77	71	82
HMA 63 T4 (A2:6) (37,5º)	Inlet	54	61	67	73	75	77	77	72	82
HMA 63 T4 (A2:6) (40º)	Inlet	55	61	68	73	75	78	77	72	83
HMA 63 T4 (A2:6) (42,5º)	Inlet	57	62	70	74	77	78	78	72	84
HMA 63 T4 (A2:6) (45º)	Inlet	58	62	71	74	78	78	78	72	84
HMA 63 T4 (A2:9) (20º)	Inlet	57	60	71	76	78	78	79	74	85

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 63 T4 (A2:9) (25º)	Inlet	57	61	70	76	78	78	80	74	85
HMA 63 T4 (A2:9) (27,5º)	Inlet	57	61	70	76	78	79	80	74	85
HMA 63 T4 (A2:9) (30º)	Inlet	58	62	70	76	78	80	81	75	86
HMA 63 T4 (A2:9) (32,5º)	Inlet	57	63	70	76	78	80	81	75	86
HMA 63 T4 (A2:9) (35º)	Inlet	57	63	70	77	79	80	81	75	86
HMA 63 T4 (A2:9) (37,5º)	Inlet	57	63	70	76	79	80	81	75	86
HMA 63 T4 (A2:9) (40º)	Inlet	57	63	69	76	79	80	80	76	86
HMA 63 T4 (A2:9) (42,5º)	Inlet	57	64	69	75	78	80	81	75	86
HMA 63 T4 (A2:9) (45º)	Inlet	57	64	69	75	78	80	81	75	86
HMA 63 T4 (A5:6) (20º)	Inlet	69	76	81	82	83	80	79	72	89
HMA 63 T4 (A5:6) (25º)	Inlet	54	63	68	73	77	76	76	70	83
HMA 63 T4 (A5:6) (30º)	Inlet	57	65	75	82	80	79	79	72	87
HMA 63 T4 (A5:6) (35º)	Inlet	53	65	70	74	78	77	79	72	84
HMA 63 T4 (A5:6) (40º)	Inlet	54	66	77	89	86	81	79	71	92
HMA 63 T4 (A5:6) (45º)	Inlet	55	66	82	100	92	84	79	71	100
HMA 71 M4 (A2:6) (20º)	Inlet	55	60	72	79	83	82	84	77	89
HMA 71 M4 (A2:6) (25º)	Inlet	56	62	71	78	81	82	83	77	88
HMA 71 M4 (A2:9) (20º)	Inlet	60	66	76	82	85	85	86	79	91
HMA 71 M4 (A5:6) (20º)	Inlet	71	78	83	85	85	83	82	75	92
HMA 71 T4 (A2:6) (20º)	Inlet	55	60	72	79	83	82	84	77	89
HMA 71 T4 (A2:6) (25º)	Inlet	56	62	71	78	81	82	83	77	88
HMA 71 T4 (A2:6) (27,5º)	Inlet	57	63	71	78	80	82	82	77	87
HMA 71 T4 (A2:6) (30º)	Inlet	58	64	70	77	79	81	81	77	87
HMA 71 T4 (A2:6) (32,5º)	Inlet	57	64	70	76	78	80	81	75	86
HMA 71 T4 (A2:6) (35º)	Inlet	57	64	69	75	77	80	80	74	85
HMA 71 T4 (A2:6) (37,5º)	Inlet	58	65	70	76	78	80	80	74	85
HMA 71 T4 (A2:6) (40º)	Inlet	59	66	72	76	79	81	80	74	86
HMA 71 T4 (A2:6) (42,5º)	Inlet	61	66	73	77	80	81	80	74	86
HMA 71 T4 (A2:6) (45º)	Inlet	61	66	74	77	80	81	80	74	86
HMA 71 T4 (A2:9) (20º)	Inlet	60	66	76	82	85	85	86	79	91
HMA 71 T4 (A2:9) (25º)	Inlet	60	66	74	81	83	84	85	79	90
HMA 71 T4 (A2:9) (27,5º)	Inlet	60	66	74	80	83	83	85	78	90
HMA 71 T4 (A2:9) (30º)	Inlet	60	67	72	79	82	83	84	78	89
HMA 71 T4 (A2:9) (32,5º)	Inlet	60	67	72	79	82	83	83	78	89
HMA 71 T4 (A2:9) (35º)	Inlet	59	66	72	79	82	84	83	77	89
HMA 71 T4 (A2:9) (37,5º)	Inlet	60	67	73	79	82	84	83	77	89
HMA 71 T4 (A2:9) (40º)	Inlet	61	68	74	78	82	84	83	78	89
HMA 71 T4 (A2:9) (42,5º)	Inlet	60	68	73	78	81	83	83	76	88
HMA 71 T4 (A2:9) (45º)	Inlet	60	67	73	78	81	83	82	76	88

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 71 T4 (A5:6) (20º)	Inlet	71	78	83	85	85	83	82	75	92
HMA 71 T4 (A5:6) (25º)	Inlet	58	68	74	78	81	82	82	73	88
HMA 71 T4 (A5:6) (30º)	Inlet	60	68	75	81	82	81	81	72	87
HMA 71 T4 (A5:6) (35º)	Inlet	53	65	70	75	78	79	80	71	84
HMA 71 T4 (A5:6) (40º)	Inlet	57	68	83	92	88	83	81	72	95
HMA 71 T4 (A5:6) (45º)	Inlet	61	70	92	105	96	87	83	72	105
HMA 80 T4 (A2:6) (20º)	Inlet	54	61	72	79	83	83	84	79	89
HMA 80 T4 (A2:6) (25º)	Inlet	57	64	72	79	82	83	84	79	89
HMA 80 T4 (A2:6) (27,5º)	Inlet	58	65	72	79	82	84	84	78	89
HMA 80 T4 (A2:6) (30º)	Inlet	59	67	72	78	82	84	84	78	89
HMA 80 T4 (A2:6) (32,5º)	Inlet	60	68	73	78	82	84	84	77	89
HMA 80 T4 (A2:6) (35º)	Inlet	61	68	74	78	81	84	84	77	89
HMA 80 T4 (A2:6) (37,5º)	Inlet	62	69	74	78	81	83	83	76	88
HMA 80 T4 (A2:6) (40º)	Inlet	61	69	75	78	81	82	82	75	88
HMA 80 T4 (A2:6) (42,5º)	Inlet	62	69	75	78	82	83	82	75	88
HMA 80 T4 (A2:6) (45º)	Inlet	62	69	76	79	82	83	82	75	88
HMA 80 T4 (A2:9) (20º)	Inlet	59	72	78	89	91	90	92	83	97
HMA 80 T4 (A2:9) (25º)	Inlet	61	71	77	86	89	89	90	83	95
HMA 80 T4 (A2:9) (27,5º)	Inlet	62	71	76	85	88	88	89	82	94
HMA 80 T4 (A2:9) (30º)	Inlet	63	70	76	84	87	88	88	82	93
HMA 80 T4 (A2:9) (32,5º)	Inlet	63	70	75	82	86	87	87	81	93
HMA 80 T4 (A2:9) (35º)	Inlet	62	69	75	81	85	87	86	80	92
HMA 80 T4 (A2:9) (37,5º)	Inlet	63	70	76	81	85	87	86	79	91
HMA 80 T4 (A2:9) (40º)	Inlet	64	71	76	80	84	86	85	79	91
HMA 80 T4 (A2:9) (42,5º)	Inlet	64	71	77	80	84	85	84	78	90
HMA 80 T4 (A2:9) (45º)	Inlet	64	71	77	80	84	85	84	78	90
HMA 80 T4 (A5:6) (20º)	Inlet	74	81	86	88	88	86	85	78	94
HMA 80 T4 (A5:6) (25º)	Inlet	61	68	74	79	81	81	82	74	88
HMA 80 T4 (A5:6) (30º)	Inlet	61	72	79	89	87	85	85	77	93
HMA 80 T4 (A5:6) (35º)	Inlet	58	70	76	84	89	87	87	78	94
HMA 80 T4 (A5:6) (40º)	Inlet	59	72	88	93	90	86	84	76	97
HMA 90 T4 (A6:3) (20º)	Inlet	60	63	72	74	79	81	84	77	87
HMA 90 T4 (A6:3) (22º)	Inlet	61	65	74	77	81	82	85	79	89
HMA 90 T4 (A6:3) (24º)	Inlet	62	66	75	79	82	83	86	80	90
HMA 90 T4 (A6:3) (26º)	Inlet	63	68	76	80	83	84	86	81	91
HMA 90 T4 (A6:3) (28º)	Inlet	64	69	77	82	84	86	87	81	92
HMA 90 T4 (A6:3) (30º)	Inlet	65	71	78	84	85	87	88	82	93
HMA 90 T4 (A6:3) (32º)	Inlet	65	71	78	85	86	87	88	83	93
HMA 90 T4 (A6:3) (34º)	Inlet	65	72	79	86	87	88	89	83	94

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 90 T4 (A6:3) (36º)	Inlet	65	72	80	87	87	89	89	83	95
HMA 90 T4 (A6:3) (38º)	Inlet	66	73	81	88	89	90	90	85	96
HMA 90 T4 (A6:3) (40º)	Inlet	66	74	81	89	90	91	91	85	97
HMA 90 T4 (A6:3) (42º)	Inlet	66	75	82	90	91	92	92	86	98
HMA 90 T4 (A6:6) (20º)	Inlet	65	75	81	88	92	90	91	86	97
HMA 90 T4 (A6:6) (22º)	Inlet	65	75	82	89	92	91	91	86	97
HMA 90 T4 (A6:6) (24º)	Inlet	66	76	82	89	92	91	92	87	98
HMA 90 T4 (A6:6) (26º)	Inlet	67	77	83	90	92	92	92	87	98
HMA 90 T4 (A6:6) (28º)	Inlet	68	77	83	90	92	92	93	88	98
HMA 90 T4 (A6:6) (30º)	Inlet	69	78	83	90	92	92	93	88	99
HMA 90 T4 (A6:6) (32º)	Inlet	67	76	82	88	90	91	92	87	97
HMA 90 T4 (A6:6) (34º)	Inlet	66	75	80	87	88	89	91	85	95
HMA 90 T4 (A6:6) (36º)	Inlet	66	75	80	86	87	89	90	85	95
HMA 90 T4 (A6:6) (38º)	Inlet	67	75	81	87	88	89	91	85	96
HMA 90 T4 (A6:6) (40º)	Inlet	67	76	82	87	89	90	91	85	96
HMA 90 T4 (A6:6) (42º)	Inlet	68	77	83	88	89	90	91	85	96
HMA 100 T4 (A6:3) (20º)	Inlet	64	71	76	81	87	88	92	84	95
HMA 100 T4 (A6:3) (22º)	Inlet	65	72	78	82	87	89	92	85	95
HMA 100 T4 (A6:3) (24º)	Inlet	65	72	78	83	87	89	91	84	95
HMA 100 T4 (A6:3) (26º)	Inlet	65	72	78	83	87	88	90	84	94
HMA 100 T4 (A6:3) (28º)	Inlet	65	72	78	83	86	88	90	83	94
HMA 100 T4 (A6:3) (30º)	Inlet	66	72	78	84	86	87	89	83	94
HMA 100 T4 (A6:3) (32º)	Inlet	67	73	80	85	87	89	90	84	95
HMA 100 T4 (A6:3) (34º)	Inlet	69	74	82	87	89	90	90	85	96
HMA 100 T4 (A6:3) (36º)	Inlet	69	75	82	88	89	91	91	86	96
HMA 100 T4 (A6:3) (38º)	Inlet	69	76	82	89	90	91	91	86	97
HMA 100 T4 (A6:3) (40º)	Inlet	69	76	83	89	91	92	92	87	98
HMA 100 T4 (A6:3) (42º)	Inlet	69	77	83	90	92	93	93	88	98
HMA 100 T4 (A6:6) (20º)	Inlet	68	80	85	95	96	95	95	91	102
HMA 100 T4 (A6:6) (22º)	Inlet	69	80	85	94	95	95	95	91	101
HMA 100 T4 (A6:6) (24º)	Inlet	70	80	85	94	95	95	95	91	101
HMA 100 T4 (A6:6) (26º)	Inlet	71	80	86	94	95	95	96	91	102
HMA 100 T4 (A6:6) (28º)	Inlet	72	81	87	94	95	96	96	92	102
HMA 100 T4 (A6:6) (30º)	Inlet	73	81	88	94	95	96	97	92	102
HMA 100 T4 (A6:6) (32º)	Inlet	72	80	87	92	93	94	95	90	101
HMA 100 T4 (A6:6) (34º)	Inlet	71	79	86	90	92	93	94	89	99
HMA 100 T4 (A6:6) (36º)	Inlet	71	79	86	89	92	92	94	88	99
HMA 100 T4 (A6:6) (38º)	Inlet	72	80	86	90	92	93	94	89	99
HMA 100 T4 (A6:6) (40º)	Inlet	72	80	87	91	93	94	95	89	100

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 100 T4 (A6:6) (42º)	Inlet	72	80	87	91	93	94	95	89	100
HMA 112 T4 (A6:3) (20º)	Inlet	67	74	80	86	91	93	94	89	99
HMA 112 T4 (A6:3) (22º)	Inlet	68	75	81	87	92	93	95	90	99
HMA 112 T4 (A6:3) (24º)	Inlet	70	77	82	88	92	93	95	90	100
HMA 112 T4 (A6:3) (26º)	Inlet	70	77	83	89	92	93	95	90	100
HMA 112 T4 (A6:3) (28º)	Inlet	71	77	84	89	92	93	95	90	100
HMA 112 T4 (A6:3) (30º)	Inlet	71	76	84	89	91	92	95	89	99
HMA 112 T4 (A6:3) (32º)	Inlet	72	77	84	89	92	93	94	89	99
HMA 112 T4 (A6:3) (34º)	Inlet	72	77	85	90	92	93	94	90	99
HMA 112 T4 (A6:3) (36º)	Inlet	73	78	85	90	92	93	94	90	99
HMA 112 T4 (A6:3) (38º)	Inlet	73	78	85	91	93	94	94	90	100
HMA 112 T4 (A6:3) (40º)	Inlet	72	79	85	91	93	94	94	90	100
HMA 112 T4 (A6:3) (42º)	Inlet	73	79	85	91	94	95	95	90	100
HMA 112 T4 (A6:6) (20º)	Inlet	69	80	86	97	98	97	98	93	104
HMA 112 T4 (A6:6) (22º)	Inlet	70	80	86	96	98	97	98	92	104
HMA 112 T4 (A6:6) (24º)	Inlet	71	80	86	95	97	96	97	91	103
HMA 112 T4 (A6:6) (26º)	Inlet	72	81	87	95	97	97	98	92	103
HMA 112 T4 (A6:6) (28º)	Inlet	73	82	87	95	97	97	98	91	103
HMA 112 T4 (A6:6) (30º)	Inlet	74	82	87	94	96	97	98	91	103
HMA 112 T4 (A6:6) (32º)	Inlet	74	81	87	92	95	96	97	90	102
HMA 112 T4 (A6:6) (34º)	Inlet	73	81	86	90	94	95	96	89	101
HMA 112 T4 (A6:6) (36º)	Inlet	74	82	87	90	94	96	96	89	101
HMA 112 T4 (A6:6) (38º)	Inlet	76	83	89	92	95	97	97	90	102
HMA 112 T4 (A6:6) (40º)	Inlet	78	84	91	94	97	98	99	92	104
HMA 112 T4 (A6:6) (42º)	Inlet	78	83	91	94	97	98	98	92	104
HMA 125 T4 (A7:4) (20º)	Inlet	72	85	90	97	101	102	103	100	108
HMA 125 T4 (A7:4) (22º)	Inlet	74	86	92	98	101	103	104	100	109
HMA 125 T4 (A7:4) (24º)	Inlet	75	84	90	96	99	101	102	98	107
HMA 125 T4 (A7:4) (26º)	Inlet	75	83	89	94	98	99	100	95	105
HMA 125 T4 (A7:4) (28º)	Inlet	75	82	88	92	96	98	99	93	103
HMA 125 T4 (A7:4) (30º)	Inlet	73	81	86	90	94	96	96	90	101
HMA 125 T4 (A7:4) (32º)	Inlet	73	80	86	90	93	95	96	89	101
HMA 125 T4 (A7:4) (34º)	Inlet	73	80	86	90	93	95	96	88	100
HMA 125 T4 (A7:4) (36º)	Inlet	73	81	86	90	93	95	96	88	101
HMA 125 T4 (A7:4) (38º)	Inlet	74	82	87	91	94	96	96	89	101
HMA 125 T4 (A7:4) (40º)	Inlet	75	82	88	91	94	97	96	89	102
HMA 125 T4 (A7:4) (42º)	Inlet	75	83	88	92	95	97	97	90	102
HMA 125 T4 (A7:8) (20º)	Inlet	77	85	92	100	106	110	108	103	114
HMA 125 T4 (A7:8) (22º)	Inlet	77	84	92	99	105	109	107	102	113

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 125 T4 (A7:8) (24º)	Inlet	77	84	91	98	104	107	106	100	111
HMA 125 T4 (A7:8) (26º)	Inlet	77	83	91	97	102	106	105	99	110
HMA 125 T4 (A7:8) (28º)	Inlet	77	83	90	96	101	105	104	98	109
HMA 125 T4 (A7:8) (30º)	Inlet	76	82	89	95	99	103	102	96	107
HMA 125 T4 (A7:8) (32º)	Inlet	76	83	89	94	99	101	101	94	106
HMA 125 T4 (A7:8) (34º)	Inlet	77	83	90	94	98	100	100	92	105
HMA 125 T4 (A7:8) (36º)	Inlet	77	83	90	94	97	99	99	91	104
HMA 125 T4 (A7:8) (38º)	Inlet	77	84	90	94	97	99	98	91	104
HMA 125 T4 (A7:8) (40º)	Inlet	76	83	89	93	97	99	97	91	103
HMA 125 T4 (A7:8) (42º)	Inlet	76	83	89	94	97	99	97	90	103

Sound / 6 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 35 T6 (A0:6) (35º)	Inlet	30	38	44	47	50	51	52	47	57
HMA 35 T6 (A0:6) (40º)	Inlet	31	39	45	49	52	53	54	48	59
HMA 40 T6 (A0:6) (35º)	Inlet	33	41	46	49	53	55	56	48	60
HMA 40 T6 (A0:6) (40º)	Inlet	37	44	50	53	56	57	58	51	63
HMA 45 T6 (A0:6) (35º)	Inlet	35	42	48	52	56	56	58	51	63
HMA 45 T6 (A0:6) (40º)	Inlet	37	45	50	54	57	58	58	52	64
HMA 45 T6 (A5:6) (25º)	Inlet	36	41	48	55	53	55	57	49	62
HMA 45 T6 (A5:6) (30º)	Inlet	39	44	51	55	57	58	59	50	64
HMA 45 T6 (A5:6) (35º)	Inlet	40	44	52	53	58	58	60	49	65
HMA 45 T6 (A5:6) (40º)	Inlet	43	47	55	57	60	60	62	53	67
HMA 45 T6 (A5:6) (45º)	Inlet	42	46	54	58	61	62	63	55	68
HMA 50 T6 (A0:6) (35º)	Inlet	36	44	51	53	56	56	57	50	63
HMA 50 T6 (A0:6) (40º)	Inlet	39	47	52	56	59	58	60	53	65
HMA 50 T6 (A5:6) (25º)	Inlet	35	42	47	52	54	57	59	51	63
HMA 50 T6 (A5:6) (30º)	Inlet	38	43	50	54	57	58	61	52	65
HMA 50 T6 (A5:6) (35º)	Inlet	39	44	51	58	60	61	63	54	67
HMA 50 T6 (A5:6) (40º)	Inlet	40	47	52	58	60	61	63	54	67
HMA 50 T6 (A5:6) (45º)	Inlet	43	50	55	63	64	64	66	58	71
HMA 56 T6 (A2:6) (20º)	Inlet	36	45	55	64	65	66	67	62	72
HMA 56 T6 (A2:6) (25º)	Inlet	40	48	56	63	66	66	67	62	73
HMA 56 T6 (A2:6) (27,5º)	Inlet	41	48	56	63	65	66	67	62	72
HMA 56 T6 (A2:6) (30º)	Inlet	42	49	56	61	63	65	66	60	71
HMA 56 T6 (A2:6) (32,5º)	Inlet	43	50	55	61	63	65	66	60	71

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 56 T6 (A2:6) (35º)	Inlet	43	50	55	61	63	66	66	60	71
HMA 56 T6 (A2:6) (37,5º)	Inlet	43	51	56	61	64	66	66	60	71
HMA 56 T6 (A2:6) (40º)	Inlet	44	51	57	62	64	66	67	60	72
HMA 56 T6 (A2:6) (42,5º)	Inlet	46	51	58	62	65	67	67	61	72
HMA 56 T6 (A2:6) (45º)	Inlet	46	50	59	62	65	67	67	61	72
HMA 56 T6 (A2:9) (20º)	Inlet	44	49	58	64	67	67	67	59	73
HMA 56 T6 (A2:9) (25º)	Inlet	44	49	58	63	67	67	68	61	73
HMA 56 T6 (A2:9) (27,5º)	Inlet	44	49	58	63	67	67	68	62	73
HMA 56 T6 (A2:9) (30º)	Inlet	44	49	58	64	67	68	69	63	74
HMA 56 T6 (A2:9) (32,5º)	Inlet	44	49	58	64	67	68	69	63	74
HMA 56 T6 (A2:9) (35º)	Inlet	43	49	59	64	67	68	69	63	74
HMA 56 T6 (A2:9) (37,5º)	Inlet	43	50	59	63	67	68	69	63	74
HMA 56 T6 (A2:9) (40º)	Inlet	43	50	59	63	67	67	68	63	73
HMA 56 T6 (A2:9) (42,5º)	Inlet	44	50	61	63	67	68	68	63	74
HMA 56 T6 (A2:9) (45º)	Inlet	44	50	62	64	66	68	68	63	74
HMA 56 T6 (A5:6) (20º)	Inlet	63	70	75	76	77	75	73	65	82
HMA 56 T6 (A5:6) (25º)	Inlet	50	59	64	70	72	72	73	64	78
HMA 56 T6 (A5:6) (30º)	Inlet	58	68	75	77	78	76	74	66	83
HMA 56 T6 (A5:6) (35º)	Inlet	47	58	63	69	70	71	72	64	78
HMA 56 T6 (A5:6) (40º)	Inlet	53	66	76	81	81	75	73	64	85
HMA 56 T6 (A5:6) (45º)	Inlet	57	69	84	90	88	77	73	63	93
HMA 63 T6 (A2:6) (20º)	Inlet	39	42	55	64	64	64	66	60	71
HMA 63 T6 (A2:6) (25º)	Inlet	43	48	58	66	67	68	69	64	74
HMA 63 T6 (A2:6) (27,5º)	Inlet	43	49	58	65	67	68	69	64	74
HMA 63 T6 (A2:6) (30º)	Inlet	43	50	57	64	66	68	68	63	73
HMA 63 T6 (A2:6) (32,5º)	Inlet	44	51	57	63	65	68	68	63	73
HMA 63 T6 (A2:6) (35º)	Inlet	43	50	56	63	65	67	68	62	73
HMA 63 T6 (A2:6) (37,5º)	Inlet	45	52	57	63	65	68	68	62	73
HMA 63 T6 (A2:6) (40º)	Inlet	46	52	58	64	66	68	68	62	73
HMA 63 T6 (A2:6) (42,5º)	Inlet	48	53	60	64	68	69	68	63	74
HMA 63 T6 (A2:6) (45º)	Inlet	49	53	61	65	68	69	69	63	75
HMA 63 T6 (A2:9) (20º)	Inlet	47	50	62	67	69	68	70	64	75
HMA 63 T6 (A2:9) (25º)	Inlet	47	51	61	66	68	69	70	65	75
HMA 63 T6 (A2:9) (27,5º)	Inlet	48	52	61	67	69	69	70	65	76
HMA 63 T6 (A2:9) (30º)	Inlet	48	53	61	67	69	70	71	66	76
HMA 63 T6 (A2:9) (32,5º)	Inlet	48	53	61	67	69	71	71	66	76
HMA 63 T6 (A2:9) (35º)	Inlet	47	54	61	67	69	71	72	66	77
HMA 63 T6 (A2:9) (37,5º)	Inlet	48	54	60	67	69	71	71	66	76
HMA 63 T6 (A2:9) (40º)	Inlet	47	54	60	66	69	71	71	66	76

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 63 T6 (A2:9) (42,5º)	Inlet	47	54	60	66	69	71	71	66	76
HMA 63 T6 (A2:9) (45º)	Inlet	47	54	60	66	69	71	71	65	76
HMA 63 T6 (A5:6) (20º)	Inlet	66	73	78	79	80	77	76	69	85
HMA 63 T6 (A5:6) (25º)	Inlet	51	60	65	70	74	73	73	67	79
HMA 63 T6 (A5:6) (30º)	Inlet	54	62	72	79	77	76	76	69	83
HMA 63 T6 (A5:6) (35º)	Inlet	50	62	67	71	75	74	76	69	81
HMA 63 T6 (A5:6) (40º)	Inlet	51	63	74	86	83	78	76	68	88
HMA 63 T6 (A5:6) (45º)	Inlet	52	63	79	96	88	81	76	67	97
HMA 71 T6 (A2:6) (20º)	Inlet	45	51	63	70	73	72	75	68	79
HMA 71 T6 (A2:6) (25º)	Inlet	47	53	62	69	72	72	73	68	78
HMA 71 T6 (A2:6) (27,5º)	Inlet	47	54	62	69	71	72	73	68	78
HMA 71 T6 (A2:6) (30º)	Inlet	48	55	61	68	70	72	72	67	77
HMA 71 T6 (A2:6) (32,5º)	Inlet	48	55	60	67	69	71	71	66	76
HMA 71 T6 (A2:6) (35º)	Inlet	47	54	60	65	68	70	70	64	75
HMA 71 T6 (A2:6) (37,5º)	Inlet	48	55	61	66	69	71	71	64	76
HMA 71 T6 (A2:6) (40º)	Inlet	49	56	62	67	70	71	71	65	77
HMA 71 T6 (A2:6) (42,5º)	Inlet	51	56	64	67	70	71	71	65	77
HMA 71 T6 (A2:6) (45º)	Inlet	52	56	64	67	71	71	71	64	77
HMA 71 T6 (A2:9) (20º)	Inlet	50	57	66	73	76	75	77	70	82
HMA 71 T6 (A2:9) (25º)	Inlet	50	57	65	71	74	74	76	69	81
HMA 71 T6 (A2:9) (27,5º)	Inlet	50	57	64	71	73	74	75	69	80
HMA 71 T6 (A2:9) (30º)	Inlet	50	57	63	70	72	73	74	69	79
HMA 71 T6 (A2:9) (32,5º)	Inlet	50	57	63	70	72	74	74	68	79
HMA 71 T6 (A2:9) (35º)	Inlet	50	57	62	69	73	74	74	68	79
HMA 71 T6 (A2:9) (37,5º)	Inlet	51	58	63	69	73	74	74	68	79
HMA 71 T6 (A2:9) (40º)	Inlet	52	59	64	69	73	74	74	68	79
HMA 71 T6 (A2:9) (42,5º)	Inlet	51	58	64	69	72	73	73	67	79
HMA 71 T6 (A2:9) (45º)	Inlet	50	58	64	69	72	73	73	67	78
HMA 71 T6 (A5:6) (20º)	Inlet	68	75	80	82	82	80	79	72	88
HMA 71 T6 (A5:6) (25º)	Inlet	55	65	71	75	78	79	79	70	84
HMA 71 T6 (A5:6) (30º)	Inlet	57	65	71	77	78	78	77	68	84
HMA 71 T6 (A5:6) (35º)	Inlet	49	61	66	71	74	75	76	67	81
HMA 71 T6 (A5:6) (40º)	Inlet	54	64	79	89	85	80	78	68	91
HMA 71 T6 (A5:6) (45º)	Inlet	57	66	88	101	92	83	79	69	102
HMA 80 T6 (A2:6) (20º)	Inlet	44	51	62	70	74	73	75	70	80
HMA 80 T6 (A2:6) (25º)	Inlet	48	55	63	70	73	74	75	69	80
HMA 80 T6 (A2:6) (27,5º)	Inlet	49	56	63	69	73	74	75	69	80
HMA 80 T6 (A2:6) (30º)	Inlet	50	57	63	69	72	74	75	68	80
HMA 80 T6 (A2:6) (32,5º)	Inlet	51	58	64	69	72	74	74	68	79

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 80 T6 (A2:6) (35º)	Inlet	52	59	65	69	72	74	74	67	79
HMA 80 T6 (A2:6) (37,5º)	Inlet	52	59	65	69	72	74	73	66	79
HMA 80 T6 (A2:6) (40º)	Inlet	52	60	65	68	72	73	72	66	78
HMA 80 T6 (A2:6) (42,5º)	Inlet	52	60	66	69	72	73	73	66	79
HMA 80 T6 (A2:6) (45º)	Inlet	52	60	66	69	72	73	73	66	79
HMA 80 T6 (A2:9) (20º)	Inlet	50	62	68	80	82	80	82	74	87
HMA 80 T6 (A2:9) (25º)	Inlet	52	62	67	77	79	79	80	73	85
HMA 80 T6 (A2:9) (27,5º)	Inlet	53	61	67	76	79	79	80	73	85
HMA 80 T6 (A2:9) (30º)	Inlet	54	61	66	74	77	78	79	73	84
HMA 80 T6 (A2:9) (32,5º)	Inlet	53	60	66	73	77	78	78	71	83
HMA 80 T6 (A2:9) (35º)	Inlet	53	60	65	72	76	78	77	70	82
HMA 80 T6 (A2:9) (37,5º)	Inlet	54	61	66	71	75	77	76	70	82
HMA 80 T6 (A2:9) (40º)	Inlet	54	62	67	71	75	77	76	70	82
HMA 80 T6 (A2:9) (42,5º)	Inlet	54	62	68	71	74	76	75	69	81
HMA 80 T6 (A2:9) (45º)	Inlet	54	62	68	71	74	76	74	68	81
HMA 80 T6 (A5:6) (20º)	Inlet	71	78	83	85	85	83	82	75	91
HMA 80 T6 (A5:6) (25º)	Inlet	58	65	71	76	78	78	79	71	84
HMA 80 T6 (A5:6) (30º)	Inlet	58	69	76	86	84	82	82	74	90
HMA 80 T6 (A5:6) (35º)	Inlet	55	67	73	81	86	84	84	75	90
HMA 80 T6 (A5:6) (40º)	Inlet	56	69	85	90	87	83	81	73	93
HMA 80 T6 (A5:6) (45º)	Inlet	56	70	93	96	87	82	79	71	98
HMA 90 T6 (A6:3) (20º)	Inlet	50	54	63	65	70	71	74	68	78
HMA 90 T6 (A6:3) (22º)	Inlet	52	55	64	67	71	73	75	69	79
HMA 90 T6 (A6:3) (24º)	Inlet	53	57	65	69	72	74	76	70	80
HMA 90 T6 (A6:3) (26º)	Inlet	54	58	66	71	74	75	77	71	81
HMA 90 T6 (A6:3) (28º)	Inlet	55	60	67	73	75	76	78	72	82
HMA 90 T6 (A6:3) (30º)	Inlet	55	61	68	75	76	77	79	73	83
HMA 90 T6 (A6:3) (32º)	Inlet	56	62	69	76	77	78	79	73	84
HMA 90 T6 (A6:3) (34º)	Inlet	56	62	69	77	77	79	79	73	85
HMA 90 T6 (A6:3) (36º)	Inlet	56	63	70	78	78	79	80	74	85
HMA 90 T6 (A6:3) (38º)	Inlet	56	64	71	79	79	81	81	75	86
HMA 90 T6 (A6:3) (40º)	Inlet	56	65	72	80	80	82	82	76	87
HMA 90 T6 (A6:3) (42º)	Inlet	57	65	73	80	81	83	82	77	88
HMA 90 T6 (A6:6) (20º)	Inlet	55	65	72	79	83	81	81	76	88
HMA 90 T6 (A6:6) (22º)	Inlet	56	66	72	79	83	81	82	77	88
HMA 90 T6 (A6:6) (24º)	Inlet	57	67	73	80	83	82	82	78	88
HMA 90 T6 (A6:6) (26º)	Inlet	58	67	73	80	83	82	83	78	89
HMA 90 T6 (A6:6) (28º)	Inlet	59	68	74	80	82	82	83	79	89
HMA 90 T6 (A6:6) (30º)	Inlet	59	68	74	81	82	83	84	79	89

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 90 T6 (A6:6) (32º)	Inlet	58	67	72	79	80	81	82	77	88
HMA 90 T6 (A6:6) (34º)	Inlet	57	65	71	77	79	80	81	76	86
HMA 90 T6 (A6:6) (36º)	Inlet	56	65	71	77	78	79	81	75	86
HMA 90 T6 (A6:6) (38º)	Inlet	57	66	71	77	79	80	81	75	86
HMA 90 T6 (A6:6) (40º)	Inlet	58	67	72	78	79	80	82	76	87
HMA 90 T6 (A6:6) (42º)	Inlet	58	67	73	78	80	81	82	76	87
HMA 100 T6 (A6:3) (20º)	Inlet	54	61	67	72	77	79	82	75	85
HMA 100 T6 (A6:3) (22º)	Inlet	55	63	68	73	78	79	83	75	86
HMA 100 T6 (A6:3) (24º)	Inlet	56	63	68	73	78	79	82	75	86
HMA 100 T6 (A6:3) (26º)	Inlet	56	63	68	74	77	79	81	74	85
HMA 100 T6 (A6:3) (28º)	Inlet	56	62	68	74	77	78	80	74	84
HMA 100 T6 (A6:3) (30º)	Inlet	56	62	69	74	77	78	79	74	84
HMA 100 T6 (A6:3) (32º)	Inlet	58	64	70	76	78	79	80	75	85
HMA 100 T6 (A6:3) (34º)	Inlet	59	65	72	77	79	80	81	76	86
HMA 100 T6 (A6:3) (36º)	Inlet	60	66	73	78	80	81	81	76	87
HMA 100 T6 (A6:3) (38º)	Inlet	60	66	73	79	81	82	82	77	88
HMA 100 T6 (A6:3) (40º)	Inlet	60	67	73	80	82	82	82	77	88
HMA 100 T6 (A6:3) (42º)	Inlet	60	68	74	80	83	83	83	78	89
HMA 100 T6 (A6:6) (20º)	Inlet	59	70	76	86	86	86	86	82	93
HMA 100 T6 (A6:6) (22º)	Inlet	59	70	76	85	86	86	86	81	92
HMA 100 T6 (A6:6) (24º)	Inlet	60	70	76	84	85	85	86	81	92
HMA 100 T6 (A6:6) (26º)	Inlet	62	71	77	85	86	86	86	82	92
HMA 100 T6 (A6:6) (28º)	Inlet	63	72	78	85	86	86	87	82	93
HMA 100 T6 (A6:6) (30º)	Inlet	64	72	78	84	85	86	87	82	93
HMA 100 T6 (A6:6) (32º)	Inlet	63	71	77	82	84	85	86	81	91
HMA 100 T6 (A6:6) (34º)	Inlet	62	70	76	80	83	83	85	79	90
HMA 100 T6 (A6:6) (36º)	Inlet	62	70	76	80	82	83	84	79	89
HMA 100 T6 (A6:6) (38º)	Inlet	62	70	77	80	83	84	85	79	90
HMA 100 T6 (A6:6) (40º)	Inlet	63	71	77	81	84	85	85	80	91
HMA 100 T6 (A6:6) (42º)	Inlet	63	71	77	81	84	85	85	79	91
HMA 112 T6 (A6:3) (20º)	Inlet	58	65	70	77	82	83	85	80	89
HMA 112 T6 (A6:3) (22º)	Inlet	59	66	72	78	82	84	85	80	90
HMA 112 T6 (A6:3) (24º)	Inlet	60	67	73	79	83	84	86	81	90
HMA 112 T6 (A6:3) (26º)	Inlet	61	67	74	79	83	84	86	81	90
HMA 112 T6 (A6:3) (28º)	Inlet	62	67	74	79	83	84	86	81	90
HMA 112 T6 (A6:3) (30º)	Inlet	62	67	74	79	82	83	85	80	90
HMA 112 T6 (A6:3) (32º)	Inlet	62	67	75	80	82	83	85	80	90
HMA 112 T6 (A6:3) (34º)	Inlet	63	68	75	80	82	83	85	80	90
HMA 112 T6 (A6:3) (36º)	Inlet	63	68	76	81	83	84	85	80	90

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 112 T6 (A6:3) (38º)	Inlet	63	69	76	81	83	84	85	80	90
HMA 112 T6 (A6:3) (40º)	Inlet	63	69	75	81	84	85	85	80	90
HMA 112 T6 (A6:3) (42º)	Inlet	63	70	76	82	84	85	85	81	91
HMA 112 T6 (A6:6) (20º)	Inlet	59	71	77	87	89	87	88	83	95
HMA 112 T6 (A6:6) (22º)	Inlet	60	71	77	87	88	87	88	83	94
HMA 112 T6 (A6:6) (24º)	Inlet	61	71	77	86	87	87	88	82	94
HMA 112 T6 (A6:6) (26º)	Inlet	63	71	77	86	87	87	88	82	94
HMA 112 T6 (A6:6) (28º)	Inlet	64	72	78	85	87	88	88	82	94
HMA 112 T6 (A6:6) (30º)	Inlet	65	72	78	85	87	88	88	81	93
HMA 112 T6 (A6:6) (32º)	Inlet	65	72	77	83	85	87	87	80	92
HMA 112 T6 (A6:6) (34º)	Inlet	64	72	77	81	84	86	87	79	91
HMA 112 T6 (A6:6) (36º)	Inlet	65	72	78	81	84	86	87	80	92
HMA 112 T6 (A6:6) (38º)	Inlet	67	74	80	83	86	88	88	81	93
HMA 112 T6 (A6:6) (40º)	Inlet	69	75	81	84	88	89	89	82	94
HMA 112 T6 (A6:6) (42º)	Inlet	69	74	81	84	87	89	89	82	94
HMA 125 T6 (A7:4) (20º)	Inlet	62	76	81	88	92	92	94	91	99
HMA 125 T6 (A7:4) (22º)	Inlet	65	76	82	88	92	93	95	91	99
HMA 125 T6 (A7:4) (24º)	Inlet	65	75	81	86	90	91	93	88	97
HMA 125 T6 (A7:4) (26º)	Inlet	66	74	79	85	88	90	91	86	96
HMA 125 T6 (A7:4) (28º)	Inlet	66	73	78	83	87	88	89	84	94
HMA 125 T6 (A7:4) (30º)	Inlet	64	71	77	81	85	87	87	81	92
HMA 125 T6 (A7:4) (32º)	Inlet	64	71	76	80	84	86	87	80	91
HMA 125 T6 (A7:4) (34º)	Inlet	64	71	76	80	84	85	86	78	91
HMA 125 T6 (A7:4) (36º)	Inlet	64	71	77	81	84	86	86	79	91
HMA 125 T6 (A7:4) (38º)	Inlet	65	72	78	82	84	87	87	80	92
HMA 125 T6 (A7:4) (40º)	Inlet	66	73	78	82	84	87	87	80	92
HMA 125 T6 (A7:4) (42º)	Inlet	66	73	79	83	85	88	87	81	93
HMA 125 T6 (A7:8) (20º)	Inlet	68	76	82	90	97	100	99	94	105
HMA 125 T6 (A7:8) (22º)	Inlet	68	75	82	90	96	99	98	93	104
HMA 125 T6 (A7:8) (24º)	Inlet	67	75	82	88	95	98	97	91	102
HMA 125 T6 (A7:8) (26º)	Inlet	68	74	81	88	94	96	96	90	101
HMA 125 T6 (A7:8) (28º)	Inlet	68	74	81	87	92	95	95	88	100
HMA 125 T6 (A7:8) (30º)	Inlet	67	73	80	85	90	93	93	87	98
HMA 125 T6 (A7:8) (32º)	Inlet	67	73	80	85	89	92	92	85	97
HMA 125 T6 (A7:8) (34º)	Inlet	68	74	80	84	88	90	90	83	95
HMA 125 T6 (A7:8) (36º)	Inlet	68	74	80	84	88	90	89	82	95
HMA 125 T6 (A7:8) (38º)	Inlet	68	75	80	84	88	90	89	82	95
HMA 125 T6 (A7:8) (40º)	Inlet	67	74	80	84	87	90	88	81	94
HMA 125 T6 (A7:8) (42º)	Inlet	67	74	80	84	87	89	87	81	94

Sound / 4/8 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 35 T4/T8 (A0:6) (8p - 35º)	Inlet	23	31	38	41	44	45	46	40	51
HMA 35 T4/T8 (A0:6) (8p - 40º)	Inlet	25	33	39	43	45	46	47	41	52
HMA 35 T4/T8 (A0:6) (4p - 35º)	Inlet	39	47	54	57	60	61	62	56	67
HMA 35 T4/T8 (A0:6) (4p - 40º)	Inlet	41	49	55	59	61	62	63	57	68
HMA 40 T4/T8 (A0:6) (8p - 35º)	Inlet	27	34	40	43	47	48	49	42	54
HMA 40 T4/T8 (A0:6) (8p - 40º)	Inlet	31	37	44	47	50	51	51	45	57
HMA 40 T4/T8 (A0:6) (4p - 35º)	Inlet	43	50	56	59	62	64	65	58	70
HMA 40 T4/T8 (A0:6) (4p - 40º)	Inlet	47	53	59	63	66	67	67	60	72
HMA 45 T4/T8 (A0:6) (8p - 35º)	Inlet	29	36	42	46	49	50	52	45	56
HMA 45 T4/T8 (A0:6) (8p - 40º)	Inlet	31	38	44	48	51	51	52	45	57
HMA 45 T4/T8 (A0:6) (4p - 35º)	Inlet	45	52	57	62	65	66	67	61	72
HMA 45 T4/T8 (A0:6) (4p - 40º)	Inlet	47	54	60	63	66	67	68	61	73
HMA 45 T4/T8 (A5:6) (710 - 25º)	Inlet	29	34	41	48	47	48	50	43	55
HMA 45 T4/T8 (A5:6) (710 - 30º)	Inlet	32	37	44	48	50	51	52	43	57
HMA 45 T4/T8 (A5:6) (710 - 35º)	Inlet	34	38	46	47	52	52	53	43	58
HMA 45 T4/T8 (A5:6) (710 - 40º)	Inlet	37	40	49	50	54	54	55	46	60
HMA 45 T4/T8 (A5:6) (710 - 45º)	Inlet	36	40	48	51	55	55	56	48	61
HMA 45 T4/T8 (A5:6) (4P - 25º)	Inlet	45	50	57	64	63	64	66	59	71
HMA 45 T4/T8 (A5:6) (4P - 30º)	Inlet	48	53	60	64	66	67	68	59	73
HMA 45 T4/T8 (A5:6) (4P - 35º)	Inlet	50	54	62	63	68	68	69	59	74
HMA 45 T4/T8 (A5:6) (4P - 40º)	Inlet	53	56	65	66	70	70	71	62	76
HMA 45 T4/T8 (A5:6) (4P - 45º)	Inlet	52	56	64	67	71	71	72	64	77
HMA 50 T4/T8 (A0:6) (8p - 35º)	Inlet	30	37	44	47	50	49	51	44	56
HMA 50 T4/T8 (A0:6) (8p - 40º)	Inlet	33	40	46	49	53	52	53	46	59
HMA 50 T4/T8 (A0:6) (4p - 35º)	Inlet	46	53	60	63	66	65	67	60	72
HMA 50 T4/T8 (A0:6) (4p - 40º)	Inlet	49	56	61	65	69	68	69	62	74
HMA 50 T4/T8 (A5:6) (710 - 25º)	Inlet	29	35	41	45	48	50	52	44	56
HMA 50 T4/T8 (A5:6) (710 - 30º)	Inlet	31	37	43	47	51	51	55	46	58
HMA 50 T4/T8 (A5:6) (710 - 35º)	Inlet	33	38	45	51	53	54	56	47	61
HMA 50 T4/T8 (A5:6) (710 - 40º)	Inlet	34	41	46	51	53	54	57	48	61
HMA 50 T4/T8 (A5:6) (710 - 45º)	Inlet	37	44	49	56	57	57	59	52	64
HMA 50 T4/T8 (A5:6) (4P - 25º)	Inlet	44	51	56	61	64	66	68	60	72
HMA 50 T4/T8 (A5:6) (4P - 30º)	Inlet	47	52	59	63	66	67	70	61	74
HMA 50 T4/T8 (A5:6) (4P - 35º)	Inlet	49	54	61	67	69	70	72	63	77
HMA 50 T4/T8 (A5:6) (4P - 40º)	Inlet	49	56	61	67	69	70	72	63	77
HMA 50 T4/T8 (A5:6) (4P - 45º)	Inlet	52	59	64	72	73	73	75	67	80
HMA 56 T4/T8 (A2:6) (8p - 20º)	Inlet	30	38	48	57	59	59	60	56	66

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 56 T4/T8 (A2:6) (8p - 25º)	Inlet	34	41	50	57	59	60	61	56	66
HMA 56 T4/T8 (A2:6) (8p - 27,5º)	Inlet	34	42	50	56	59	60	61	55	66
HMA 56 T4/T8 (A2:6) (8p - 30º)	Inlet	35	43	49	55	57	59	60	54	65
HMA 56 T4/T8 (A2:6) (8p - 32,5º)	Inlet	36	44	49	55	57	59	60	54	65
HMA 56 T4/T8 (A2:6) (8p - 35º)	Inlet	36	43	49	55	57	59	60	54	65
HMA 56 T4/T8 (A2:6) (8p - 37,5º)	Inlet	37	44	50	55	57	59	60	54	65
HMA 56 T4/T8 (A2:6) (8p - 40º)	Inlet	38	45	51	55	58	60	60	54	65
HMA 56 T4/T8 (A2:6) (8p - 42,5º)	Inlet	39	44	52	56	59	61	60	54	66
HMA 56 T4/T8 (A2:6) (8p - 45º)	Inlet	40	44	53	56	59	61	60	55	66
HMA 56 T4/T8 (A2:6) (4p - 20º)	Inlet	46	54	64	73	75	75	76	72	81
HMA 56 T4/T8 (A2:6) (4p - 25º)	Inlet	50	57	66	73	75	76	77	72	82
HMA 56 T4/T8 (A2:6) (4p - 27,5º)	Inlet	50	58	66	72	74	75	76	71	81
HMA 56 T4/T8 (A2:6) (4p - 30º)	Inlet	51	58	65	71	73	75	75	70	80
HMA 56 T4/T8 (A2:6) (4p - 32,5º)	Inlet	52	59	65	71	73	75	75	70	80
HMA 56 T4/T8 (A2:6) (4p - 35º)	Inlet	52	59	65	70	72	75	75	70	80
HMA 56 T4/T8 (A2:6) (4p - 37,5º)	Inlet	53	60	65	71	73	75	76	70	81
HMA 56 T4/T8 (A2:6) (4p - 40º)	Inlet	54	61	66	71	73	76	76	69	81
HMA 56 T4/T8 (A2:6) (4p - 42,5º)	Inlet	55	60	68	71	74	76	76	70	82
HMA 56 T4/T8 (A2:6) (4p - 45º)	Inlet	56	60	68	72	75	77	76	70	82
HMA 56 T4/T8 (A2:9) (8p - 20º)	Inlet	37	42	51	57	60	60	61	53	66
HMA 56 T4/T8 (A2:9) (8p - 25º)	Inlet	37	42	51	57	60	60	61	55	66
HMA 56 T4/T8 (A2:9) (8p - 27,5º)	Inlet	37	43	51	57	60	61	62	55	67
HMA 56 T4/T8 (A2:9) (8p - 30º)	Inlet	38	43	52	57	61	61	62	57	67
HMA 56 T4/T8 (A2:9) (8p - 32,5º)	Inlet	37	43	52	57	61	61	63	57	67
HMA 56 T4/T8 (A2:9) (8p - 35º)	Inlet	37	43	52	57	60	61	63	57	67
HMA 56 T4/T8 (A2:9) (8p - 37,5º)	Inlet	37	43	53	57	60	61	62	57	67
HMA 56 T4/T8 (A2:9) (8p - 40º)	Inlet	37	44	53	57	60	61	62	56	67
HMA 56 T4/T8 (A2:9) (8p - 42,5º)	Inlet	37	44	55	57	60	61	62	56	67
HMA 56 T4/T8 (A2:9) (8p - 45º)	Inlet	37	44	55	57	60	62	62	57	67
HMA 56 T4/T8 (A2:9) (4p - 20º)	Inlet	53	58	67	73	76	76	77	69	82
HMA 56 T4/T8 (A2:9) (4p - 25º)	Inlet	53	58	67	73	76	76	77	70	82
HMA 56 T4/T8 (A2:9) (4p - 27,5º)	Inlet	53	58	67	73	76	77	77	71	83
HMA 56 T4/T8 (A2:9) (4p - 30º)	Inlet	54	59	68	73	76	77	78	73	83
HMA 56 T4/T8 (A2:9) (4p - 32,5º)	Inlet	53	59	68	73	76	77	78	73	83
HMA 56 T4/T8 (A2:9) (4p - 35º)	Inlet	52	59	68	73	76	77	79	73	83
HMA 56 T4/T8 (A2:9) (4p - 37,5º)	Inlet	53	59	69	73	76	77	78	72	83
HMA 56 T4/T8 (A2:9) (4p - 40º)	Inlet	53	59	69	72	76	77	78	72	83
HMA 56 T4/T8 (A2:9) (4p - 42,5º)	Inlet	53	60	70	73	76	77	78	72	83
HMA 56 T4/T8 (A2:9) (4p - 45º)	Inlet	53	60	71	73	76	77	78	72	83

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 56 T4/T8 (A5:6) (710 - 20º)	Inlet	50	57	62	63	64	62	60	52	70
HMA 56 T4/T8 (A5:6) (710 - 25º)	Inlet	37	46	51	57	59	59	60	51	66
HMA 56 T4/T8 (A5:6) (710 - 30º)	Inlet	46	56	63	65	65	63	61	53	71
HMA 56 T4/T8 (A5:6) (710 - 35º)	Inlet	34	46	51	57	58	59	60	52	65
HMA 56 T4/T8 (A5:6) (710 - 40º)	Inlet	40	53	63	69	68	62	60	51	73
HMA 56 T4/T8 (A5:6) (710 - 45º)	Inlet	45	57	72	78	75	64	60	51	81
HMA 56 T4/T8 (A5:6) (4p - 20º)	Inlet	66	73	78	79	80	78	76	68	86
HMA 56 T4/T8 (A5:6) (4p - 25º)	Inlet	53	62	67	73	75	75	76	67	82
HMA 56 T4/T8 (A5:6) (4p - 30º)	Inlet	62	72	79	81	81	79	77	69	87
HMA 56 T4/T8 (A5:6) (4p - 35º)	Inlet	50	62	67	73	74	75	76	68	81
HMA 56 T4/T8 (A5:6) (4p - 40º)	Inlet	56	69	79	85	84	78	76	67	89
HMA 56 T4/T8 (A5:6) (4p - 45º)	Inlet	60	73	88	94	91	80	76	67	96
HMA 63 T4/T8 (A2:6) (8p - 20º)	Inlet	33	35	48	57	58	57	59	54	64
HMA 63 T4/T8 (A2:6) (8p - 25º)	Inlet	37	42	51	59	60	61	62	57	68
HMA 63 T4/T8 (A2:6) (8p - 27,5º)	Inlet	37	42	51	59	60	61	62	57	67
HMA 63 T4/T8 (A2:6) (8p - 30º)	Inlet	37	44	51	58	60	62	62	57	67
HMA 63 T4/T8 (A2:6) (8p - 32,5º)	Inlet	37	45	50	57	59	61	62	56	67
HMA 63 T4/T8 (A2:6) (8p - 35º)	Inlet	37	44	50	56	58	61	61	56	66
HMA 63 T4/T8 (A2:6) (8p - 37,5º)	Inlet	38	45	51	57	59	61	61	56	67
HMA 63 T4/T8 (A2:6) (8p - 40º)	Inlet	39	46	52	57	60	62	62	56	67
HMA 63 T4/T8 (A2:6) (8p - 42,5º)	Inlet	41	46	54	58	61	62	62	56	68
HMA 63 T4/T8 (A2:6) (8p - 45º)	Inlet	42	46	55	58	62	62	62	56	68
HMA 63 T4/T8 (A2:6) (4p - 20º)	Inlet	48	51	64	73	73	73	75	70	80
HMA 63 T4/T8 (A2:6) (4p - 25º)	Inlet	52	57	67	75	76	77	78	73	83
HMA 63 T4/T8 (A2:6) (4p - 27,5º)	Inlet	52	58	67	75	76	77	78	73	83
HMA 63 T4/T8 (A2:6) (4p - 30º)	Inlet	53	60	67	73	75	78	78	73	83
HMA 63 T4/T8 (A2:6) (4p - 32,5º)	Inlet	53	61	66	73	75	77	77	72	82
HMA 63 T4/T8 (A2:6) (4p - 35º)	Inlet	53	60	65	72	74	77	77	71	82
HMA 63 T4/T8 (A2:6) (4p - 37,5º)	Inlet	54	61	67	73	75	77	77	72	82
HMA 63 T4/T8 (A2:6) (4p - 40º)	Inlet	55	61	68	73	75	78	77	72	83
HMA 63 T4/T8 (A2:6) (4p - 42,5º)	Inlet	57	62	70	74	77	78	78	72	84
HMA 63 T4/T8 (A2:6) (4p - 45º)	Inlet	58	62	71	74	78	78	78	72	84
HMA 63 T4/T8 (A2:9) (8p - 20º)	Inlet	41	44	55	61	63	62	63	58	69
HMA 63 T4/T8 (A2:9) (8p - 25º)	Inlet	41	45	54	60	62	62	64	58	69
HMA 63 T4/T8 (A2:9) (8p - 27,5º)	Inlet	41	45	54	60	62	63	64	59	69
HMA 63 T4/T8 (A2:9) (8p - 30º)	Inlet	42	47	54	60	62	64	65	59	70
HMA 63 T4/T8 (A2:9) (8p - 32,5º)	Inlet	41	47	55	61	63	64	65	59	70
HMA 63 T4/T8 (A2:9) (8p - 35º)	Inlet	41	47	55	61	63	65	65	60	70
HMA 63 T4/T8 (A2:9) (8p - 37,5º)	Inlet	41	47	54	60	63	64	65	60	70

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 63 T4/T8 (A2:9) (8p - 40º)	Inlet	41	47	53	60	63	64	65	60	70
HMA 63 T4/T8 (A2:9) (8p - 42,5º)	Inlet	41	48	53	60	63	64	65	59	70
HMA 63 T4/T8 (A2:9) (8p - 45º)	Inlet	41	48	53	60	63	64	65	59	70
HMA 63 T4/T8 (A2:9) (4p - 20º)	Inlet	57	60	71	76	78	78	79	74	85
HMA 63 T4/T8 (A2:9) (4p - 25º)	Inlet	57	61	70	76	78	78	80	74	85
HMA 63 T4/T8 (A2:9) (4p - 27,5º)	Inlet	57	61	70	76	78	79	80	74	85
HMA 63 T4/T8 (A2:9) (4p - 30º)	Inlet	58	62	70	76	78	80	81	75	86
HMA 63 T4/T8 (A2:9) (4p - 32,5º)	Inlet	57	63	70	76	78	80	81	75	86
HMA 63 T4/T8 (A2:9) (4p - 35º)	Inlet	57	63	70	77	79	80	81	75	86
HMA 63 T4/T8 (A2:9) (4p - 37,5º)	Inlet	57	63	70	76	79	80	81	75	86
HMA 63 T4/T8 (A2:9) (4p - 40º)	Inlet	57	63	69	76	79	80	80	76	86
HMA 63 T4/T8 (A2:9) (4p - 42,5º)	Inlet	57	64	69	75	78	80	81	75	86
HMA 63 T4/T8 (A2:9) (4p - 45º)	Inlet	57	64	69	75	78	80	81	75	86
HMA 63 T4/T8 (A5:6) (710 - 20º)	Inlet	53	60	65	66	67	64	63	56	73
HMA 63 T4/T8 (A5:6) (710 - 25º)	Inlet	39	48	53	58	62	61	61	54	67
HMA 63 T4/T8 (A5:6) (710 - 30º)	Inlet	41	49	59	66	64	63	63	56	71
HMA 63 T4/T8 (A5:6) (710 - 35º)	Inlet	37	49	54	58	62	61	63	56	68
HMA 63 T4/T8 (A5:6) (710 - 40º)	Inlet	38	50	62	73	70	65	63	55	76
HMA 63 T4/T8 (A5:6) (710 - 45º)	Inlet	39	50	67	84	76	68	63	55	85
HMA 63 T4/T8 (A5:6) (4p - 20º)	Inlet	69	76	81	82	83	80	79	72	89
HMA 63 T4/T8 (A5:6) (4p - 25º)	Inlet	54	63	68	73	77	76	76	70	83
HMA 63 T4/T8 (A5:6) (4p - 30º)	Inlet	57	65	75	82	80	79	79	72	87
HMA 63 T4/T8 (A5:6) (4p - 35º)	Inlet	53	65	70	74	78	77	79	72	84
HMA 63 T4/T8 (A5:6) (4p - 40º)	Inlet	54	66	77	89	86	81	79	71	92
HMA 63 T4/T8 (A5:6) (4p - 45º)	Inlet	55	66	82	100	92	84	79	71	100
HMA 71 T4/T8 (A2:6) (8p - 20º)	Inlet	39	45	56	63	67	66	68	62	73
HMA 71 T4/T8 (A2:6) (8p - 25º)	Inlet	41	47	56	63	65	66	67	61	72
HMA 71 T4/T8 (A2:6) (8p - 27,5º)	Inlet	41	47	55	62	65	66	67	61	72
HMA 71 T4/T8 (A2:6) (8p - 30º)	Inlet	42	48	55	61	63	65	66	61	71
HMA 71 T4/T8 (A2:6) (8p - 32,5º)	Inlet	41	48	54	60	62	64	65	59	70
HMA 71 T4/T8 (A2:6) (8p - 35º)	Inlet	41	48	53	59	61	64	64	58	69
HMA 71 T4/T8 (A2:6) (8p - 37,5º)	Inlet	42	49	55	60	63	64	64	58	70
HMA 71 T4/T8 (A2:6) (8p - 40º)	Inlet	43	50	56	60	64	65	64	58	70
HMA 71 T4/T8 (A2:6) (8p - 42,5º)	Inlet	45	50	57	61	64	65	65	58	70
HMA 71 T4/T8 (A2:6) (8p - 45º)	Inlet	46	50	58	61	64	65	65	58	71
HMA 71 T4/T8 (A2:6) (4p - 20º)	Inlet	55	60	72	79	83	82	84	77	89
HMA 71 T4/T8 (A2:6) (4p - 25º)	Inlet	56	62	71	78	81	82	83	77	88
HMA 71 T4/T8 (A2:6) (4p - 27,5º)	Inlet	57	63	71	78	80	82	82	77	87
HMA 71 T4/T8 (A2:6) (4p - 30º)	Inlet	58	64	70	77	79	81	81	77	87

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 71 T4/T8 (A2:6) (4p - 32,5º)	Inlet	57	64	70	76	78	80	81	75	86
HMA 71 T4/T8 (A2:6) (4p - 35º)	Inlet	57	64	69	75	77	80	80	74	85
HMA 71 T4/T8 (A2:6) (4p - 37,5º)	Inlet	58	65	70	76	78	80	80	74	85
HMA 71 T4/T8 (A2:6) (4p - 40º)	Inlet	59	66	72	76	79	81	80	74	86
HMA 71 T4/T8 (A2:6) (4p - 42,5º)	Inlet	61	66	73	77	80	81	80	74	86
HMA 71 T4/T8 (A2:6) (4p - 45º)	Inlet	61	66	74	77	80	81	80	74	86
HMA 71 T4/T8 (A2:9) (8p - 20º)	Inlet	44	50	60	67	69	69	71	63	76
HMA 71 T4/T8 (A2:9) (8p - 25º)	Inlet	44	51	58	65	68	68	69	63	74
HMA 71 T4/T8 (A2:9) (8p - 27,5º)	Inlet	44	51	58	64	67	68	69	63	74
HMA 71 T4/T8 (A2:9) (8p - 30º)	Inlet	44	51	57	63	66	67	68	62	73
HMA 71 T4/T8 (A2:9) (8p - 32,5º)	Inlet	44	51	56	63	66	67	68	62	73
HMA 71 T4/T8 (A2:9) (8p - 35º)	Inlet	44	51	56	63	66	68	67	62	73
HMA 71 T4/T8 (A2:9) (8p - 37,5º)	Inlet	44	52	57	63	66	68	67	62	73
HMA 71 T4/T8 (A2:9) (8p - 40º)	Inlet	45	52	58	62	66	68	68	62	73
HMA 71 T4/T8 (A2:9) (8p - 42,5º)	Inlet	44	52	57	62	66	67	67	61	72
HMA 71 T4/T8 (A2:9) (8p - 45º)	Inlet	44	52	57	62	65	67	67	60	72
HMA 71 T4/T8 (A2:9) (4p - 20º)	Inlet	60	66	76	82	85	85	86	79	91
HMA 71 T4/T8 (A2:9) (4p - 25º)	Inlet	60	66	74	81	83	84	85	79	90
HMA 71 T4/T8 (A2:9) (4p - 27,5º)	Inlet	60	66	74	80	83	83	85	78	90
HMA 71 T4/T8 (A2:9) (4p - 30º)	Inlet	60	67	72	79	82	83	84	78	89
HMA 71 T4/T8 (A2:9) (4p - 32,5º)	Inlet	60	67	72	79	82	83	83	78	89
HMA 71 T4/T8 (A2:9) (4p - 35º)	Inlet	59	66	72	79	82	84	83	77	89
HMA 71 T4/T8 (A2:9) (4p - 37,5º)	Inlet	60	67	73	79	82	84	83	77	89
HMA 71 T4/T8 (A2:9) (4p - 40º)	Inlet	61	68	74	78	82	84	83	78	89
HMA 71 T4/T8 (A2:9) (4p - 42,5º)	Inlet	60	68	73	78	81	83	83	76	88
HMA 71 T4/T8 (A2:9) (4p - 45º)	Inlet	60	67	73	78	81	83	82	76	88
HMA 71 T4/T8 (A5:6) (710 - 20º)	Inlet	56	63	68	70	70	68	67	60	76
HMA 71 T4/T8 (A5:6) (710 - 25º)	Inlet	43	52	58	62	65	66	66	57	72
HMA 71 T4/T8 (A5:6) (710 - 30º)	Inlet	44	53	59	65	66	66	65	56	72
HMA 71 T4/T8 (A5:6) (710 - 35º)	Inlet	37	49	54	59	62	63	64	55	69
HMA 71 T4/T8 (A5:6) (710 - 40º)	Inlet	41	52	67	76	72	68	66	56	79
HMA 71 T4/T8 (A5:6) (710 - 45º)	Inlet	45	54	76	89	80	71	67	56	90
HMA 71 T4/T8 (A5:6) (4p - 20º)	Inlet	71	78	83	85	85	83	82	75	92
HMA 71 T4/T8 (A5:6) (4p - 25º)	Inlet	58	68	74	78	81	82	82	73	88
HMA 71 T4/T8 (A5:6) (4p - 30º)	Inlet	60	68	75	81	82	81	81	72	87
HMA 71 T4/T8 (A5:6) (4p - 35º)	Inlet	53	65	70	75	78	79	80	71	84
HMA 71 T4/T8 (A5:6) (4p - 40º)	Inlet	57	68	83	92	88	83	81	72	95
HMA 71 T4/T8 (A5:6) (4p - 45º)	Inlet	61	70	92	105	96	87	83	72	105
HMA 80 T4/T8 (A2:6) (8p - 20º)	Inlet	38	45	56	63	67	67	68	63	73

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 80 T4/T8 (A2:6) (8p - 25º)	Inlet	41	48	56	63	67	68	69	63	73
HMA 80 T4/T8 (A2:6) (8p - 27,5º)	Inlet	42	49	56	63	66	68	69	63	73
HMA 80 T4/T8 (A2:6) (8p - 30º)	Inlet	44	51	56	63	66	68	68	62	73
HMA 80 T4/T8 (A2:6) (8p - 32,5º)	Inlet	45	52	57	63	66	68	68	61	73
HMA 80 T4/T8 (A2:6) (8p - 35º)	Inlet	46	53	58	62	66	68	68	61	73
HMA 80 T4/T8 (A2:6) (8p - 37,5º)	Inlet	46	53	58	62	65	67	67	60	72
HMA 80 T4/T8 (A2:6) (8p - 40º)	Inlet	45	53	59	62	65	66	66	59	72
HMA 80 T4/T8 (A2:6) (8p - 42,5º)	Inlet	46	53	60	63	66	67	66	59	72
HMA 80 T4/T8 (A2:6) (8p - 45º)	Inlet	46	53	60	63	66	67	66	59	72
HMA 80 T4/T8 (A2:6) (4p - 20º)	Inlet	54	61	72	79	83	83	84	79	89
HMA 80 T4/T8 (A2:6) (4p - 25º)	Inlet	57	64	72	79	82	83	84	79	89
HMA 80 T4/T8 (A2:6) (4p - 27,5º)	Inlet	58	65	72	79	82	84	84	78	89
HMA 80 T4/T8 (A2:6) (4p - 30º)	Inlet	59	67	72	78	82	84	84	78	89
HMA 80 T4/T8 (A2:6) (4p - 32,5º)	Inlet	60	68	73	78	82	84	84	77	89
HMA 80 T4/T8 (A2:6) (4p - 35º)	Inlet	61	68	74	78	81	84	84	77	89
HMA 80 T4/T8 (A2:6) (4p - 37,5º)	Inlet	62	69	74	78	81	83	83	76	88
HMA 80 T4/T8 (A2:6) (4p - 40º)	Inlet	61	69	75	78	81	82	82	75	88
HMA 80 T4/T8 (A2:6) (4p - 42,5º)	Inlet	62	69	75	78	82	83	82	75	88
HMA 80 T4/T8 (A2:6) (4p - 45º)	Inlet	62	69	76	79	82	83	82	75	88
HMA 80 T4/T8 (A2:9) (8p - 20º)	Inlet	43	56	62	73	75	74	76	68	81
HMA 80 T4/T8 (A2:9) (8p - 25º)	Inlet	46	55	61	70	73	73	74	67	79
HMA 80 T4/T8 (A2:9) (8p - 27,5º)	Inlet	46	55	61	70	72	72	74	67	79
HMA 80 T4/T8 (A2:9) (8p - 30º)	Inlet	47	54	60	68	71	72	72	66	78
HMA 80 T4/T8 (A2:9) (8p - 32,5º)	Inlet	47	54	59	66	70	72	71	65	77
HMA 80 T4/T8 (A2:9) (8p - 35º)	Inlet	46	53	59	65	69	71	70	64	76
HMA 80 T4/T8 (A2:9) (8p - 37,5º)	Inlet	47	54	60	65	69	71	70	64	76
HMA 80 T4/T8 (A2:9) (8p - 40º)	Inlet	48	55	61	65	68	70	70	63	75
HMA 80 T4/T8 (A2:9) (8p - 42,5º)	Inlet	48	56	61	65	68	70	69	62	75
HMA 80 T4/T8 (A2:9) (8p - 45º)	Inlet	48	55	61	65	68	69	68	62	74
HMA 80 T4/T8 (A2:9) (4p - 20º)	Inlet	59	72	78	89	91	90	92	83	97
HMA 80 T4/T8 (A2:9) (4p - 25º)	Inlet	61	71	77	86	89	89	90	83	95
HMA 80 T4/T8 (A2:9) (4p - 27,5º)	Inlet	62	71	76	85	88	88	89	82	94
HMA 80 T4/T8 (A2:9) (4p - 30º)	Inlet	63	70	76	84	87	88	88	82	93
HMA 80 T4/T8 (A2:9) (4p - 32,5º)	Inlet	63	70	75	82	86	87	87	81	93
HMA 80 T4/T8 (A2:9) (4p - 35º)	Inlet	62	69	75	81	85	87	86	80	92
HMA 80 T4/T8 (A2:9) (4p - 37,5º)	Inlet	63	70	76	81	85	87	86	79	91
HMA 80 T4/T8 (A2:9) (4p - 40º)	Inlet	64	71	76	80	84	86	85	79	91
HMA 80 T4/T8 (A2:9) (4p - 42,5º)	Inlet	64	71	77	80	84	85	84	78	90
HMA 80 T4/T8 (A2:9) (4p - 45º)	Inlet	64	71	77	80	84	85	84	78	90

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 80 T4/T8 (A5:6) (710 - 20º)	Inlet	58	65	70	72	72	70	69	62	79
HMA 80 T4/T8 (A5:6) (710 - 25º)	Inlet	45	52	58	63	65	65	66	58	72
HMA 80 T4/T8 (A5:6) (710 - 30º)	Inlet	45	57	64	73	71	69	69	61	78
HMA 80 T4/T8 (A5:6) (710 - 35º)	Inlet	42	54	60	68	73	71	71	62	78
HMA 80 T4/T8 (A5:6) (710 - 40º)	Inlet	43	56	72	77	74	70	68	60	81
HMA 80 T4/T8 (A5:6) (710 - 45º)	Inlet	44	58	81	84	75	70	66	59	86
HMA 80 T4/T8 (A5:6) (4p - 20º)	Inlet	74	81	86	88	88	86	85	78	94
HMA 80 T4/T8 (A5:6) (4p - 25º)	Inlet	61	68	74	79	81	81	82	74	88
HMA 80 T4/T8 (A5:6) (4p - 30º)	Inlet	61	72	79	89	87	85	85	77	93
HMA 80 T4/T8 (A5:6) (4p - 35º)	Inlet	58	70	76	84	89	87	87	78	94
HMA 80 T4/T8 (A5:6) (4p - 40º)	Inlet	59	72	88	93	90	86	84	76	97
HMA 80 T4/T8 (A5:6) (4p - 45º)	Inlet	60	74	97	100	91	86	82	75	102
HMA 90 T4/T8 (A6:3) (8p - 20º)	Inlet	44	47	56	59	63	65	68	62	71
HMA 90 T4/T8 (A6:3) (8p - 22º)	Inlet	45	49	58	61	65	66	69	63	73
HMA 90 T4/T8 (A6:3) (8p - 24º)	Inlet	46	51	59	63	66	67	70	64	74
HMA 90 T4/T8 (A6:3) (8p - 26º)	Inlet	47	52	60	65	67	69	71	65	75
HMA 90 T4/T8 (A6:3) (8p - 28º)	Inlet	48	53	61	66	68	70	71	66	76
HMA 90 T4/T8 (A6:3) (8p - 30º)	Inlet	49	55	62	68	70	71	72	66	77
HMA 90 T4/T8 (A6:3) (8p - 32º)	Inlet	49	55	63	69	70	71	73	67	78
HMA 90 T4/T8 (A6:3) (8p - 34º)	Inlet	49	56	63	71	71	72	73	67	78
HMA 90 T4/T8 (A6:3) (8p - 36º)	Inlet	50	56	64	72	72	73	73	68	79
HMA 90 T4/T8 (A6:3) (8p - 38º)	Inlet	50	57	65	73	73	74	74	69	80
HMA 90 T4/T8 (A6:3) (8p - 40º)	Inlet	50	58	66	73	74	75	75	70	81
HMA 90 T4/T8 (A6:3) (8p - 42º)	Inlet	51	59	66	74	75	76	76	70	82
HMA 90 T4/T8 (A6:3) (4p - 20º)	Inlet	60	63	72	74	79	81	84	77	87
HMA 90 T4/T8 (A6:3) (4p - 22º)	Inlet	61	65	74	77	81	82	85	79	89
HMA 90 T4/T8 (A6:3) (4p - 24º)	Inlet	62	66	75	79	82	83	86	80	90
HMA 90 T4/T8 (A6:3) (4p - 26º)	Inlet	63	68	76	80	83	84	86	81	91
HMA 90 T4/T8 (A6:3) (4p - 28º)	Inlet	64	69	77	82	84	86	87	81	92
HMA 90 T4/T8 (A6:3) (4p - 30º)	Inlet	65	71	78	84	85	87	88	82	93
HMA 90 T4/T8 (A6:3) (4p - 32º)	Inlet	65	71	78	85	86	87	88	83	93
HMA 90 T4/T8 (A6:3) (4p - 34º)	Inlet	65	72	79	86	87	88	89	83	94
HMA 90 T4/T8 (A6:3) (4p - 36º)	Inlet	65	72	80	87	87	89	89	83	95
HMA 90 T4/T8 (A6:3) (4p - 38º)	Inlet	66	73	81	88	89	90	90	85	96
HMA 90 T4/T8 (A6:3) (4p - 40º)	Inlet	66	74	81	89	90	91	91	85	97
HMA 90 T4/T8 (A6:3) (4p - 42º)	Inlet	66	75	82	90	91	92	92	86	98
HMA 90 T4/T8 (A6:6) (8p - 20º)	Inlet	49	59	65	72	76	75	75	70	81
HMA 90 T4/T8 (A6:6) (8p - 22º)	Inlet	50	59	66	73	76	75	75	71	82
HMA 90 T4/T8 (A6:6) (8p - 24º)	Inlet	51	60	67	73	76	75	76	71	82

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 90 T4/T8 (A6:6) (8p - 26º)	Inlet	51	61	67	74	76	76	77	72	82
HMA 90 T4/T8 (A6:6) (8p - 28º)	Inlet	52	61	67	74	76	76	77	72	83
HMA 90 T4/T8 (A6:6) (8p - 30º)	Inlet	53	62	68	74	76	76	77	73	83
HMA 90 T4/T8 (A6:6) (8p - 32º)	Inlet	51	61	66	73	74	75	76	71	81
HMA 90 T4/T8 (A6:6) (8p - 34º)	Inlet	50	59	65	71	72	73	75	69	80
HMA 90 T4/T8 (A6:6) (8p - 36º)	Inlet	50	59	64	70	72	73	74	69	79
HMA 90 T4/T8 (A6:6) (8p - 38º)	Inlet	51	60	65	71	72	73	75	69	80
HMA 90 T4/T8 (A6:6) (8p - 40º)	Inlet	51	60	66	72	73	74	75	69	80
HMA 90 T4/T8 (A6:6) (8p - 42º)	Inlet	52	61	67	72	73	74	76	69	81
HMA 90 T4/T8 (A6:6) (4p - 20º)	Inlet	65	75	81	88	92	90	91	86	97
HMA 90 T4/T8 (A6:6) (4p - 22º)	Inlet	65	75	82	89	92	91	91	86	97
HMA 90 T4/T8 (A6:6) (4p - 24º)	Inlet	66	76	82	89	92	91	92	87	98
HMA 90 T4/T8 (A6:6) (4p - 26º)	Inlet	67	77	83	90	92	92	92	87	98
HMA 90 T4/T8 (A6:6) (4p - 28º)	Inlet	68	77	83	90	92	92	93	88	98
HMA 90 T4/T8 (A6:6) (4p - 30º)	Inlet	69	78	83	90	92	92	93	88	99
HMA 90 T4/T8 (A6:6) (4p - 32º)	Inlet	67	76	82	88	90	91	92	87	97
HMA 90 T4/T8 (A6:6) (4p - 34º)	Inlet	66	75	80	87	88	89	91	85	95
HMA 90 T4/T8 (A6:6) (4p - 36º)	Inlet	66	75	80	86	87	89	90	85	95
HMA 90 T4/T8 (A6:6) (4p - 38º)	Inlet	67	75	81	87	88	89	91	85	96
HMA 90 T4/T8 (A6:6) (4p - 40º)	Inlet	67	76	82	87	89	90	91	85	96
HMA 90 T4/T8 (A6:6) (4p - 42º)	Inlet	68	77	83	88	89	90	91	85	96
HMA 100 T4/T8 (A6:3) (8p - 20º)	Inlet	48	55	61	65	71	72	76	68	79
HMA 100 T4/T8 (A6:3) (8p - 22º)	Inlet	49	56	62	66	71	73	76	69	79
HMA 100 T4/T8 (A6:3) (8p - 24º)	Inlet	49	56	62	67	71	73	76	69	79
HMA 100 T4/T8 (A6:3) (8p - 26º)	Inlet	49	56	62	67	71	72	75	68	79
HMA 100 T4/T8 (A6:3) (8p - 28º)	Inlet	50	56	62	67	71	72	74	68	78
HMA 100 T4/T8 (A6:3) (8p - 30º)	Inlet	50	56	62	68	70	72	73	67	78
HMA 100 T4/T8 (A6:3) (8p - 32º)	Inlet	51	57	64	69	72	73	74	68	79
HMA 100 T4/T8 (A6:3) (8p - 34º)	Inlet	53	59	66	71	73	74	74	69	80
HMA 100 T4/T8 (A6:3) (8p - 36º)	Inlet	53	59	67	72	74	75	75	70	81
HMA 100 T4/T8 (A6:3) (8p - 38º)	Inlet	53	60	67	73	74	75	75	70	81
HMA 100 T4/T8 (A6:3) (8p - 40º)	Inlet	53	61	67	73	75	76	76	71	82
HMA 100 T4/T8 (A6:3) (8p - 42º)	Inlet	53	61	67	74	76	77	77	72	83
HMA 100 T4/T8 (A6:3) (4p - 20º)	Inlet	64	71	76	81	87	88	92	84	95
HMA 100 T4/T8 (A6:3) (4p - 22º)	Inlet	65	72	78	82	87	89	92	85	95
HMA 100 T4/T8 (A6:3) (4p - 24º)	Inlet	65	72	78	83	87	89	91	84	95
HMA 100 T4/T8 (A6:3) (4p - 26º)	Inlet	65	72	78	83	87	88	90	84	94
HMA 100 T4/T8 (A6:3) (4p - 28º)	Inlet	65	72	78	83	86	88	90	83	94
HMA 100 T4/T8 (A6:3) (4p - 30º)	Inlet	66	72	78	84	86	87	89	83	94

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 100 T4/T8 (A6:3) (4p - 32º)	Inlet	67	73	80	85	87	89	90	84	95
HMA 100 T4/T8 (A6:3) (4p - 34º)	Inlet	69	74	82	87	89	90	90	85	96
HMA 100 T4/T8 (A6:3) (4p - 36º)	Inlet	69	75	82	88	89	91	91	86	96
HMA 100 T4/T8 (A6:3) (4p - 38º)	Inlet	69	76	82	89	90	91	91	86	97
HMA 100 T4/T8 (A6:3) (4p - 40º)	Inlet	69	76	83	89	91	92	92	87	98
HMA 100 T4/T8 (A6:3) (4p - 42º)	Inlet	69	77	83	90	92	93	93	88	98
HMA 100 T4/T8 (A6:6) (8p - 20º)	Inlet	53	64	69	79	80	80	79	75	86
HMA 100 T4/T8 (A6:6) (8p - 22º)	Inlet	53	64	69	79	79	79	79	75	86
HMA 100 T4/T8 (A6:6) (8p - 24º)	Inlet	54	64	70	78	79	79	79	75	85
HMA 100 T4/T8 (A6:6) (8p - 26º)	Inlet	55	65	71	78	79	79	80	75	86
HMA 100 T4/T8 (A6:6) (8p - 28º)	Inlet	57	65	72	78	79	80	81	76	86
HMA 100 T4/T8 (A6:6) (8p - 30º)	Inlet	57	65	72	78	79	80	81	76	86
HMA 100 T4/T8 (A6:6) (8p - 32º)	Inlet	56	65	71	76	78	78	79	74	85
HMA 100 T4/T8 (A6:6) (8p - 34º)	Inlet	55	64	70	74	76	77	78	73	83
HMA 100 T4/T8 (A6:6) (8p - 36º)	Inlet	55	63	70	73	76	77	78	72	83
HMA 100 T4/T8 (A6:6) (8p - 38º)	Inlet	56	64	70	74	77	77	78	73	84
HMA 100 T4/T8 (A6:6) (8p - 40º)	Inlet	57	65	71	75	77	78	79	73	84
HMA 100 T4/T8 (A6:6) (8p - 42º)	Inlet	56	64	71	75	77	78	79	73	84
HMA 100 T4/T8 (A6:6) (4p - 20º)	Inlet	68	80	85	95	96	95	95	91	102
HMA 100 T4/T8 (A6:6) (4p - 22º)	Inlet	69	80	85	94	95	95	95	91	101
HMA 100 T4/T8 (A6:6) (4p - 24º)	Inlet	70	80	85	94	95	95	95	91	101
HMA 100 T4/T8 (A6:6) (4p - 26º)	Inlet	71	80	86	94	95	95	96	91	102
HMA 100 T4/T8 (A6:6) (4p - 28º)	Inlet	72	81	87	94	95	96	96	92	102
HMA 100 T4/T8 (A6:6) (4p - 30º)	Inlet	73	81	88	94	95	96	97	92	102
HMA 100 T4/T8 (A6:6) (4p - 32º)	Inlet	72	80	87	92	93	94	95	90	101
HMA 100 T4/T8 (A6:6) (4p - 34º)	Inlet	71	79	86	90	92	93	94	89	99
HMA 100 T4/T8 (A6:6) (4p - 36º)	Inlet	71	79	86	89	92	92	94	88	99
HMA 100 T4/T8 (A6:6) (4p - 38º)	Inlet	72	80	86	90	92	93	94	89	99
HMA 100 T4/T8 (A6:6) (4p - 40º)	Inlet	72	80	87	91	93	94	95	89	100
HMA 100 T4/T8 (A6:6) (4p - 42º)	Inlet	72	80	87	91	93	94	95	89	100
HMA 112 T4/T8 (A6:3) (8p - 20º)	Inlet	51	58	64	70	75	77	79	73	83
HMA 112 T4/T8 (A6:3) (8p - 22º)	Inlet	53	60	65	71	76	77	79	74	83
HMA 112 T4/T8 (A6:3) (8p - 24º)	Inlet	54	61	66	72	76	77	80	74	84
HMA 112 T4/T8 (A6:3) (8p - 26º)	Inlet	55	61	67	73	76	77	80	74	84
HMA 112 T4/T8 (A6:3) (8p - 28º)	Inlet	55	61	68	73	76	77	79	74	84
HMA 112 T4/T8 (A6:3) (8p - 30º)	Inlet	55	61	68	73	76	77	79	74	83
HMA 112 T4/T8 (A6:3) (8p - 32º)	Inlet	56	61	68	73	76	77	79	74	83
HMA 112 T4/T8 (A6:3) (8p - 34º)	Inlet	56	61	69	74	76	77	78	74	83
HMA 112 T4/T8 (A6:3) (8p - 36º)	Inlet	57	62	69	74	76	77	78	74	83

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 112 T4/T8 (A6:3) (8p - 38º)	Inlet	57	63	69	75	77	78	78	74	84
HMA 112 T4/T8 (A6:3) (8p - 40º)	Inlet	57	63	69	75	77	78	78	74	84
HMA 112 T4/T8 (A6:3) (8p - 42º)	Inlet	57	64	69	75	78	79	79	74	85
HMA 112 T4/T8 (A6:3) (4p - 20º)	Inlet	67	74	80	86	91	93	94	89	99
HMA 112 T4/T8 (A6:3) (4p - 22º)	Inlet	68	75	81	87	92	93	95	90	99
HMA 112 T4/T8 (A6:3) (4p - 24º)	Inlet	70	77	82	88	92	93	95	90	100
HMA 112 T4/T8 (A6:3) (4p - 26º)	Inlet	70	77	83	89	92	93	95	90	100
HMA 112 T4/T8 (A6:3) (4p - 28º)	Inlet	71	77	84	89	92	93	95	90	100
HMA 112 T4/T8 (A6:3) (4p - 30º)	Inlet	71	76	84	89	91	92	95	89	99
HMA 112 T4/T8 (A6:3) (4p - 32º)	Inlet	72	77	84	89	92	93	94	89	99
HMA 112 T4/T8 (A6:3) (4p - 34º)	Inlet	72	77	85	90	92	93	94	90	99
HMA 112 T4/T8 (A6:3) (4p - 36º)	Inlet	73	78	85	90	92	93	94	90	99
HMA 112 T4/T8 (A6:3) (4p - 38º)	Inlet	73	78	85	91	93	94	94	90	100
HMA 112 T4/T8 (A6:3) (4p - 40º)	Inlet	72	79	85	91	93	94	94	90	100
HMA 112 T4/T8 (A6:3) (4p - 42º)	Inlet	73	79	85	91	94	95	95	90	100
HMA 112 T4/T8 (A6:6) (8p - 20º)	Inlet	53	64	70	81	82	81	82	77	88
HMA 112 T4/T8 (A6:6) (8p - 22º)	Inlet	54	64	70	80	82	81	82	77	88
HMA 112 T4/T8 (A6:6) (8p - 24º)	Inlet	55	64	70	79	81	81	81	76	87
HMA 112 T4/T8 (A6:6) (8p - 26º)	Inlet	56	65	71	79	81	81	82	76	87
HMA 112 T4/T8 (A6:6) (8p - 28º)	Inlet	57	66	71	79	81	81	82	76	87
HMA 112 T4/T8 (A6:6) (8p - 30º)	Inlet	58	66	71	78	80	81	82	75	87
HMA 112 T4/T8 (A6:6) (8p - 32º)	Inlet	58	65	71	76	79	80	81	74	86
HMA 112 T4/T8 (A6:6) (8p - 34º)	Inlet	57	65	71	75	78	80	80	73	85
HMA 112 T4/T8 (A6:6) (8p - 36º)	Inlet	58	66	71	75	78	80	80	73	85
HMA 112 T4/T8 (A6:6) (8p - 38º)	Inlet	60	67	73	76	80	81	82	75	87
HMA 112 T4/T8 (A6:6) (8p - 40º)	Inlet	62	69	75	78	81	82	83	76	88
HMA 112 T4/T8 (A6:6) (8p - 42º)	Inlet	62	68	75	78	81	82	82	76	88
HMA 112 T4/T8 (A6:6) (4p - 20º)	Inlet	69	80	86	97	98	97	98	93	104
HMA 112 T4/T8 (A6:6) (4p - 22º)	Inlet	70	80	86	96	98	97	98	92	104
HMA 112 T4/T8 (A6:6) (4p - 24º)	Inlet	71	80	86	95	97	96	97	91	103
HMA 112 T4/T8 (A6:6) (4p - 26º)	Inlet	72	81	87	95	97	97	98	92	103
HMA 112 T4/T8 (A6:6) (4p - 28º)	Inlet	73	82	87	95	97	97	98	91	103
HMA 112 T4/T8 (A6:6) (4p - 30º)	Inlet	74	82	87	94	96	97	98	91	103
HMA 112 T4/T8 (A6:6) (4p - 32º)	Inlet	74	81	87	92	95	96	97	90	102
HMA 112 T4/T8 (A6:6) (4p - 34º)	Inlet	73	81	86	90	94	95	96	89	101
HMA 112 T4/T8 (A6:6) (4p - 36º)	Inlet	74	82	87	90	94	96	96	89	101
HMA 112 T4/T8 (A6:6) (4p - 38º)	Inlet	76	83	89	92	95	97	97	90	102
HMA 112 T4/T8 (A6:6) (4p - 40º)	Inlet	78	84	91	94	97	98	99	92	104
HMA 112 T4/T8 (A6:6) (4p - 42º)	Inlet	78	83	91	94	97	98	98	92	104

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 125 T4/T8 (A7:4) (8p - 20º)	Inlet	56	70	75	81	86	86	88	85	93
HMA 125 T4/T8 (A7:4) (8p - 22º)	Inlet	58	71	76	82	86	87	89	85	93
HMA 125 T4/T8 (A7:4) (8p - 24º)	Inlet	59	69	74	80	84	85	87	82	91
HMA 125 T4/T8 (A7:4) (8p - 26º)	Inlet	59	68	73	78	82	83	84	79	89
HMA 125 T4/T8 (A7:4) (8p - 28º)	Inlet	59	66	72	76	80	82	83	77	88
HMA 125 T4/T8 (A7:4) (8p - 30º)	Inlet	57	65	70	74	78	80	81	74	86
HMA 125 T4/T8 (A7:4) (8p - 32º)	Inlet	57	65	70	74	78	79	80	73	85
HMA 125 T4/T8 (A7:4) (8p - 34º)	Inlet	57	64	70	74	77	79	80	72	84
HMA 125 T4/T8 (A7:4) (8p - 36º)	Inlet	57	65	70	74	77	79	80	72	85
HMA 125 T4/T8 (A7:4) (8p - 38º)	Inlet	58	66	71	75	78	80	81	73	86
HMA 125 T4/T8 (A7:4) (8p - 40º)	Inlet	59	66	72	76	78	81	81	74	86
HMA 125 T4/T8 (A7:4) (8p - 42º)	Inlet	59	67	72	76	79	81	81	74	86
HMA 125 T4/T8 (A7:4) (4p - 20º)	Inlet	72	85	90	97	101	102	103	100	108
HMA 125 T4/T8 (A7:4) (4p - 22º)	Inlet	74	86	92	98	101	103	104	100	109
HMA 125 T4/T8 (A7:4) (4p - 24º)	Inlet	75	84	90	96	99	101	102	98	107
HMA 125 T4/T8 (A7:4) (4p - 26º)	Inlet	75	83	89	94	98	99	100	95	105
HMA 125 T4/T8 (A7:4) (4p - 28º)	Inlet	75	82	88	92	96	98	99	93	103
HMA 125 T4/T8 (A7:4) (4p - 30º)	Inlet	73	81	86	90	94	96	96	90	101
HMA 125 T4/T8 (A7:4) (4p - 32º)	Inlet	73	80	86	90	93	95	96	89	101
HMA 125 T4/T8 (A7:4) (4p - 34º)	Inlet	73	80	86	90	93	95	96	88	100
HMA 125 T4/T8 (A7:4) (4p - 36º)	Inlet	73	81	86	90	93	95	96	88	101
HMA 125 T4/T8 (A7:4) (4p - 38º)	Inlet	74	82	87	91	94	96	96	89	101
HMA 125 T4/T8 (A7:4) (4p - 40º)	Inlet	75	82	88	91	94	97	96	89	102
HMA 125 T4/T8 (A7:4) (4p - 42º)	Inlet	75	83	88	92	95	97	97	90	102
HMA 125 T4/T8 (A7:8) (8p - 20º)	Inlet	61	70	76	84	91	94	93	88	98
HMA 125 T4/T8 (A7:8) (8p - 22º)	Inlet	61	69	76	83	90	93	92	87	97
HMA 125 T4/T8 (A7:8) (8p - 24º)	Inlet	61	69	75	82	89	91	91	85	96
HMA 125 T4/T8 (A7:8) (8p - 26º)	Inlet	61	68	75	81	87	90	90	84	94
HMA 125 T4/T8 (A7:8) (8p - 28º)	Inlet	61	67	74	80	86	89	89	82	93
HMA 125 T4/T8 (A7:8) (8p - 30º)	Inlet	60	67	74	79	84	87	87	80	91
HMA 125 T4/T8 (A7:8) (8p - 32º)	Inlet	60	67	74	78	83	85	86	78	90
HMA 125 T4/T8 (A7:8) (8p - 34º)	Inlet	61	67	74	78	82	84	84	76	89
HMA 125 T4/T8 (A7:8) (8p - 36º)	Inlet	61	68	74	78	81	83	83	75	88
HMA 125 T4/T8 (A7:8) (8p - 38º)	Inlet	61	69	74	78	81	83	82	75	88
HMA 125 T4/T8 (A7:8) (8p - 40º)	Inlet	60	68	73	78	81	83	81	75	88
HMA 125 T4/T8 (A7:8) (8p - 42º)	Inlet	60	68	73	78	81	83	81	75	87
HMA 125 T4/T8 (A7:8) (4p - 20º)	Inlet	77	85	92	100	106	110	108	103	114
HMA 125 T4/T8 (A7:8) (4p - 22º)	Inlet	77	84	92	99	105	109	107	102	113
HMA 125 T4/T8 (A7:8) (4p - 24º)	Inlet	77	84	91	98	104	107	106	100	111

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HMA 125 T4/T8 (A7:8) (4p - 26°)	Inlet	77	83	91	97	102	106	105	99	110
HMA 125 T4/T8 (A7:8) (4p - 28°)	Inlet	77	83	90	96	101	105	104	98	109
HMA 125 T4/T8 (A7:8) (4p - 30°)	Inlet	76	82	89	95	99	103	102	96	107
HMA 125 T4/T8 (A7:8) (4p - 32°)	Inlet	76	83	89	94	99	101	101	94	106
HMA 125 T4/T8 (A7:8) (4p - 34°)	Inlet	77	83	90	94	98	100	100	92	105
HMA 125 T4/T8 (A7:8) (4p - 36°)	Inlet	77	83	90	94	97	99	99	91	104
HMA 125 T4/T8 (A7:8) (4p - 38°)	Inlet	77	84	90	94	97	99	98	91	104
HMA 125 T4/T8 (A7:8) (4p - 40°)	Inlet	76	83	89	93	97	99	97	91	103
HMA 125 T4/T8 (A7:8) (4p - 42°)	Inlet	76	83	89	94	97	99	97	90	103

erp data

ERP	
Fan type	Axial fan
Installation cathegory	A
Efficency cathegory	Static
The fan has to be installed with FSC	No

ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 35 M2 (A0:6) (25º)	0,55	36,51	44,05	2.829,94	295,12	0,64	-	1,00
HMA 35 M2 (A0:6) (30º)	0,75	38,94	45,93	3.360,86	325,54	0,79	-	1,00
HMA 35 M2 (A0:6) (35º)	1,10	39,92	46,30	3.958,58	358,73	0,98	-	1,00
HMA 35 M2 (A0:6) (40º)	1,10	37,34	43,29	4.277,77	364,27	1,15	-	1,00
HMA 35 T2 (A0:6) (25º)	0,55	43,70	51,73	2.829,94	295,12	0,54	-	1,00
HMA 35 T2 (A0:6) (30º)	0,75	44,30	51,64	3.360,86	325,54	0,69	-	1,00
HMA 35 T2 (A0:6) (35º)	1,10	43,41	50,01	3.958,58	358,73	0,91	-	1,00
HMA 35 T2 (A0:6) (40º)	1,10	40,47	46,65	4.277,77	364,27	1,06	-	1,00
HMA 40 T2 (A0:6) (25º)	0,75	50,60	57,87	3.867,66	328,53	0,71	-	1,00
HMA 40 T2 (A0:6) (30º)	1,10	49,17	55,64	4.590,98	364,43	0,95	-	1,00
HMA 40 T2 (A0:6) (35º)	1,10	46,53	52,17	5.294,12	406,63	1,29	-	1,00
HMA 40 T2 (A0:6) (40º)	1,10	42,90	48	5.705,82	424,68	1,57	-	1,00
HMA 45 T2 (A0:6) (25º)	1,5	48,64	53,93	5.836,25	428,28	1,46	-	1,00
HMA 45 T2 (A0:6) (35º)	2,2	48,10	52,47	7.590,65	452,46	2,04	-	1,00
HMA 50 T2 (A9:4) (25º)	1,10	48,25	54,35	5.762,73	326,30	1,08	-	1,00
HMA 50 T2 (A9:4) (30º)	1,50	48,35	53,63	6.883,51	370,80	1,47	-	1,00
HMA 50 T2 (A9:4) (35º)	2,20	48,87	53,22	8.577,37	423,51	2,06	-	1,00
HMA 50 T2 (A9:4) (40º)	2,20	46,30	50,13	9.554,03	434,60	2,49	-	1,00
HMA 50 T2 (A9:4) (45º)	3	41,87	45,06	10.965,64	427,67	3,15	-	1,00
HMA 50 T2 (A9:8) (25º)	2,20	47,46	52,24	6.383,72	468,84	1,77	-	1,00
HMA 50 T2 (A9:8) (30º)	2,20	49,13	53,02	8.111,79	523,42	2,43	-	1,00
HMA 50 T2 (A9:8) (35º)	4	48,66	51,64	10.039,80	588,23	3,40	-	1,00
HMA 50 T2 (A9:8) (40º)	4	46,59	49,03	11.284,42	609,35	4,14	-	1,00
HMA 50 T2 (A9:8) (45º)	4	40,65	42,35	12.857,25	621,45	5,42	-	1,00
HMA 56 T2 (A9:5) (25º)	2,20	52,31	56,96	7.820,75	444,01	1,85	-	1,00
HMA 56 T2 (A9:5) (30º)	3	51,75	55,43	9.686,69	505,03	2,63	-	1,00
HMA 56 T2 (A9:5) (35º)	4	49,28	52,02	11.702,61	562,26	3,71	-	1,00
HMA 56 T2 (A9:5) (40º)	5,50	48,16	50,39	12.953,97	597,21	4,46	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 56 T2 (A9:5) (45º)	5,50	43,01	44,57	14.792,42	599,49	5,70	-	1,00
HMA 56 T2 (A9:10) (25º)	3	50,76	54,02	8.581,12	649,36	3,07	-	1,00
HMA 56 T2 (A9:10) (30º)	4	48,92	51,24	10.824,13	696,31	4,31	-	1,00
HMA 56 T2 (A9:10) (35º)	5,50	49,22	50,67	13.540,32	765,91	5,93	-	1,00
HMA 56 T2 (A9:10) (40º)	7,50	47,25	48,05	15.696,25	802,94	7,55	-	1,00
HMA 56 T2 (A9:10) (45º)	7,50	43,64	43,79	17.592,07	853,16	9,55	-	1,00

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 35 T4 (A0:6) (35º)	0,12	32,95	44,44	1.997,21	90,99	0,15	-	1,00
HMA 35 T4 (A0:6) (40º)	0,12	31,26	42,37	2.141,46	92,67	0,18	-	1,00
HMA 40 T4 (A0:6) (35º)	0,25	37,75	48,46	2.668,81	102,89	0,20	-	1,00
HMA 40 T4 (A0:6) (40º)	0,25	36,50	46,79	2.878,36	107,65	0,24	-	1,00
HMA 45 M4 (A0:6) (35º)	0,25	30,99	40,16	3.702,84	106,29	0,36	-	1,00
HMA 45 M4 (A0:6) (40º)	0,25	31,57	40,33	4.049,07	115,97	0,41	-	1,00
HMA 45 T4 (A0:6) (35º)	0,25	39,37	49,19	3.702,84	106,29	0,28	-	1,00
HMA 45 T4 (A0:6) (40º)	0,25	38,70	48,01	4.049,07	115,97	0,34	-	1,00
HMA 45 T4 (A5:6) (25º)	0,25	33,59	44,03	2.807,25	95,89	0,22	-	1,00
HMA 45 T4 (A5:6) (30º)	0,25	33,08	42,93	3.214,30	102,62	0,28	-	1,00
HMA 50 M4 (A0:6) (35º)	0,37	33,57	42,06	4.442,56	123,26	0,45	-	1,00
HMA 50 M4 (A0:6) (40º)	0,37	33,54	41,56	5.154,60	125,37	0,54	-	1,00
HMA 50 T4 (A0:6) (35º)	0,37	38,21	47,06	4.442,56	123,26	0,40	-	1,00
HMA 50 T4 (A0:6) (40º)	0,37	38,56	46,97	5.154,60	125,37	0,47	-	1,00
HMA 50 T4 (A5:6) (25º)	0,25	37,58	47,13	3.820,69	109,57	0,31	-	1,00
HMA 50 T4 (A5:6) (30º)	0,37	33,56	42,22	4.377,18	118,42	0,43	-	1,00
HMA 50 T4 (A5:6) (35º)	0,55	34,41	42,75	4.997,36	120,39	0,48	-	1,00
HMA 56 M4 (A2:6) (20º)	0,37	34,46	42,57	4.266,24	151,17	0,52	-	1,00
HMA 56 M4 (A5:6) (20º)	0,37	36,49	44,51	4.495,62	156,81	0,54	-	1,00
HMA 56 T4 (A2:6) (20º)	0,37	39,41	47,89	4.266,24	151,17	0,46	-	1,00
HMA 56 T4 (A2:6) (25º)	0,55	44,74	52,63	5.406,36	167,16	0,57	-	1,00
HMA 56 T4 (A2:6) (27,5º)	0,55	44,13	51,78	5.683,27	171,50	0,62	-	1,00
HMA 56 T4 (A2:6) (30º)	0,75	43,31	50,46	6.312,70	182,48	0,74	-	1,00
HMA 56 T4 (A2:6) (32,5º)	0,75	41,54	48,32	6.816,48	186,16	0,85	-	1,00
HMA 56 T4 (A2:6) (35º)	1,10	40,81	47,28	7.342,60	190,02	0,95	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 56 T4 (A2:6) (37,5º)	1,10	40,23	46,45	7.862,73	190,73	1,04	-	1,00
HMA 56 T4 (A2:6) (40º)	1,10	39,29	45,24	8.480,79	189,26	1,15	-	1,00
HMA 56 T4 (A2:6) (42,5º)	1,50	35,79	41,42	9.378,45	175,73	1,29	-	1,00
HMA 56 T4 (A2:9) (20º)	0,55	43,18	51,09	4.510,05	188,20	0,56	-	1,00
HMA 56 T4 (A2:9) (25º)	0,75	44,95	52,07	5.727,70	206,64	0,75	-	1,00
HMA 56 T4 (A2:9) (27,5º)	0,75	44,41	51,28	6.096,34	211,34	0,82	-	1,00
HMA 56 T4 (A2:9) (30º)	1,10	44,08	50,45	6.957,51	222,61	0,99	-	1,00
HMA 56 T4 (A2:9) (32,5º)	1,10	42,64	48,70	7.427,79	228,49	1,11	-	1,00
HMA 56 T4 (A2:9) (35º)	1,10	41,32	47,08	7.870,82	234,75	1,23	-	1,00
HMA 56 T4 (A2:9) (37,5º)	1,50	41,13	46,64	8.527,29	232,60	1,35	-	1,00
HMA 56 T4 (A2:9) (40º)	1,50	39,82	45,06	9.032,45	234,01	1,49	-	1,00
HMA 56 T4 (A2:9) (42,5º)	1,50	38,18	43,05	9.753,80	237,69	1,71	-	1,00
HMA 56 T4 (A2:9) (45º)	2,20	39,10	43,90	10.151,47	238,50	1,75	-	1,00
HMA 56 T4 (A5:6) (20º)	0,37	41,96	50,37	4.495,62	156,81	0,47	-	1,00
HMA 56 T4 (A5:6) (25º)	0,55	49,01	57,11	5.837,90	157,13	0,52	-	1,00
HMA 56 T4 (A5:6) (30º)	0,55	49,99	57,60	6.824,50	161,71	0,63	-	1,00
HMA 56 T4 (A5:6) (35º)	0,75	47,66	54,67	7.938,85	170,02	0,78	-	1,00
HMA 56 T4 (A5:6) (40º)	1,10	39,26	45,21	9.132,29	181,13	1,15	-	1,00
HMA 56 T4 (A5:6) (45º)	1,50	35,23	40,59	9.839,96	185,64	1,43	-	1,00
HMA 63 T4 (A2:6) (20º)	0,55	46,54	54,64	5.597,59	156,21	0,53	-	1,00
HMA 63 T4 (A2:6) (25º)	0,75	47,61	54,69	7.295,27	176,58	0,76	-	1,00
HMA 63 T4 (A2:6) (27,5º)	0,75	47,56	54,37	7.744,65	183,98	0,84	-	1,00
HMA 63 T4 (A2:6) (30º)	1,10	47,75	54,02	8.772,94	199,68	1,02	-	1,00
HMA 63 T4 (A2:6) (32,5º)	1,10	46	51,86	9.516,33	206,89	1,19	-	1,00
HMA 63 T4 (A2:6) (35º)	1,50	44,72	50,21	10.251,35	213,86	1,36	-	1,00
HMA 63 T4 (A2:6) (37,5º)	1,50	42,98	48,16	10.889,88	217,69	1,52	-	1,00
HMA 63 T4 (A2:6) (40º)	1,50	40,99	45,84	11.637,19	219,76	1,72	-	1,00
HMA 63 T4 (A2:6) (42,5º)	2,20	42,28	47,02	13.042,69	205,81	1,78	-	1,00
HMA 63 T4 (A2:6) (45º)	2,20	41,53	46,18	13.663,22	200,21	1,85	-	1,00
HMA 63 T4 (A2:9) (20º)	0,75	47,17	54,13	6.148,87	213,88	0,79	-	1,00
HMA 63 T4 (A2:9) (25º)	1,10	48,94	55,07	7.962,04	233,30	1,07	-	1,00
HMA 63 T4 (A2:9) (27,5º)	1,10	48,40	54,24	8.505,02	241,06	1,20	-	1,00
HMA 63 T4 (A2:9) (30º)	1,50	47,84	53,07	9.754,93	258,40	1,49	-	1,00
HMA 63 T4 (A2:9) (32,5º)	2,20	47,54	52,45	10.591,50	268,69	1,68	-	1,00
HMA 63 T4 (A2:9) (35º)	2,20	45,49	50,02	11.259,62	280,23	1,93	-	1,00
HMA 63 T4 (A2:9) (37,5º)	2,20	44,35	48,60	12.083,39	281,74	2,14	-	1,00
HMA 63 T4 (A2:9) (40º)	2,20	43,30	47,27	12.859,31	284,14	2,36	-	1,00
HMA 63 T4 (A2:9) (42,5º)	3	42,13	45,84	14.284,18	273,90	2,61	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 63 T4 (A2:9) (45º)	3	41,37	44,93	14.927,31	270,56	2,74	-	1,00
HMA 63 T4 (A5:6) (20º)	0,55	58,44	66,30	6.389,10	183,64	0,57	-	1,00
HMA 63 T4 (A5:6) (25º)	0,75	57	64,09	7.776,55	192,57	0,76	-	1,00
HMA 63 T4 (A5:6) (30º)	1,10	50,05	55,85	9.522,02	226,10	1,22	-	1,00
HMA 63 T4 (A5:6) (35º)	1,50	46,36	51,58	10.712,41	232,53	1,50	-	1,00
HMA 63 T4 (A5:6) (40º)	2,20	43,08	47,68	12.458,07	235,51	1,88	-	1,00
HMA 63 T4 (A5:6) (45º)	2,20	38,10	42,19	13.997,47	219,16	2,26	-	1,00
HMA 71 T4 (A2:6) (20º)	0,75	50,01	57,20	7.232,09	180,97	0,73	-	1,00
HMA 71 T4 (A2:6) (25º)	1,10	51,02	57,10	9.713,86	205,13	1,09	-	1,00
HMA 71 T4 (A2:6) (27,5º)	1,10	50,62	56,39	10.445,36	212,23	1,23	-	1,00
HMA 71 T4 (A2:6) (30º)	1,50	49,55	54,68	12.220,43	224,43	1,55	-	1,00
HMA 71 T4 (A2:6) (32,5º)	2,20	49,93	54,74	13.295,01	234,64	1,74	-	1,00
HMA 71 T4 (A2:6) (35º)	2,20	48,30	52,71	14.300,74	245,13	2,01	-	1,00
HMA 71 T4 (A2:6) (37,5º)	2,20	46,71	50,85	15.321,60	243,73	2,22	-	1,00
HMA 71 T4 (A2:6) (40º)	2,20	44,72	48,55	16.418,70	242,62	2,49	-	1,00
HMA 71 T4 (A2:6) (42,5º)	3	42,46	45,98	18.344,18	230,23	2,79	-	1,00
HMA 71 T4 (A2:6) (45º)	3	41,05	44,42	19.243,09	224,55	2,95	-	1,00
HMA 71 T4 (A2:9) (20º)	1,10	50,72	56,91	7.655,80	248,42	1,05	-	1,00
HMA 71 T4 (A2:9) (25º)	1,50	52,10	57,31	10.640,51	257,93	1,51	-	1,00
HMA 71 T4 (A2:9) (27,5º)	1,50	51,40	56,31	11.378,55	267,44	1,68	-	1,00
HMA 71 T4 (A2:9) (30º)	2,20	51,57	55,93	13.009,18	289,31	2,05	-	1,00
HMA 71 T4 (A2:9) (32,5º)	2,20	49,79	53,74	14.180,50	297,36	2,38	-	1,00
HMA 71 T4 (A2:9) (35º)	3	48,37	51,95	15.396,63	304,31	2,73	-	1,00
HMA 71 T4 (A2:9) (37,5º)	3	46,73	49,99	16.573,97	309,50	3,07	-	1,00
HMA 71 T4 (A2:9) (40º)	4	45,40	48,37	17.946,26	309,93	3,41	-	1,00
HMA 71 T4 (A2:9) (42,5º)	4	43,23	45,91	18.398,10	316,72	3,78	-	1,00
HMA 71 T4 (A2:9) (45º)	4	42,42	44,94	20.056,09	303,54	4,02	-	1,00
HMA 71 T4 (A5:6) (20º)	0,75	57,58	64,41	8.372,56	199,99	0,83	-	1,00
HMA 71 T4 (A5:6) (25º)	1,10	51,46	57,12	10.421,74	221,18	1,28	-	1,00
HMA 71 T4 (A5:6) (30º)	1,50	50,13	54,98	12.513,58	242,11	1,72	-	1,00
HMA 71 T4 (A5:6) (35º)	2,20	46,20	50,22	14.810,97	258,66	2,33	-	1,00
HMA 71 T4 (A5:6) (40º)	3	42,78	46,35	16.494,79	256,36	2,74	-	1,00
HMA 71 T4 (A5:6) (45º)	3	37,02	40,02	18.533,17	241,52	3,37	-	1,00
HMA 80 T4 (A2:6) (20º)	1,10	53,21	59,63	9.017,50	205,42	0,97	-	1,00
HMA 80 T4 (A2:6) (25º)	1,50	53,14	58,35	12.875,65	221,82	1,50	-	1,00
HMA 80 T4 (A2:6) (27,5º)	1,50	52,90	57,79	13.912,06	229,68	1,69	-	1,00
HMA 80 T4 (A2:6) (30º)	2,20	53,35	57,60	16.277,48	250,03	2,14	-	1,00
HMA 80 T4 (A2:6) (32,5º)	3	52,01	55,85	17.909,79	258,43	2,49	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 80 T4 (A2:6) (35º)	3	50,95	54,40	19.545,96	267,44	2,86	-	1,00
HMA 80 T4 (A2:6) (37,5º)	3	48,19	51,27	20.944,62	272,86	3,29	-	1,00
HMA 80 T4 (A2:6) (40º)	4	45,96	48,69	22.257,02	278,20	3,71	-	1,00
HMA 80 T4 (A2:6) (42,5º)	4	42,32	44,58	24.366,89	272,71	4,42	-	1,00
HMA 80 T4 (A2:6) (45º)	5,50	40,94	43,02	25.624,11	267,80	4,72	-	1,00
HMA 80 T4 (A2:9) (20º)	1,50	52,55	57,83	9.930,44	277,46	1,47	-	1,00
HMA 80 T4 (A2:9) (25º)	2,20	53,91	58,11	14.232,06	288,73	2,17	-	1,00
HMA 80 T4 (A2:9) (27,5º)	2,20	53,20	57,10	15.356,78	294,47	2,42	-	1,00
HMA 80 T4 (A2:9) (30º)	3	52,58	55,90	17.836,16	312,15	3	-	1,00
HMA 80 T4 (A2:9) (32,5º)	4	50,15	52,98	19.620,62	325,17	3,59	-	1,00
HMA 80 T4 (A2:9) (35º)	4	46,84	49,15	21.510,72	335,77	4,34	-	1,00
HMA 80 T4 (A2:9) (37,5º)	5,50	46,12	48,16	22.829,66	347,67	4,79	-	1,00
HMA 80 T4 (A2:9) (40º)	5,50	45,16	46,91	24.231,93	358,68	5,33	-	1,00
HMA 80 T4 (A2:9) (42,5º)	7,50	43,97	45,39	26.699,82	351,80	6	-	1,00
HMA 80 T4 (A2:9) (45º)	7,50	42,84	44,10	27.950,61	347,62	6,38	-	1,00
HMA 80 T4 (A5:6) (20º)	1,50	50,60	56,25	9.718,37	239,52	1,28	-	1,00
HMA 80 T4 (A5:6) (25º)	1,50	51,79	56,64	12.356,85	255,99	1,72	-	1,00
HMA 80 T4 (A5:6) (30º)	3	57,60	61,42	17.261,55	298,01	2,50	-	1,00
HMA 80 T4 (A5:6) (35º)	3	50,98	54,06	19.869,77	303,75	3,28	-	1,00
HMA 80 T4 (A5:6) (40º)	4	48,60	51,08	22.484,61	317,95	4,08	-	1,00
HMA 90 T4 (A6:3) (20º)	3	47,86	51,68	17.863,23	241,50	2,50	-	1,00
HMA 90 T4 (A6:3) (22º)	3	47,91	51,28	19.477,11	260,37	2,94	-	1,00
HMA 90 T4 (A6:3) (24º)	4	47,93	50,91	21.003,49	279,10	3,39	-	1,00
HMA 90 T4 (A6:3) (26º)	4	46,77	49,36	22.226,07	297,64	3,92	-	1,00
HMA 90 T4 (A6:3) (28º)	5,50	46,03	48,27	23.503,70	315,93	4,45	-	1,00
HMA 90 T4 (A6:3) (30º)	5,50	43,90	45,82	25.124,90	318	5,01	-	1,00
HMA 90 T4 (A6:3) (32º)	5,50	41,52	43,12	27.168,60	312,11	5,62	-	1,00
HMA 90 T4 (A6:3) (34º)	7,50	39,63	40,95	28.904,06	310,41	6,23	-	1,00
HMA 90 T4 (A6:6) (20º)	4	50,24	52,64	20.935,53	357,55	4,21	-	1,00
HMA 90 T4 (A6:6) (22º)	5,50	50,37	52,34	22.948,84	382,82	4,91	-	1,00
HMA 90 T4 (A6:6) (24º)	5,50	49,83	51,39	24.822,91	408,33	5,72	-	1,00
HMA 90 T4 (A6:6) (26º)	7,50	49,09	50,27	26.295,39	434,32	6,54	-	1,00
HMA 90 T4 (A6:6) (28º)	7,50	47,70	48,49	27.997,79	455,42	7,55	-	1,00
HMA 90 T4 (A6:6) (30º)	11	46,40	46,88	29.455,68	475,22	8,46	-	1,00
HMA 90 T4 (A6:6) (32º)	11	44,58	44,75	31.020,14	487,87	9,48	-	1,00
HMA 90 T4 (A6:6) (34º)	11	42,88	42,92	32.656,98	500,10	10,55	-	1,00
HMA 90 T4 (A6:6) (36º)	11	41,66	41,63	34.544,58	503,44	11,60	-	1,00
HMA 90 T4 (A6:6) (38º)	15	41,54	41,45	36.648,69	506,77	12,54	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 100 T4 (A6:3) (20º)	5,50	52,97	55,80	23.588,59	289,56	3,60	-	1,00
HMA 100 T4 (A6:3) (22º)	5,50	53,22	55,59	25.751,94	315,11	4,25	-	1,00
HMA 100 T4 (A6:3) (24º)	5,50	52,70	54,63	27.799,11	338,97	4,98	-	1,00
HMA 100 T4 (A6:3) (26º)	5,50	51,15	52,68	29.438,30	361,04	5,77	-	1,00
HMA 100 T4 (A6:3) (28º)	7,50	50,33	51,51	31.256,32	380,11	6,55	-	1,00
HMA 100 T4 (A6:3) (30º)	7,50	47,69	48,53	33.567,09	379,57	7,41	-	1,00
HMA 100 T4 (A6:3) (32º)	11	45,29	45,83	36.499,40	370,95	8,25	-	1,00
HMA 100 T4 (A6:3) (34º)	11	42,17	42,39	39.149,37	364,08	9,29	-	1,00
HMA 100 T4 (A6:6) (20º)	7,50	53,61	55	27.055,23	423,93	6,07	-	1,00
HMA 100 T4 (A6:6) (22º)	7,50	53,69	54,59	30.100,38	455,26	7,25	-	1,00
HMA 100 T4 (A6:6) (24º)	11	53,90	54,40	32.887,61	485,31	8,40	-	1,00
HMA 100 T4 (A6:6) (26º)	11	53,49	53,64	35.494,98	509,83	9,54	-	1,00
HMA 100 T4 (A6:6) (28º)	11	52,38	52,39	38.029,70	536,50	10,91	-	1,00
HMA 100 T4 (A6:6) (30º)	15	50,95	50,87	40.939,63	546,46	12,24	-	1,00
HMA 100 T4 (A6:6) (32º)	15	49,27	49,11	43.963,32	553,97	13,69	-	1,00
HMA 100 T4 (A6:6) (34º)	15	47,15	46,90	46.811,43	561,60	15,36	-	1,00
HMA 100 T4 (A6:6) (36º)	18,50	45,06	44,73	49.461,76	567,01	17,05	-	1,00
HMA 100 T4 (A6:6) (38º)	18,50	42,76	42,34	52.080,90	571,48	18,99	-	1,00
HMA 100 T4 (A6:6) (40º)	22	41,77	41,28	55.041,76	558,03	20,67	-	1,00
HMA 112 T4 (A6:3) (20º)	5,50	51,62	53,62	27.680,89	325,76	4,86	-	1,00
HMA 112 T4 (A6:3) (22º)	5,50	53,28	54,80	31.399,79	353,63	5,79	-	1,00
HMA 112 T4 (A6:3) (24º)	7,50	54,40	55,49	34.868,01	379,34	6,75	-	1,00
HMA 112 T4 (A6:3) (26º)	7,50	52,47	53,11	38.214,74	395,84	8	-	1,00
HMA 112 T4 (A6:3) (28º)	11	51,40	51,63	41.811,24	410,47	9,25	-	1,00
HMA 112 T4 (A6:3) (30º)	11	49,11	49,16	44.804,52	416,14	10,49	-	1,00
HMA 112 T4 (A6:3) (32º)	11	46,70	46,65	47.862,69	420,41	11,87	-	1,00
HMA 112 T4 (A6:3) (34º)	15	44,24	44,11	50.935,27	420,05	13,29	-	1,00
HMA 112 T4 (A6:3) (36º)	15	41,15	40,92	53.371,22	418,21	14,91	-	1,00
HMA 112 T4 (A6:6) (20º)	11	52,78	53,23	32.237,17	498,40	8,55	-	1,00
HMA 112 T4 (A6:6) (22º)	11	53,91	53,98	36.703,43	526	10,12	-	1,00
HMA 112 T4 (A6:6) (24º)	11	54,22	54,16	40.952,51	556,80	11,89	-	1,00
HMA 112 T4 (A6:6) (26º)	15	54,94	54,79	45.443,76	576,54	13,48	-	1,00
HMA 112 T4 (A6:6) (28º)	15	54,87	54,62	50.032,67	596,99	15,41	-	1,00
HMA 112 T4 (A6:6) (30º)	18,50	54,09	53,74	53.668,11	624,79	17,37	-	1,00
HMA 112 T4 (A6:6) (32º)	18,50	52,90	52,46	57.359,42	651,53	19,59	-	1,00
HMA 112 T4 (A6:6) (34º)	22	51,41	50,88	60.844,52	672,29	21,86	-	1,00
HMA 112 T4 (A6:6) (36º)	30	49,32	48,72	64.237,08	680,21	24,21	-	1,00
HMA 112 T4 (A6:6) (38º)	30	47,05	46,37	67.632,83	687,72	26,88	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 112 T4 (A6:6) (40º)	30	46,14	45,38	72.014,77	673,96	29,65	-	1,00
HMA 112 T4 (A6:6) (42º)	37	43,82	42,99	76.396,52	661,82	32,57	-	1,00
HMA 125 T4 (A7:4) (20º)	11	49,24	49,44	37.436,03	441,89	9,35	-	1,00
HMA 125 T4 (A7:4) (22º)	11	51,37	51,38	42.358,02	479,07	11	-	1,00
HMA 125 T4 (A7:4) (24º)	15	52,90	52,79	47.318,45	512,60	12,76	-	1,00
HMA 125 T4 (A7:4) (26º)	15	52,84	52,62	52.423,63	541,11	14,92	-	1,00
HMA 125 T4 (A7:4) (28º)	18,50	53,12	52,78	57.577,02	569,69	17,11	-	1,00
HMA 125 T4 (A7:4) (30º)	18,50	51,29	50,85	62.077,08	583,99	19,54	-	1,00
HMA 125 T4 (A7:4) (32º)	22	49,53	48,99	66.745,10	597,73	22,17	-	1,00
HMA 125 T4 (A7:4) (34º)	30	47,27	46,64	71.395,42	601,89	24,93	-	1,00
HMA 125 T4 (A7:4) (36º)	30	44,11	43,40	76.332,49	590,34	27,96	-	1,00
HMA 125 T4 (A7:4) (38º)	37	40,84	40,03	81.694,32	580,35	31,66	-	1,00
HMA 125 T4 (A7:8) (20º)	15	50,18	49,93	41.480,11	669,59	15,48	-	1,00
HMA 125 T4 (A7:8) (22º)	18,50	51,20	50,81	47.263,50	710,47	18,37	-	1,00
HMA 125 T4 (A7:8) (24º)	22	51,84	51,32	53.481,72	747,25	21,65	-	1,00
HMA 125 T4 (A7:8) (26º)	30	52,93	52,30	60.188,52	783,77	25,04	-	1,00
HMA 125 T4 (A7:8) (28º)	30	53,56	52,81	66.751,27	824,34	28,90	-	1,00
HMA 125 T4 (A7:8) (30º)	37	52,70	51,87	72.110,16	851,08	32,59	-	1,00
HMA 125 T4 (A7:8) (32º)	37	51,74	50,81	77.824,27	872,54	36,69	-	1,00
HMA 125 T4 (A7:8) (34º)	45	50,39	49,37	83.252,88	893,83	41,06	-	1,00
HMA 125 T4 (A7:8) (36º)	45	48,97	47,86	89.032,07	905,02	45,80	-	1,00
HMA 125 T4 (A7:8) (38º)	45	46,85	45,66	94.456,41	922,18	51,51	-	1,00
HMA 125 T4 (A7:8) (40º)	45	44,93	43,67	99.748,76	914	56,52	-	1,00
HMA 125 T4 (A7:8) (42º)	45	42,73	41,39	103.709,46	915,51	61,86	-	1,00

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Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 50 T6 (A0:6) (35º)	0,18	29,72	41,45	2.867,25	51,97	0,14	-	1,00
HMA 50 T6 (A0:6) (40º)	0,18	30,50	41,83	3.338,73	52,70	0,16	-	1,00
HMA 56 T6 (A2:6) (20º)	0,18	31,05	42,45	2.771,99	63,19	0,16	-	1,00
HMA 56 T6 (A2:6) (25º)	0,18	33,64	44,32	3.510,42	69,95	0,20	-	1,00
HMA 56 T6 (A2:6) (27,5º)	0,18	33,58	44,05	3.672,17	72,19	0,22	-	1,00
HMA 56 T6 (A2:6) (30º)	0,18	33,07	43,05	4.094,24	76,36	0,26	-	1,00
HMA 56 T6 (A2:6) (32,5º)	0,25	34,17	43,98	4.410,09	78,51	0,28	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 56 T6 (A2:6) (35º)	0,25	33,16	42,64	4.753,82	79,97	0,32	-	1,00
HMA 56 T6 (A2:6) (37,5º)	0,25	32,61	41,83	5.109,35	79,65	0,35	-	1,00
HMA 56 T6 (A2:6) (40º)	0,37	32,38	41,38	5.477,76	79,60	0,38	-	1,00
HMA 56 T6 (A2:9) (20º)	0,18	32,36	43,06	2.917,65	79,10	0,20	-	1,00
HMA 56 T6 (A2:9) (25º)	0,18	34,39	44,35	3.702,61	86,91	0,27	-	1,00
HMA 56 T6 (A2:9) (27,5º)	0,25	36,31	46,20	3.951,84	88,63	0,27	-	1,00
HMA 56 T6 (A2:9) (30º)	0,25	35,75	45,12	4.510,27	93,49	0,33	-	1,00
HMA 56 T6 (A2:9) (32,5º)	0,37	34,99	44,07	4.818,14	96,05	0,37	-	1,00
HMA 56 T6 (A2:9) (35º)	0,37	34,45	43,28	5.132,65	97,84	0,40	-	1,00
HMA 56 T6 (A2:9) (37,5º)	0,37	34,47	43,06	5.486,25	98,22	0,44	-	1,00
HMA 56 T6 (A2:9) (40º)	0,37	33,80	42,16	5.891,27	97,63	0,48	-	1,00
HMA 56 T6 (A2:9) (42,5º)	0,55	33,44	41,50	6.312,41	100,05	0,53	-	1,00
HMA 56 T6 (A2:9) (45º)	0,55	33,24	41,16	6.581,44	100,16	0,56	-	1,00
HMA 56 T6 (A5:6) (20º)	0,18	33,88	45,04	2.997,08	69,69	0,17	-	1,00
HMA 56 T6 (A5:6) (25º)	0,18	37,02	47,69	3.891,87	69,84	0,21	-	1,00
HMA 56 T6 (A5:6) (30º)	0,18	38,62	48,87	4.549,65	71,87	0,24	-	1,00
HMA 56 T6 (A5:6) (35º)	0,25	39,16	48,97	5.292,56	75,56	0,28	-	1,00
HMA 56 T6 (A5:6) (40º)	0,37	32,85	41,65	6.088,13	80,50	0,41	-	1,00
HMA 63 T6 (A2:6) (20º)	0,37	33,20	43,94	3.629,47	65,51	0,20	-	1,00
HMA 63 T6 (A2:6) (25º)	0,37	36,82	46,77	4.713,19	74,55	0,27	-	1,00
HMA 63 T6 (A2:6) (27,5º)	0,37	37,51	47,25	5.012,22	77,23	0,29	-	1,00
HMA 63 T6 (A2:6) (30º)	0,37	38,56	47,81	5.691,23	83,66	0,34	-	1,00
HMA 63 T6 (A2:6) (32,5º)	0,37	38,10	47,01	6.161,12	86,82	0,39	-	1,00
HMA 63 T6 (A2:6) (35º)	0,37	37,41	45,99	6.649,29	89,61	0,44	-	1,00
HMA 63 T6 (A2:6) (37,5º)	0,37	36,52	44,82	7.082,78	91,09	0,49	-	1,00
HMA 63 T6 (A2:6) (40º)	0,55	36,28	44,33	7.515,99	92,50	0,53	-	1,00
HMA 63 T6 (A2:6) (42,5º)	0,55	36,01	43,88	8.469,61	86,36	0,57	-	1,00
HMA 63 T6 (A2:6) (45º)	0,55	35,30	43,08	8.933,54	83,22	0,59	-	1,00
HMA 63 T6 (A2:9) (20º)	0,37	36,71	46,56	3.974,97	90,06	0,28	-	1,00
HMA 63 T6 (A2:9) (25º)	0,37	39,82	48,97	5.176,19	97,61	0,36	-	1,00
HMA 63 T6 (A2:9) (27,5º)	0,37	40,20	49,10	5.520,02	101,08	0,39	-	1,00
HMA 63 T6 (A2:9) (30º)	0,37	40,57	48,92	6.329,06	108,71	0,48	-	1,00
HMA 63 T6 (A2:9) (32,5º)	0,55	39,96	47,97	6.828,85	112,96	0,54	-	1,00
HMA 63 T6 (A2:9) (35º)	0,55	39,10	46,77	7.347,39	117,12	0,61	-	1,00
HMA 63 T6 (A2:9) (37,5º)	0,55	38,34	45,76	7.815,16	118,58	0,67	-	1,00
HMA 63 T6 (A2:9) (40º)	0,75	38,87	46,11	8.319,23	119,52	0,72	-	1,00
HMA 63 T6 (A2:9) (42,5º)	0,75	37,80	44,76	9.247,46	115,29	0,79	-	1,00
HMA 63 T6 (A2:9) (45º)	0,75	37,18	44,01	9.652,81	114,15	0,83	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 63 T6 (A5:6) (20º)	0,37	43,66	54,06	4.259,40	81,62	0,23	-	1,00
HMA 63 T6 (A5:6) (25º)	0,37	44,74	54,51	5.182,49	85,62	0,29	-	1,00
HMA 63 T6 (A5:6) (30º)	0,37	42,19	50,85	6.348,01	100,49	0,43	-	1,00
HMA 63 T6 (A5:6) (35º)	0,55	40,11	48,27	7.141,60	103,35	0,51	-	1,00
HMA 63 T6 (A5:6) (40º)	0,55	37,14	44,66	8.305,28	104,67	0,65	-	1,00
HMA 63 T6 (A5:6) (45º)	0,75	34,12	41,24	9.329,94	97,42	0,75	-	1,00
HMA 71 T6 (A2:6) (20º)	0,37	38,28	48,31	4.675,80	76,12	0,26	-	1,00
HMA 71 T6 (A2:6) (25º)	0,37	41,86	50,96	6.302,13	86,22	0,36	-	1,00
HMA 71 T6 (A2:6) (27,5º)	0,37	42,18	51,03	6.825,43	88,07	0,40	-	1,00
HMA 71 T6 (A2:6) (30º)	0,37	42,25	50,50	7.907,34	94,60	0,50	-	1,00
HMA 71 T6 (A2:6) (32,5º)	0,55	42,27	50,20	8.581,39	98,81	0,56	-	1,00
HMA 71 T6 (A2:6) (35º)	0,55	41,80	49,37	9.218,05	103,99	0,64	-	1,00
HMA 71 T6 (A2:6) (37,5º)	0,55	40,83	48,16	9.982,19	101,58	0,69	-	1,00
HMA 71 T6 (A2:6) (40º)	0,75	40,25	47,37	10.642,65	101,62	0,75	-	1,00
HMA 71 T6 (A2:6) (42,5º)	0,75	37,86	44,64	11.879,86	96,12	0,85	-	1,00
HMA 71 T6 (A2:6) (45º)	0,75	36,79	43,42	12.385,29	94,66	0,90	-	1,00
HMA 71 T6 (A2:9) (20º)	0,37	41,10	50,29	4.945,90	104,43	0,35	-	1,00
HMA 71 T6 (A2:9) (25º)	0,37	44,09	52,42	6.881,58	108,73	0,48	-	1,00
HMA 71 T6 (A2:9) (27,5º)	0,55	44,56	52,65	7.358,35	112,21	0,53	-	1,00
HMA 71 T6 (A2:9) (30º)	0,55	44,36	51,88	8.445,90	120,61	0,65	-	1,00
HMA 71 T6 (A2:9) (32,5º)	0,75	44,56	51,78	9.214,12	124,07	0,72	-	1,00
HMA 71 T6 (A2:9) (35º)	0,75	43,34	50,18	9.993,72	127,42	0,83	-	1,00
HMA 71 T6 (A2:9) (37,5º)	0,75	41,82	48,34	10.718,70	130,12	0,93	-	1,00
HMA 71 T6 (A2:9) (40º)	1,10	41,50	47,79	11.635,72	130,18	1,01	-	1,00
HMA 71 T6 (A2:9) (42,5º)	1,10	39,68	45,67	12.454,44	129,23	1,13	-	1,00
HMA 71 T6 (A2:9) (45º)	1,10	38,82	44,67	13.031,81	127	1,19	-	1,00
HMA 71 T6 (A5:6) (20º)	0,37	46,14	55,71	5.581,71	88,88	0,31	-	1,00
HMA 71 T6 (A5:6) (25º)	0,37	43,71	52,26	6.947,87	98,30	0,44	-	1,00
HMA 71 T6 (A5:6) (30º)	0,55	44,18	52,02	8.342,39	107,60	0,58	-	1,00
HMA 71 T6 (A5:6) (35º)	0,75	41,45	48,50	9.873,98	114,96	0,77	-	1,00
HMA 71 T6 (A5:6) (40º)	0,75	38,28	44,88	10.996,52	113,94	0,91	-	1,00
HMA 71 T6 (A5:6) (45º)	1,10	34,26	40,38	12.355,45	107,34	1,08	-	1,00
HMA 80 T6 (A2:6) (20º)	0,75	43,87	53,32	5.869,64	85,92	0,32	-	1,00
HMA 80 T6 (A2:6) (25º)	0,75	46,73	55,17	8.428,22	91,78	0,46	-	1,00
HMA 80 T6 (A2:6) (27,5º)	0,75	47,37	55,53	9.025,78	96,48	0,51	-	1,00
HMA 80 T6 (A2:6) (30º)	0,75	47,17	54,66	10.572,62	104,25	0,65	-	1,00
HMA 80 T6 (A2:6) (32,5º)	0,75	46,74	53,84	11.676,45	108,10	0,76	-	1,00
HMA 80 T6 (A2:6) (35º)	0,75	45,66	52,37	12.709,28	111,98	0,87	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 80 T6 (A2:6) (37,5º)	1,10	44,39	50,81	13.500,43	115	0,97	-	1,00
HMA 80 T6 (A2:6) (40º)	1,10	42,01	48,08	14.381,77	116,95	1,10	-	1,00
HMA 80 T6 (A2:6) (42,5º)	1,10	38,80	44,38	15.773,02	114,58	1,31	-	1,00
HMA 80 T6 (A2:6) (45º)	1,50	37,84	43,27	16.674,15	111,89	1,39	-	1,00
HMA 80 T6 (A2:9) (20º)	0,75	46,31	54,80	6.435,84	116,89	0,46	-	1,00
HMA 80 T6 (A2:9) (25º)	0,75	47,84	55,29	9.202,40	121,51	0,66	-	1,00
HMA 80 T6 (A2:9) (27,5º)	0,75	47,57	54,75	9.873,19	124,39	0,73	-	1,00
HMA 80 T6 (A2:9) (30º)	0,75	47,20	53,79	11.569,36	131,24	0,91	-	1,00
HMA 80 T6 (A2:9) (32,5º)	1,10	45,84	51,99	12.707,55	136,89	1,07	-	1,00
HMA 80 T6 (A2:9) (35º)	1,10	42,87	48,51	13.882,14	141,44	1,29	-	1,00
HMA 80 T6 (A2:9) (37,5º)	1,50	42,94	48,33	14.868,76	145,92	1,41	-	1,00
HMA 80 T6 (A2:9) (40º)	1,50	41,74	46,84	15.689,22	150,60	1,57	-	1,00
HMA 80 T6 (A2:9) (42,5º)	2,20	40,76	45,55	17.313,51	147,18	1,76	-	1,00
HMA 80 T6 (A2:9) (45º)	2,20	39,71	44,33	18.133,18	145,20	1,86	-	1,00
HMA 80 T6 (A5:6) (20º)	0,75	44,10	52,71	6.478,97	106,45	0,44	-	1,00
HMA 80 T6 (A5:6) (25º)	0,75	46,78	54,69	8.237,88	113,78	0,56	-	1,00
HMA 80 T6 (A5:6) (30º)	0,75	51,64	58,49	11.507,70	132,45	0,83	-	1,00
HMA 80 T6 (A5:6) (35º)	1,10	47,12	53,31	13.246,54	135	1,05	-	1,00
HMA 80 T6 (A5:6) (40º)	1,10	44,42	49,99	14.989,74	141,31	1,32	-	1,00
HMA 80 T6 (A5:6) (45º)	1,50	38,67	43,70	17.074,55	130,65	1,61	-	1,00
HMA 90 T6 (A6:3) (20º)	1,50	43,05	50,14	11.655,62	100,63	0,76	-	1,00
HMA 90 T6 (A6:3) (22º)	1,50	43,71	50,41	12.594,45	109,28	0,87	-	1,00
HMA 90 T6 (A6:3) (24º)	1,50	44,08	50,40	13.636	117,21	1,01	-	1,00
HMA 90 T6 (A6:3) (26º)	1,50	43,34	49,30	14.329,80	125,47	1,15	-	1,00
HMA 90 T6 (A6:3) (28º)	1,50	42,72	48,32	15.114,86	133,70	1,31	-	1,00
HMA 90 T6 (A6:3) (30º)	1,50	40,66	45,93	16.331,72	133,18	1,47	-	1,00
HMA 90 T6 (A6:3) (32º)	1,50	38,39	43,35	17.530,96	131,64	1,65	-	1,00
HMA 90 T6 (A6:3) (34º)	2,20	36,96	41,65	18.745,80	130,07	1,82	-	1,00
HMA 90 T6 (A6:6) (20º)	1,50	46,68	52,45	13.525,17	151,01	1,23	-	1,00
HMA 90 T6 (A6:6) (22º)	1,50	46,77	52,10	14.868,57	161,48	1,44	-	1,00
HMA 90 T6 (A6:6) (24º)	1,50	46,22	51,13	16.093,63	171,86	1,68	-	1,00
HMA 90 T6 (A6:6) (26º)	2,20	45,82	50,38	17.106,27	181,43	1,91	-	1,00
HMA 90 T6 (A6:6) (28º)	2,20	44,51	48,69	18.062,80	192,50	2,19	-	1,00
HMA 90 T6 (A6:6) (30º)	2,20	43,01	46,85	19.133,80	199,01	2,48	-	1,00
HMA 90 T6 (A6:6) (32º)	3	41,87	45,43	20.023,73	206,31	2,75	-	1,00
HMA 90 T6 (A6:6) (34º)	3	40,22	43,49	21.166,24	209,08	3,05	-	1,00
HMA 90 T6 (A6:6) (36º)	3	39,29	42,30	22.377,36	211,71	3,36	-	1,00
HMA 90 T6 (A6:6) (38º)	4	39,34	42,15	23.811,79	212,36	3,62	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 100 T6 (A6:3) (20º)	3	47,35	53,43	15.269,87	121,92	1,10	-	1,00
HMA 100 T6 (A6:3) (22º)	3	48,53	54,21	16.701,36	132,54	1,27	-	1,00
HMA 100 T6 (A6:3) (24º)	3	48,80	54,08	17.985,64	142,77	1,46	-	1,00
HMA 100 T6 (A6:3) (26º)	3	47,99	52,91	19.152,33	150,97	1,67	-	1,00
HMA 100 T6 (A6:3) (28º)	3	47,09	51,65	20.236,81	159,70	1,91	-	1,00
HMA 100 T6 (A6:3) (30º)	3	44,91	49,16	21.822,21	158,77	2,14	-	1,00
HMA 100 T6 (A6:3) (32º)	3	42,32	46,26	23.575,66	155,94	2,40	-	1,00
HMA 100 T6 (A6:3) (34º)	3	39,70	43,32	25.358,26	153,43	2,69	-	1,00
HMA 100 T6 (A6:3) (36º)	3	36,69	40,02	26.972,39	148,05	3	-	1,00
HMA 100 T6 (A6:6) (20º)	3	49,87	54,63	17.486,79	179,25	1,78	-	1,00
HMA 100 T6 (A6:6) (22º)	3	50,40	54,70	19.498,64	190,85	2,10	-	1,00
HMA 100 T6 (A6:6) (24º)	3	50,63	54,52	21.348,84	203,68	2,44	-	1,00
HMA 100 T6 (A6:6) (26º)	3	50,17	53,72	22.968,11	214,14	2,76	-	1,00
HMA 100 T6 (A6:6) (28º)	3	49,07	52,24	24.613,37	225,37	3,16	-	1,00
HMA 100 T6 (A6:6) (30º)	4	48,03	50,91	26.508	229,19	3,53	-	1,00
HMA 100 T6 (A6:6) (32º)	4	46,33	48,89	28.489,87	232,14	3,96	-	1,00
HMA 100 T6 (A6:6) (34º)	4	44,41	46,65	30.354,18	235,59	4,44	-	1,00
HMA 100 T6 (A6:6) (36º)	5,50	42,72	44,70	32.077,28	237,53	4,89	-	1,00
HMA 100 T6 (A6:6) (38º)	5,50	40,60	42,28	33.810,22	240,04	5,45	-	1,00
HMA 100 T6 (A6:6) (40º)	5,50	39,49	40,94	35.779	233,18	5,94	-	1,00
HMA 112 T6 (A6:3) (20º)	3	47,70	53,05	17.858,55	137,35	1,43	-	1,00
HMA 112 T6 (A6:3) (22º)	3	50,19	55,10	20.267,63	149,43	1,68	-	1,00
HMA 112 T6 (A6:3) (24º)	3	50,93	55,41	22.635,90	158,75	1,96	-	1,00
HMA 112 T6 (A6:3) (26º)	3	49,68	53,73	24.842,09	165,68	2,30	-	1,00
HMA 112 T6 (A6:3) (28º)	3	48,25	51,88	27.083,62	172,28	2,68	-	1,00
HMA 112 T6 (A6:3) (30º)	3	46,21	49,50	29.004,93	175,13	3,04	-	1,00
HMA 112 T6 (A6:3) (32º)	3	43,72	46,65	31.060,32	176,18	3,45	-	1,00
HMA 112 T6 (A6:3) (34º)	4	41,66	44,31	32.962,45	176,55	3,84	-	1,00
HMA 112 T6 (A6:3) (36º)	4	38,64	40,97	34.545,12	175,66	4,32	-	1,00
HMA 112 T6 (A6:6) (20º)	3	49,39	53,23	20.848	209,34	2,48	-	1,00
HMA 112 T6 (A6:6) (22º)	3	50,69	54,07	23.752,54	221,76	2,93	-	1,00
HMA 112 T6 (A6:6) (24º)	3	50,81	53,75	26.484,45	234,27	3,45	-	1,00
HMA 112 T6 (A6:6) (26º)	4	51,68	54,29	29.506,12	241,29	3,90	-	1,00
HMA 112 T6 (A6:6) (28º)	4	51,64	53,87	32.443,65	250,25	4,45	-	1,00
HMA 112 T6 (A6:6) (30º)	5,50	51,28	53,21	34.808,90	261,77	4,98	-	1,00
HMA 112 T6 (A6:6) (32º)	5,50	50,14	51,74	37.132,25	273,49	5,62	-	1,00
HMA 112 T6 (A6:6) (34º)	7,50	49,60	50,95	39.423,52	282,46	6,17	-	1,00
HMA 112 T6 (A6:6) (36º)	7,50	47,28	48,33	41.617,76	285,29	6,87	-	1,00

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m³/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HMA 112 T6 (A6:6) (38º)	7,50	45,02	45,78	43.738,41	289,26	7,64	-	1,00
HMA 112 T6 (A6:6) (40º)	11	44,42	44,92	46.645,30	283,18	8,38	-	1,00
HMA 112 T6 (A6:6) (42º)	11	42,03	42,27	49.498,53	277,92	9,24	-	1,00
HMA 125 T6 (A7:4) (20º)	3	46,31	49,91	24.233,19	185,89	2,71	-	1,00
HMA 125 T6 (A7:4) (22º)	3	48,21	51,36	27.403,92	201,73	3,19	-	1,00
HMA 125 T6 (A7:4) (24º)	4	49,90	52,66	30.566,95	216,22	3,69	-	1,00
HMA 125 T6 (A7:4) (26º)	4	49,67	51,99	33.888,81	227,55	4,32	-	1,00
HMA 125 T6 (A7:4) (28º)	5,50	50,32	52,28	37.240,81	239,65	4,92	-	1,00
HMA 125 T6 (A7:4) (30º)	5,50	48,74	50,35	40.177,12	245,56	5,59	-	1,00
HMA 125 T6 (A7:4) (32º)	7,50	47,70	49	43.209,79	251,25	6,26	-	1,00
HMA 125 T6 (A7:4) (34º)	7,50	45,32	46,29	46.312,63	252,25	7,07	-	1,00
HMA 125 T6 (A7:4) (36º)	7,50	42,35	43	49.665,35	247,58	7,95	-	1,00
HMA 125 T6 (A7:8) (20º)	4	47,06	49,27	26.696,21	283,54	4,49	-	1,00
HMA 125 T6 (A7:8) (22º)	5,50	48,56	50,34	30.645,08	297,68	5,26	-	1,00
HMA 125 T6 (A7:8) (24º)	7,50	49,95	51,32	34.677,46	313,95	6,11	-	1,00
HMA 125 T6 (A7:8) (26º)	7,50	50,74	51,70	38.941,53	329,25	7,10	-	1,00
HMA 125 T6 (A7:8) (28º)	7,50	51,29	51,84	43.274,16	346,56	8,23	-	1,00
HMA 125 T6 (A7:8) (30º)	11	50,67	50,91	46.803,60	357,08	9,23	-	1,00
HMA 125 T6 (A7:8) (32º)	11	49,60	49,65	50.345,14	366,45	10,38	-	1,00
HMA 125 T6 (A7:8) (34º)	11	48,50	48,47	54.072,65	373,66	11,61	-	1,00
HMA 125 T6 (A7:8) (36º)	15	47,63	47,52	57.707,96	379,39	12,79	-	1,00
HMA 125 T6 (A7:8) (38º)	15	45,59	45,39	61.565,16	384,24	14,45	-	1,00
HMA 125 T6 (A7:8) (40º)	15	43,46	43,18	64.341,26	384,84	15,88	-	1,00
HMA 125 T6 (A7:8) (42º)	15	41,62	41,27	67.617,95	381,61	17,38	-	1,00