

HBF F300



AXIAL FAN 300°C/2h

MANUFACTURING FEATURES

- Axial fan with circular reinforced frame.
- Modular motor-impeller assembly.
- Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
- Standard asynchronous squirrel cage motor with IP-55 protection and Class H insulation certified 300°C/2h. Standard voltages 400V(Y) 50Hz in three phase motors up to 3kW and 400V 50Hz for higher powers and 2 speed motors. IE3 efficiency motor from 0,75kW up to 45kW in single speed

APPLICATIONS

Designed for wall or duct installation, they are suitable for:

- Smoke emergency exhaust with motor inside the hazardous area.
- Maximum working temperature: 60°C.

UNDER REQUEST

- B Form impeller (air flow from impeller to motor).
- 100% reversible impeller.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015
Certification Nr: 0370-CPR-2402

Accessories



AC



BA-400



BAD



INT



INT
400



JE 45



MC HB



PC2



RP0



RP1



SFC

Technical data

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
	HBF 45 T4 (A2:6) F300	20° - 45°	0,55	0,75	6.640	52	12	1
	HBF 45 T4 (A2:9) F300	20° - 45°	0,55	0,75	7.000	52	13	1
	HBF 50 T4 (A2:6) F300	20° - 45°	0,55	1,10	9.460	55	17	1
	HBF 50 T4 (A2:9) F300	20° - 45°	0,55	1,10	10.110	56	18	1
	HBF 56 T4 (A2:6) F300	20° - 45°	0,55	2,20	13.100	58	18	1
	HBF 56 T4 (A2:9) F300	20° - 45°	0,55	2,20	13.810	58	19	1
	HBF 63 T4 (A2:6) F300	20° - 45°	0,55	3,00	19.010	60	21	1
	HBF 63 T4 (A2:9) F300	20° - 45°	0,55	3,00	20.610	61	22	1
	HBF 71 T4 (A2:6) F300	20° - 45°	0,75	4,00	26.410	63	24	1
	HBF 71 T4 (A2:9) F300	20° - 45°	0,75	4,00	28.710	66	25	1
	HBF 80 T4 (A2:6) F300	20° - 45°	1,10	7,50	37.010	65	32	1
	HBF 80 T4 (A2:9) F300	20° - 45°	1,10	7,50	39.610	72	33	1
	HBF 90 T4 (A6:3) F300	20° - 42°	3,00	15,00	48.350	72	75	1
	HBF 90 T4 (A6:6) F300	20° - 42°	3,00	15,00	55.210	73	81	1
	HBF 100 T4 (A6:3) F300	20° - 42°	5,50	22,00	65.950	75	93	1
	HBF 100 T4 (A6:6) F300	20° - 42°	5,50	22,00	77.010	77	99	1
	HBF 112 T4 (A6:3) F300	20° - 42°	5,50	37,00	86.990	78	111	1
	HBF 112 T4 (A6:6) F300	20° - 42°	5,50	37,00	103.010	79	118	1
	HBF 125 T4 (A6:3) F300	20° - 42°	7,50	45,00	120.810	80	122	1
	HBF 125 T4 (A6:6) F300	20° - 42°	7,50	45,00	139.010	84	130	1

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
	HBF 45 T6 (A2:6) F300	20° - 45°	0,55	0,55	4.310	42	12	1
	HBF 45 T6 (A2:9) F300	20° - 45°	0,55	0,55	4.540	55	13	1
	HBF 50 T6 (A2:6) F300	20° - 45°	0,55	0,55	6.130	46	17	1
	HBF 50 T6 (A2:9) F300	20° - 45°	0,55	0,55	6.550	57	18	1
	HBF 56 T6 (A2:6) F300	20° - 45°	0,55	0,55	8.470	48	18	1
	HBF 56 T6 (A2:9) F300	20° - 45°	0,55	0,55	8.970	59	19	1
	HBF 63 T6 (A2:6) F300	20° - 45°	0,55	0,75	12.310	51	21	1
	HBF 63 T6 (A2:9) F300	20° - 45°	0,55	0,75	13.310	61	22	1
	HBF 71 T6 (A2:6) F300	20° - 45°	0,55	1,10	17.110	54	24	1

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HBF 71 T6 (A2:9) F300	20° - 45°	0,55	1,10	18.610	63	25	1
	HBF 80 T6 (A2:6) F300	20° - 45°	0,75	2,20	24.010	55	32	1
	HBF 80 T6 (A2:9) F300	20° - 45°	0,75	2,20	25.710	73	33	1
	HBF 90 T6 (A6:3) F300	20° - 42°	1,50	4,00	31.310	62	75	1
	HBF 90 T6 (A6:6) F300	20° - 42°	1,50	4,00	35.810	73	81	1
	HBF 100 T6 (A6:3) F300	20° - 42°	3,00	7,50	42.660	65	93	1
	HBF 100 T6 (A6:6) F300	20° - 42°	3,00	7,50	49.910	75	99	1
	HBF 112 T6 (A6:3) F300	20° - 42°	3,00	11,00	56.390	69	111	1
	HBF 112 T6 (A6:6) F300	20° - 42°	3,00	11,00	66.810	79	118	1
	HBF 125 T6 (A6:3) F300	20° - 42°	3,00	15,00	77.970	70	122	1
	HBF 125 T6 (A6:6) F300	20° - 42°	3,00	15,00	89.910	75	130	1

2 speed motor / 4/8 poles

Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow w m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HBF 45 T4/T8 (A2:6) F300	20° - 45°	0,60	0,80	6.640	52	12	2
	HBF 45 T4/T8 (A2:9) F300	20° - 45°	0,60	0,80	7.000	55	13	2
	HBF 50 T4/T8 (A2:6) F300	20° - 45°	0,60	1,20	9.460	55	17	2
	HBF 50 T4/T8 (A2:9) F300	20° - 45°	0,60	1,20	10.110	57	18	2
	HBF 56 T4/T8 (A2:6) F300	20° - 45°	0,60	2,80	13.100	58	18	2
	HBF 56 T4/T8 (A2:9) F300	20° - 45°	0,60	2,80	13.810	59	19	2
	HBF 63 T4/T8 (A2:6) F300	20° - 45°	0,60	2,80	19.010	60	21	2
	HBF 63 T4/T8 (A2:9) F300	20° - 45°	0,60	2,80	20.610	61	22	2
	HBF 71 T4/T8 (A2:6) F300	20° - 45°	0,80	3,80	26.410	63	24	2
	HBF 71 T4/T8 (A2:9) F300	20° - 45°	0,80	3,80	28.710	66	25	2
	HBF 80 T4/T8 (A2:6) F300	20° - 45°	1,20	7,50	37.010	65	32	2
	HBF 80 T4/T8 (A2:9) F300	20° - 45°	1,20	7,50	39.610	73	33	2
	HBF 90 T4/T8 (A6:3) F300	20° - 42°	2,20	17,00	48.350	72	75	2
	HBF 90 T4/T8 (A6:6) F300	20° - 42°	2,20	17,00	55.210	73	81	2
	HBF 100 T4/T8 (A6:3) F300	20° - 42°	5,00	20,00	65.950	75	93	2
	HBF 100 T4/T8 (A6:6) F300	20° - 42°	5,00	20,00	77.010	77	99	2
	HBF 112 T4/T8 (A6:3) F300	20° - 42°	5,00	37,00	86.990	78	111	2
	HBF 112 T4/T8 (A6:6) F300	20° - 42°	5,00	37,00	103.010	79	118	2
	HBF 125 T4/T8 (A6:3) F300	20° - 42°	7,50	44,00	120.810	80	122	2

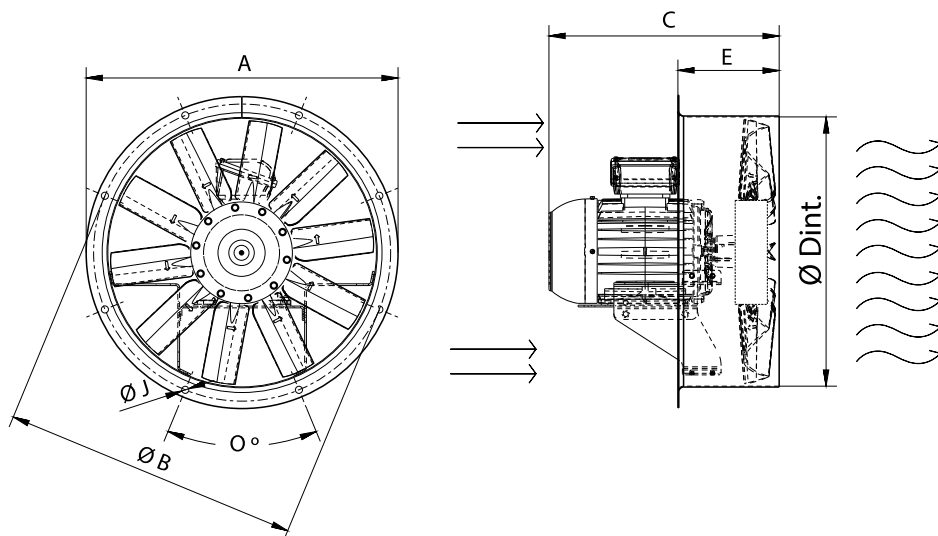
Code	Model	Angle	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	HBF 125 T4/T8 (A6:6) F300	20° - 42°	7,50	44,00	139. 010	84	130	2

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	C (Mot. T.63)	C (Mot. T.71)	C (Mot. T.80)	C (Mot. T.90L)	C (Mot. T.90S)	C (Mot. T.100L)	C (Mot. T.112)	C (Mot. T.112M)	C (Mot. T.132)
HBF 45 T4 (A2:6) F300	328	328	347	387	362	418	-	-	-
HBF 45 T4 (A2:9) F300	328	328	347	387	362	418	-	-	-
HBF 45 T6 (A2:6) F300	328	328	347	387	362	418	-	-	-
HBF 45 T6 (A2:9) F300	328	328	347	387	362	418	-	-	-
HBF 45 T4/T8 (A2:6) F300	328	328	347	387	362	418	-	-	-
HBF 45 T4/T8 (A2:9) F300	328	328	347	387	362	418	-	-	-
HBF 50 T4 (A2:6) F300	-	338	350	387	362	421	-	-	-
HBF 50 T4 (A2:9) F300	-	338	350	387	362	421	-	-	-
HBF 50 T6 (A2:6) F300	-	338	350	387	362	421	-	-	-
HBF 50 T6 (A2:9) F300	-	338	350	387	362	421	-	-	-
HBF 50 T4/T8 (A2:6) F300	-	338	350	387	362	421	-	-	-
HBF 50 T4/T8 (A2:9) F300	-	338	350	387	362	421	-	-	-
HBF 56 T4 (A2:6) F300	-	338	352	387	362	423	-	-	-
HBF 56 T4 (A2:9) F300	-	338	352	387	362	423	-	-	-
HBF 56 T6 (A2:6) F300	-	338	352	387	362	423	-	-	-
HBF 56 T6 (A2:9) F300	-	338	352	387	362	423	-	-	-
HBF 56 T4/T8 (A2:6) F300	-	338	352	387	362	423	-	-	-
HBF 56 T4/T8 (A2:9) F300	-	338	352	387	362	423	-	-	-
HBF 63 T4 (A2:6) F300	-	-	352	411	386	442	-	463	-
HBF 63 T4 (A2:9) F300	-	-	352	411	386	442	-	463	-
HBF 63 T6 (A2:6) F300	-	-	352	411	386	442	-	463	-

Model	C (Mot. T.63)	C (Mot. T.71)	C (Mot. T.80)	C (Mot. T.90L)	C (Mot. T.90S)	C (Mot. T.100L)	C (Mot. T.112)	C (Mot. T.112M)	C (Mot. T.132)
HBF 63 T6 (A2:9) F300	-	-	352	411	386	442	-	463	-
HBF 63 T4/T8 (A2:6) F300	-	-	352	411	386	442	-	463	-
HBF 63 T4/T8 (A2:9) F300	-	-	352	411	386	442	-	463	-
HBF 71 T4 (A2:6) F300	-	-	357	416	391	447	-	468	-
HBF 71 T4 (A2:9) F300	-	-	357	416	391	447	-	468	-
HBF 71 T6 (A2:6) F300	-	-	357	416	391	447	-	468	-
HBF 71 T6 (A2:9) F300	-	-	357	416	391	447	-	468	-
HBF 71 T4/T8 (A2:6) F300	-	-	357	416	391	447	-	468	-
HBF 71 T4/T8 (A2:9) F300	-	-	357	416	391	447	-	468	-
HBF 80 T4 (A2:6) F300	-	-	-	427	427	463	-	469	-
HBF 80 T4 (A2:9) F300	-	-	-	427	427	463	-	469	-
HBF 80 T6 (A2:6) F300	-	-	-	427	427	463	-	469	-
HBF 80 T6 (A2:9) F300	-	-	-	427	427	463	-	469	-
HBF 80 T4/T8 (A2:6) F300	-	-	-	427	427	463	-	469	-
HBF 80 T4/T8 (A2:9) F300	-	-	-	427	427	463	-	469	-
HBF 90 T4 (A6:3) F300	-	-	-	-	-	658	658	-	658
HBF 90 T4 (A6:6) F300	-	-	-	-	-	658	658	-	658
HBF 90 T6 (A6:3) F300	-	-	-	-	-	658	658	-	658
HBF 90 T6 (A6:6) F300	-	-	-	-	-	658	658	-	658
HBF 90 T4/T8 (A6:3) F300	-	-	-	-	-	658	658	-	658
HBF 90 T4/T8 (A6:6) F300	-	-	-	-	-	658	658	-	658
HBF 100 T4 (A6:3) F300	-	-	-	-	-	-	-	-	653
HBF 100 T4 (A6:6) F300	-	-	-	-	-	-	-	-	653
HBF 100 T6 (A6:3) F300	-	-	-	-	-	-	-	-	653
HBF 100 T6 (A6:6) F300	-	-	-	-	-	-	-	-	653
HBF 100 T4/T8 (A6:3) F300	-	-	-	-	-	-	-	-	653
HBF 100 T4/T8 (A6:6) F300	-	-	-	-	-	-	-	-	653
HBF 112 T4 (A6:3) F300	-	-	-	-	-	-	-	-	760
HBF 112 T4 (A6:6) F300	-	-	-	-	-	-	-	-	760
HBF 112 T6 (A6:3) F300	-	-	-	-	-	-	-	-	760
HBF 112 T6 (A6:6) F300	-	-	-	-	-	-	-	-	760
HBF 112 T4/T8 (A6:3) F300	-	-	-	-	-	-	-	-	760
HBF 112 T4/T8 (A6:6) F300	-	-	-	-	-	-	-	-	760
HBF 125 T4 (A6:3) F300	-	-	-	-	-	-	-	-	759
HBF 125 T4 (A6:6) F300	-	-	-	-	-	-	-	-	759
HBF 125 T6 (A6:3) F300	-	-	-	-	-	-	-	-	759
HBF 125 T6 (A6:6) F300	-	-	-	-	-	-	-	-	759
HBF 125 T4/T8 (A6:3) F300	-	-	-	-	-	-	-	-	759
HBF 125 T4/T8 (A6:6) F300	-	-	-	-	-	-	-	-	759

Model	C (Mot. T.132M)	C (Mot. T.132S)	C (Mot. T.160L)	C (Mot. T.160M)	C (Mot. T.180L)	C (Mot. T.180M)	C (Mot. T.200)	C (Mot. T.225)	E
HBF 45 T4 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 45 T4 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 45 T6 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 45 T6 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 45 T4/T8 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 45 T4/T8 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 50 T4 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 50 T4 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 50 T6 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 50 T6 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 50 T4/T8 (A2:6) F300	-	-	-	-	-	-	-	-	165
HBF 50 T4/T8 (A2:9) F300	-	-	-	-	-	-	-	-	165
HBF 56 T4 (A2:6) F300	-	-	-	-	-	-	-	-	175
HBF 56 T4 (A2:9) F300	-	-	-	-	-	-	-	-	175
HBF 56 T6 (A2:6) F300	-	-	-	-	-	-	-	-	175
HBF 56 T6 (A2:9) F300	-	-	-	-	-	-	-	-	175
HBF 56 T4/T8 (A2:6) F300	-	-	-	-	-	-	-	-	175
HBF 56 T4/T8 (A2:9) F300	-	-	-	-	-	-	-	-	175
HBF 63 T4 (A2:6) F300	-	-	-	-	-	-	-	-	185
HBF 63 T4 (A2:9) F300	-	-	-	-	-	-	-	-	185
HBF 63 T6 (A2:6) F300	-	-	-	-	-	-	-	-	185
HBF 63 T6 (A2:9) F300	-	-	-	-	-	-	-	-	185
HBF 63 T4/T8 (A2:6) F300	-	-	-	-	-	-	-	-	185
HBF 63 T4/T8 (A2:9) F300	-	-	-	-	-	-	-	-	185
HBF 71 T4 (A2:6) F300	-	-	-	-	-	-	-	-	190
HBF 71 T4 (A2:9) F300	-	-	-	-	-	-	-	-	190
HBF 71 T6 (A2:6) F300	-	-	-	-	-	-	-	-	190
HBF 71 T6 (A2:9) F300	-	-	-	-	-	-	-	-	190
HBF 71 T4/T8 (A2:6) F300	-	-	-	-	-	-	-	-	190
HBF 71 T4/T8 (A2:9) F300	-	-	-	-	-	-	-	-	190
HBF 80 T4 (A2:6) F300	563	525	-	-	-	-	-	-	220
HBF 80 T4 (A2:9) F300	563	525	-	-	-	-	-	-	220
HBF 80 T6 (A2:6) F300	563	525	-	-	-	-	-	-	220
HBF 80 T6 (A2:9) F300	563	525	-	-	-	-	-	-	220
HBF 80 T4/T8 (A2:6) F300	563	525	-	-	-	-	-	-	220
HBF 80 T4/T8 (A2:9) F300	563	525	-	-	-	-	-	-	220
HBF 90 T4 (A6:3) F300	-	-	742	721	787	778	-	-	340
HBF 90 T4 (A6:6) F300	-	-	742	721	787	778	-	-	340
HBF 90 T6 (A6:3) F300	-	-	742	721	787	778	-	-	340
HBF 90 T6 (A6:6) F300	-	-	742	721	787	778	-	-	340

Model	C (Mot. T.132M)	C (Mot. T.132S)	C (Mot. T.160L)	C (Mot. T.160M)	C (Mot. T.180L)	C (Mot. T.180M)	C (Mot. T.200)	C (Mot. T.225)	E
HBF 90 T4/T8 (A6:3) F300	-	-	742	721	787	778	-	-	340
HBF 90 T4/T8 (A6:6) F300	-	-	742	721	787	778	-	-	340
HBF 100 T4 (A6:3) F300	-	-	738	716	792	776	-	-	340
HBF 100 T4 (A6:6) F300	-	-	738	716	792	776	-	-	340
HBF 100 T6 (A6:3) F300	-	-	738	716	792	776	-	-	340
HBF 100 T6 (A6:6) F300	-	-	738	716	792	776	-	-	340
HBF 100 T4/T8 (A6:3) F300	-	-	738	716	792	776	-	-	340
HBF 100 T4/T8 (A6:6) F300	-	-	738	716	792	776	-	-	340
HBF 112 T4 (A6:3) F300	-	-	760	760	780	761	864	949	340
HBF 112 T4 (A6:6) F300	-	-	760	760	780	761	864	949	340
HBF 112 T6 (A6:3) F300	-	-	760	760	780	761	864	949	340
HBF 112 T6 (A6:6) F300	-	-	760	760	780	761	864	949	340
HBF 112 T4/T8 (A6:3) F300	-	-	760	760	780	761	864	949	340
HBF 112 T4/T8 (A6:6) F300	-	-	760	760	780	761	864	949	340
HBF 125 T4 (A6:3) F300	-	-	759	759	779	760	863	948	340
HBF 125 T4 (A6:6) F300	-	-	759	759	779	760	863	948	340
HBF 125 T6 (A6:3) F300	-	-	759	759	779	760	863	948	340
HBF 125 T6 (A6:6) F300	-	-	759	759	779	760	863	948	340
HBF 125 T4/T8 (A6:3) F300	-	-	759	759	779	760	863	948	340
HBF 125 T4/T8 (A6:6) F300	-	-	759	759	779	760	863	948	340

Model	O	ØA	ØB	ØD	ØJ
HBF 45 T4 (A2:6) F300	8X45º	525	500	452	12
HBF 45 T4 (A2:9) F300	8X45º	525	500	452	12
HBF 45 T6 (A2:6) F300	8X45º	525	500	452	12
HBF 45 T6 (A2:9) F300	8X45º	525	500	452	12
HBF 45 T4/T8 (A2:6) F300	8X45º	525	500	452	12
HBF 45 T4/T8 (A2:9) F300	8X45º	525	500	452	12
HBF 50 T4 (A2:6) F300	12x30º	600	560	504	12
HBF 50 T4 (A2:9) F300	12x30º	600	560	504	12
HBF 50 T6 (A2:6) F300	12x30º	600	560	504	12
HBF 50 T6 (A2:9) F300	12x30º	600	560	504	12
HBF 50 T4/T8 (A2:6) F300	12x30º	600	560	504	12
HBF 50 T4/T8 (A2:9) F300	12x30º	600	560	504	12
HBF 56 T4 (A2:6) F300	12X30º	646	620	559	12
HBF 56 T4 (A2:9) F300	12X30º	646	620	559	12
HBF 56 T6 (A2:6) F300	12X30º	646	620	559	12
HBF 56 T6 (A2:9) F300	12X30º	646	620	559	12
HBF 56 T4/T8 (A2:6) F300	12X30º	646	620	559	12
HBF 56 T4/T8 (A2:9) F300	12X30º	646	620	559	12

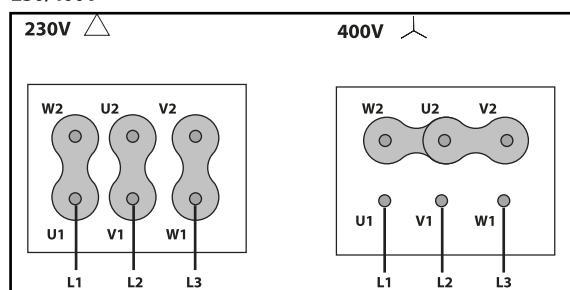
Model	O	ØA	ØB	ØD	ØJ
HBF 63 T4 (A2:6) F300	12X30 ^º	725	690	633	12
HBF 63 T4 (A2:9) F300	12X30 ^º	725	690	633	12
HBF 63 T6 (A2:6) F300	12X30 ^º	725	690	633	12
HBF 63 T6 (A2:9) F300	12X30 ^º	725	690	633	12
HBF 63 T4/T8 (A2:6) F300	12X30 ^º	725	690	633	12
HBF 63 T4/T8 (A2:9) F300	12X30 ^º	725	690	633	12
HBF 71 T4 (A2:6) F300	16x22,5 ^º	802	770	715	12
HBF 71 T4 (A2:9) F300	16x22,5 ^º	802	770	715	12
HBF 71 T6 (A2:6) F300	16x22,5 ^º	802	770	715	12
HBF 71 T6 (A2:9) F300	16x22,5 ^º	802	770	715	12
HBF 71 T4/T8 (A2:6) F300	16x22,5 ^º	802	770	715	12
HBF 71 T4/T8 (A2:9) F300	16x22,5 ^º	802	770	715	12
HBF 80 T4 (A2:6) F300	16x22,5 ^º	892	860	801	12
HBF 80 T4 (A2:9) F300	16x22,5 ^º	892	860	801	12
HBF 80 T6 (A2:6) F300	16x22,5 ^º	892	860	801	12
HBF 80 T6 (A2:9) F300	16x22,5 ^º	892	860	801	12
HBF 80 T4/T8 (A2:6) F300	16x22,5 ^º	892	860	801	12
HBF 80 T4/T8 (A2:9) F300	16x22,5 ^º	892	860	801	12
HBF 90 T4 (A6:3) F300	16x22,5 ^º	1000	970	903.5	12
HBF 90 T4 (A6:6) F300	16x22,5 ^º	1000	970	903.5	12
HBF 90 T6 (A6:3) F300	16x22,5 ^º	1000	970	903.5	12
HBF 90 T6 (A6:6) F300	16x22,5 ^º	1000	970	903.5	12
HBF 90 T4/T8 (A6:3) F300	16x22,5 ^º	1000	970	903.5	12
HBF 90 T4/T8 (A6:6) F300	16x22,5 ^º	1000	970	903.5	12
HBF 100 T4 (A6:3) F300	16x22,5 ^º	1115	1070	1013	12
HBF 100 T4 (A6:6) F300	16x22,5 ^º	1115	1070	1013	12
HBF 100 T6 (A6:3) F300	16x22,5 ^º	1115	1070	1013	12
HBF 100 T6 (A6:6) F300	16x22,5 ^º	1115	1070	1013	12
HBF 100 T4/T8 (A6:3) F300	16x22,5 ^º	1115	1070	1013	12
HBF 100 T4/T8 (A6:6) F300	16x22,5 ^º	1115	1070	1013	12
HBF 112 T4 (A6:3) F300	16x22,5 ^º	1234	1190	1132	12
HBF 112 T4 (A6:6) F300	16x22,5 ^º	1234	1190	1132	12
HBF 112 T6 (A6:3) F300	16x22,5 ^º	1234	1190	1132	12
HBF 112 T6 (A6:6) F300	16x22,5 ^º	1234	1190	1132	12
HBF 112 T4/T8 (A6:3) F300	16x22,5 ^º	1234	1190	1132	12
HBF 112 T4/T8 (A6:6) F300	16x22,5 ^º	1234	1190	1132	12
HBF 125 T4 (A6:3) F300	20x18 ^º	1365	1320	1263	15
HBF 125 T4 (A6:6) F300	20x18 ^º	1365	1320	1263	15
HBF 125 T6 (A6:3) F300	20x18 ^º	1365	1320	1263	15
HBF 125 T6 (A6:6) F300	20x18 ^º	1365	1320	1263	15

Model	O	ØA	ØB	ØD	ØJ
HBF 125 T4/T8 (A6:3) F300	20x18º	1365	1320	1263	15
HBF 125 T4/T8 (A6:6) F300	20x18º	1365	1320	1263	15

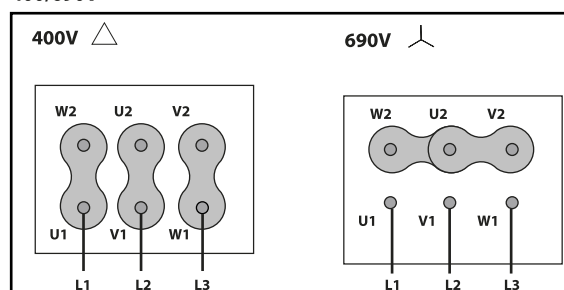
Wiring diagram

Wiring diagram N° 1

230/400V

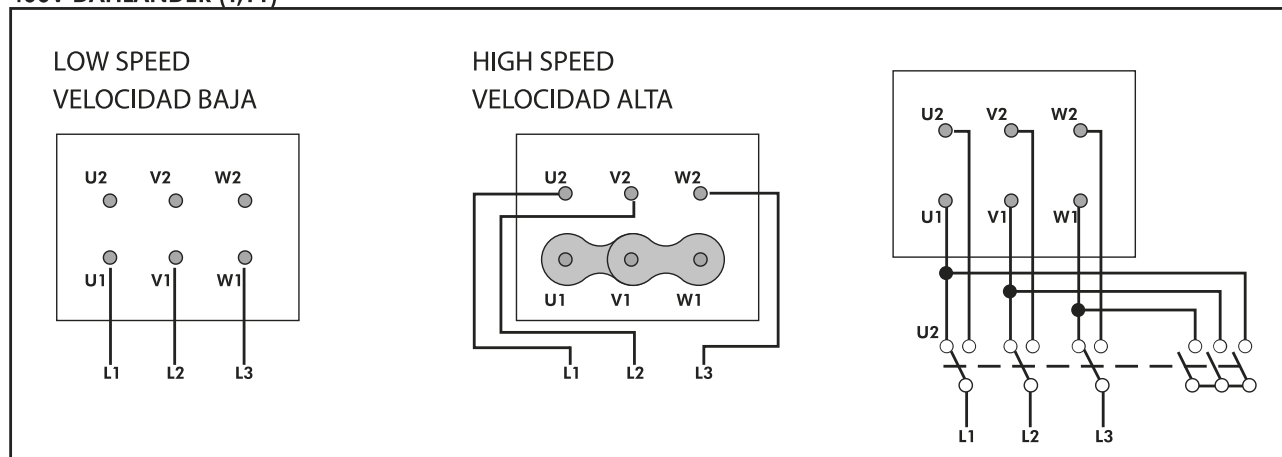


400/690V



Wiring diagram N° 2

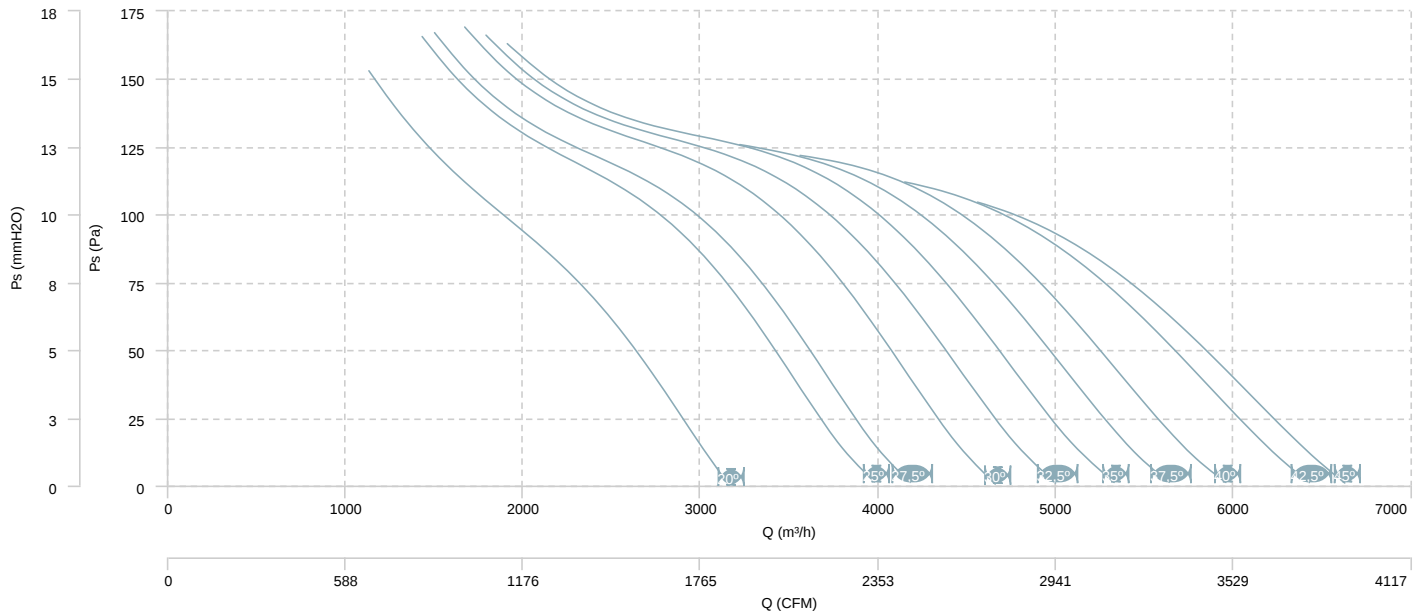
400V DAHLANDER (Y,YY)



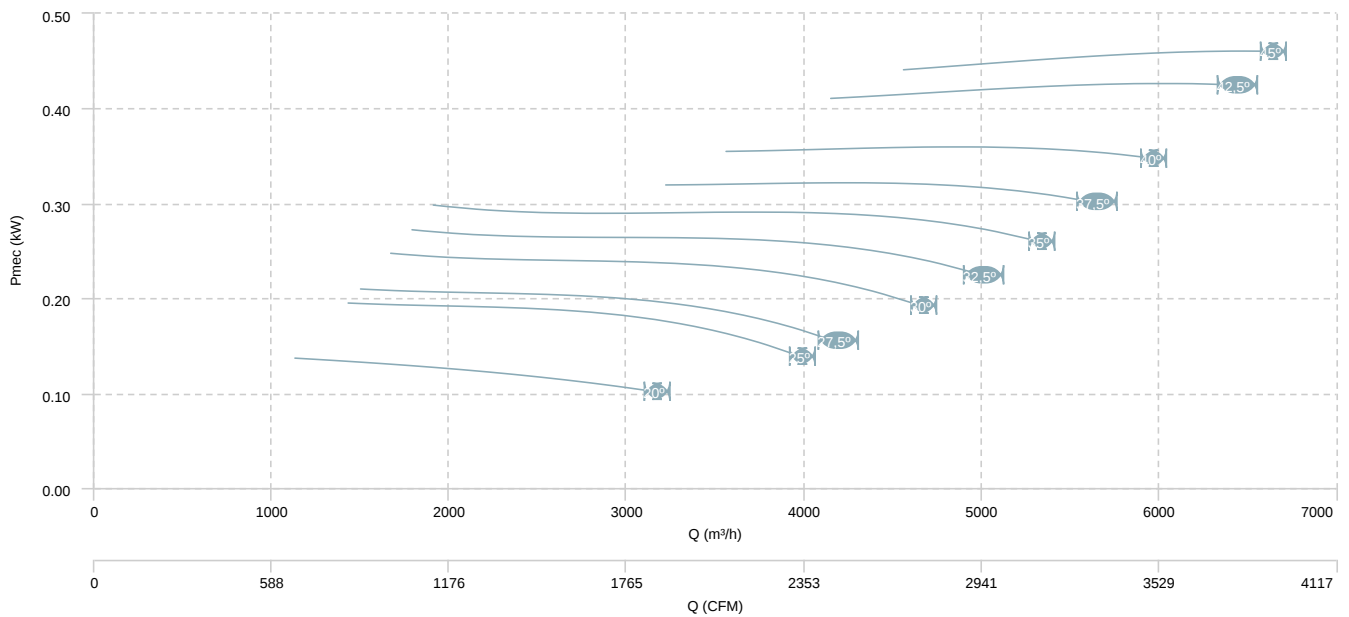
CHARACTERISCTIC CURVE

HBF 45 T4 (A2:6) F300

AIR FLOW - PRESSURE

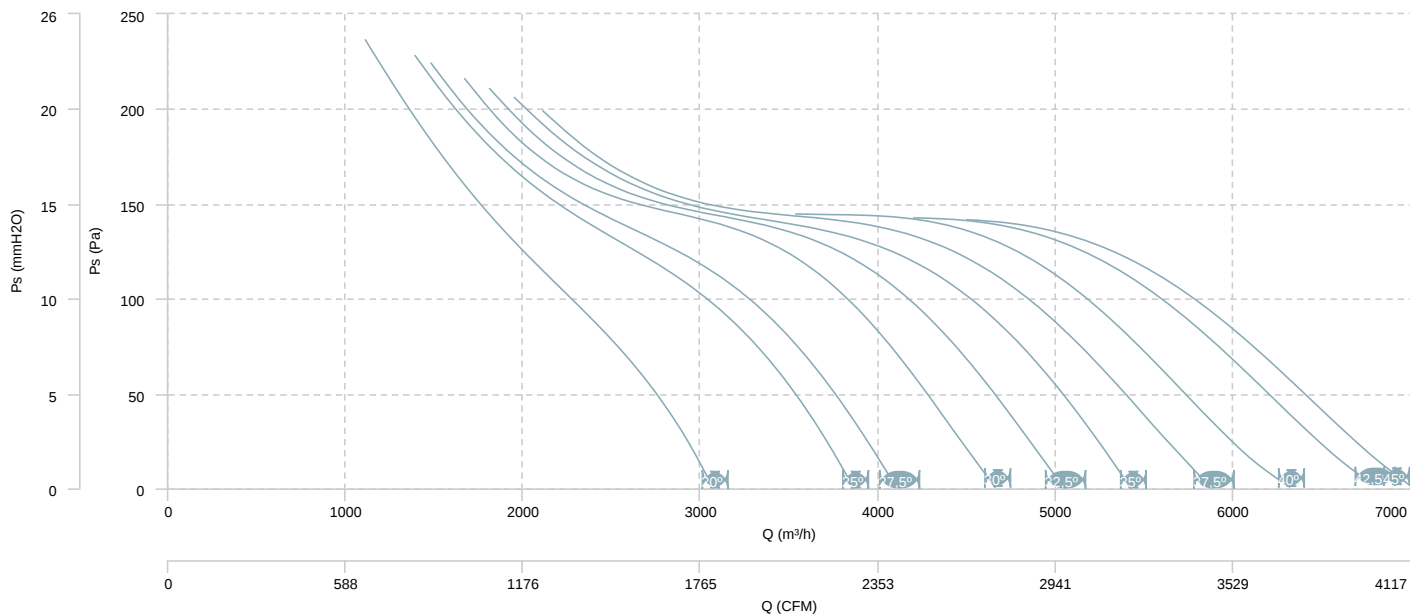


AIR FLOW - MECHANICAL POWER

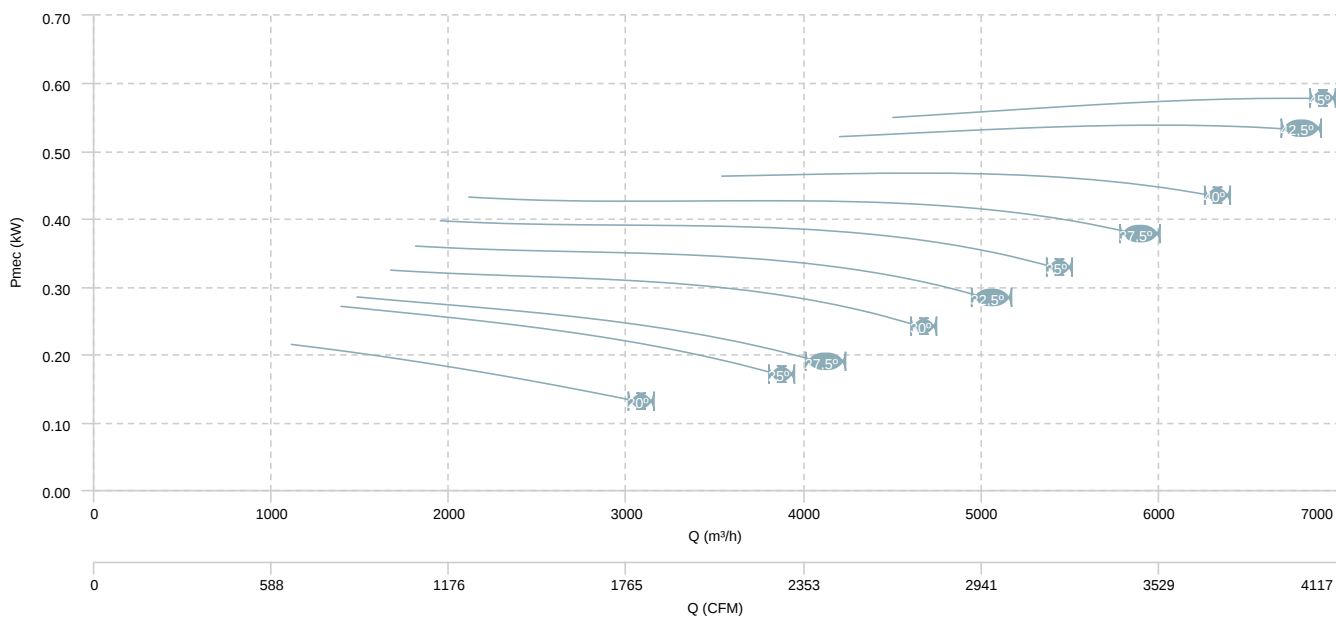


HBF 45 T4 (A2:9) F300

AIR FLOW - PRESSURE

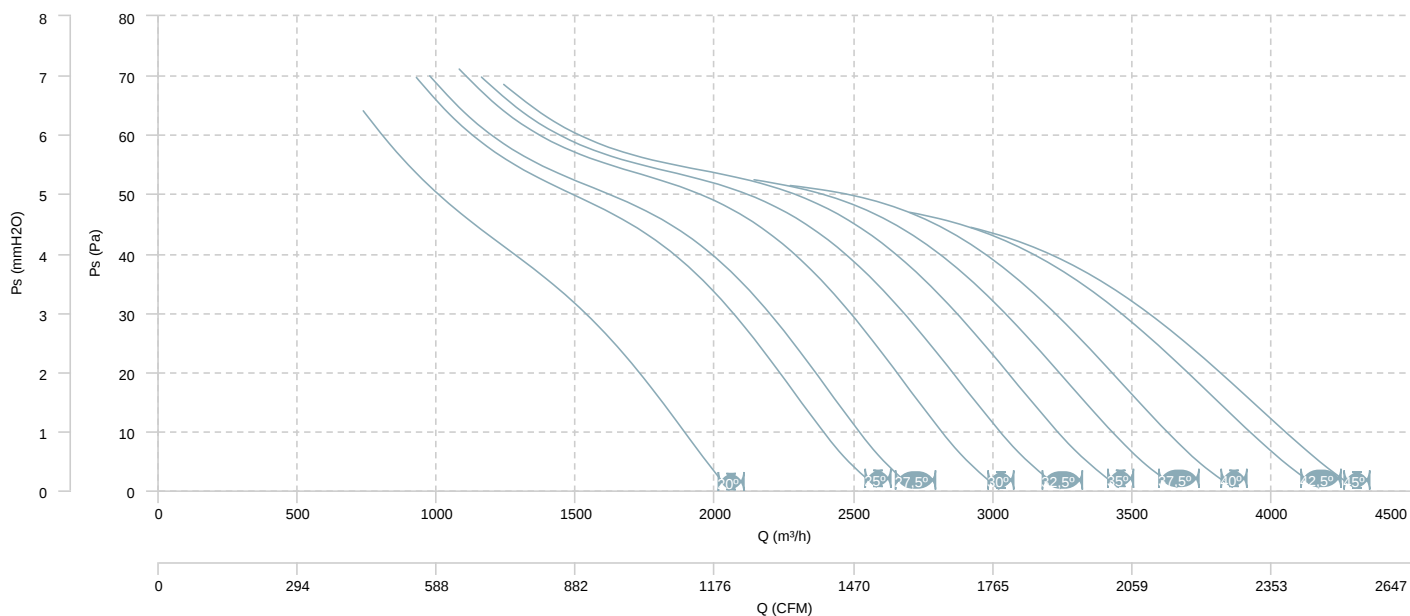


AIR FLOW - MECHANICAL POWER

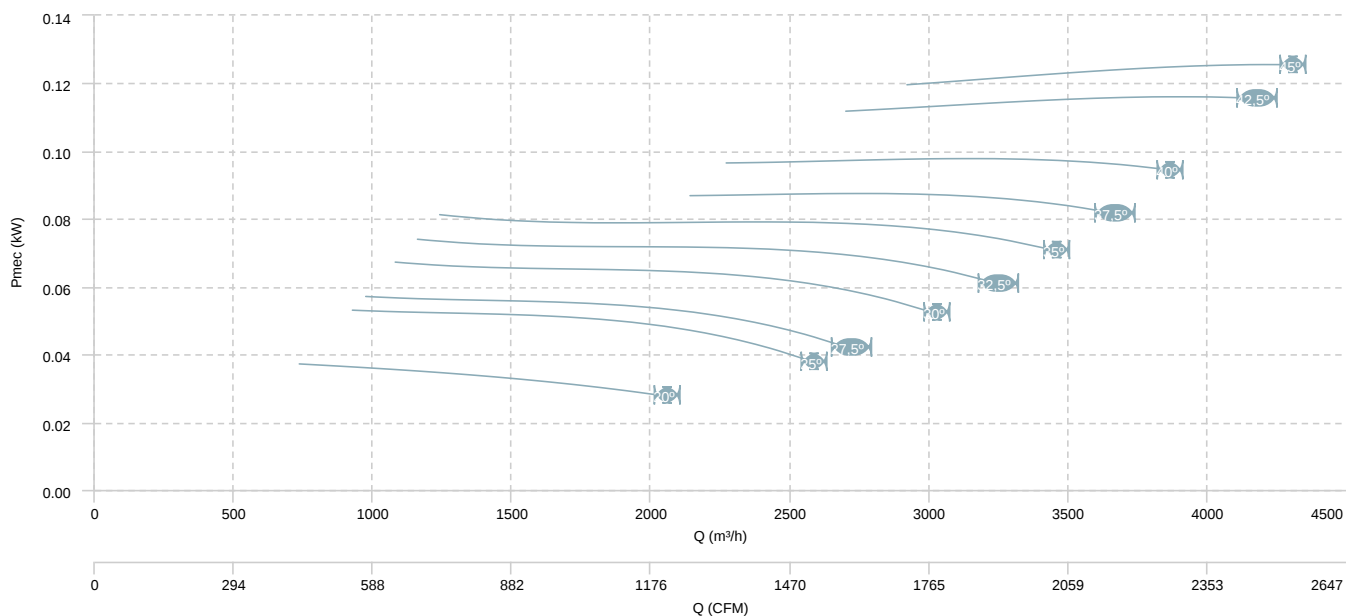


HBF 45 T6 (A2:6) F300

AIR FLOW - PRESSURE

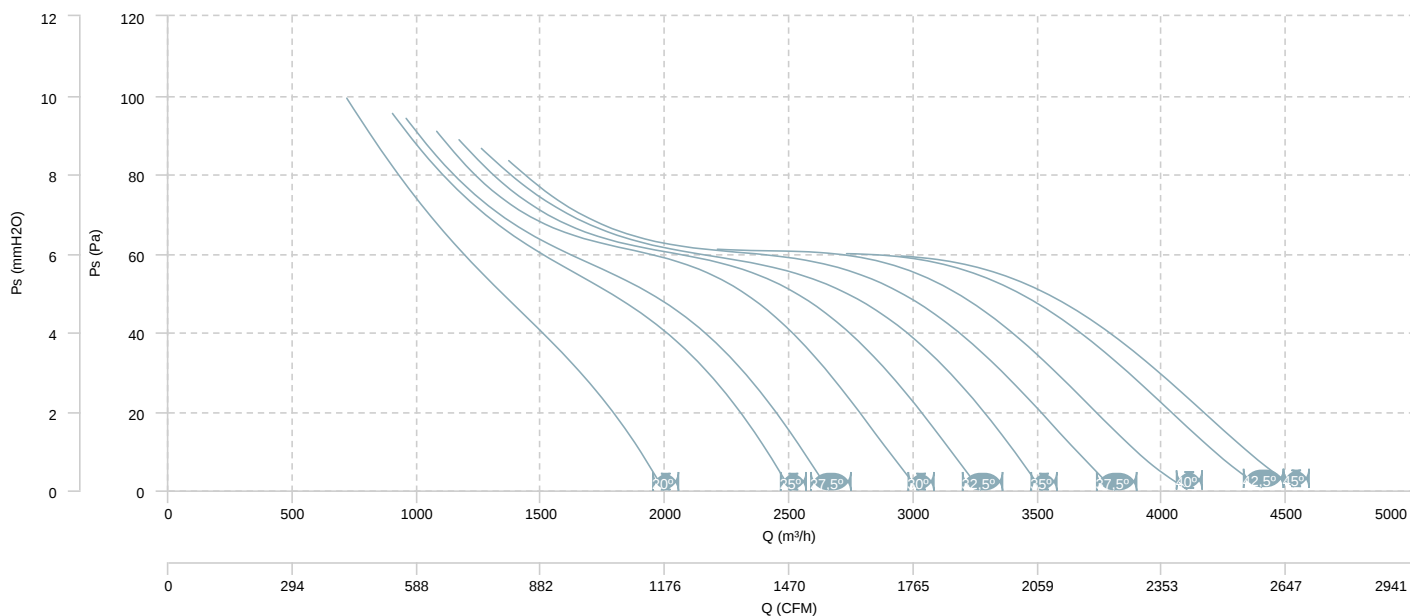


AIR FLOW - MECHANICAL POWER

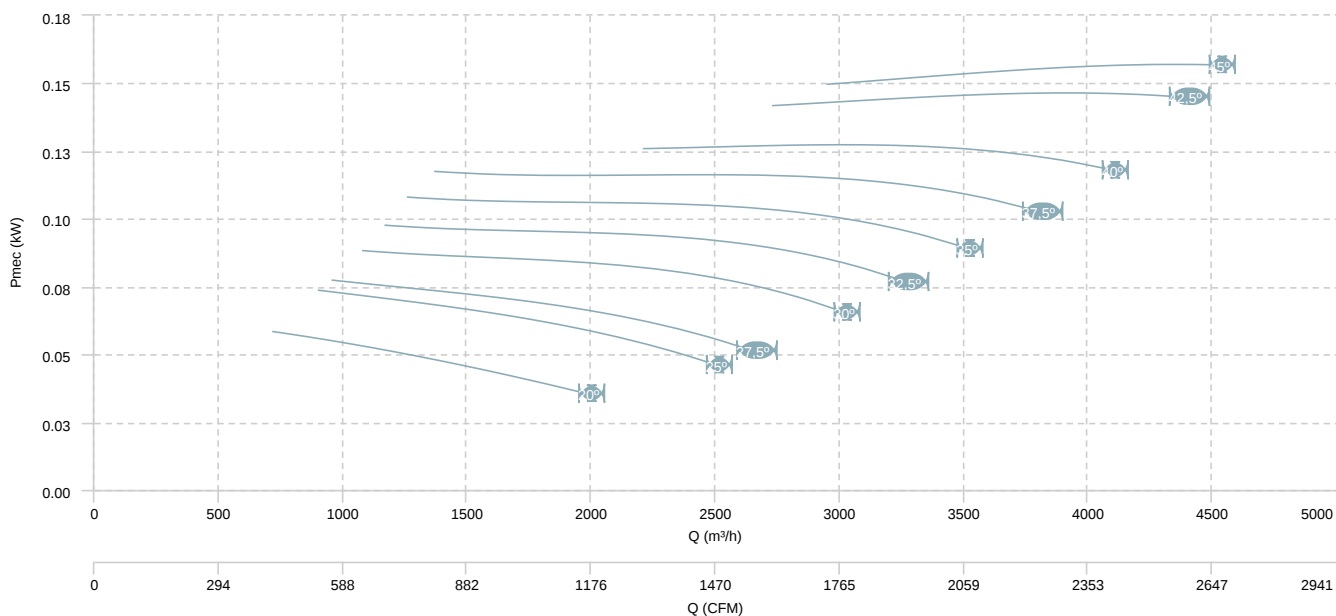


HBF 45 T6 (A2:9) F300

AIR FLOW - PRESSURE

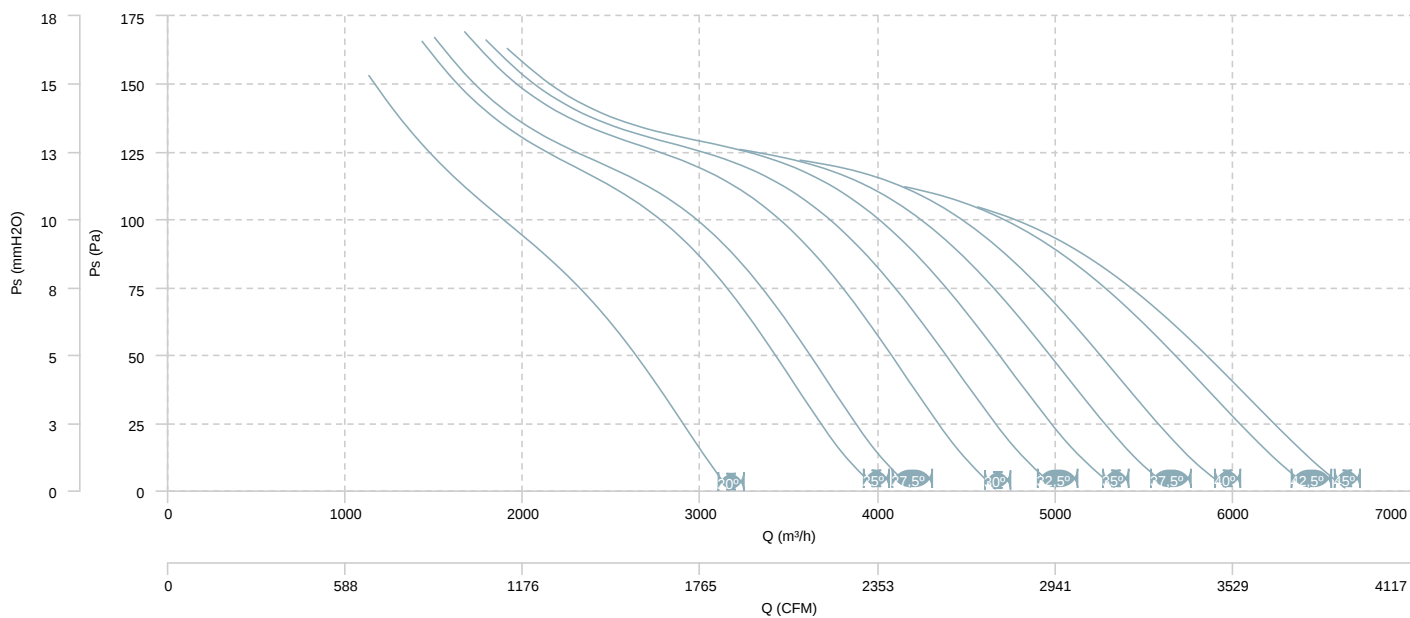


AIR FLOW - MECHANICAL POWER

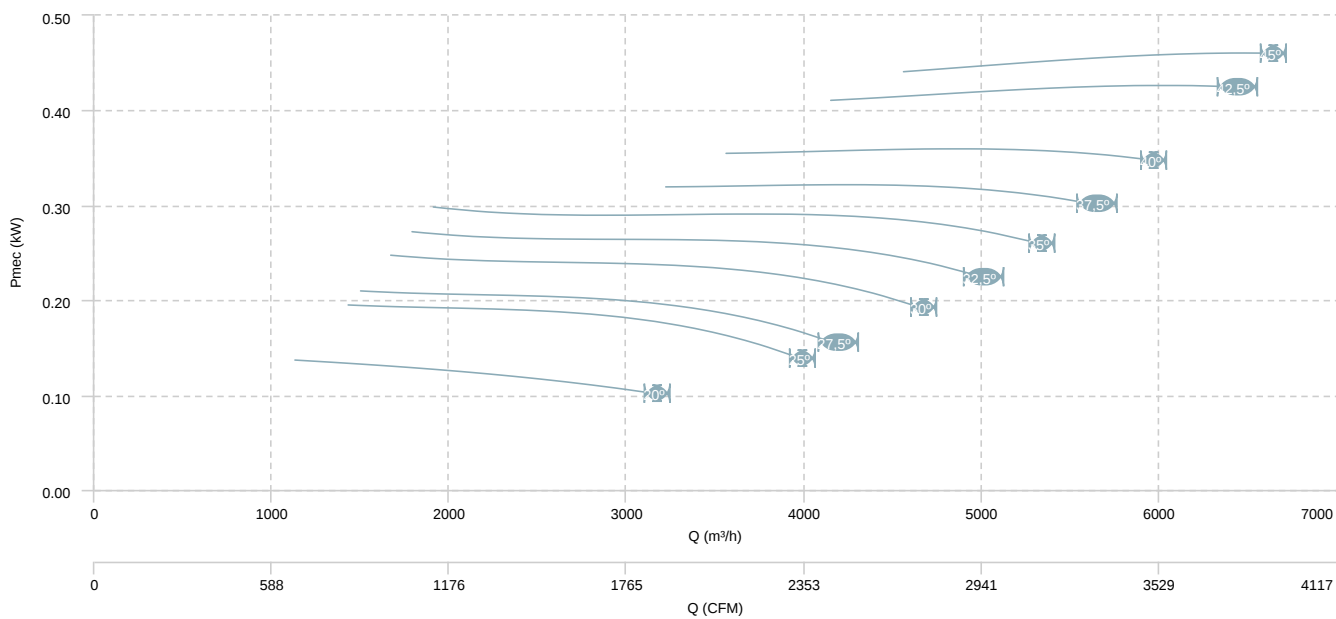


HBF 45 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

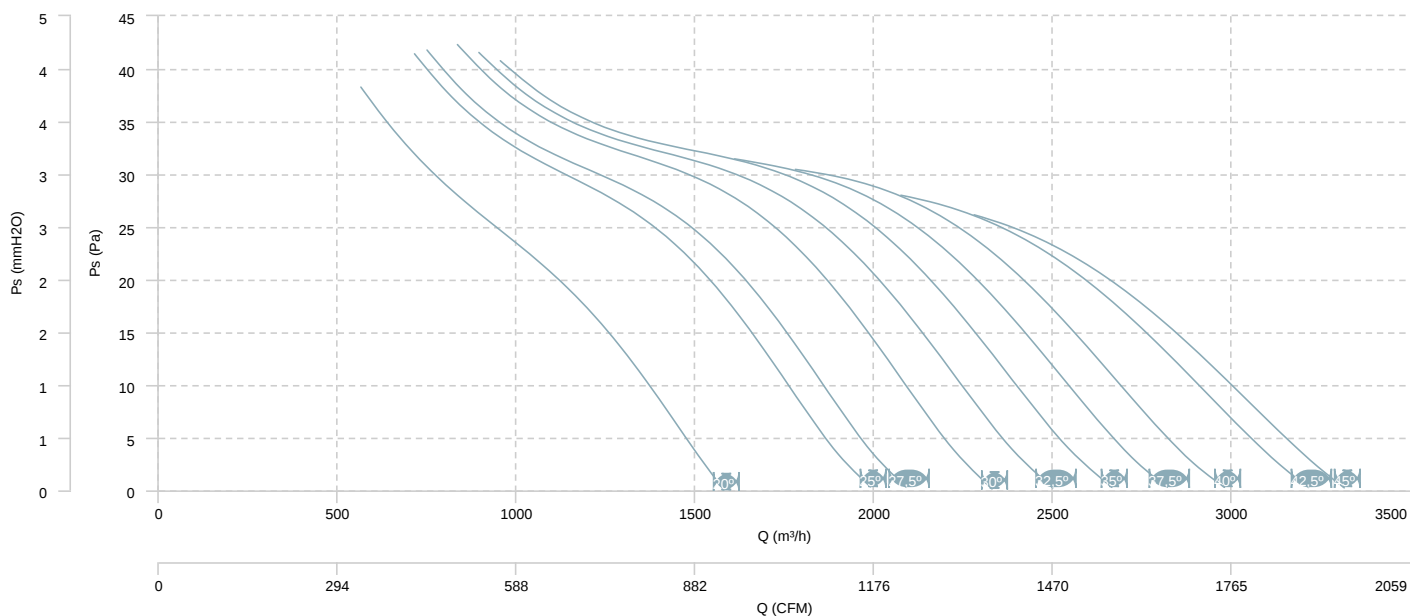


AIR FLOW - MECHANICAL POWER (4 poles)

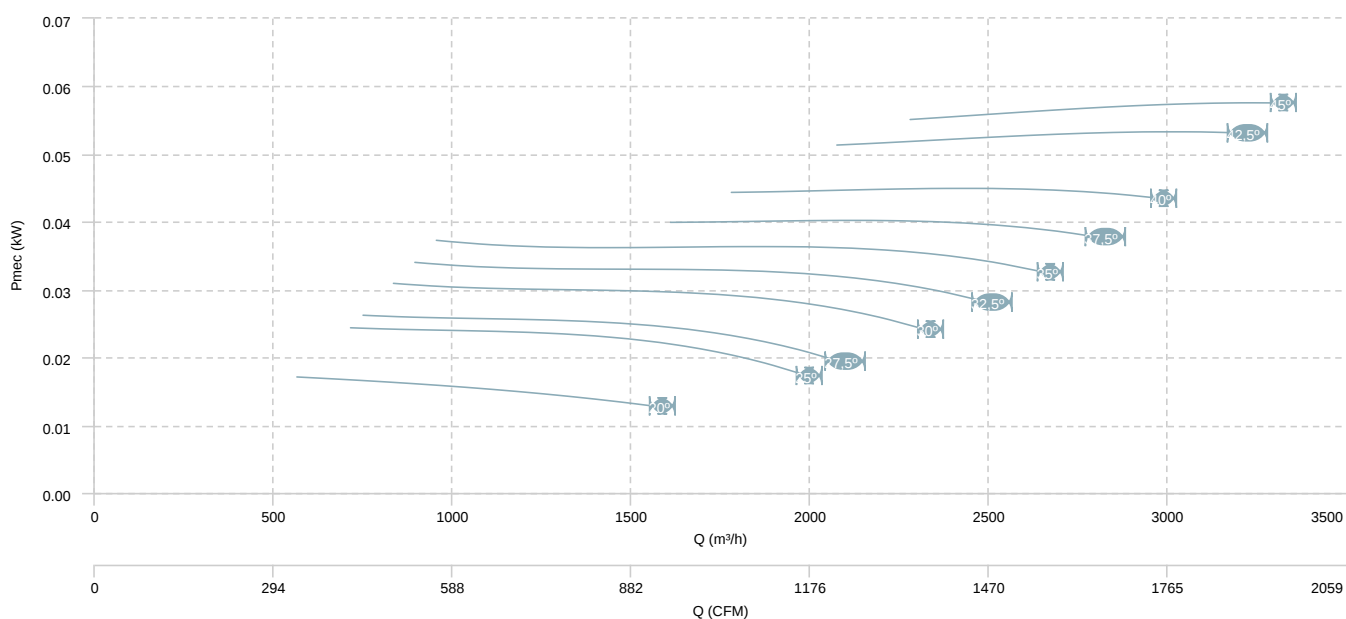


HBF 45 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

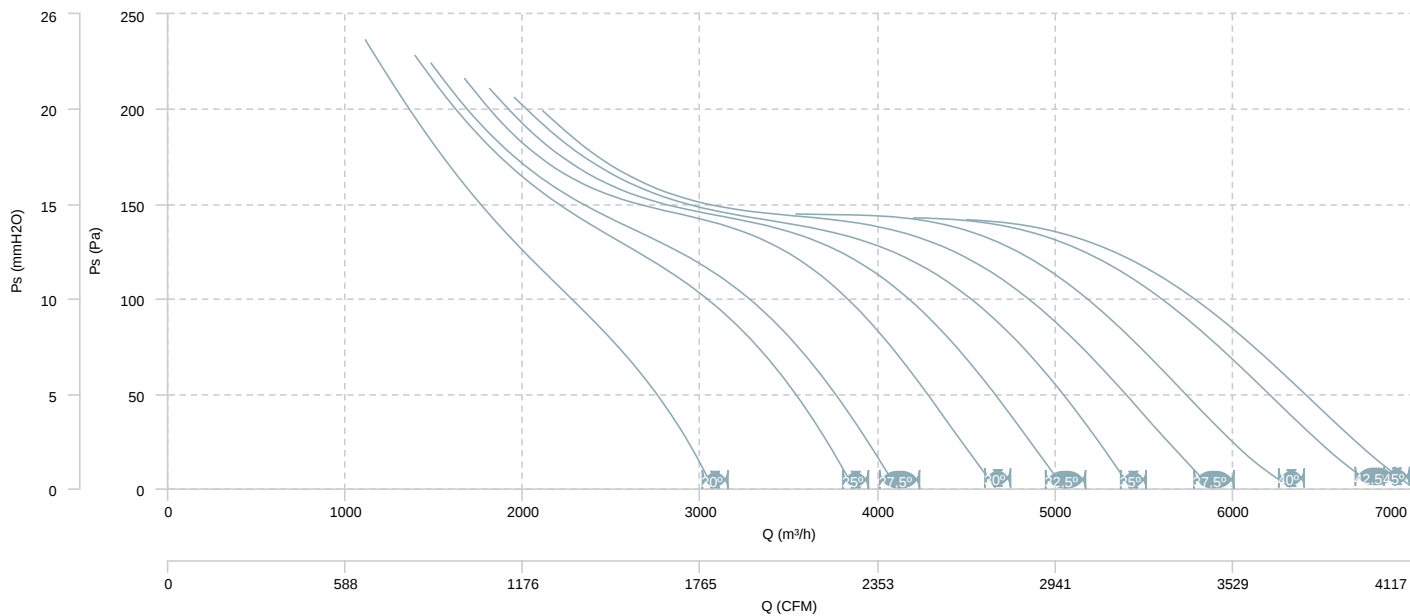


AIR FLOW - MECHANICAL POWER (8 poles)

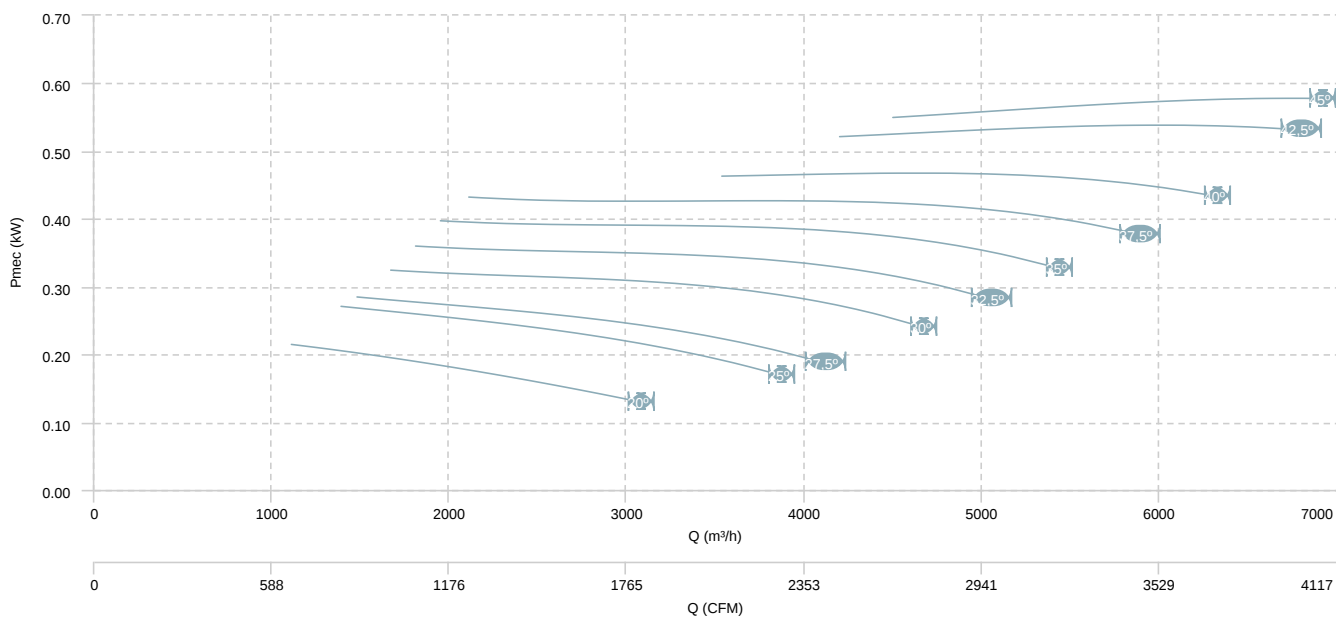


HBF 45 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

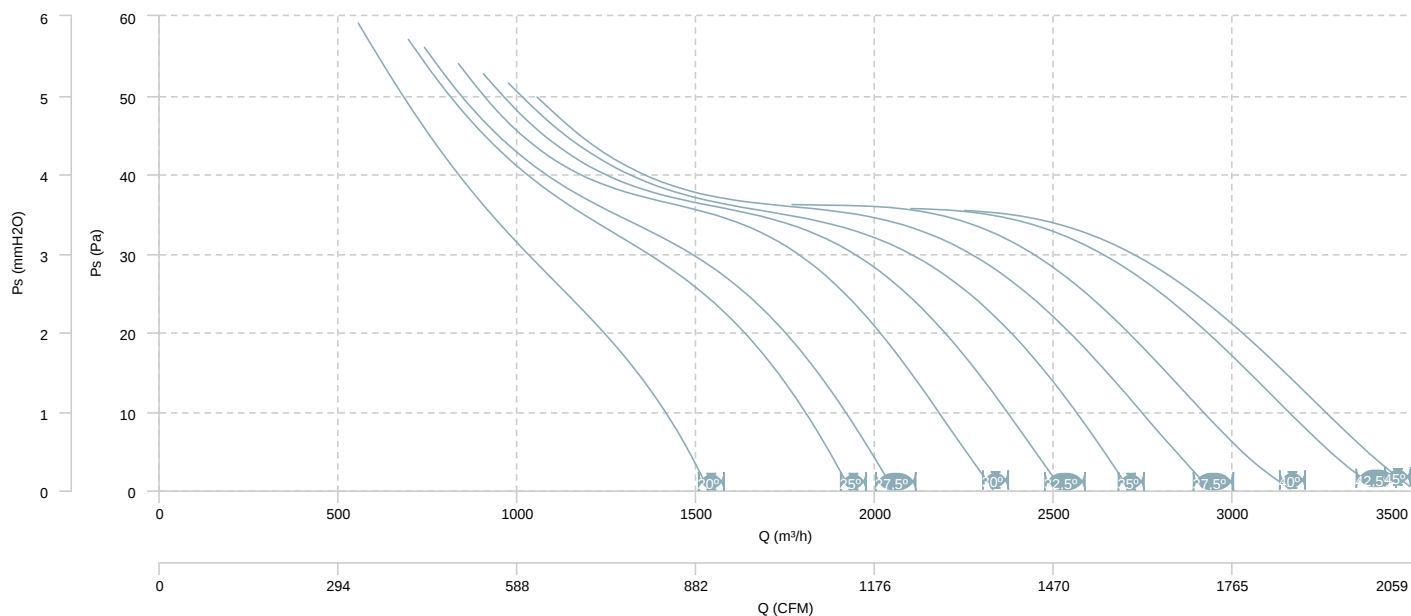


AIR FLOW - MECHANICAL POWER (4 poles)

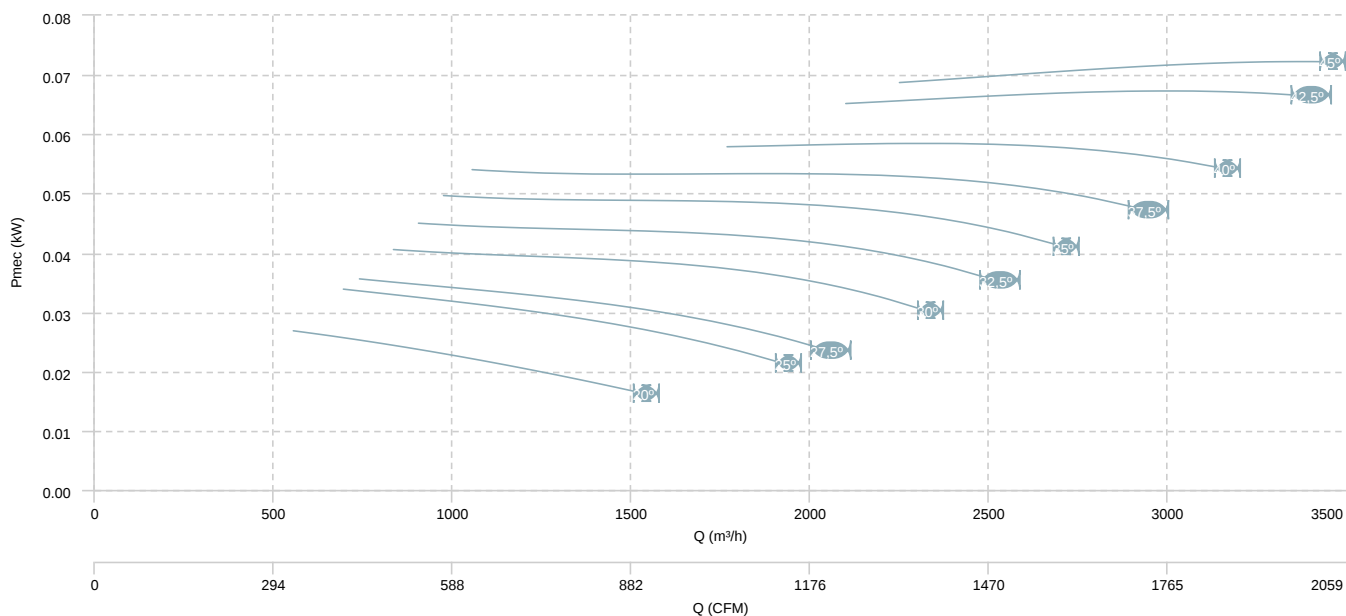


HBF 45 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

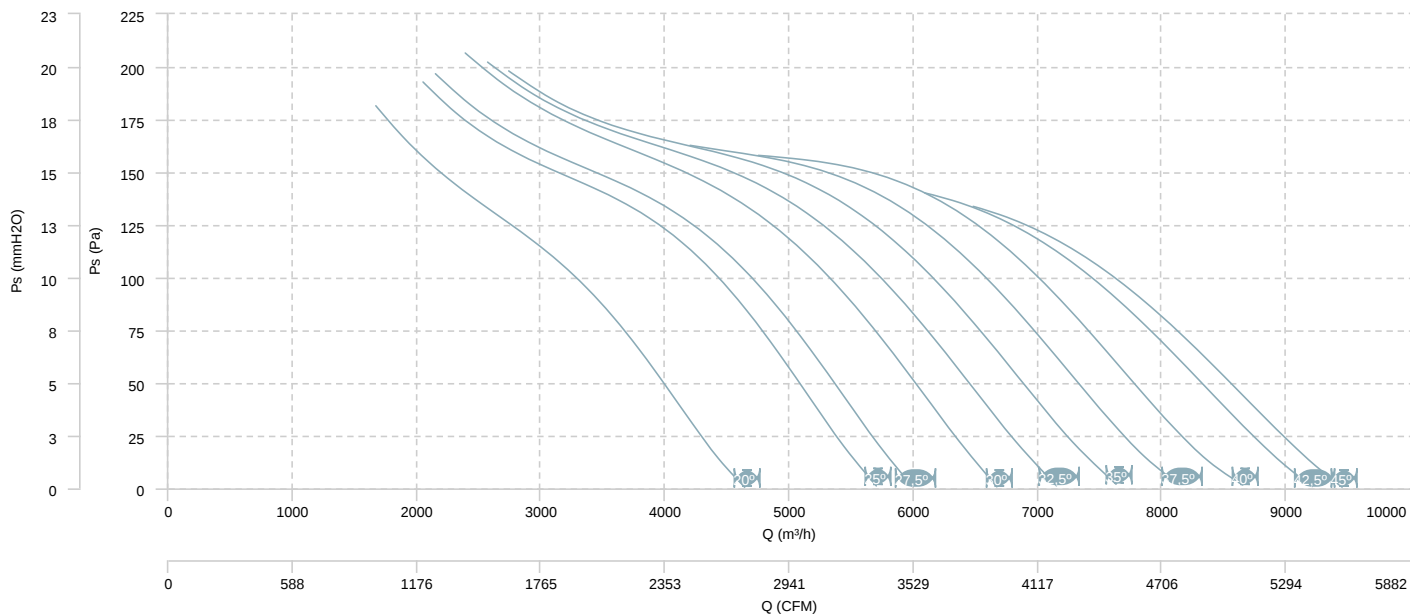


AIR FLOW - MECHANICAL POWER (8 poles)

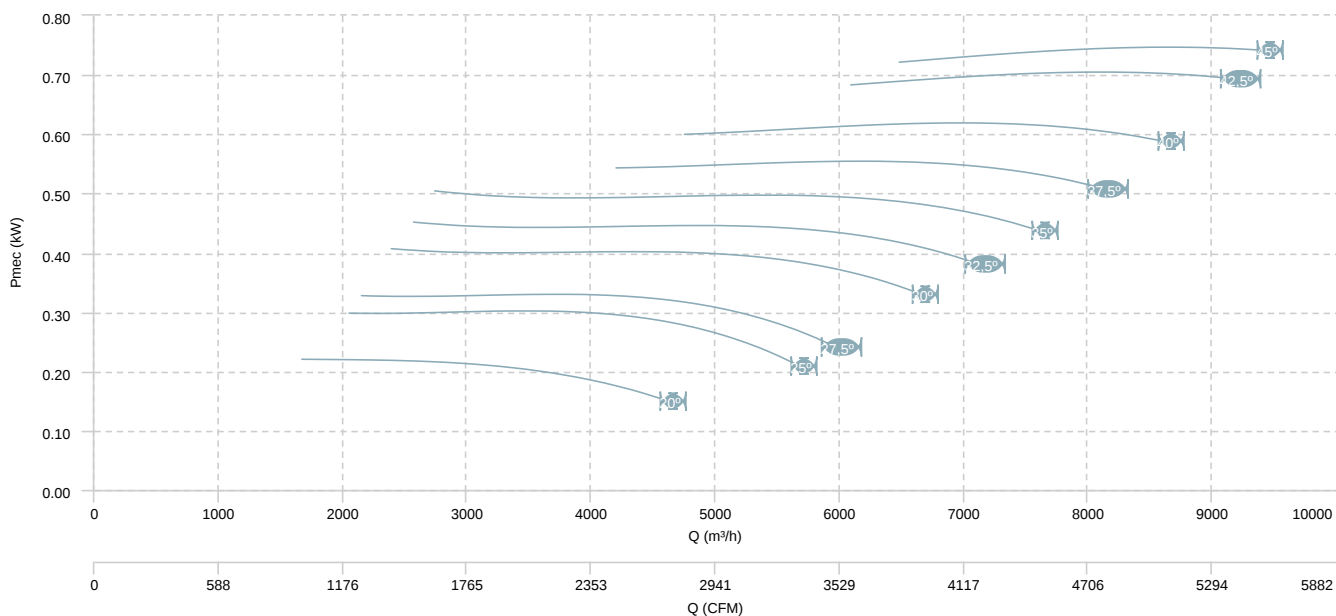


HBF 50 T4 (A2:6) F300

AIR FLOW - PRESSURE

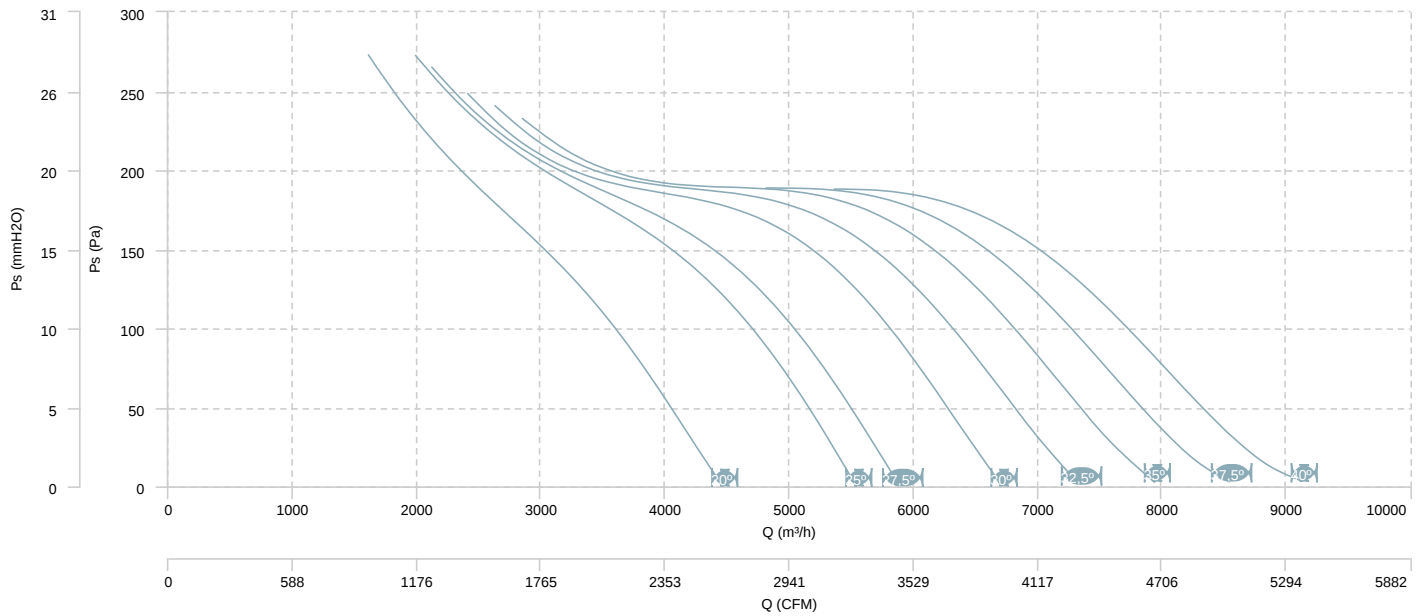


AIR FLOW - MECHANICAL POWER

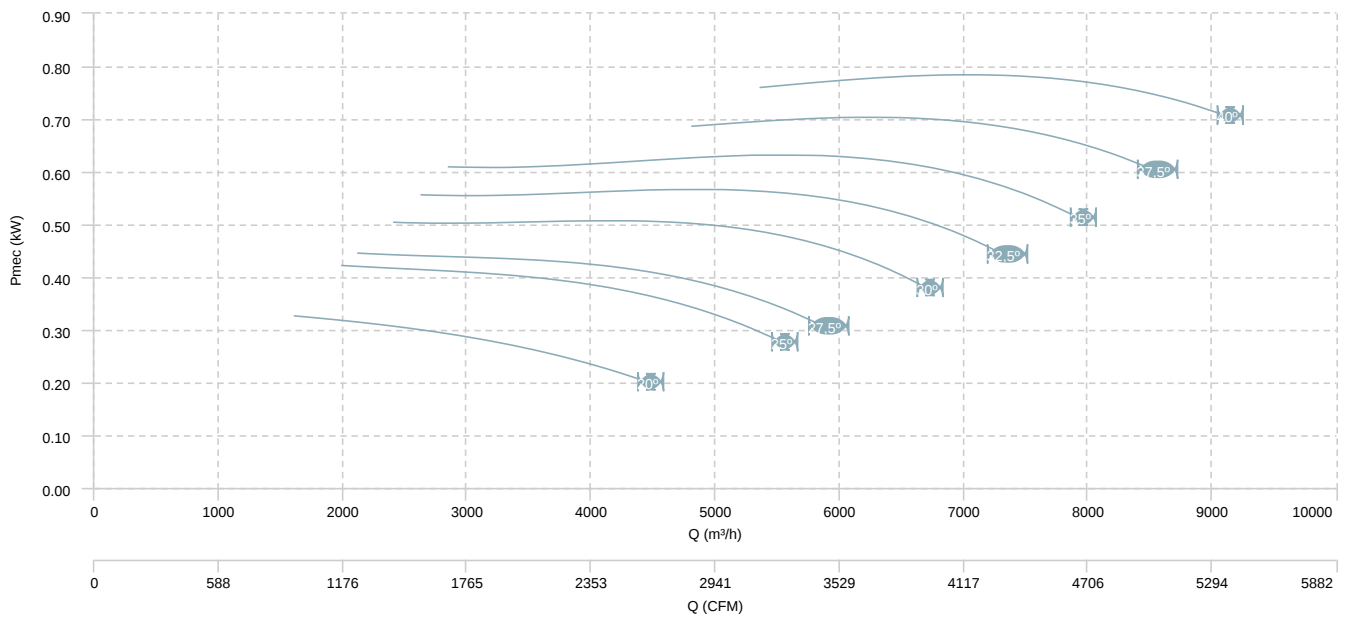


HBF 50 T4 (A2:9) F300

AIR FLOW - PRESSURE

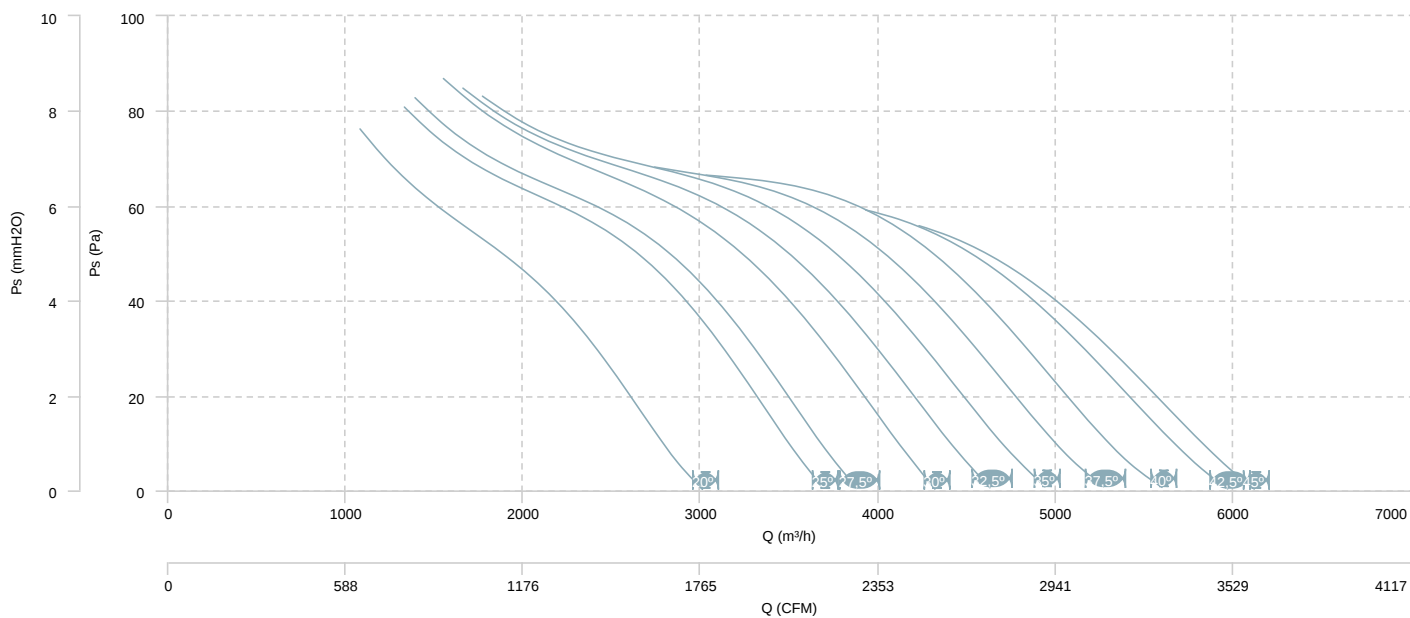


AIR FLOW - MECHANICAL POWER

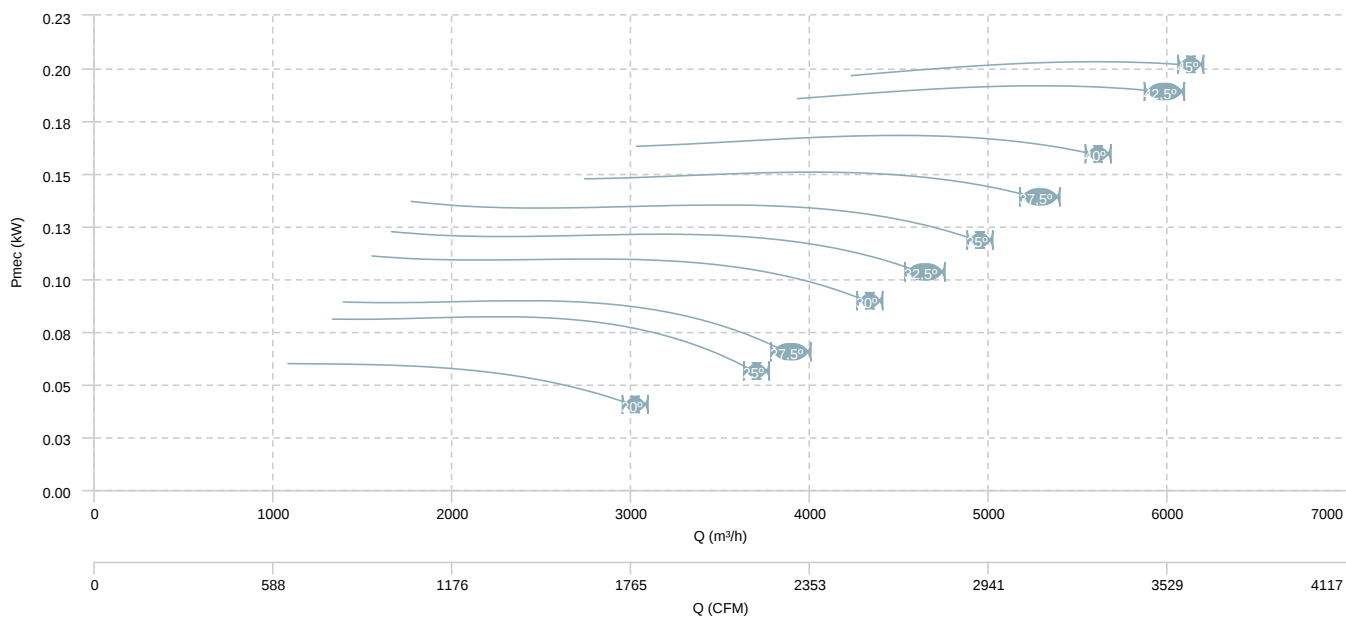


HBF 50 T6 (A2:6) F300

AIR FLOW - PRESSURE

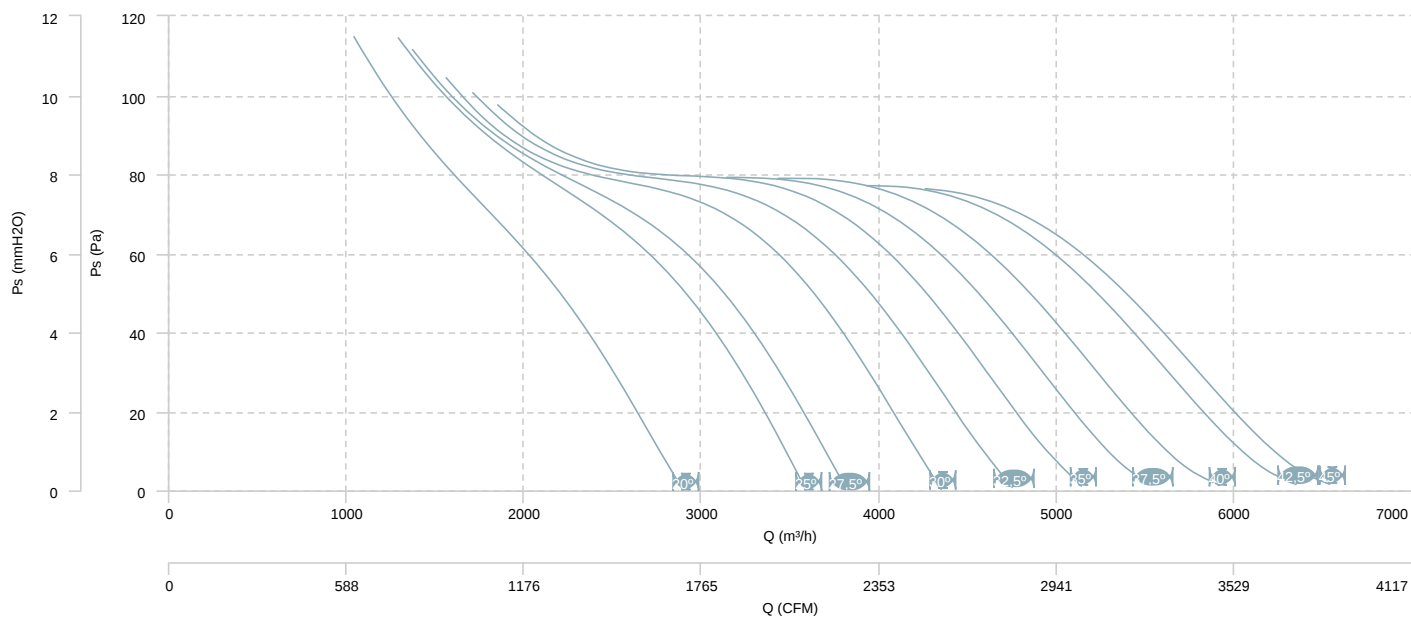


AIR FLOW - MECHANICAL POWER

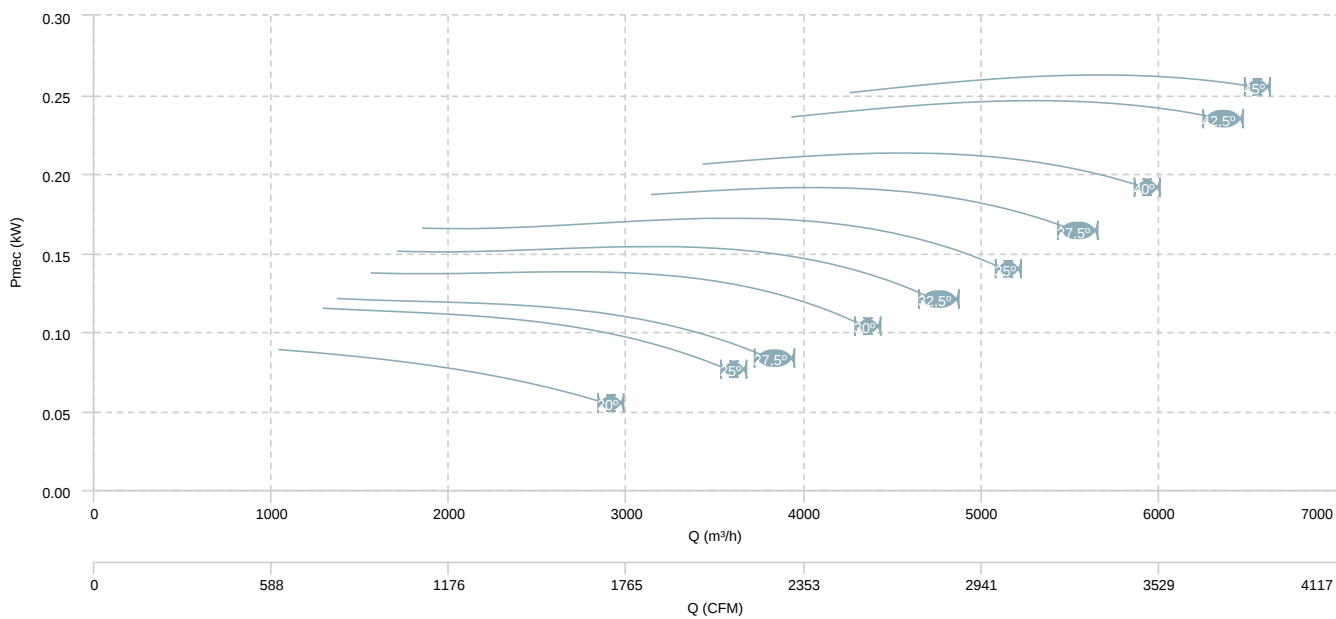


HBF 50 T6 (A2:9) F300

AIR FLOW - PRESSURE

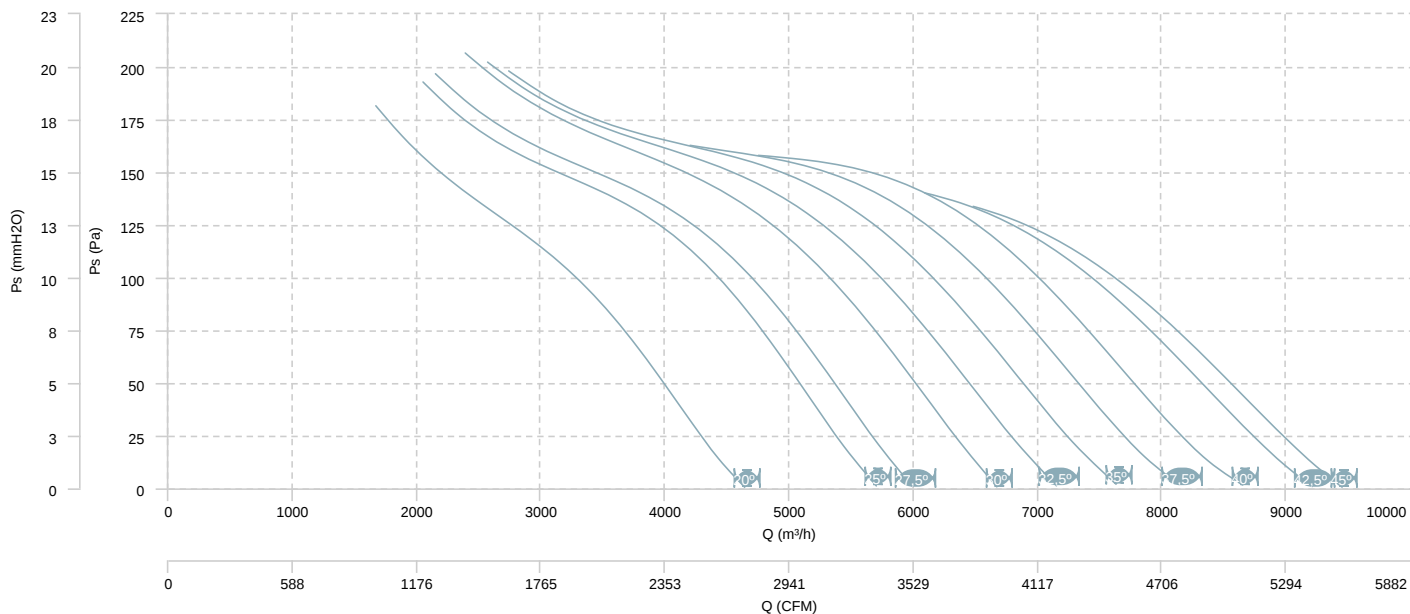


AIR FLOW - MECHANICAL POWER

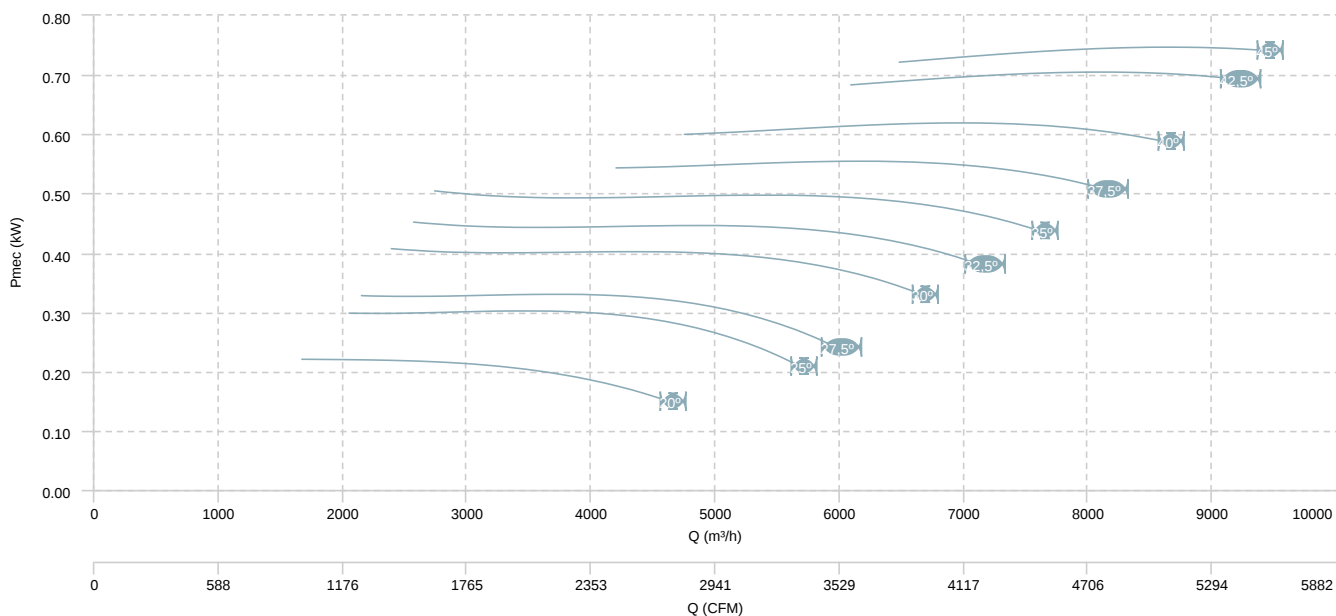


HBF 50 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

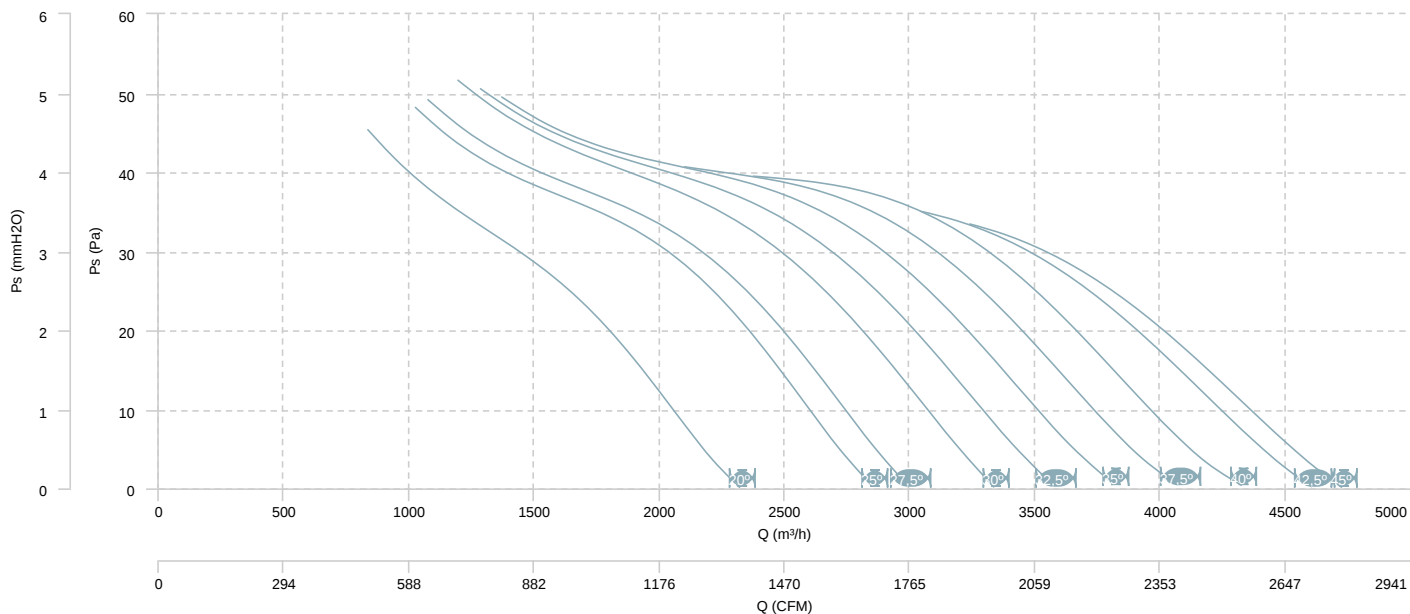


AIR FLOW - MECHANICAL POWER (4 poles)

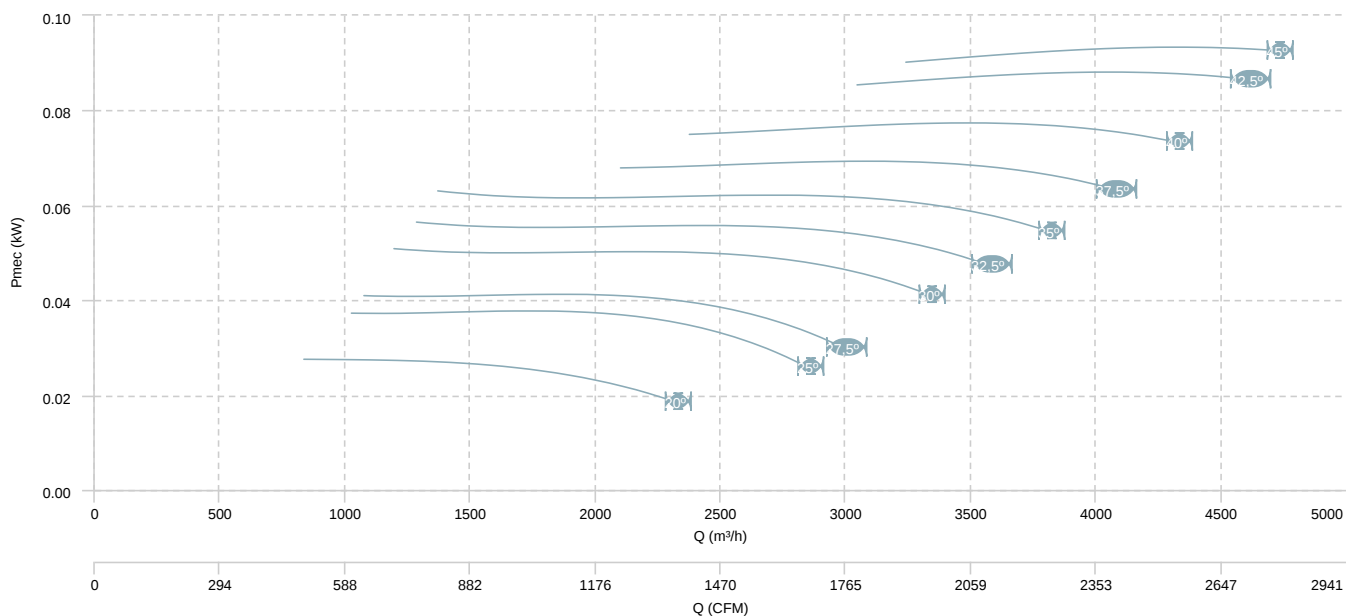


HBF 50 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

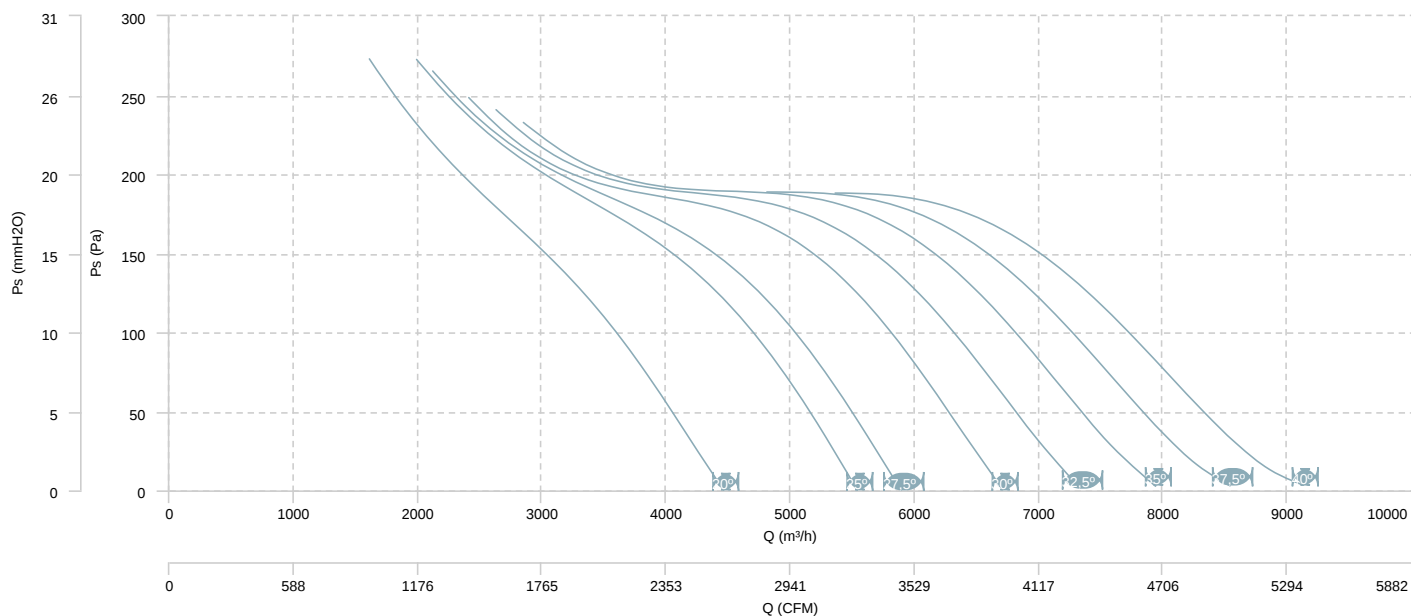


AIR FLOW - MECHANICAL POWER (8 poles)

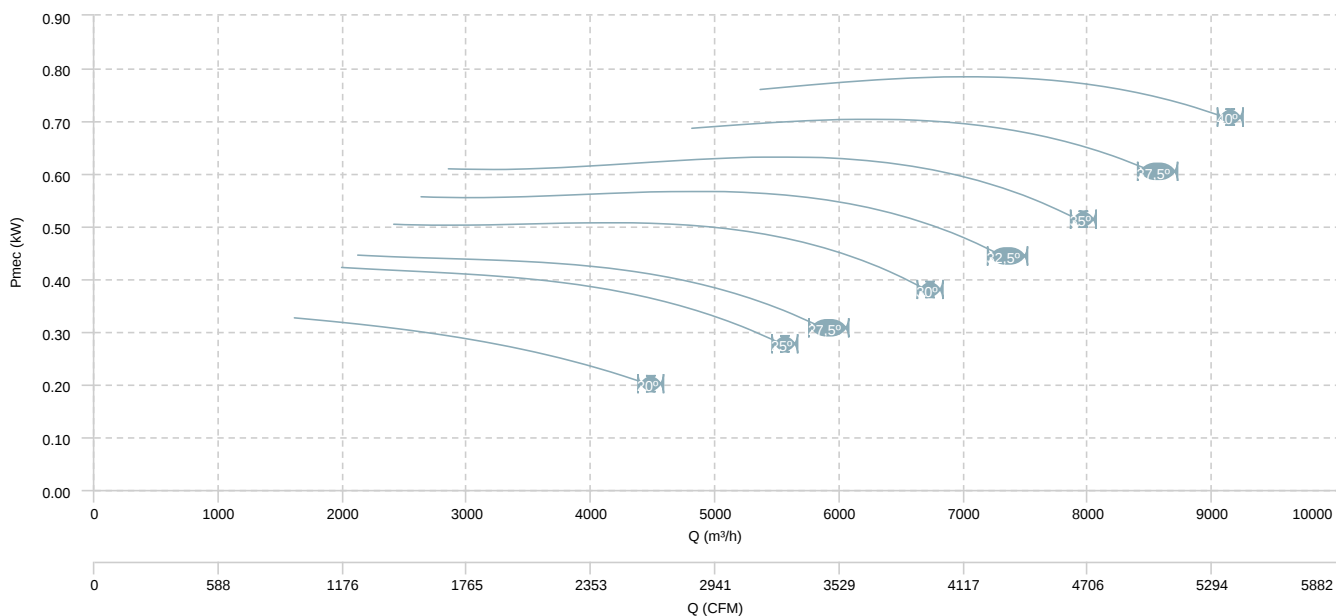


HBF 50 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

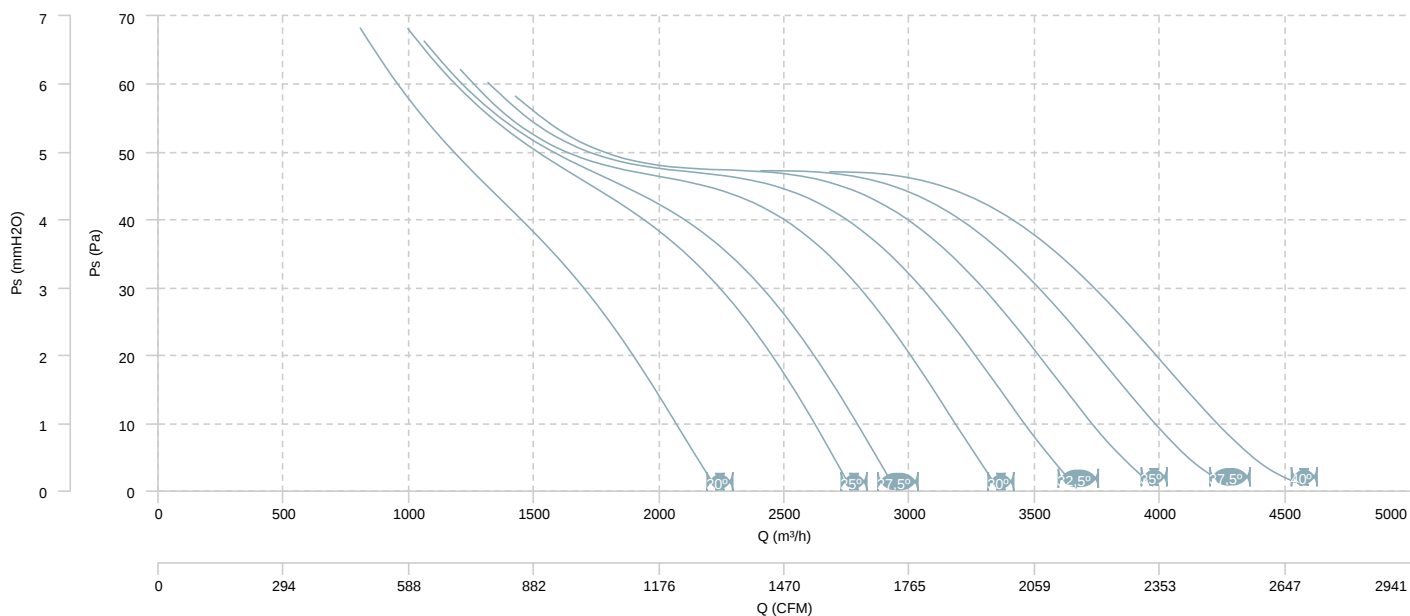


AIR FLOW - MECHANICAL POWER (4 poles)

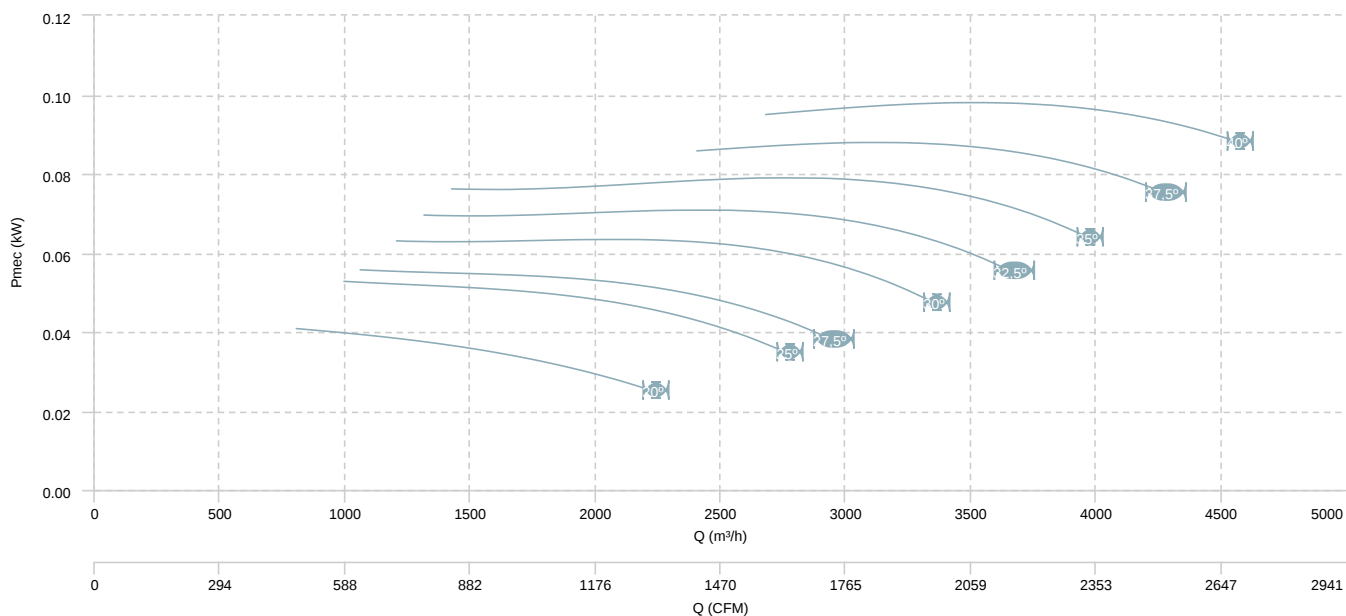


HBF 50 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

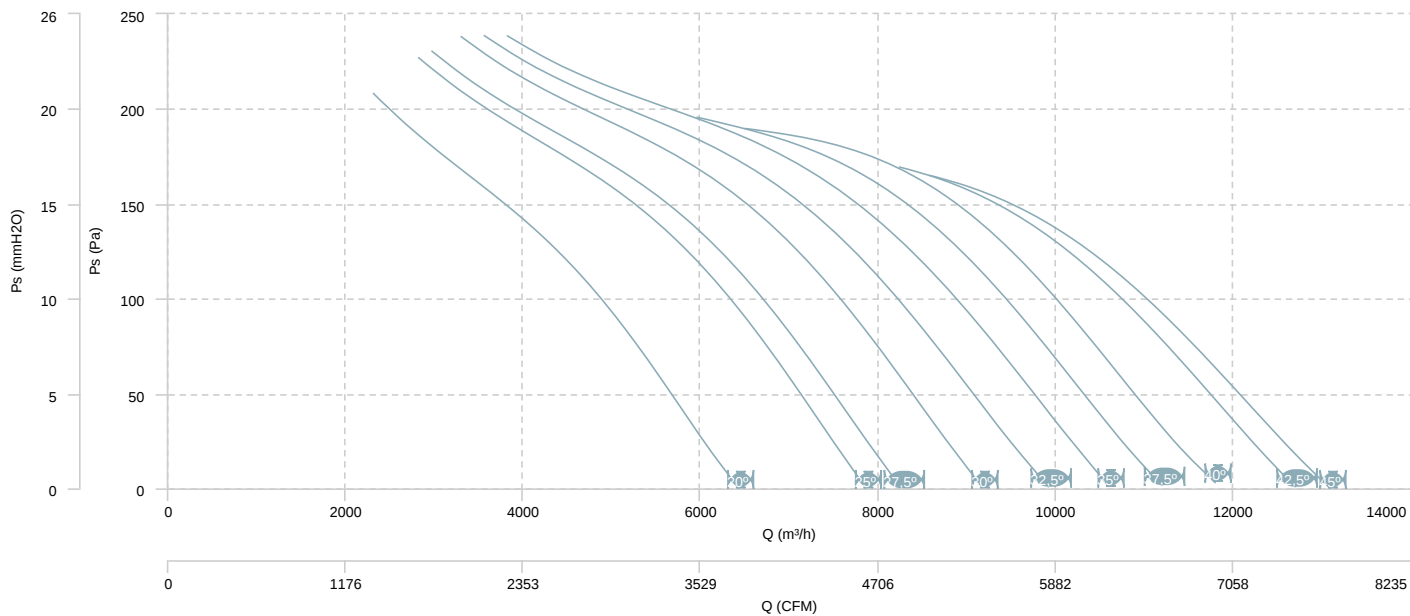


AIR FLOW - MECHANICAL POWER (8 poles)

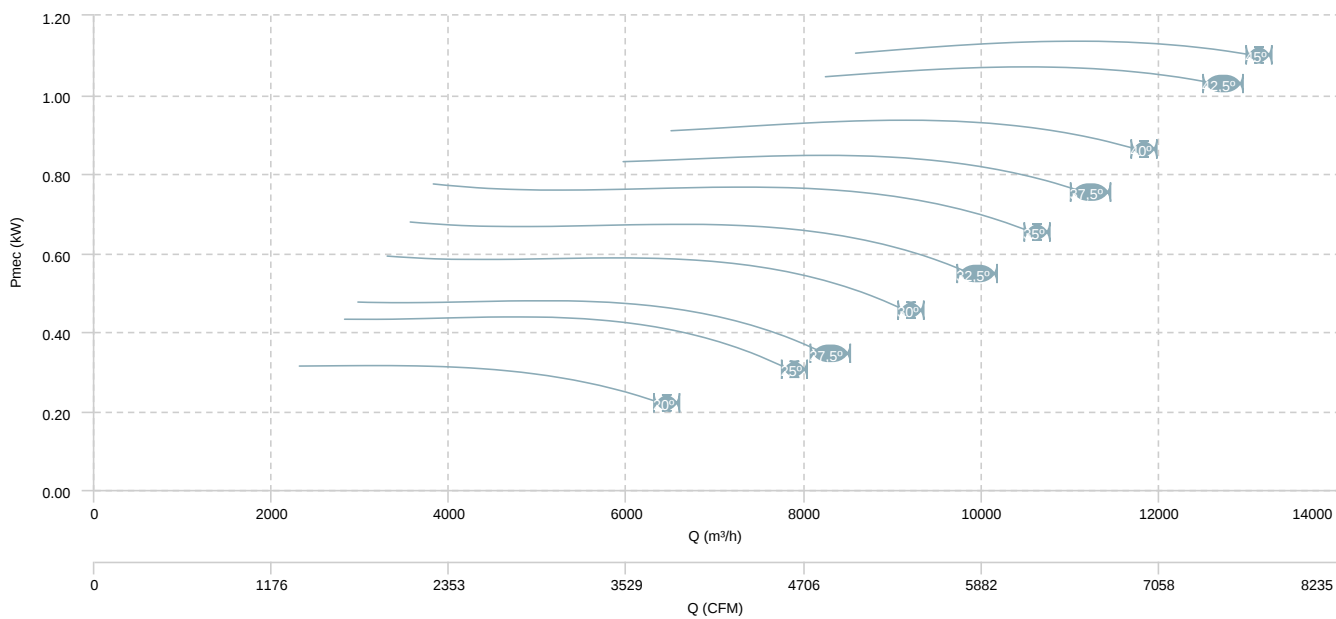


HBF 56 T4 (A2:6) F300

AIR FLOW - PRESSURE

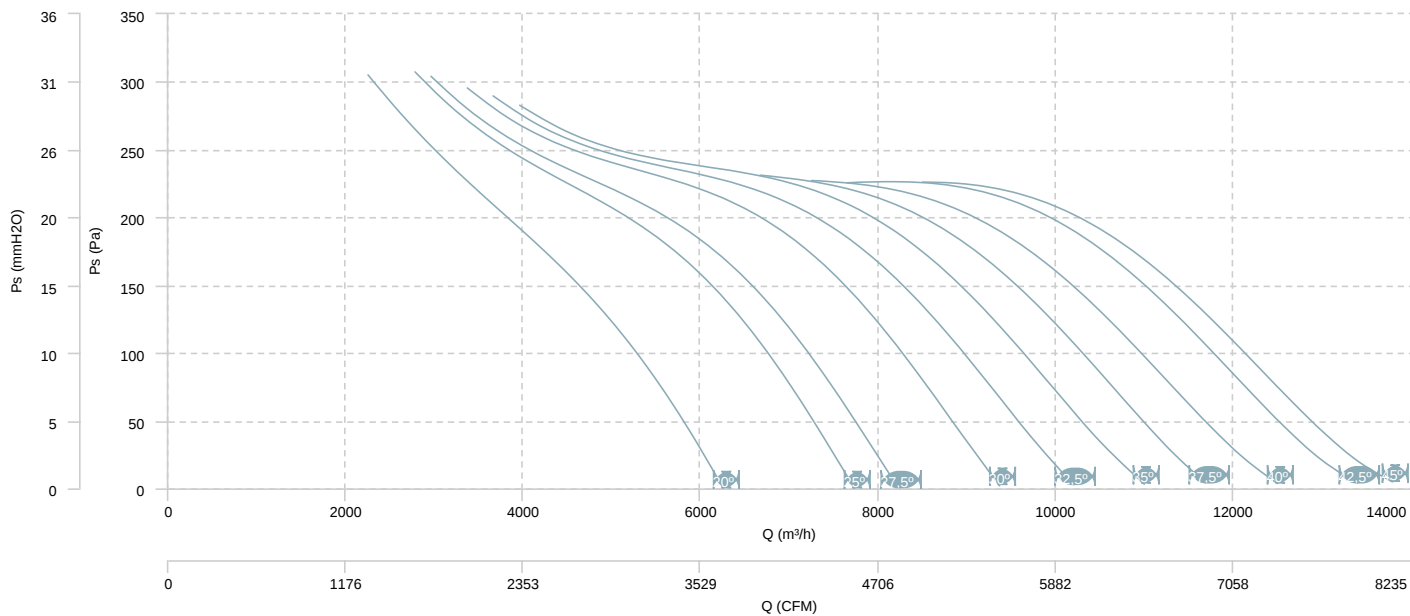


AIR FLOW - MECHANICAL POWER

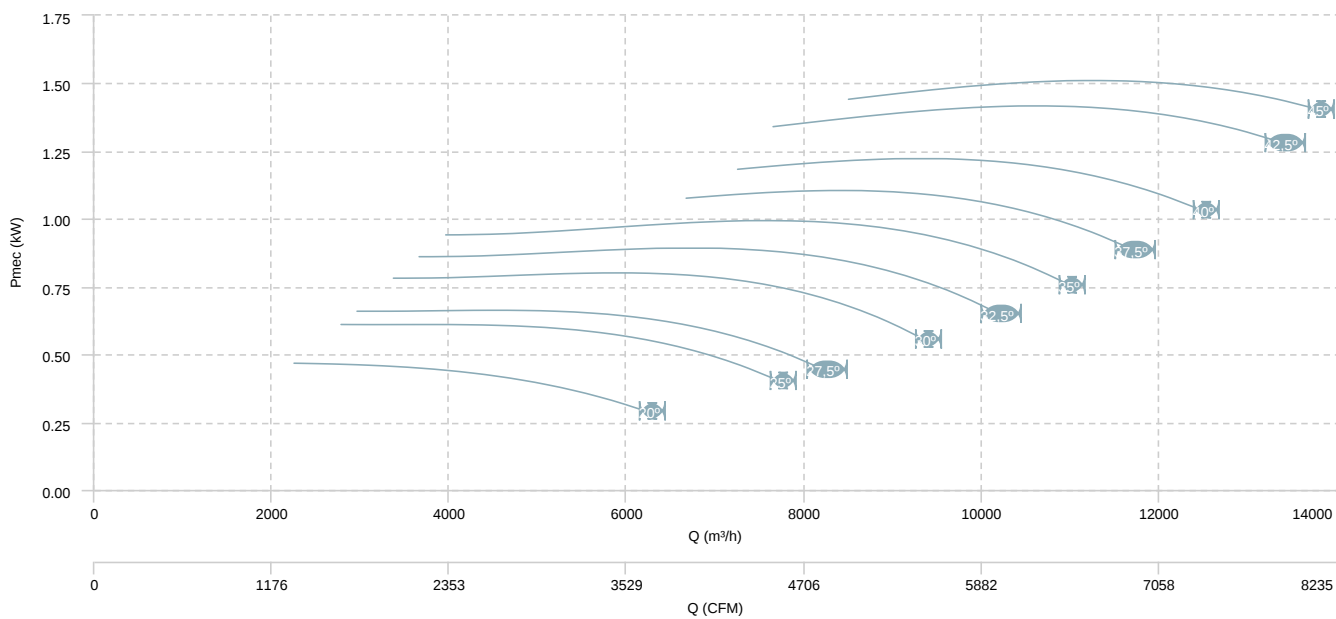


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AIR FLOW - PRESSURE

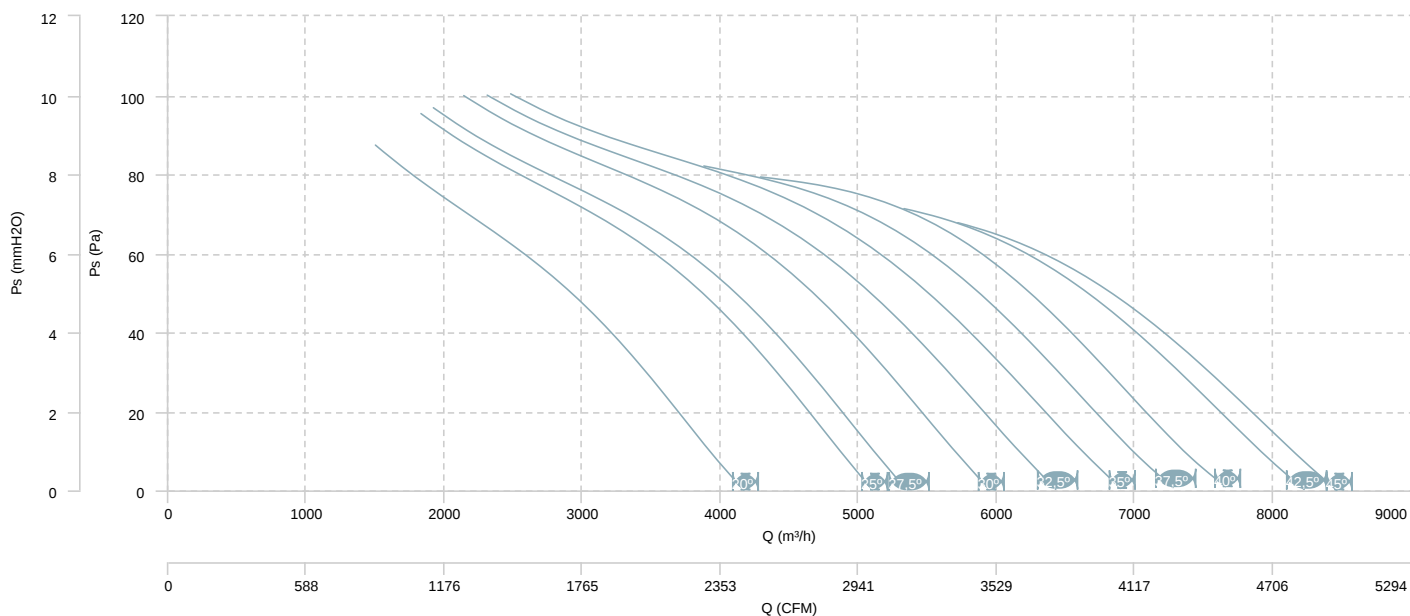


AIR FLOW - MECHANICAL POWER

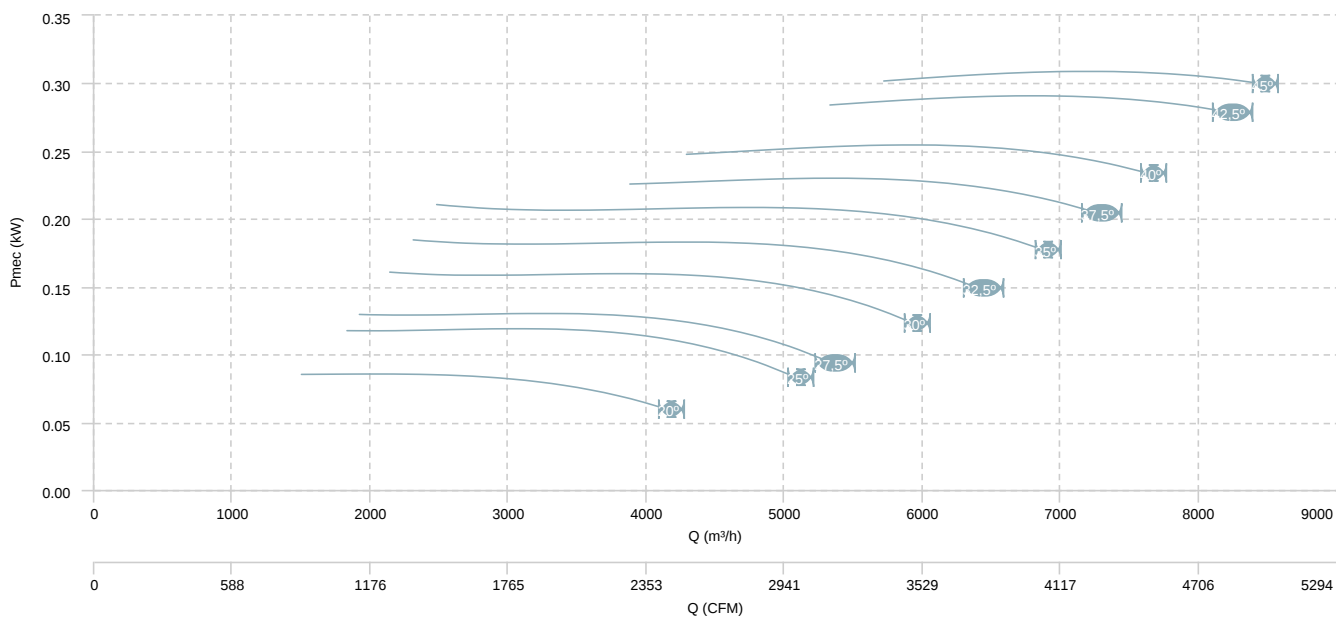


HBF 56 T6 (A2:6) F300

AIR FLOW - PRESSURE

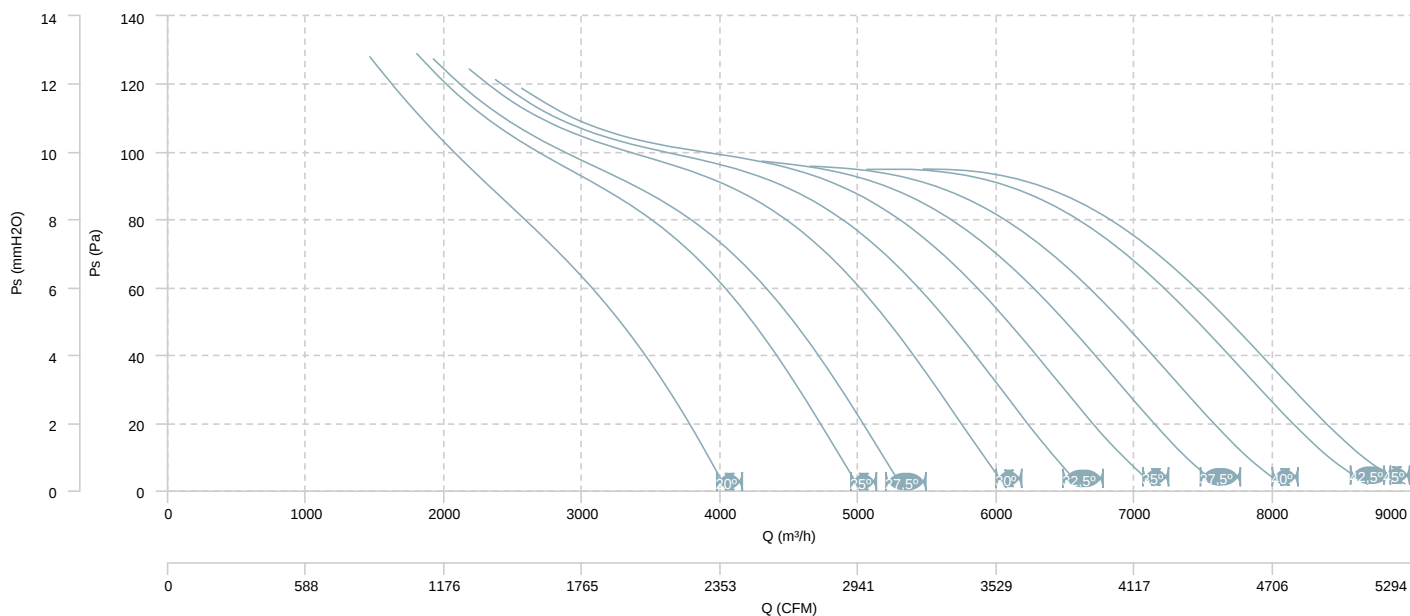


AIR FLOW - MECHANICAL POWER

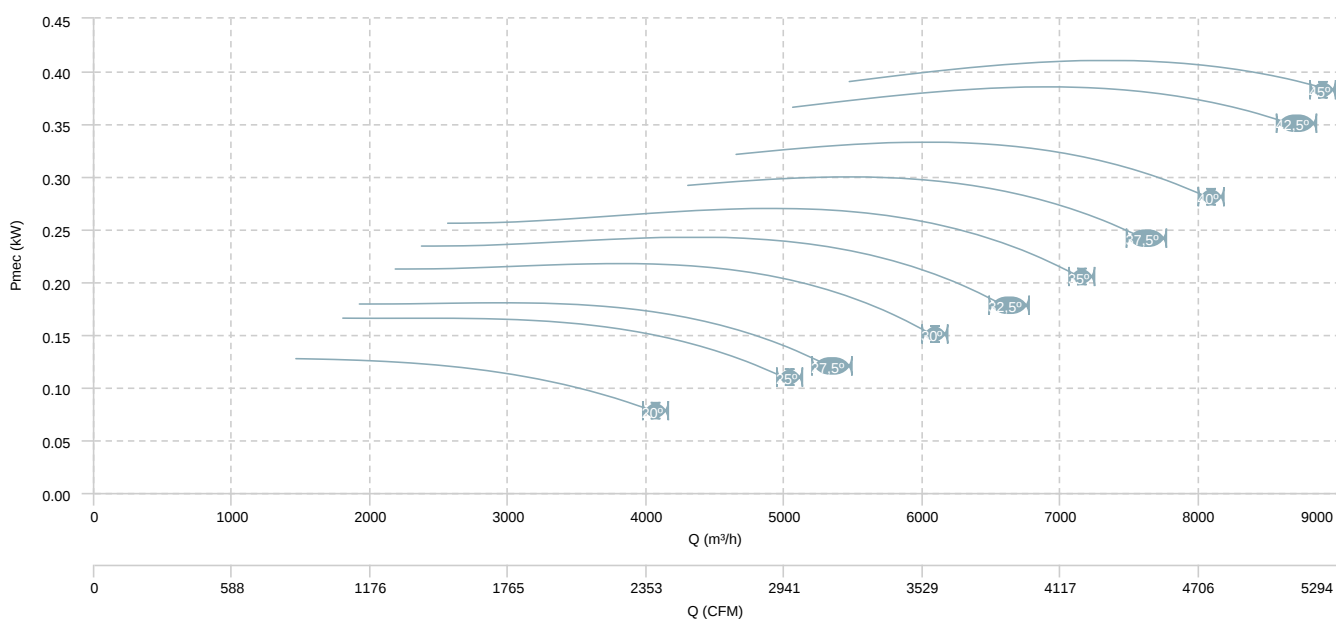


HBF 56 T6 (A2:9) F300

AIR FLOW - PRESSURE

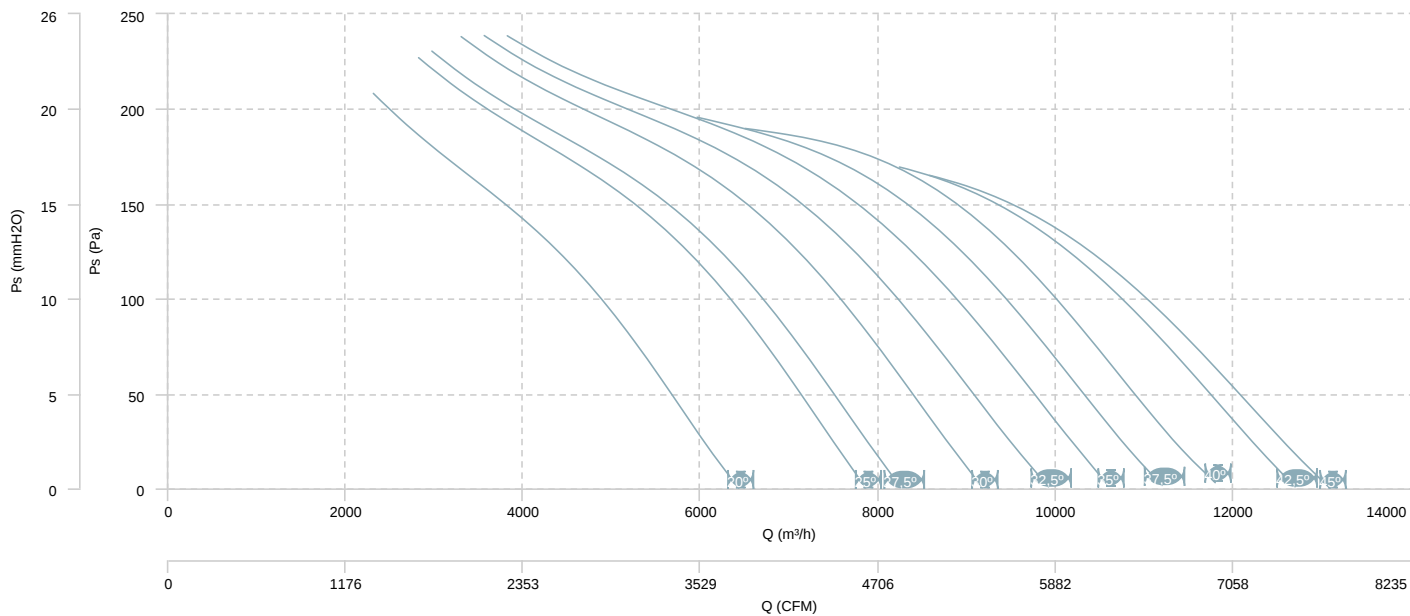


AIR FLOW - MECHANICAL POWER

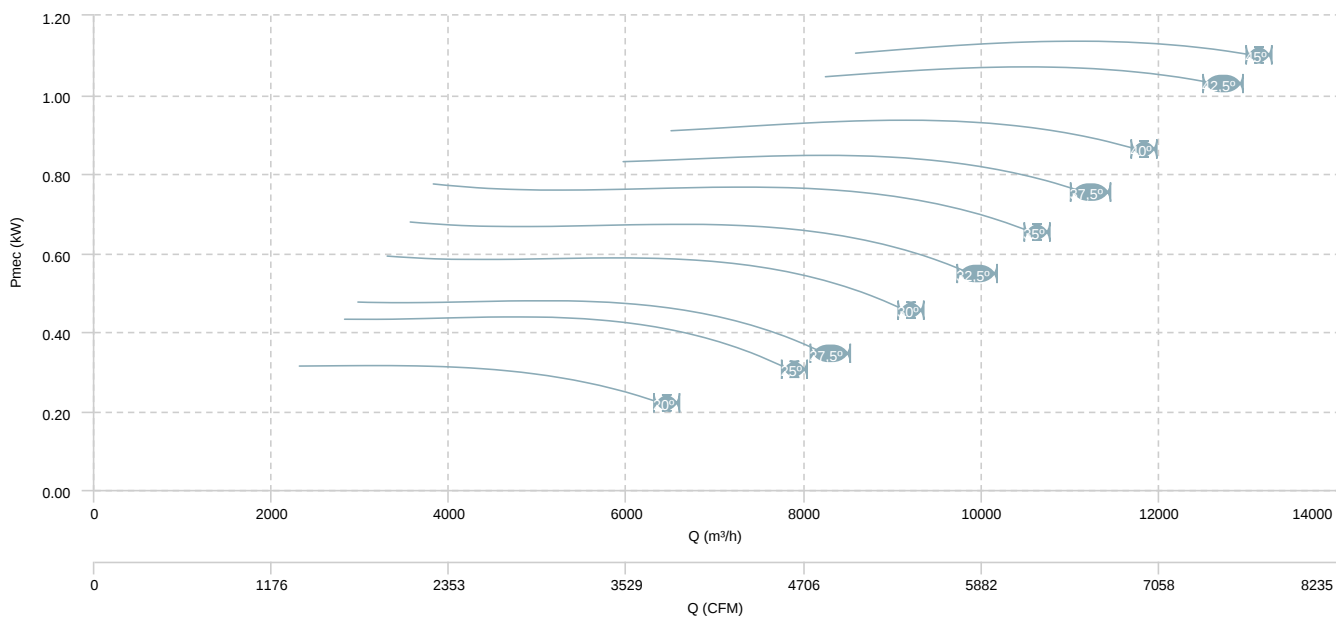


HBF 56 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

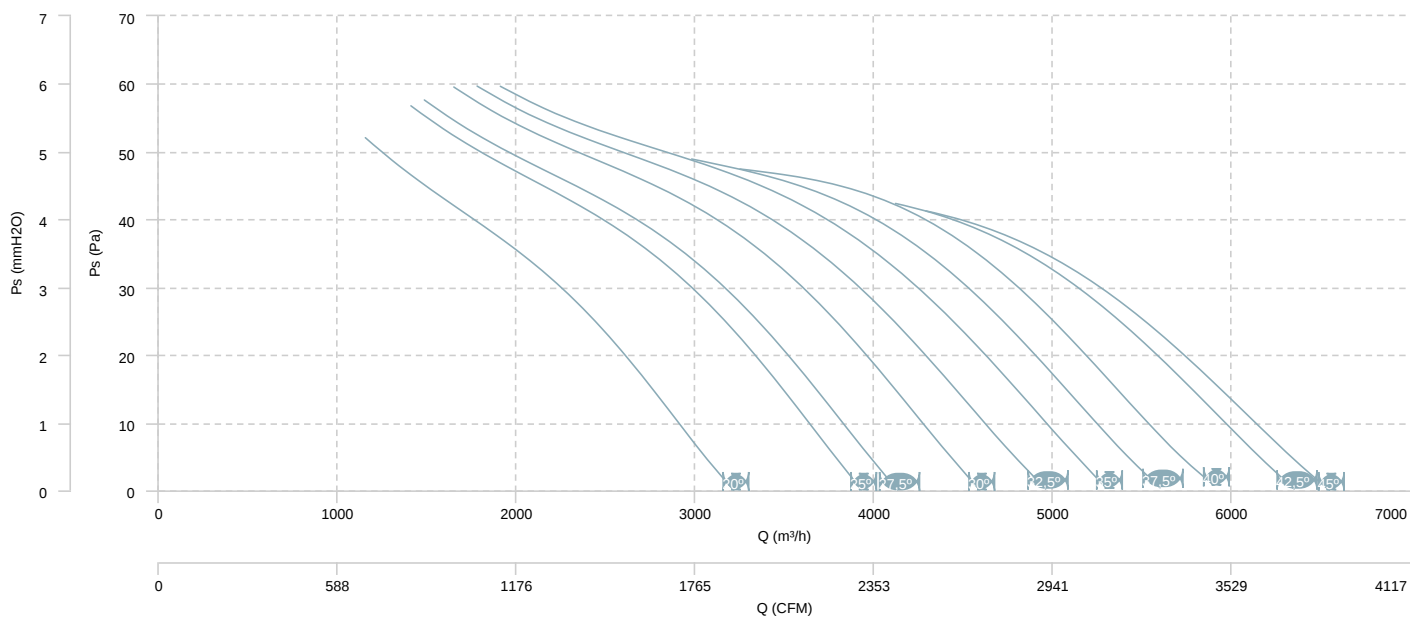


AIR FLOW - MECHANICAL POWER (4 poles)

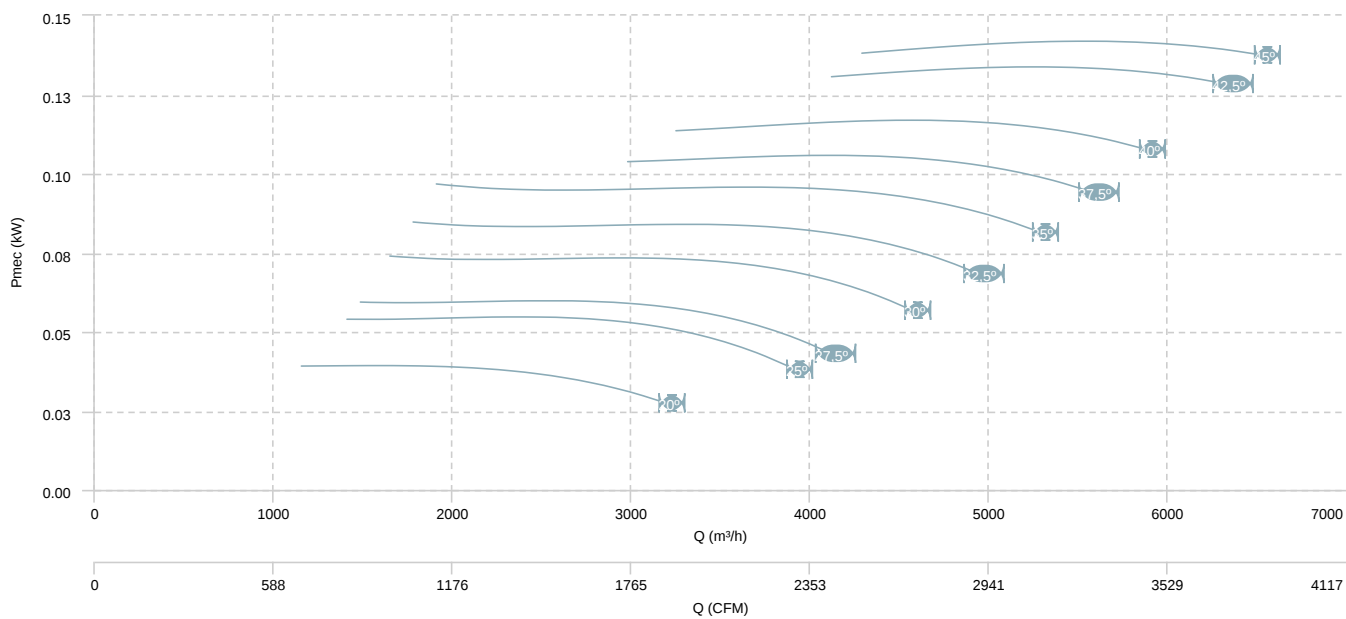


HBF 56 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

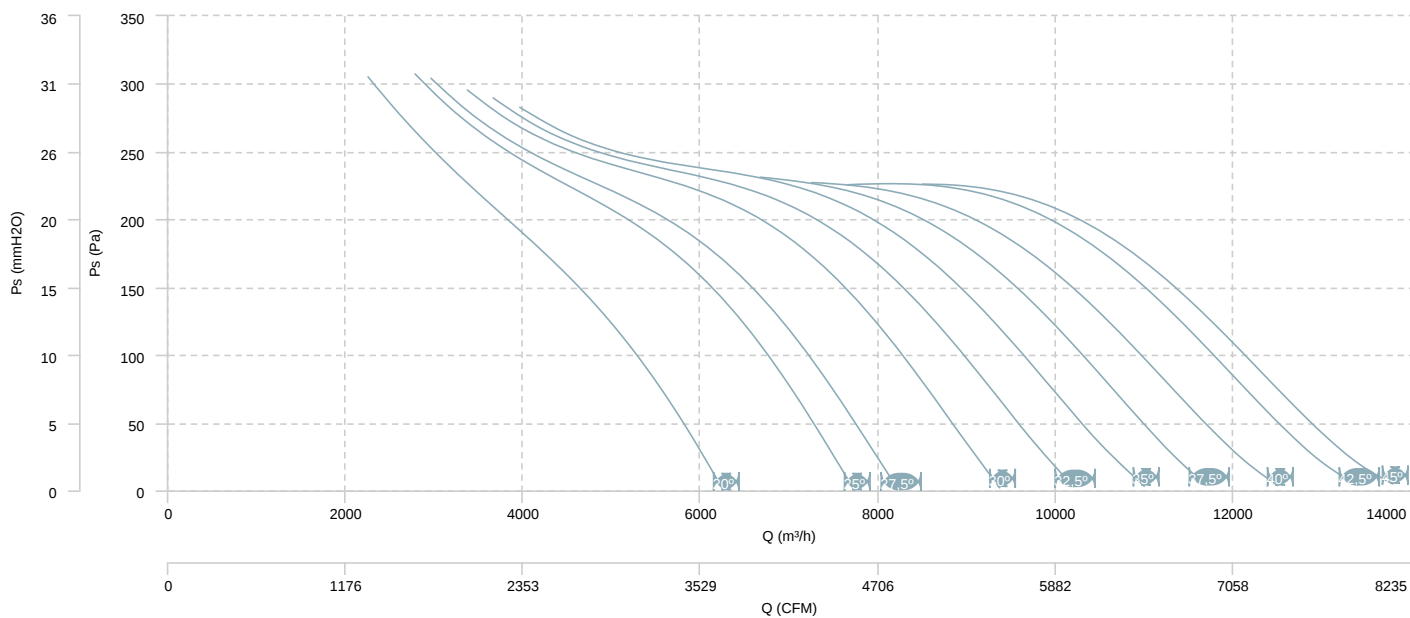


AIR FLOW - MECHANICAL POWER (8 poles)

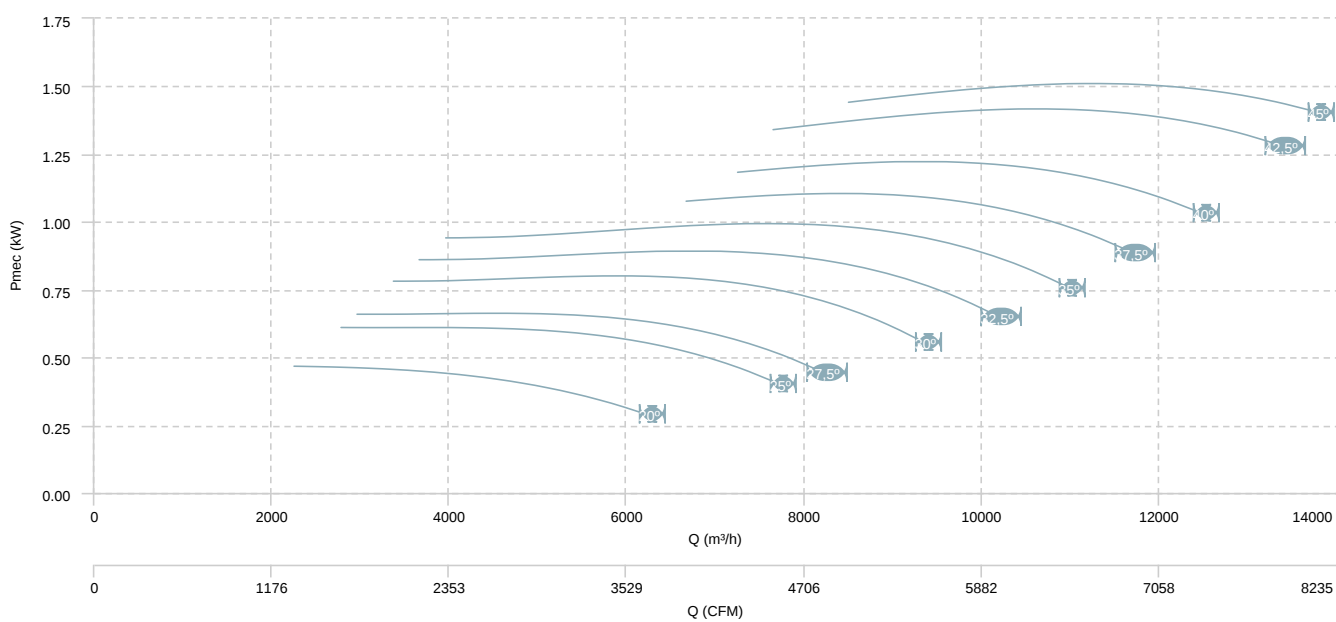


HBF 56 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

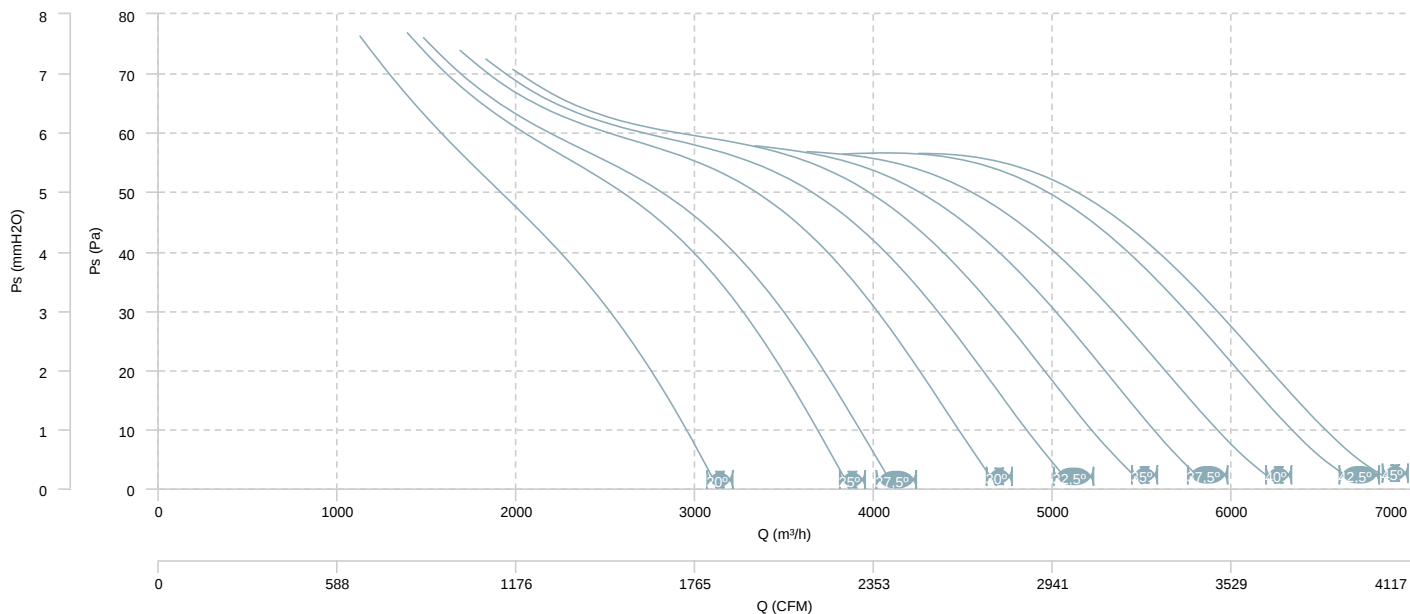


AIR FLOW - MECHANICAL POWER (4 poles)

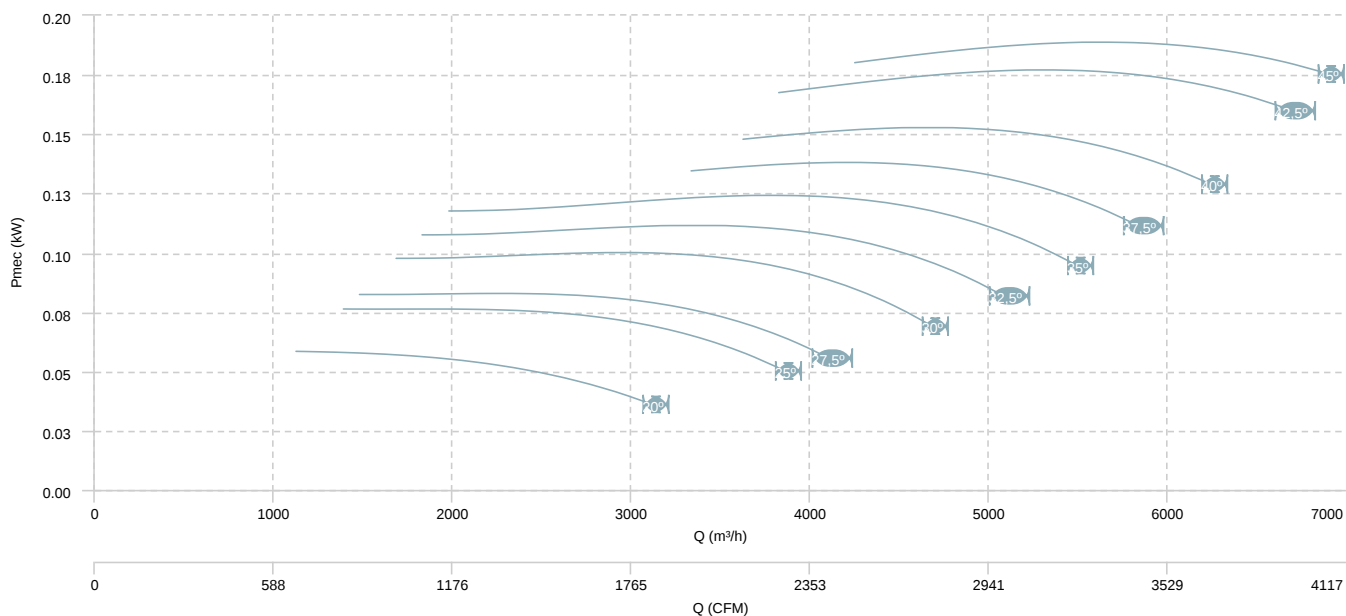


HBF 56 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

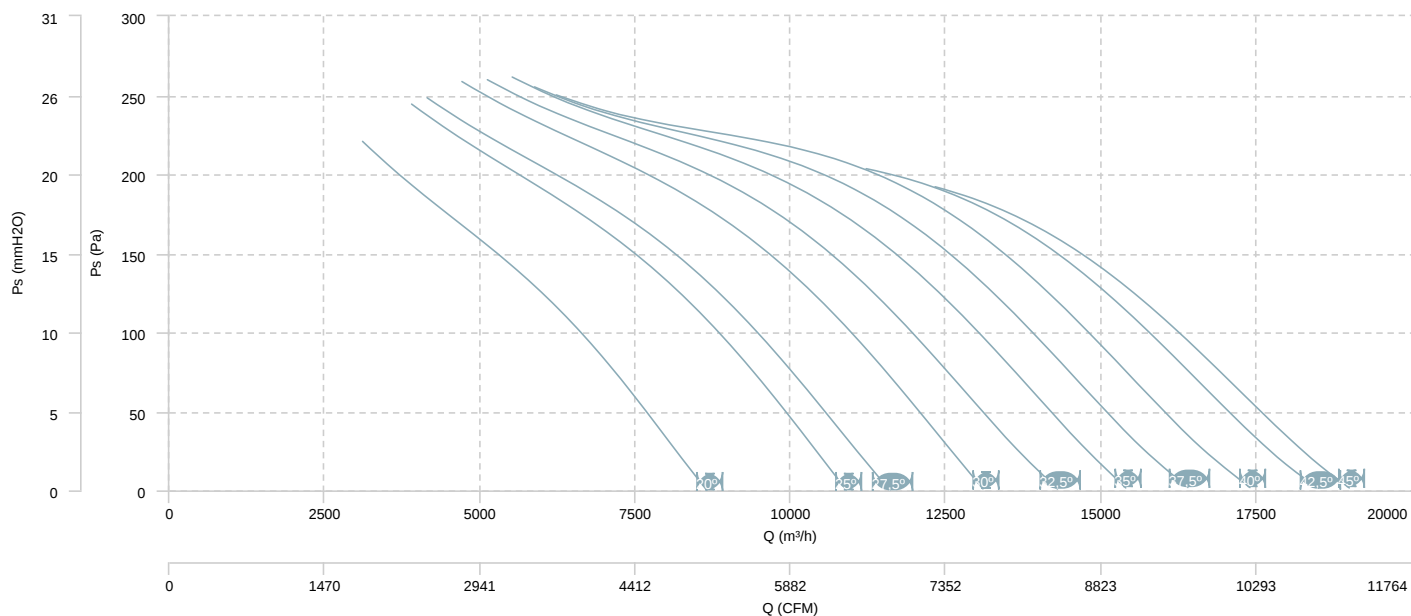


AIR FLOW - MECHANICAL POWER (8 poles)

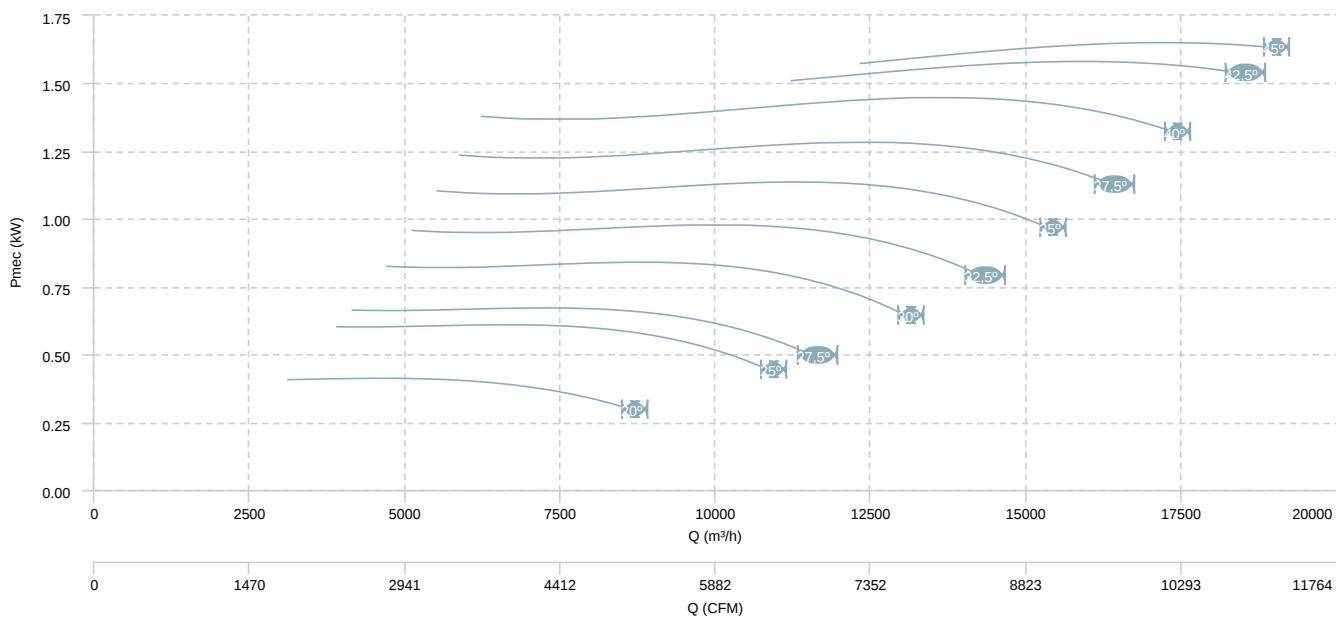


HBF 63 T4 (A2:6) F300

AIR FLOW - PRESSURE

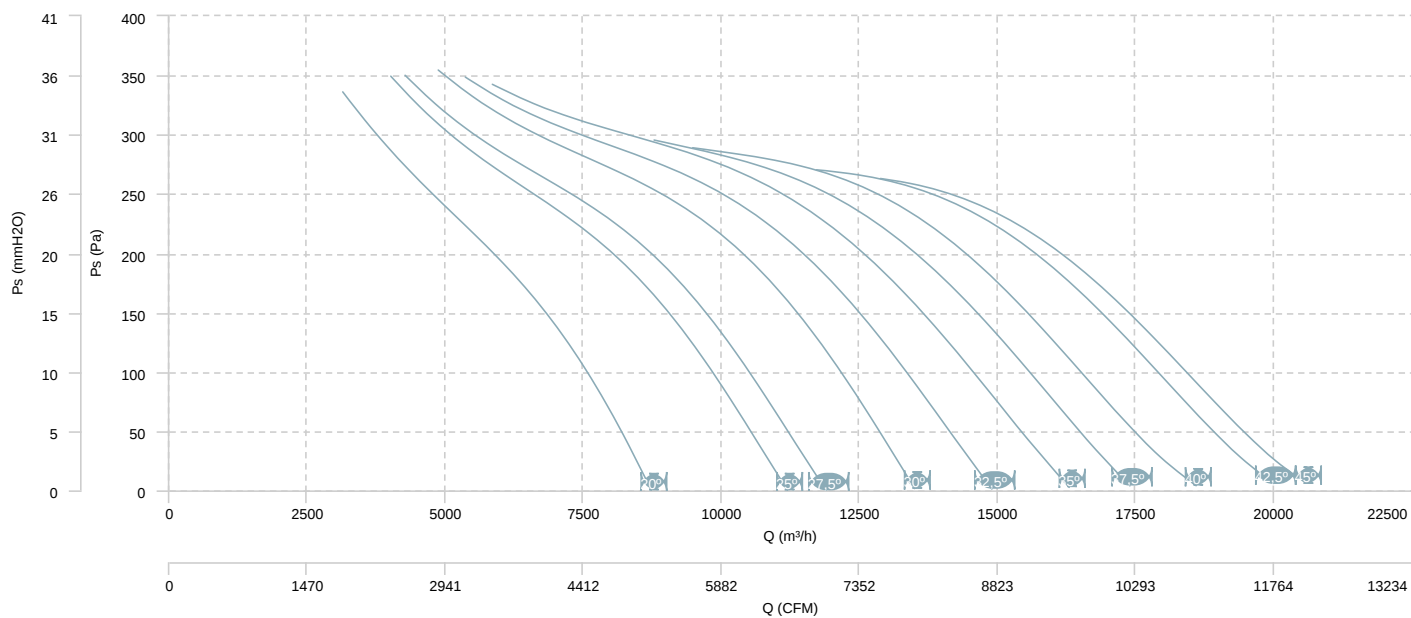


AIR FLOW - MECHANICAL POWER



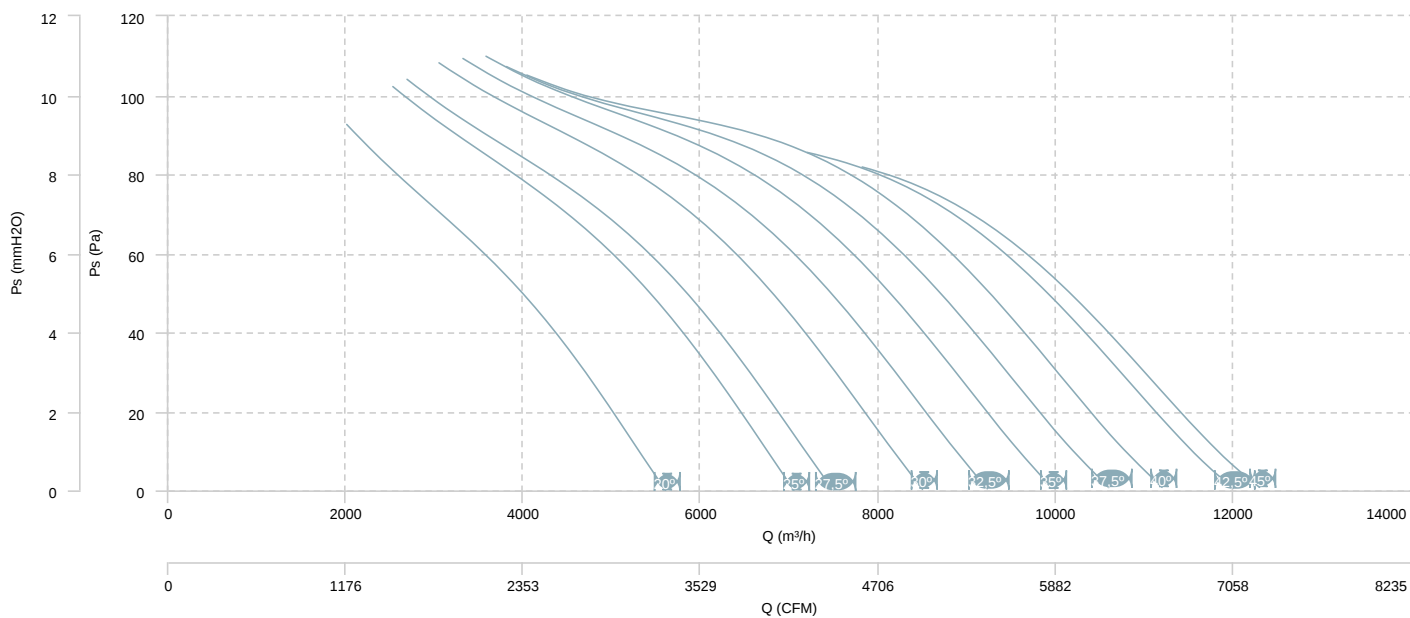
HBF 63 T4 (A2:9) F300

AIR FLOW - PRESSURE

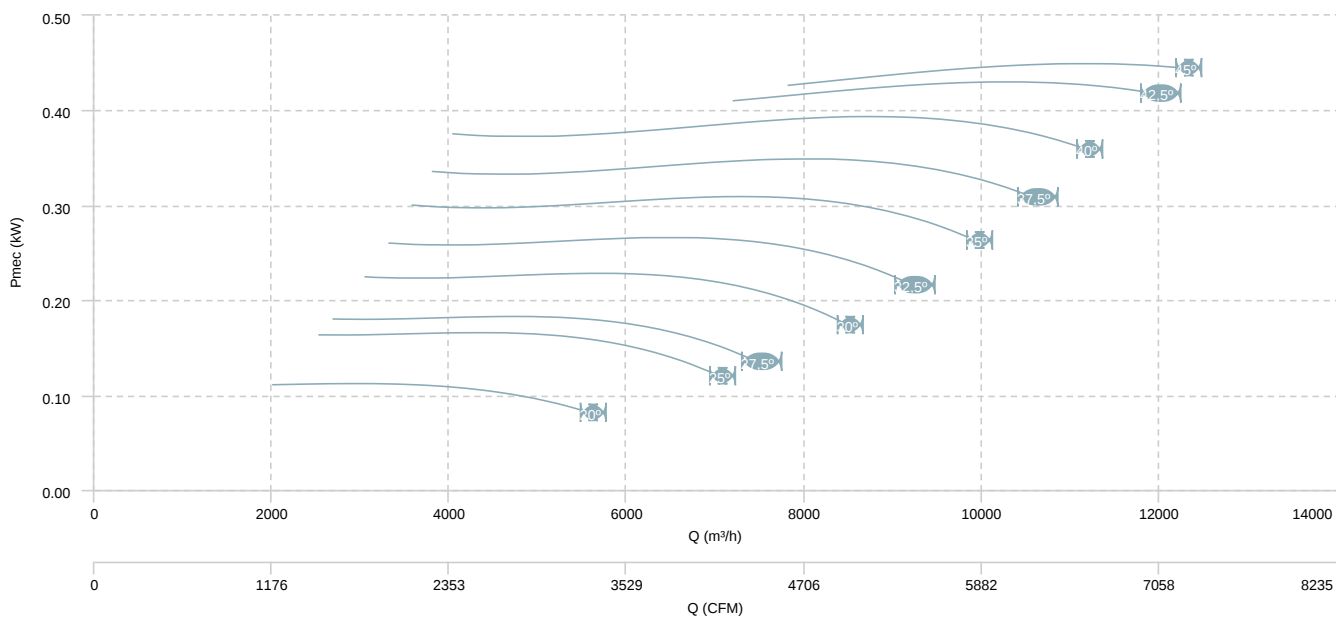


HBF 63 T6 (A2:6) F300

AIR FLOW - PRESSURE

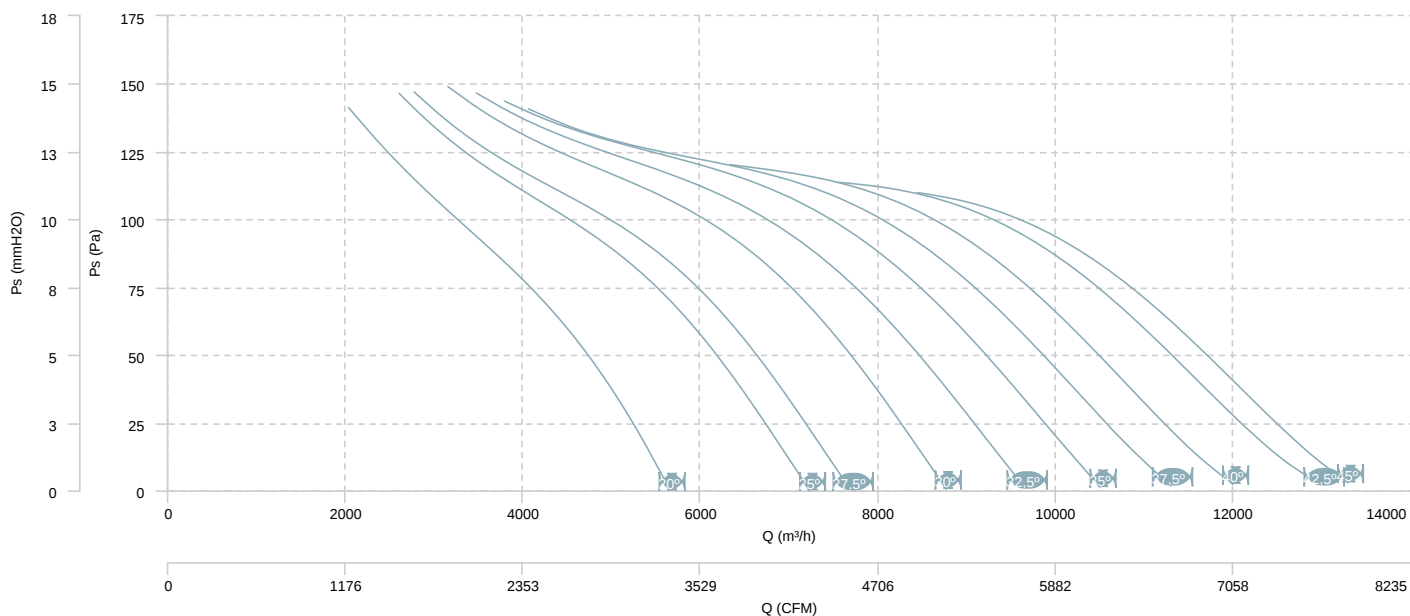


AIR FLOW - MECHANICAL POWER



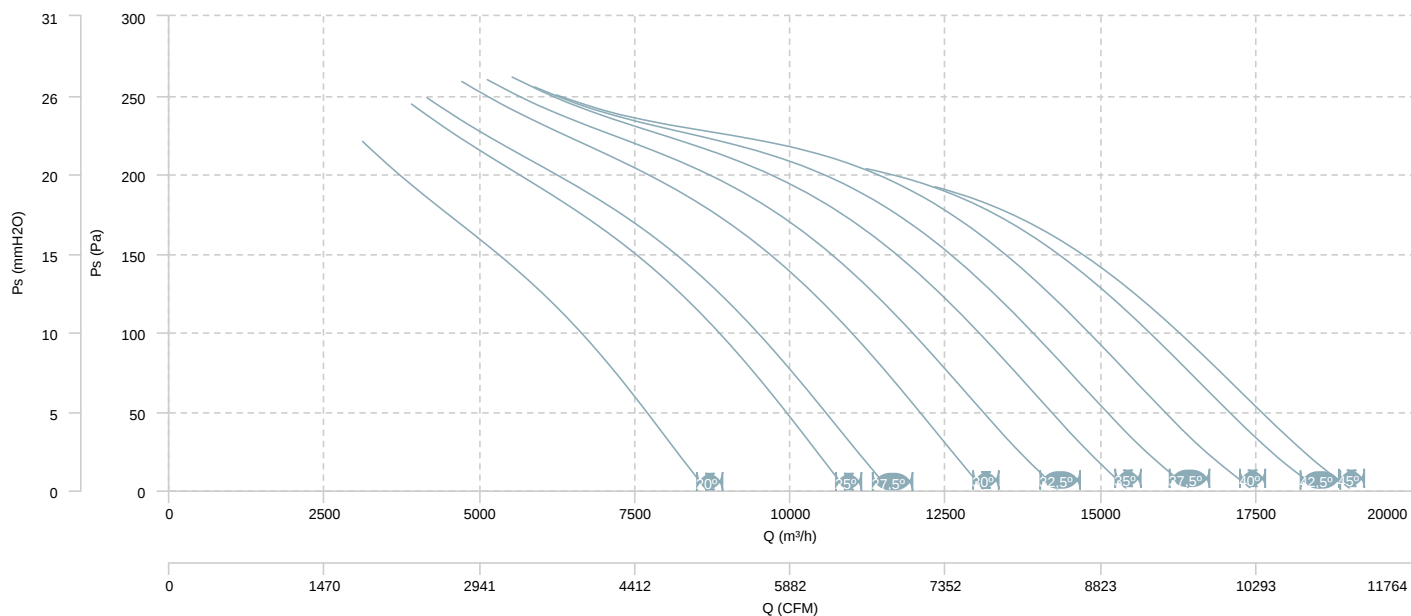
HBF 63 T6 (A2:9) F300

AIR FLOW - PRESSURE

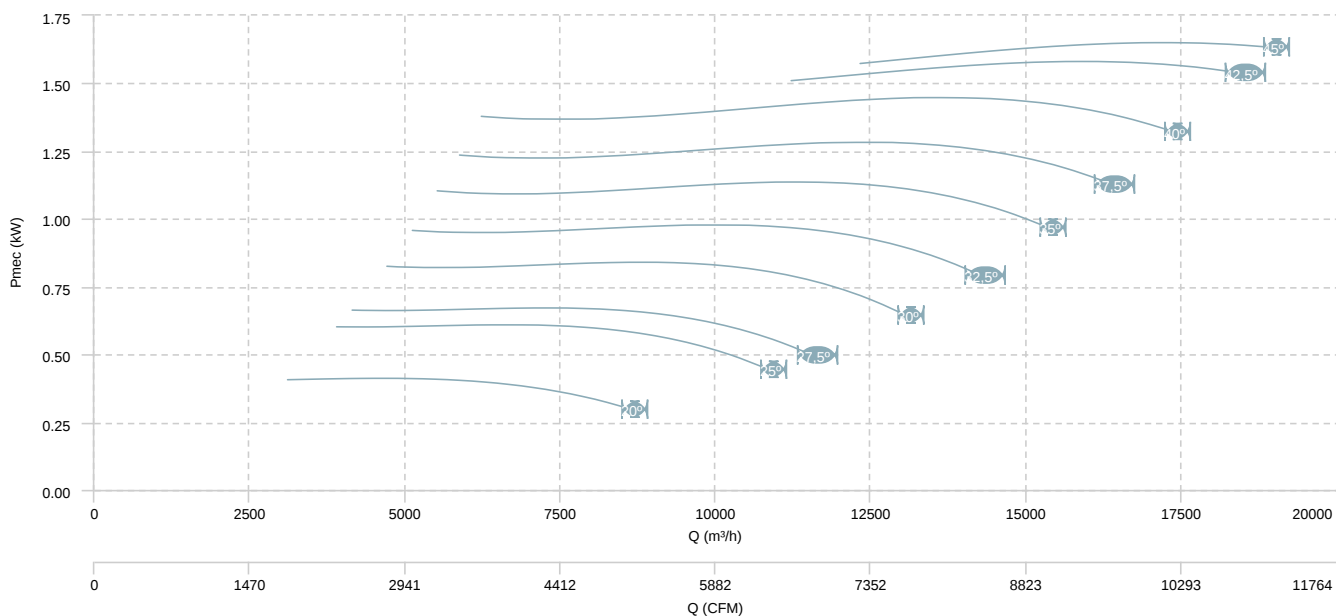


HBF 63 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

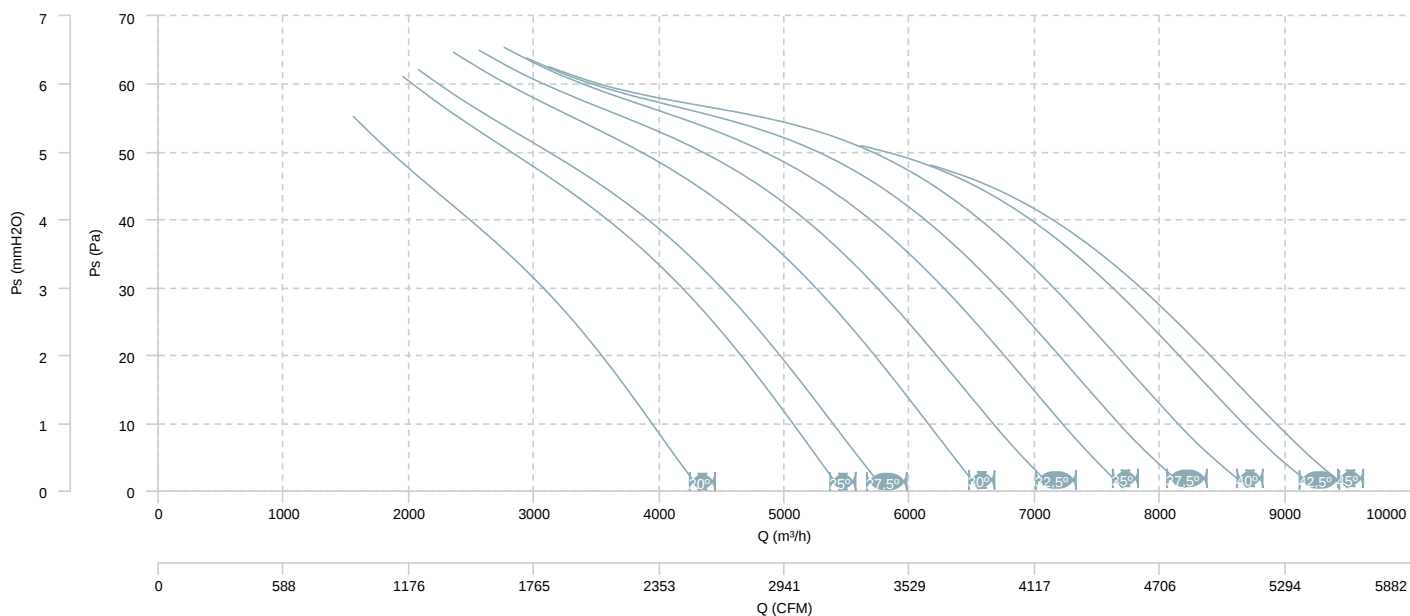


AIR FLOW - MECHANICAL POWER (4 poles)

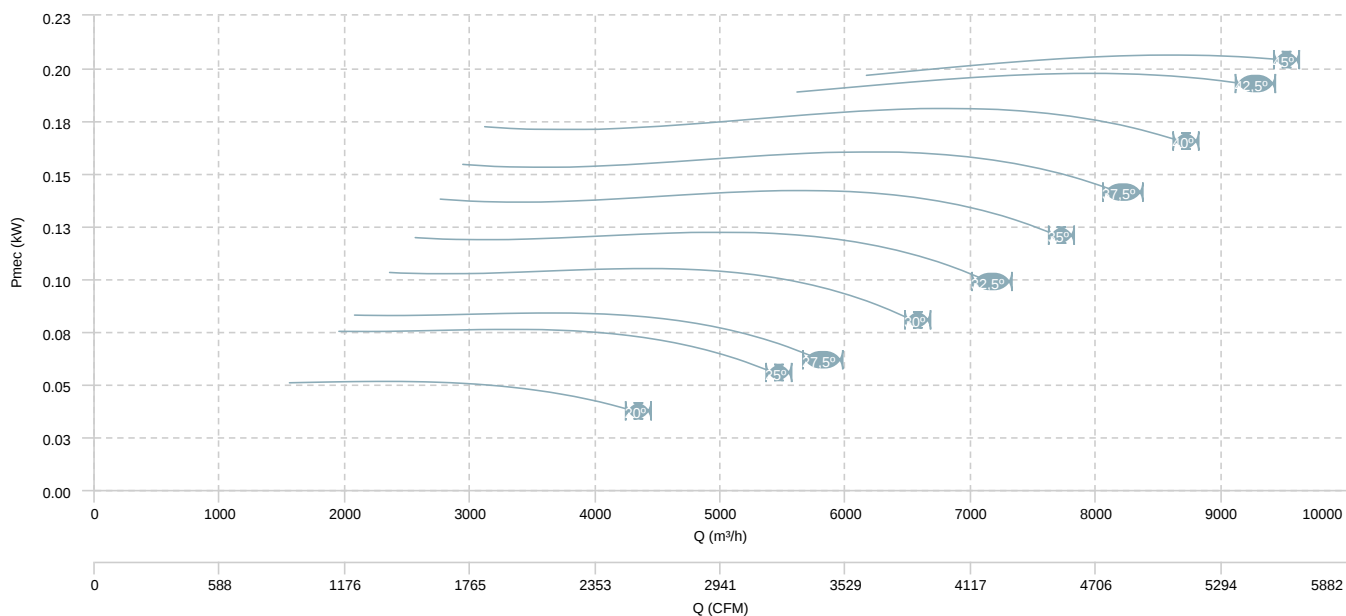


HBF 63 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

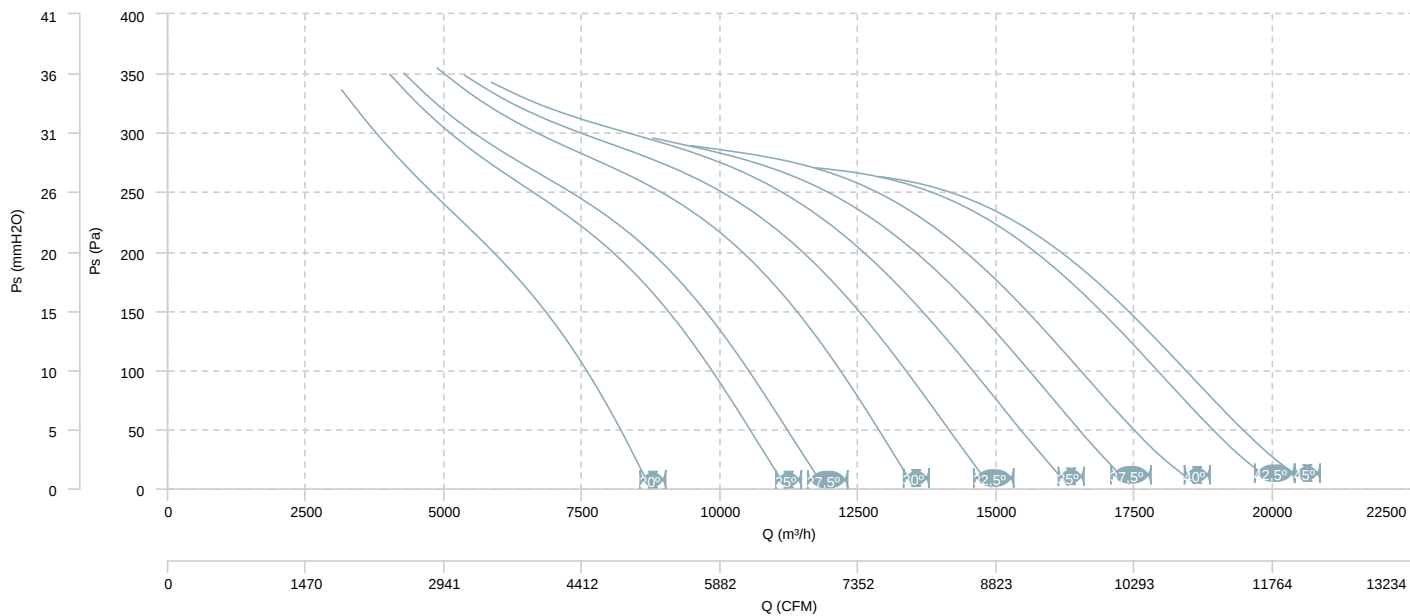


AIR FLOW - MECHANICAL POWER (8 poles)

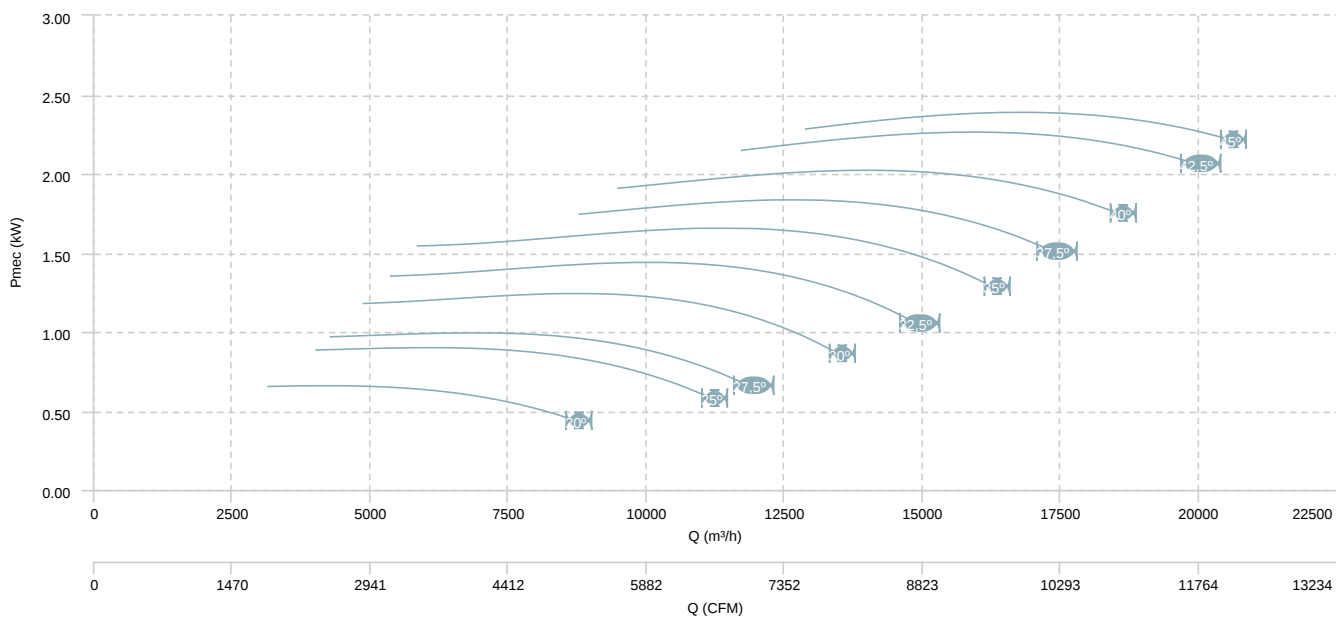


HBF 63 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

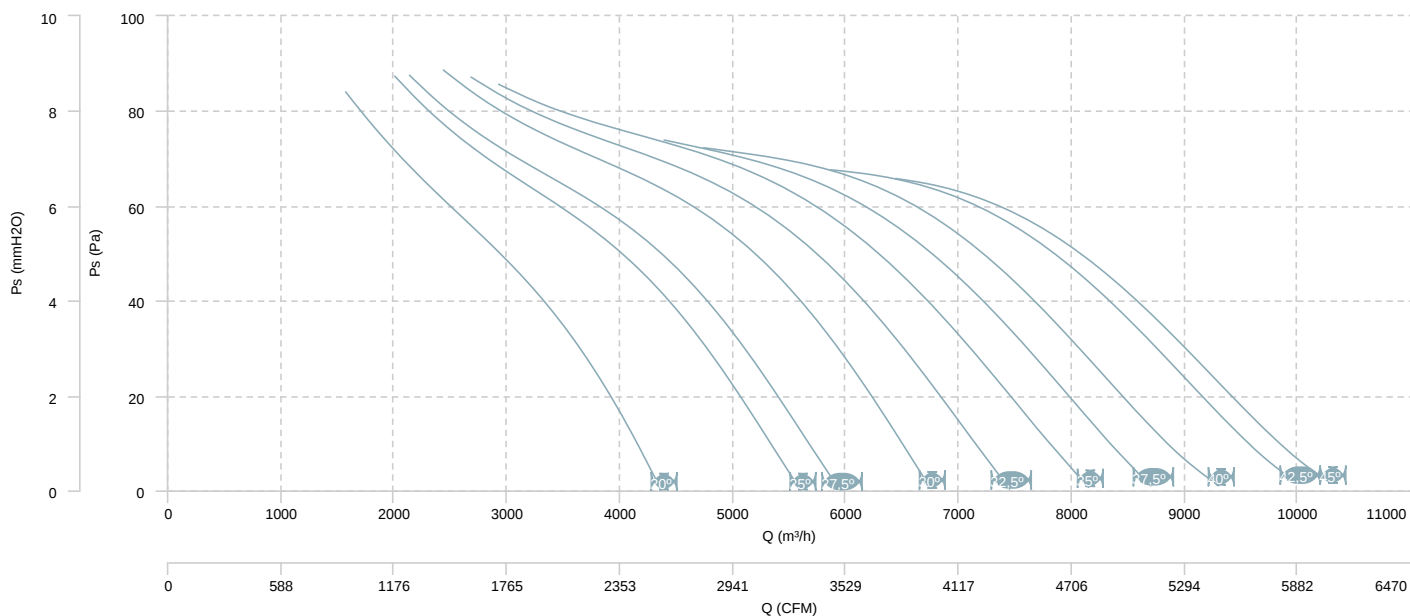


AIR FLOW - MECHANICAL POWER (4 poles)

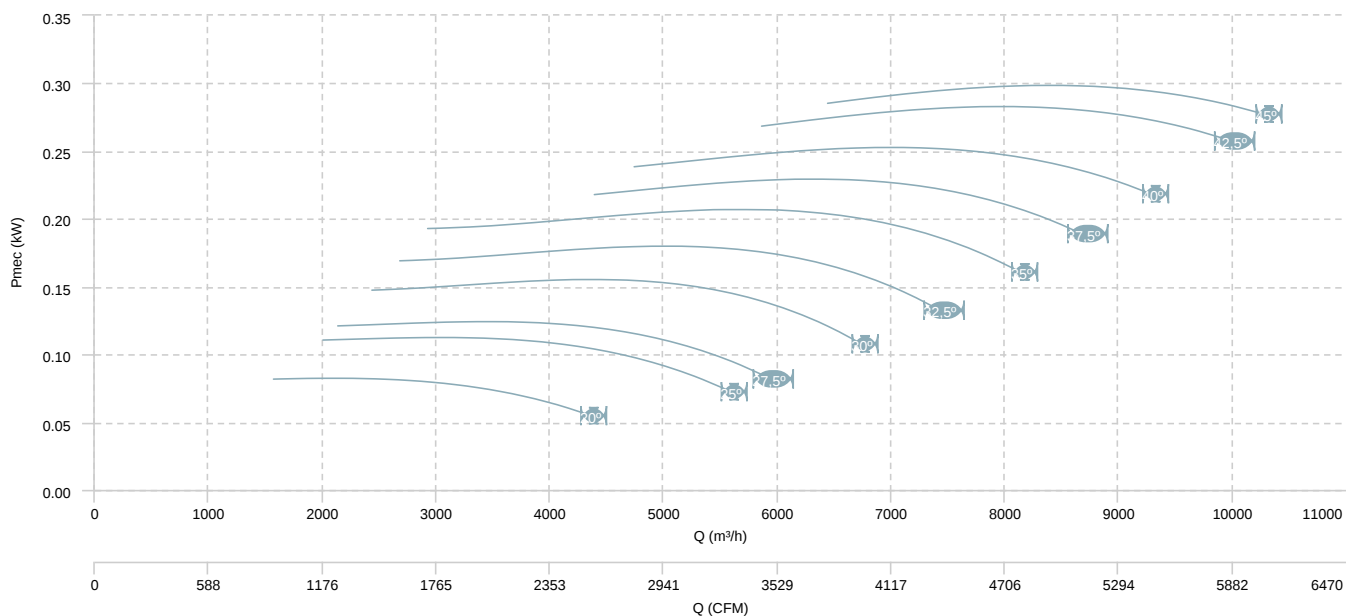


HBF 63 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

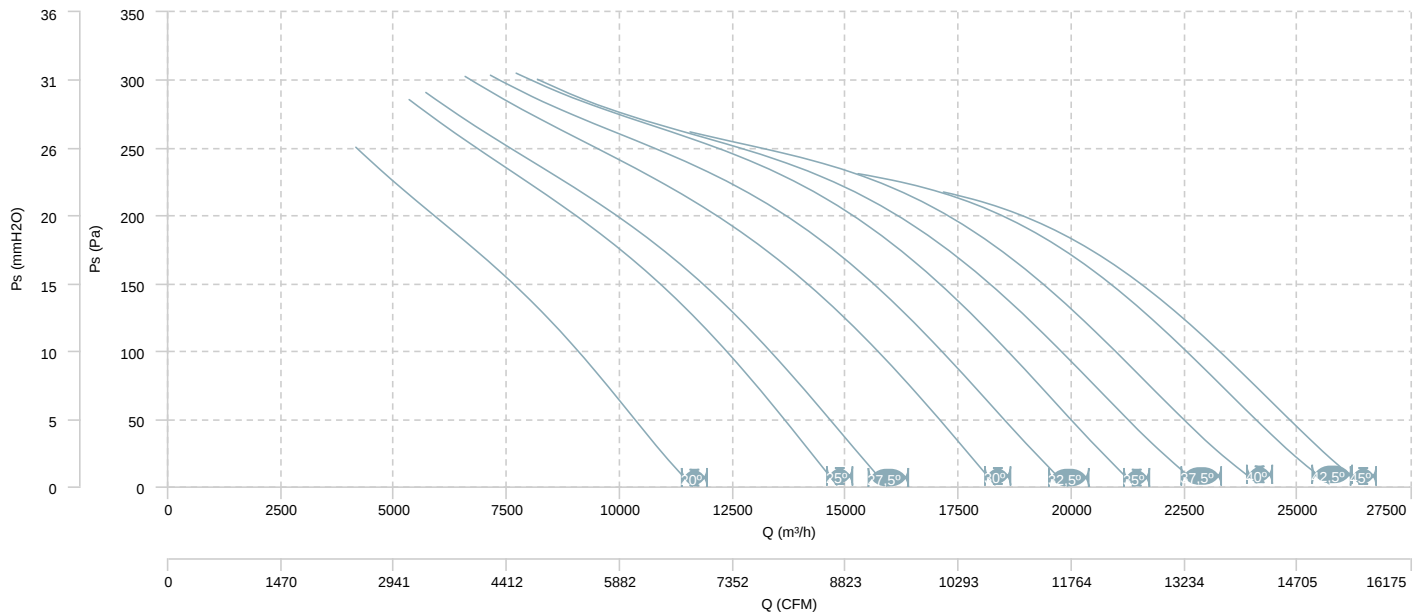


AIR FLOW - MECHANICAL POWER (8 poles)

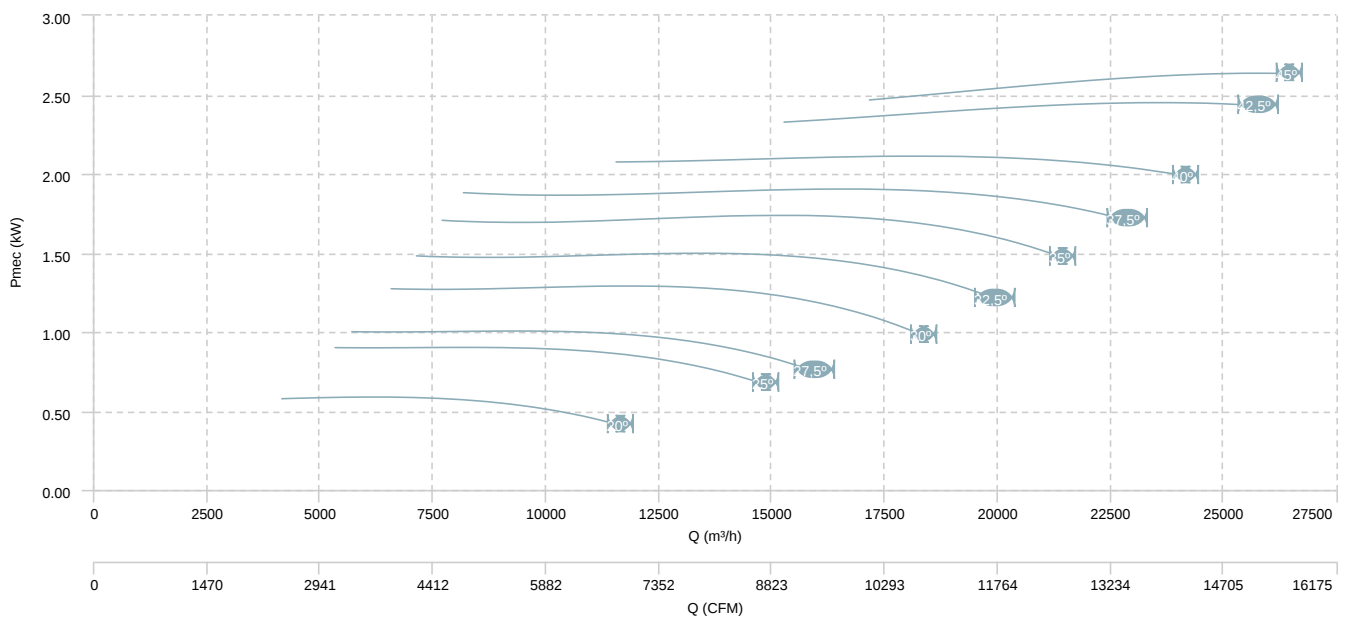


HBF 71 T4 (A2:6) F300

AIR FLOW - PRESSURE

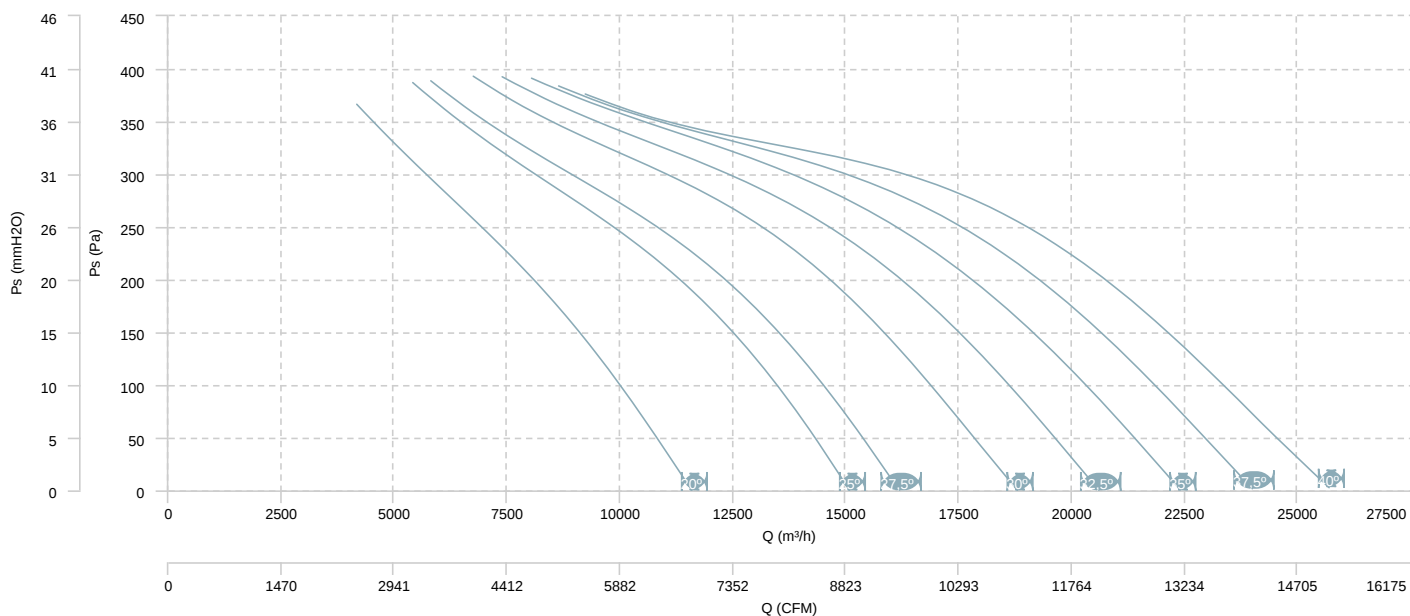


AIR FLOW - MECHANICAL POWER

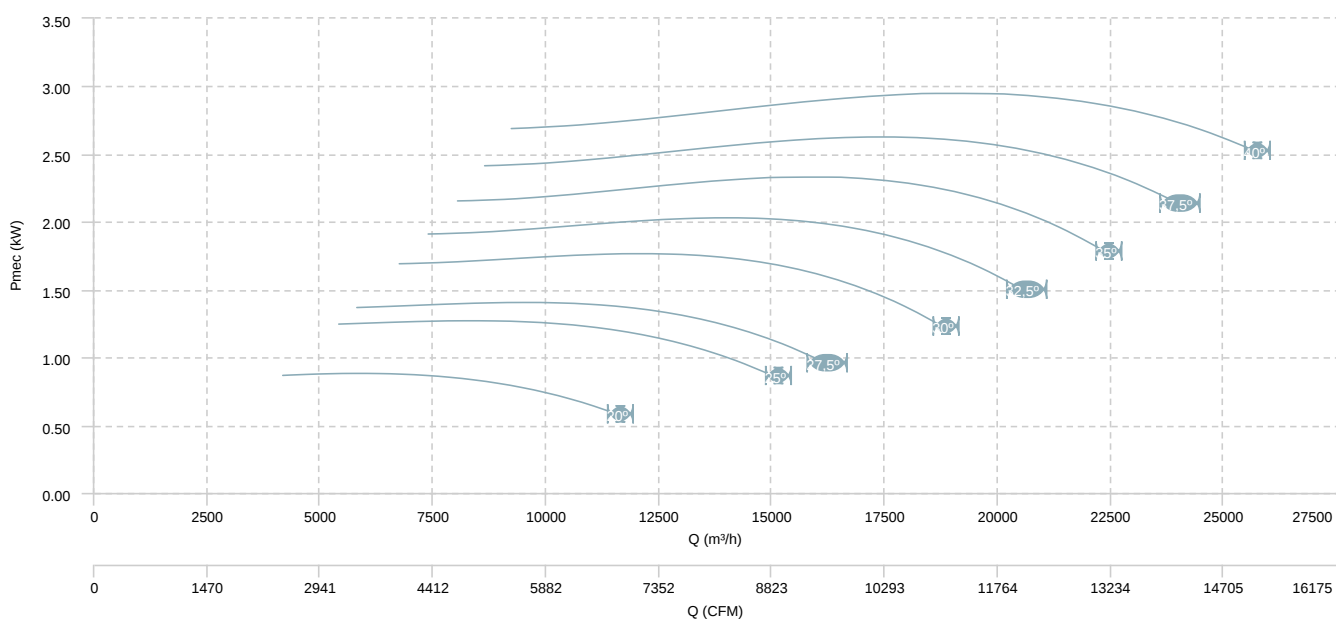


HBF 71 T4 (A2:9) F300

AIR FLOW - PRESSURE

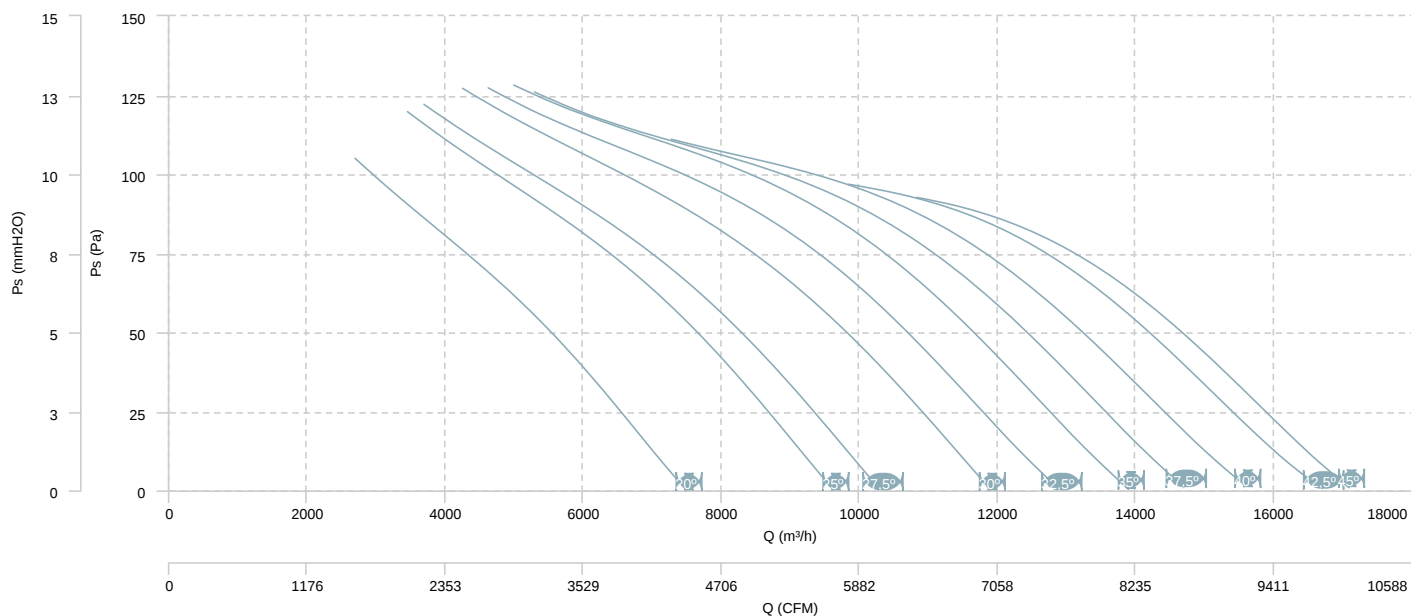


AIR FLOW - MECHANICAL POWER

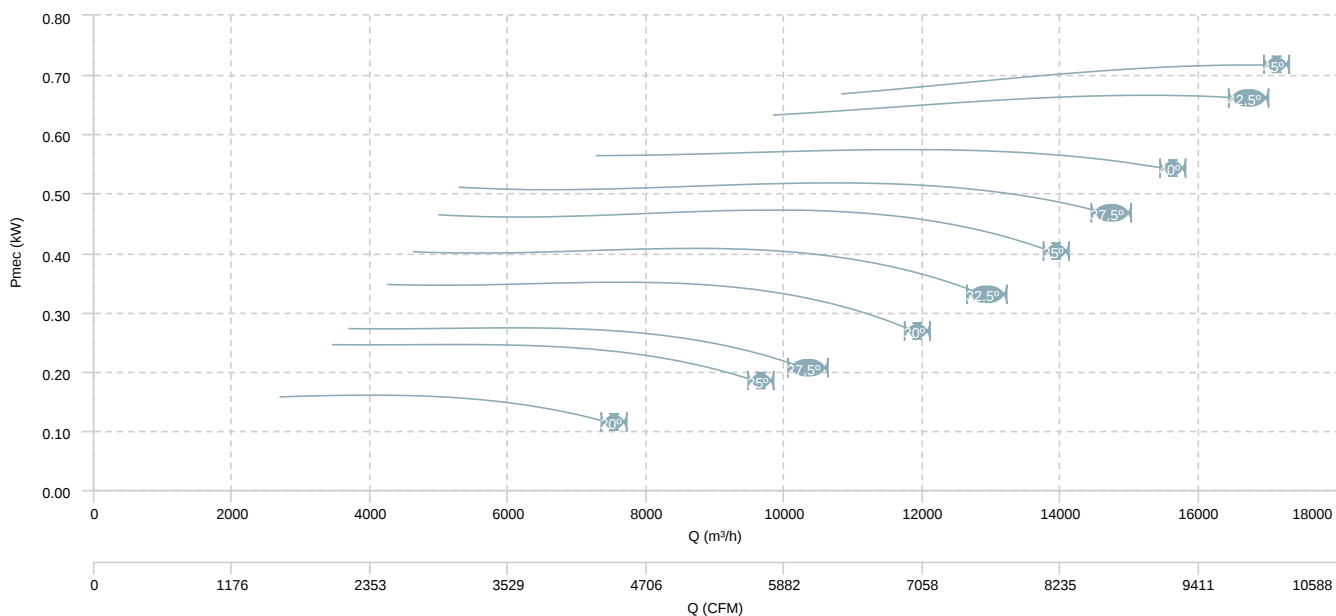


HBF 71 T6 (A2:6) F300

AIR FLOW - PRESSURE

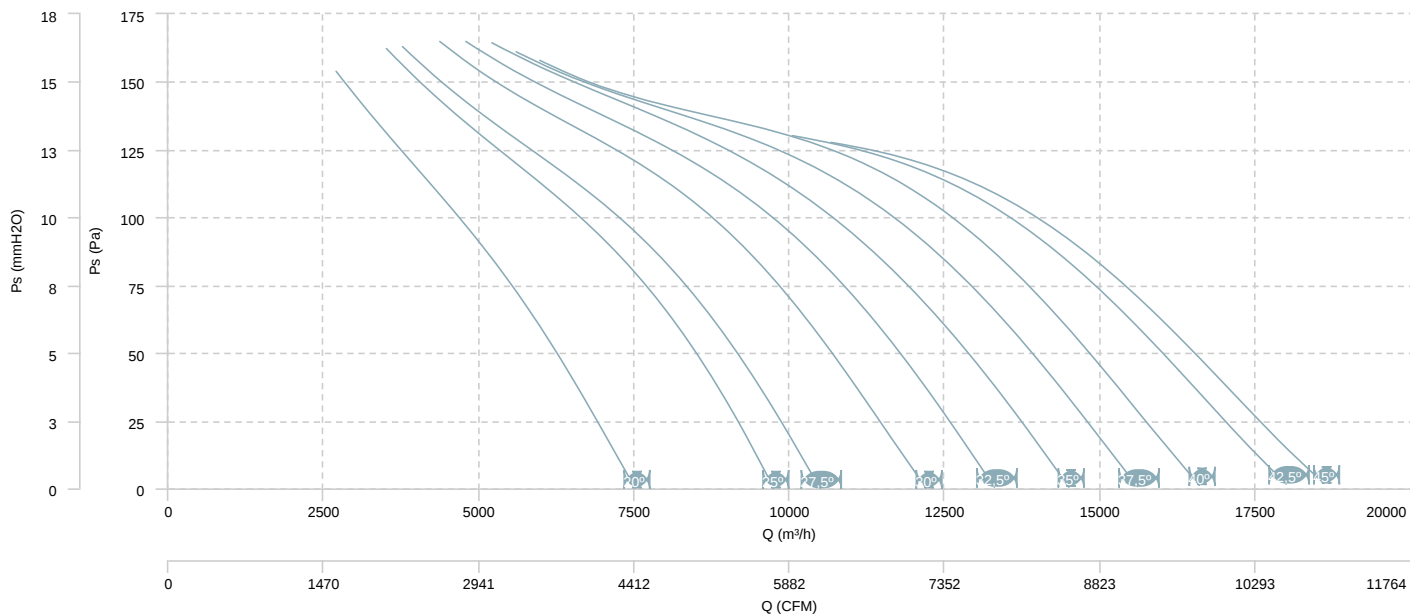


AIR FLOW - MECHANICAL POWER

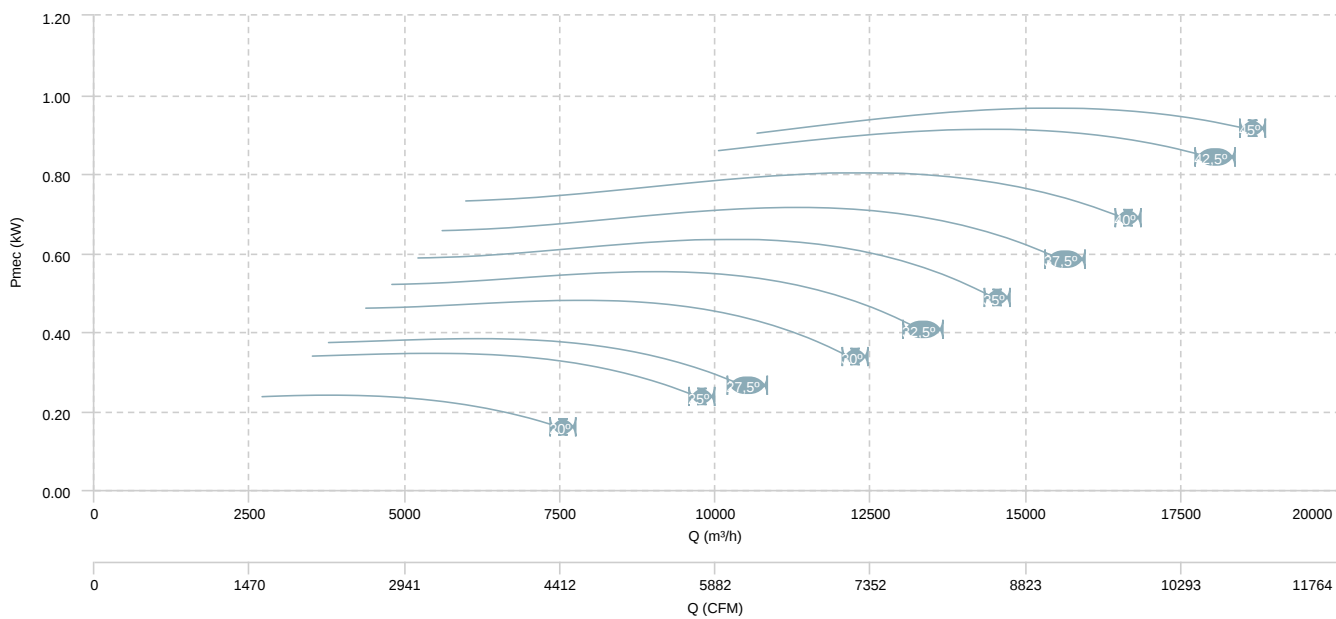


HBF 71 T6 (A2:9) F300

AIR FLOW - PRESSURE

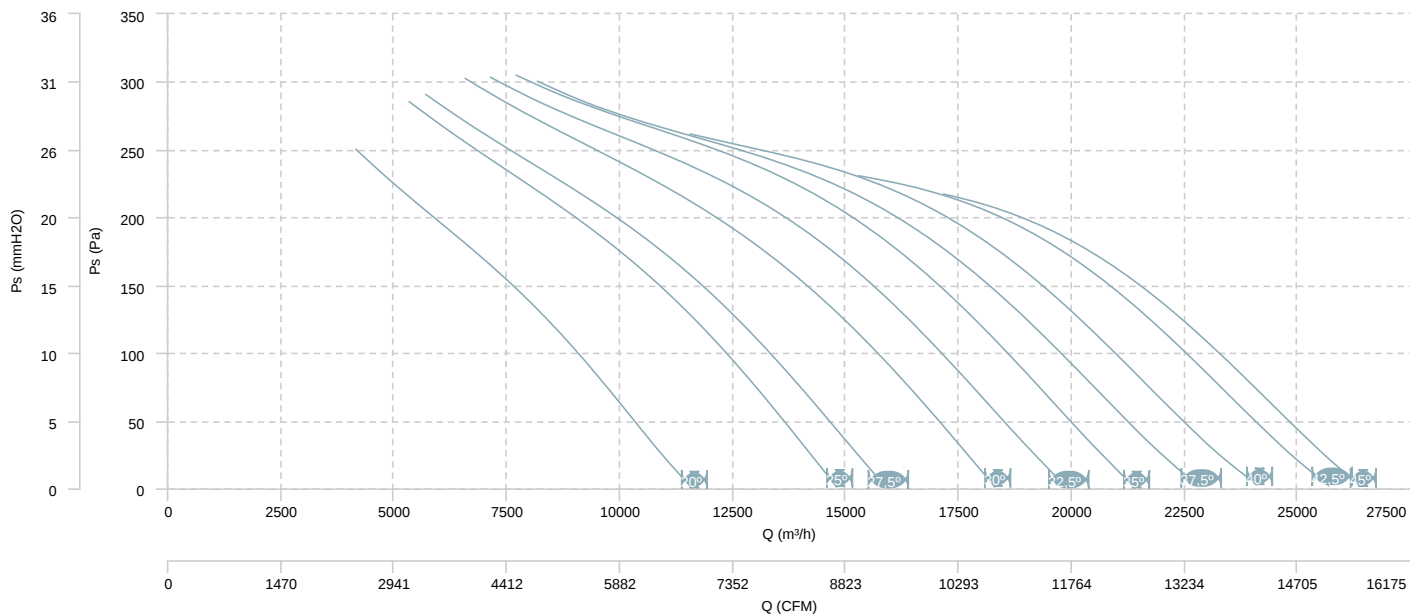


AIR FLOW - MECHANICAL POWER

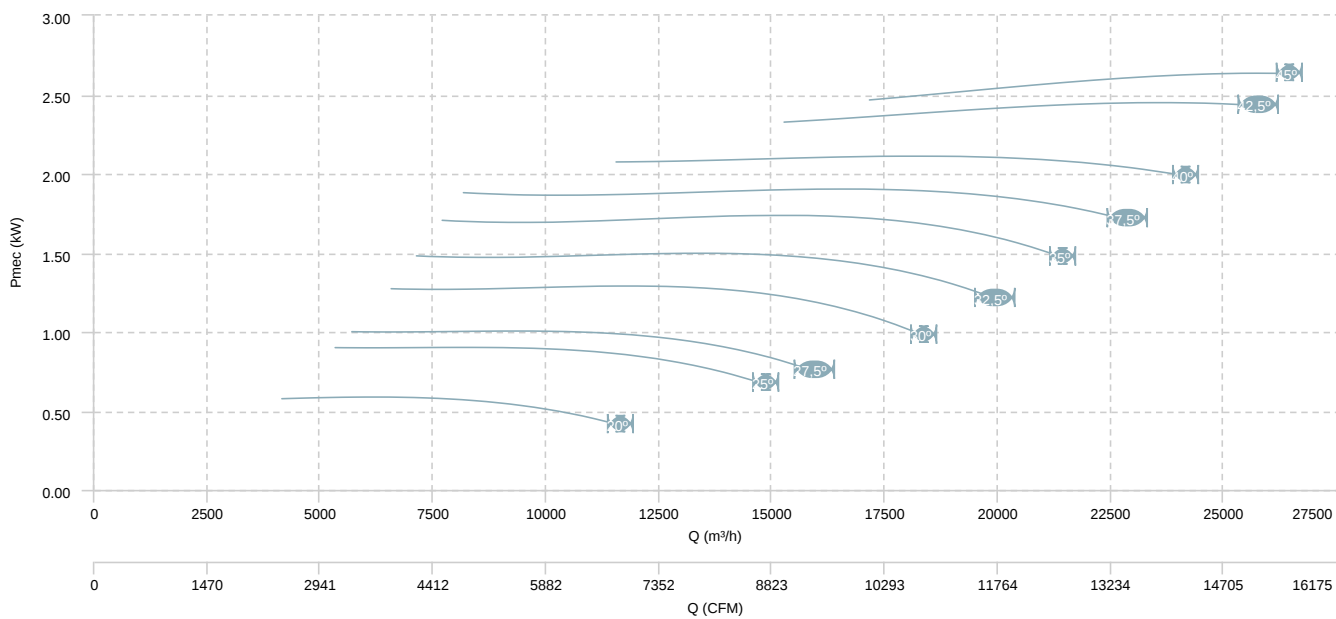


HBF 71 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

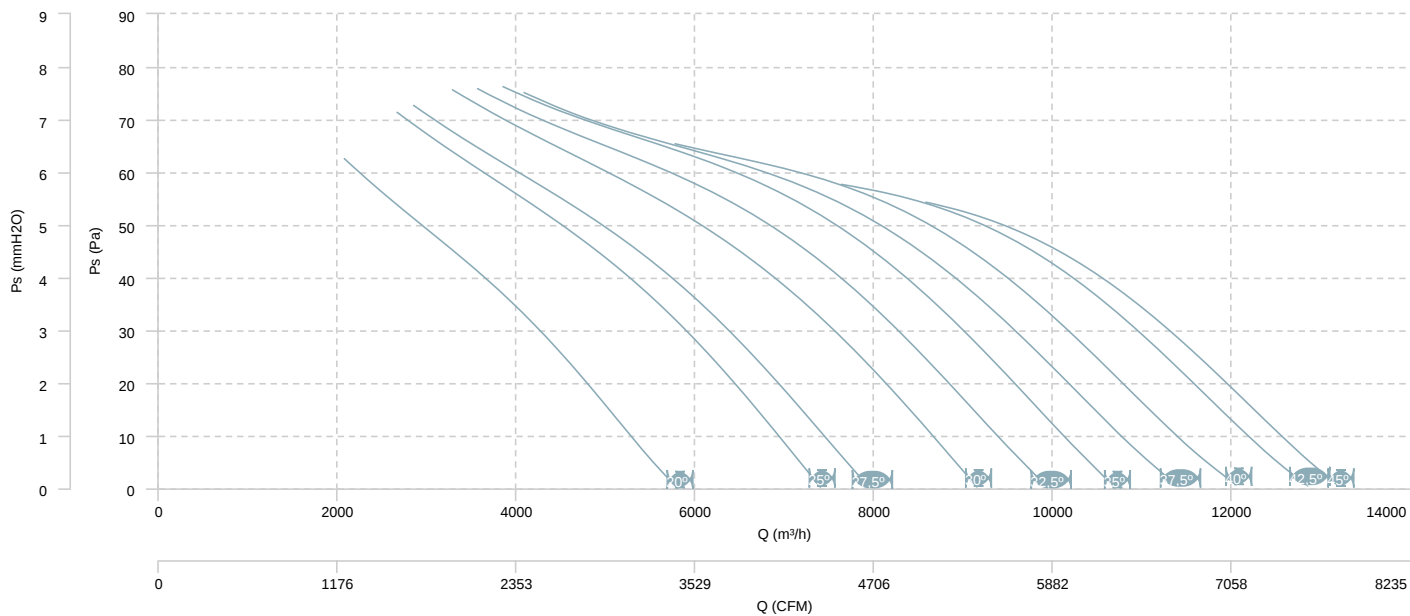


AIR FLOW - MECHANICAL POWER (4 poles)

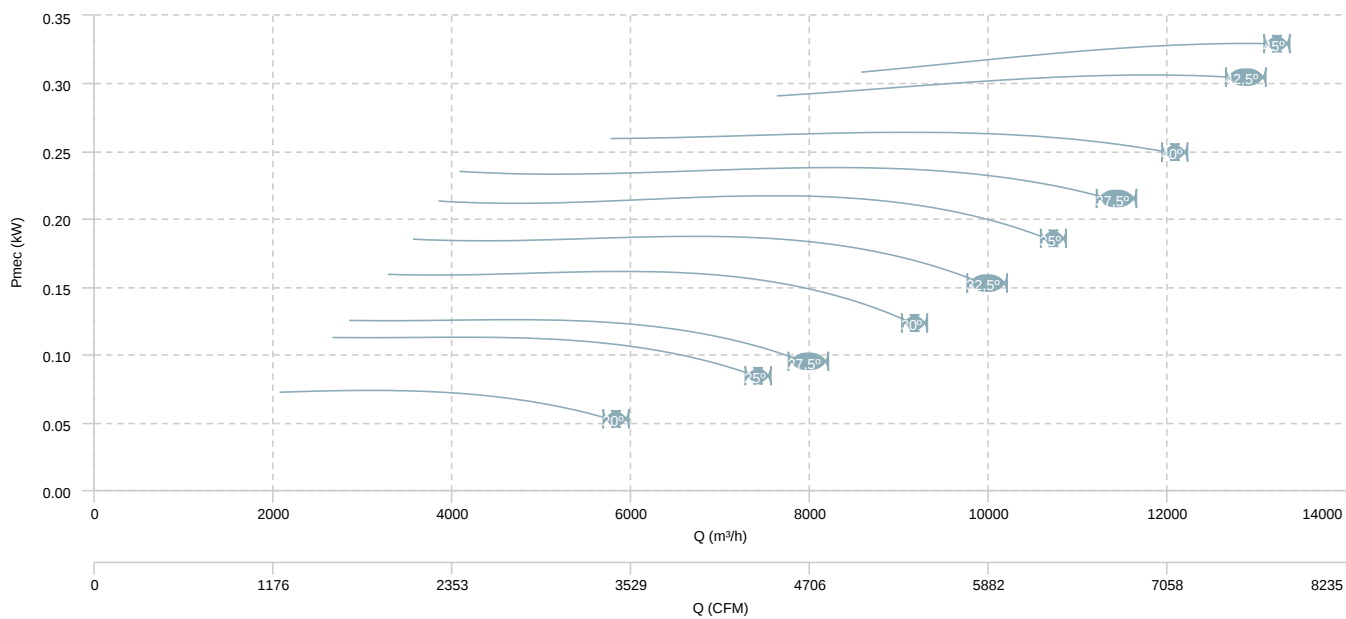


HBF 71 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

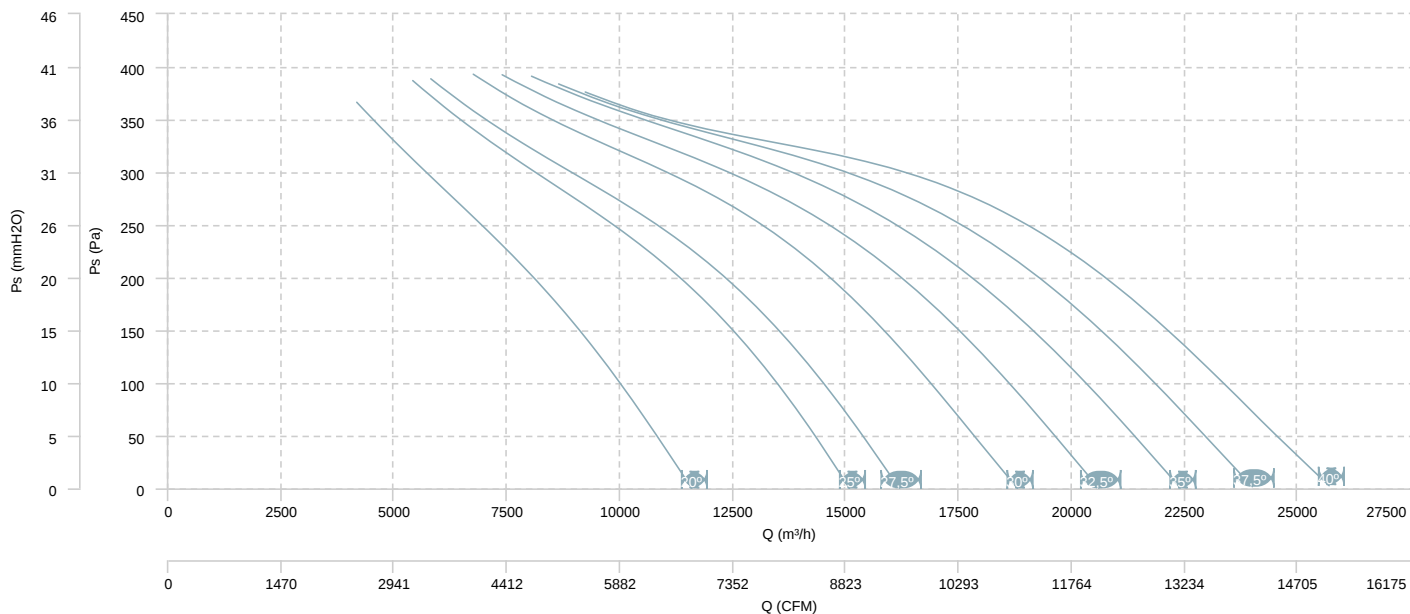


AIR FLOW - MECHANICAL POWER (8 poles)

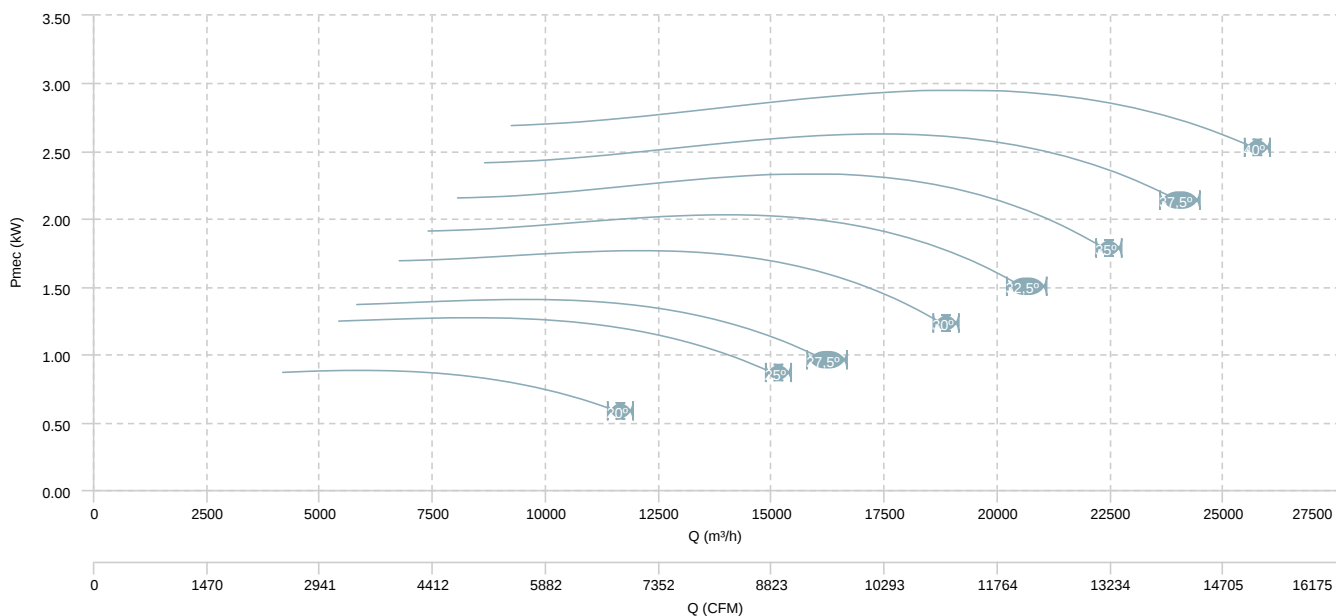


HBF 71 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

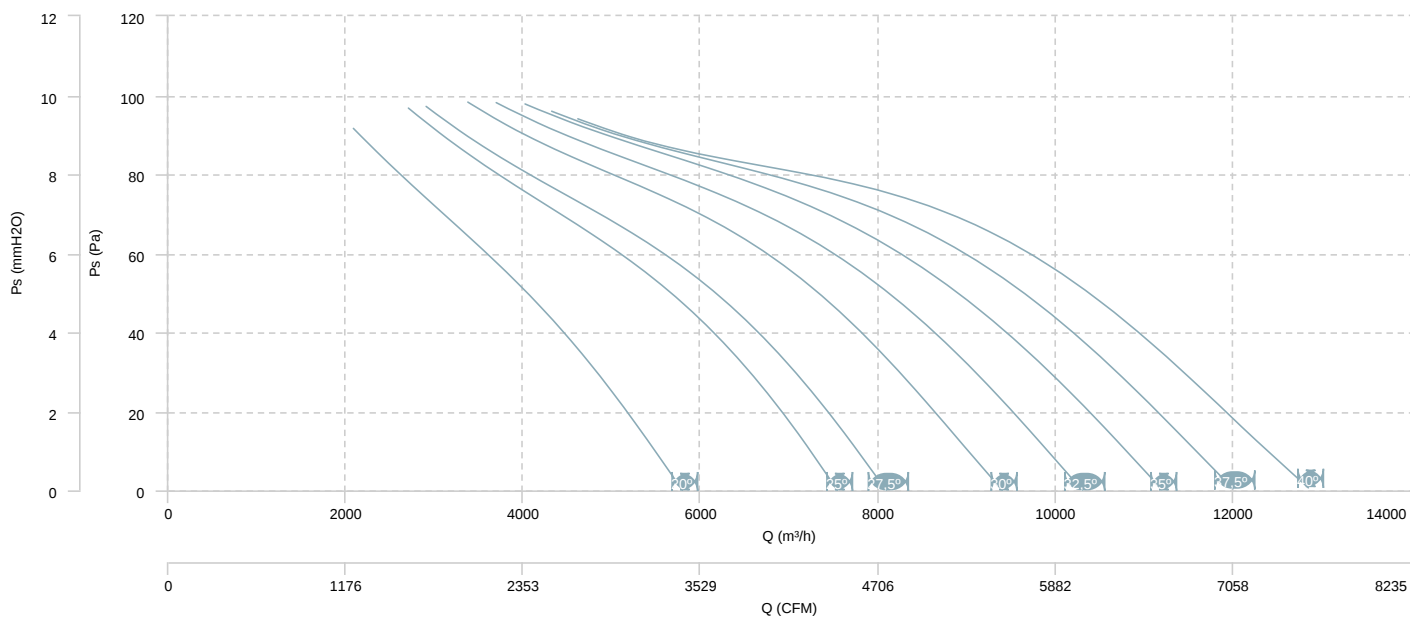


AIR FLOW - MECHANICAL POWER (4 poles)

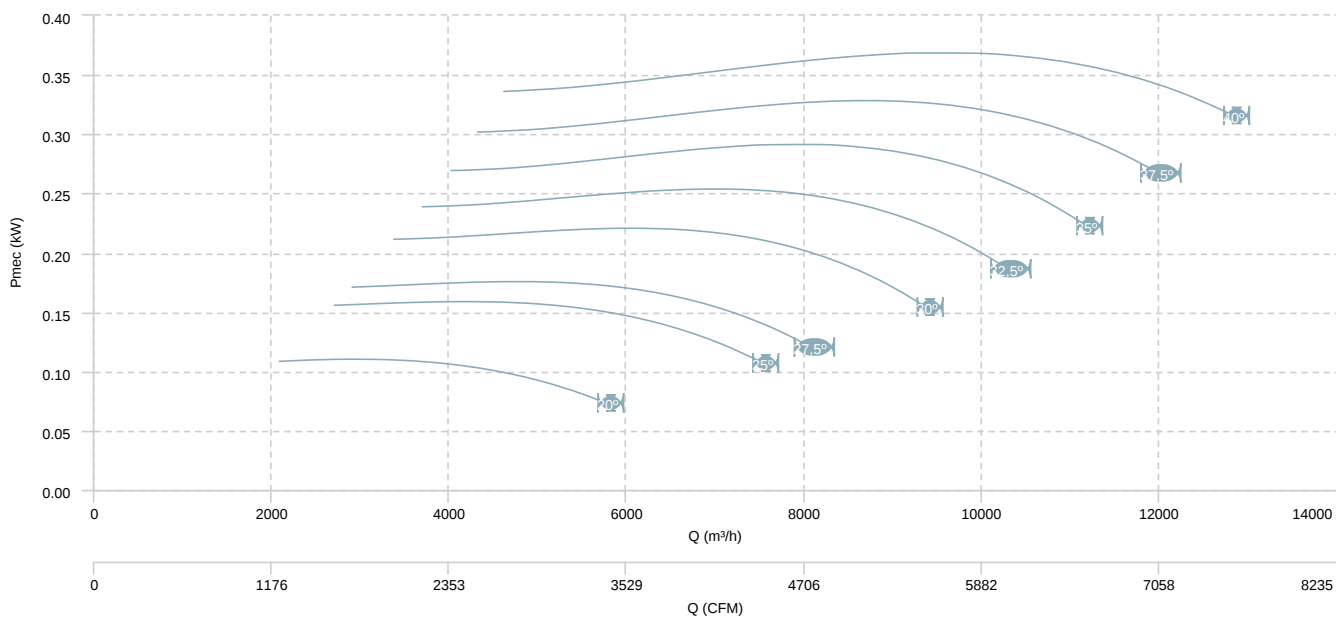


HBF 71 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

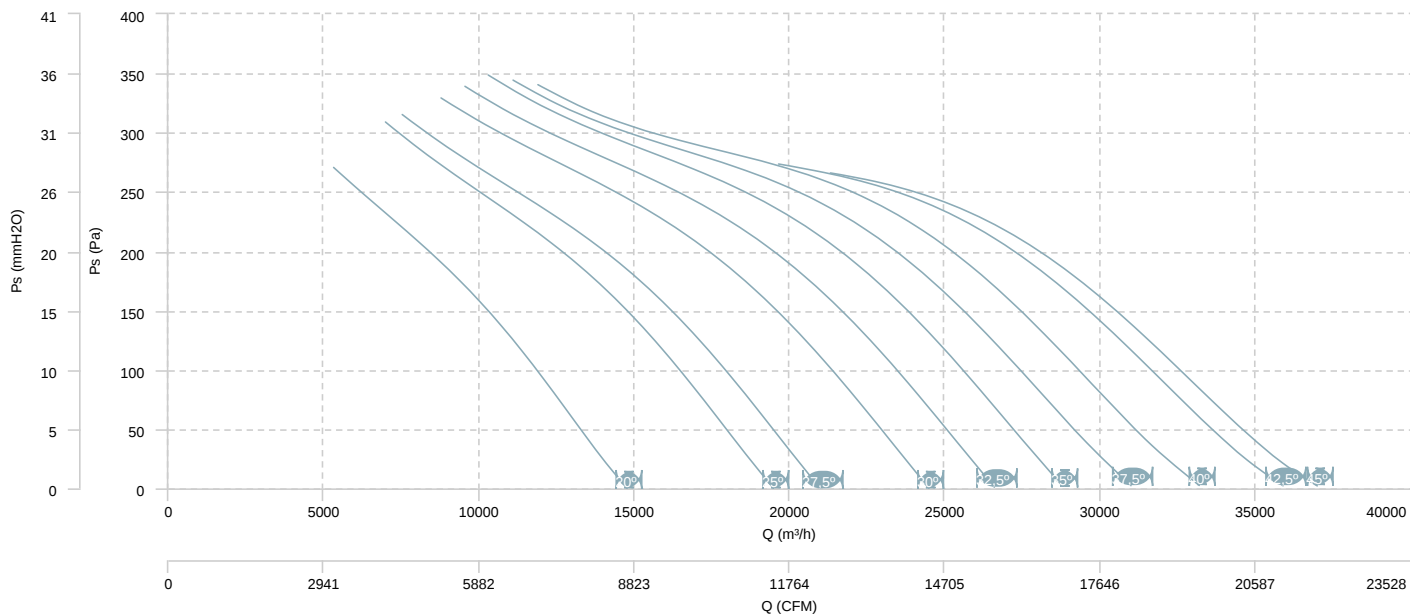


AIR FLOW - MECHANICAL POWER (8 poles)

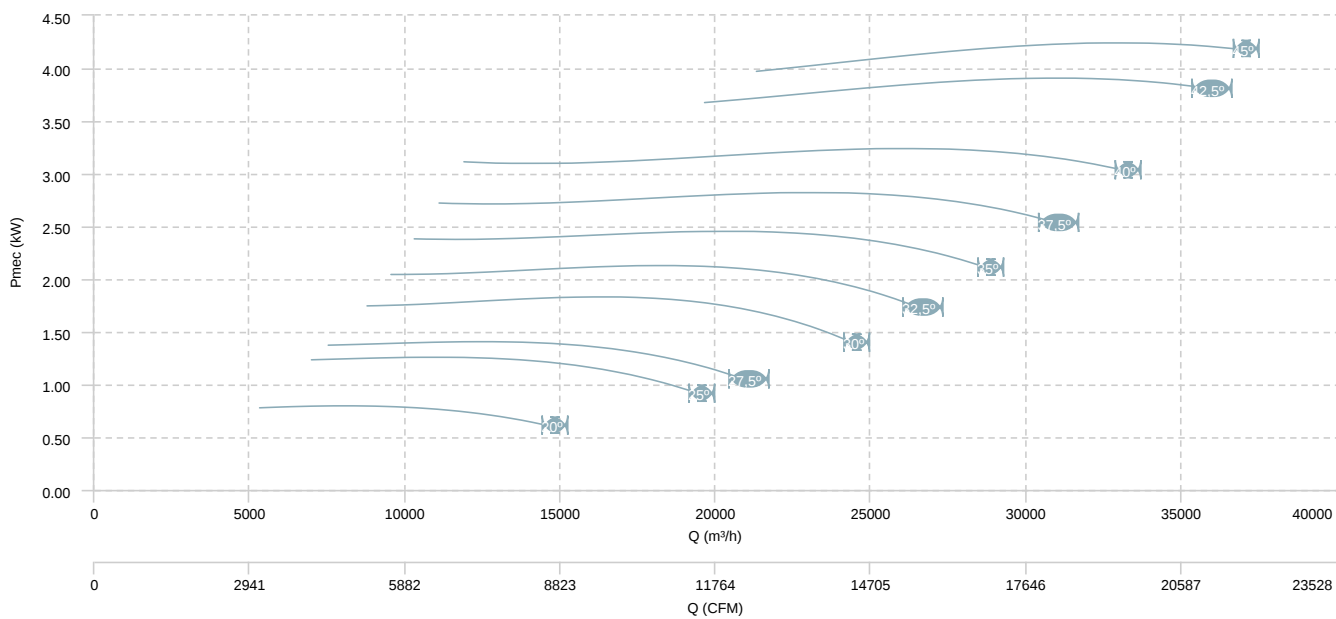


HBF 80 T4 (A2:6) F300

AIR FLOW - PRESSURE

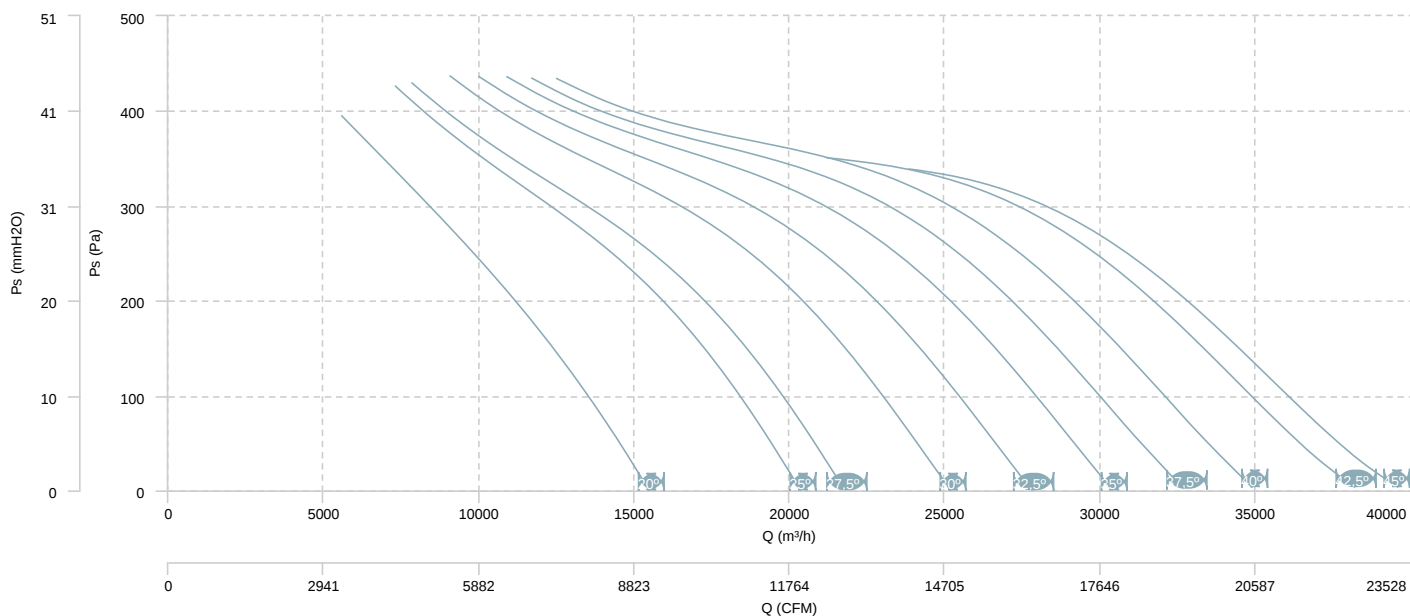


AIR FLOW - MECHANICAL POWER

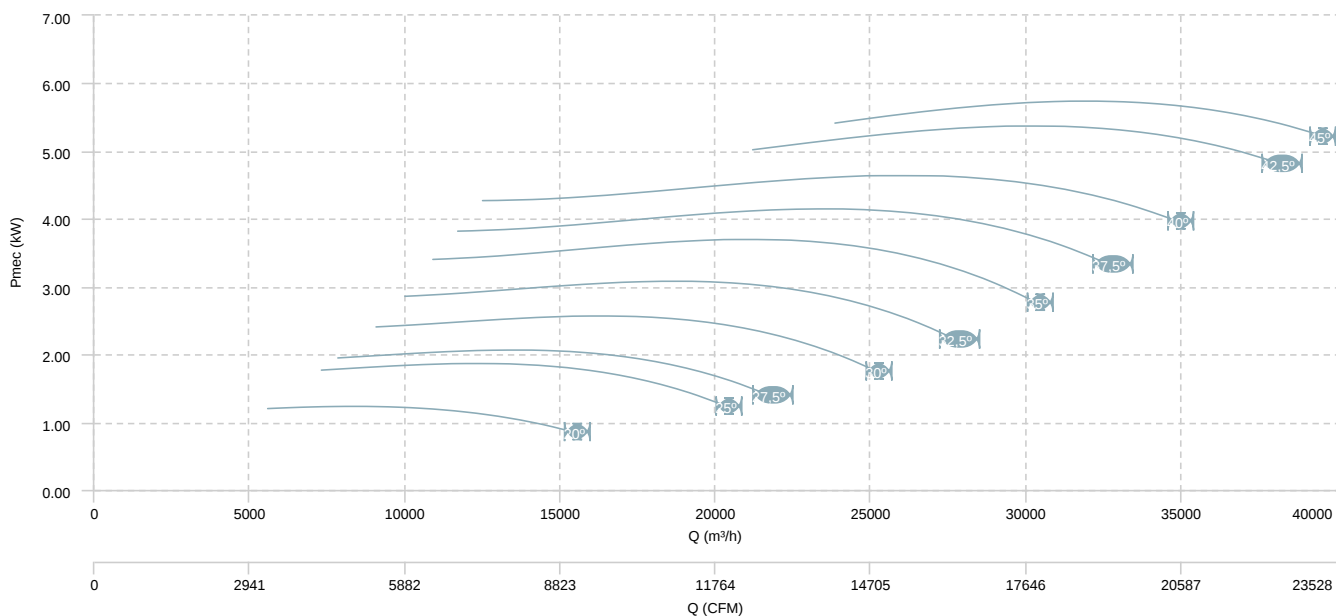


HBF 80 T4 (A2:9) F300

AIR FLOW - PRESSURE

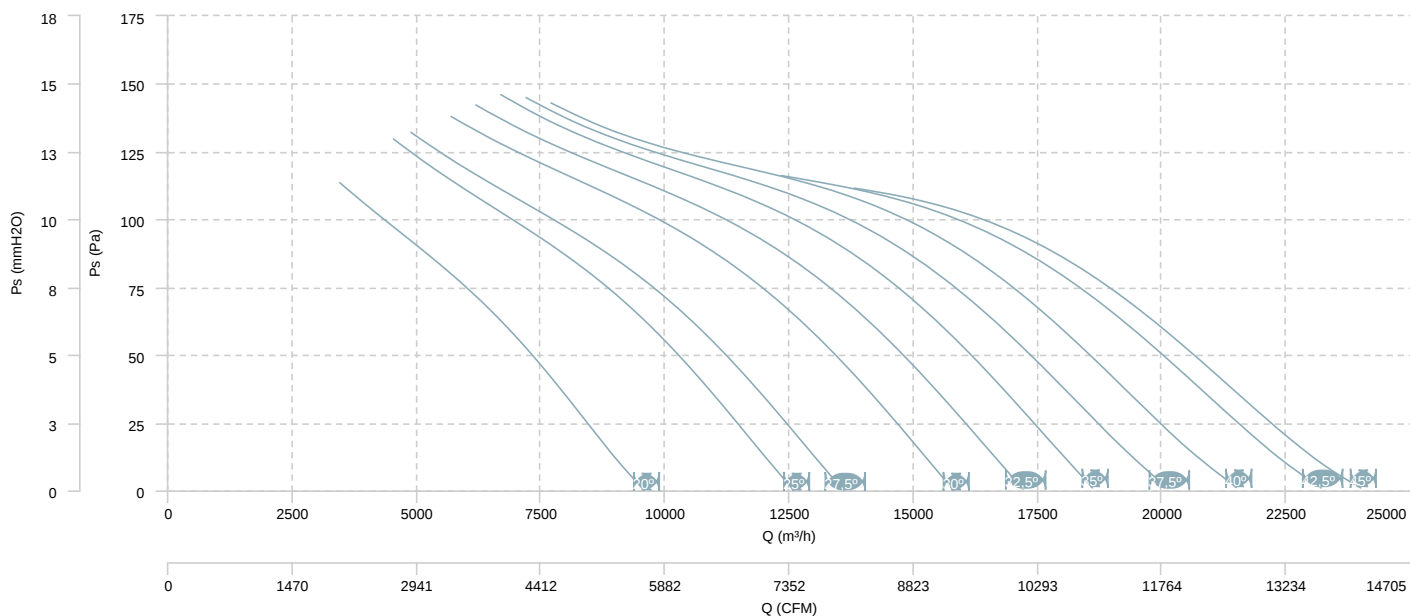


AIR FLOW - MECHANICAL POWER

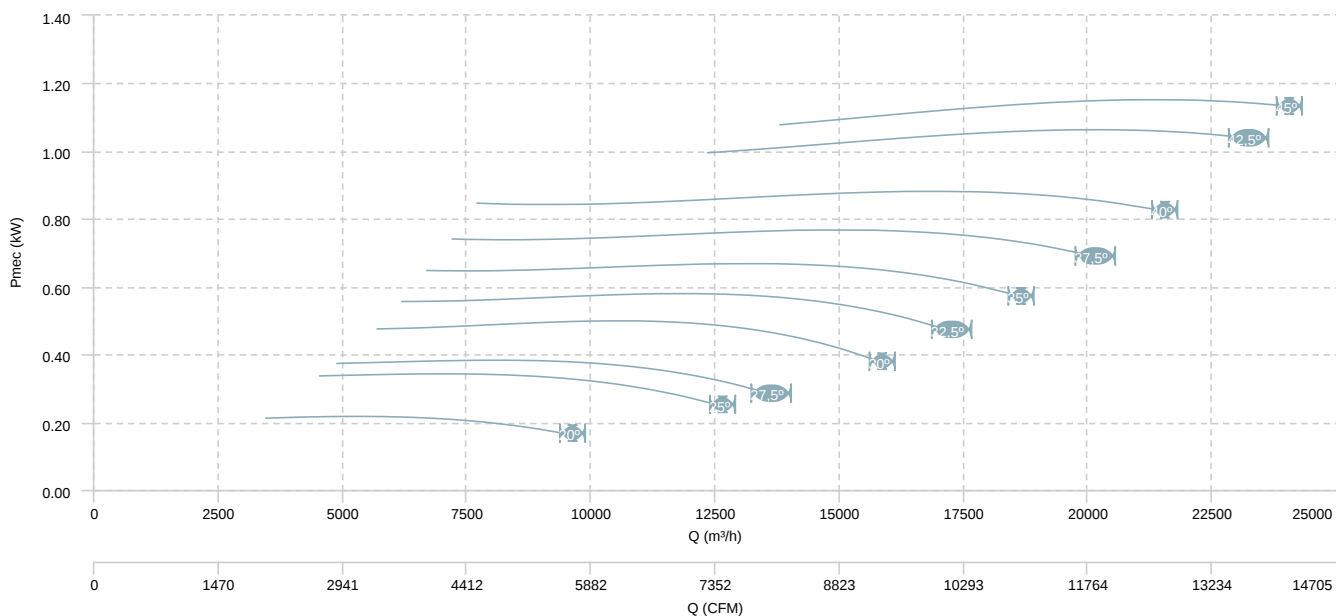


HBF 80 T6 (A2:6) F300

AIR FLOW - PRESSURE

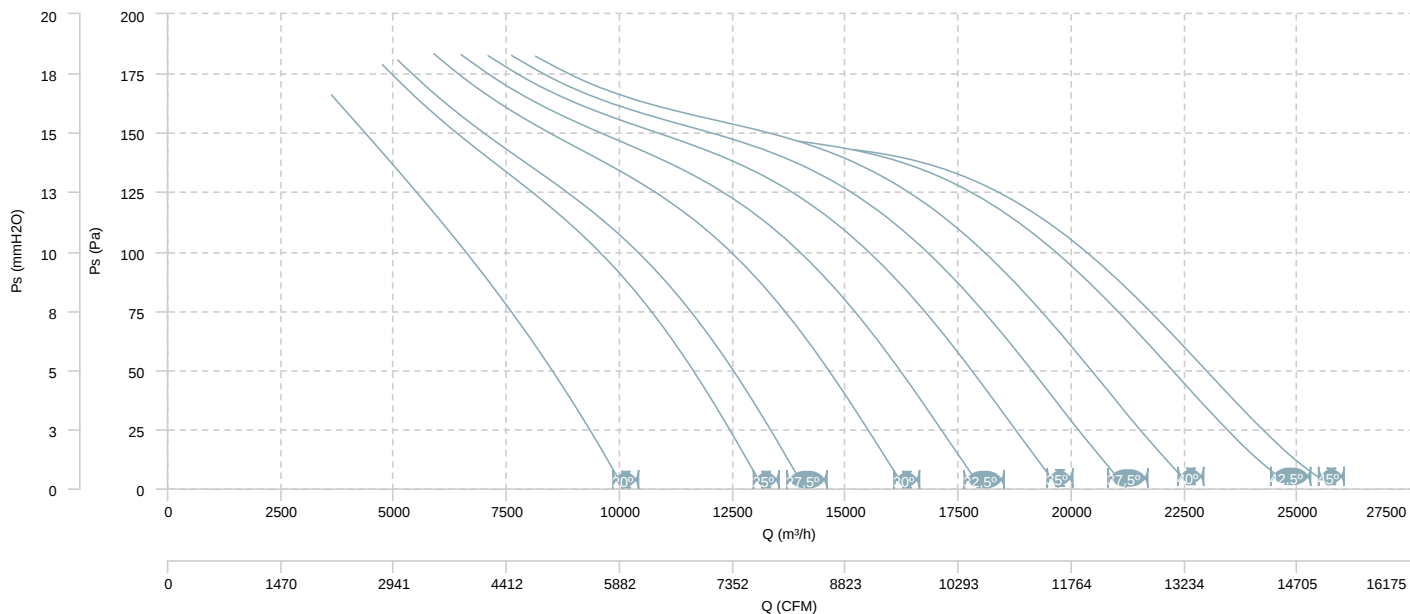


AIR FLOW - MECHANICAL POWER

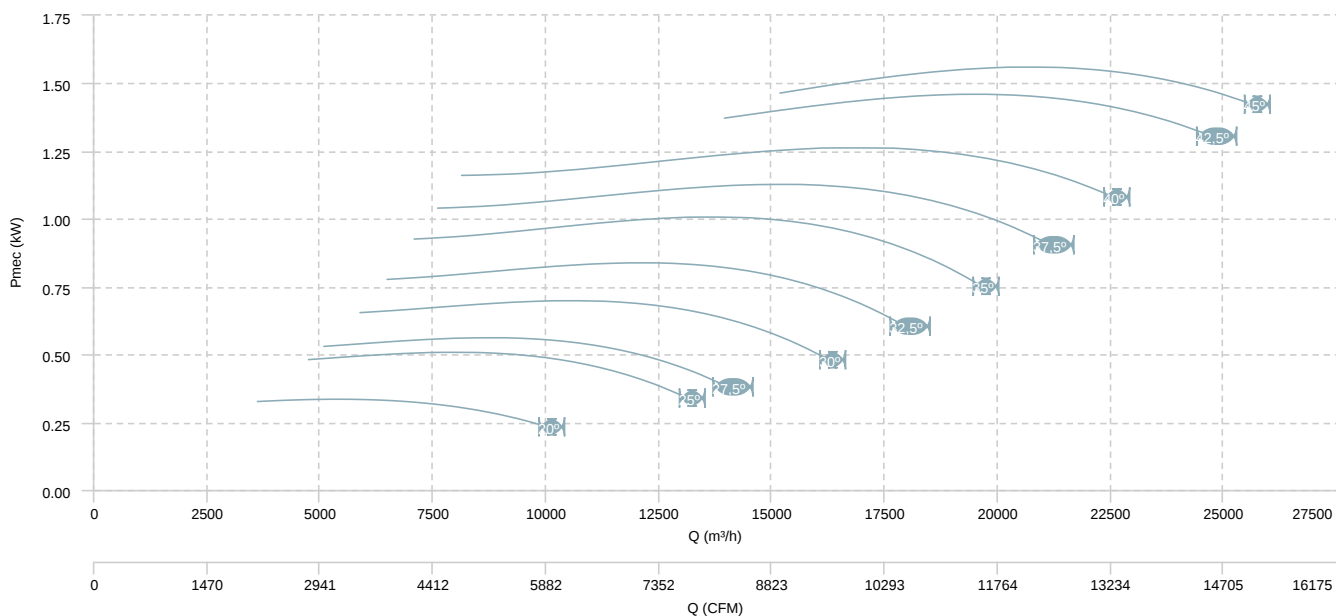


HBF 80 T6 (A2:9) F300

AIR FLOW - PRESSURE

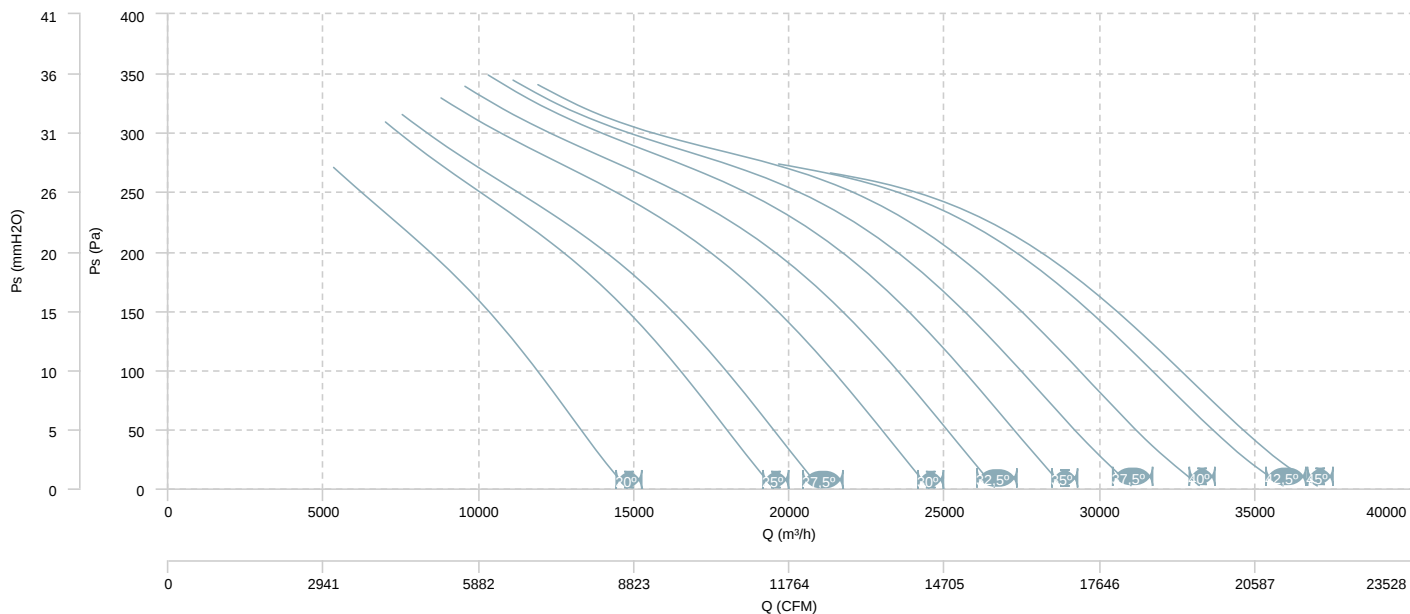


AIR FLOW - MECHANICAL POWER

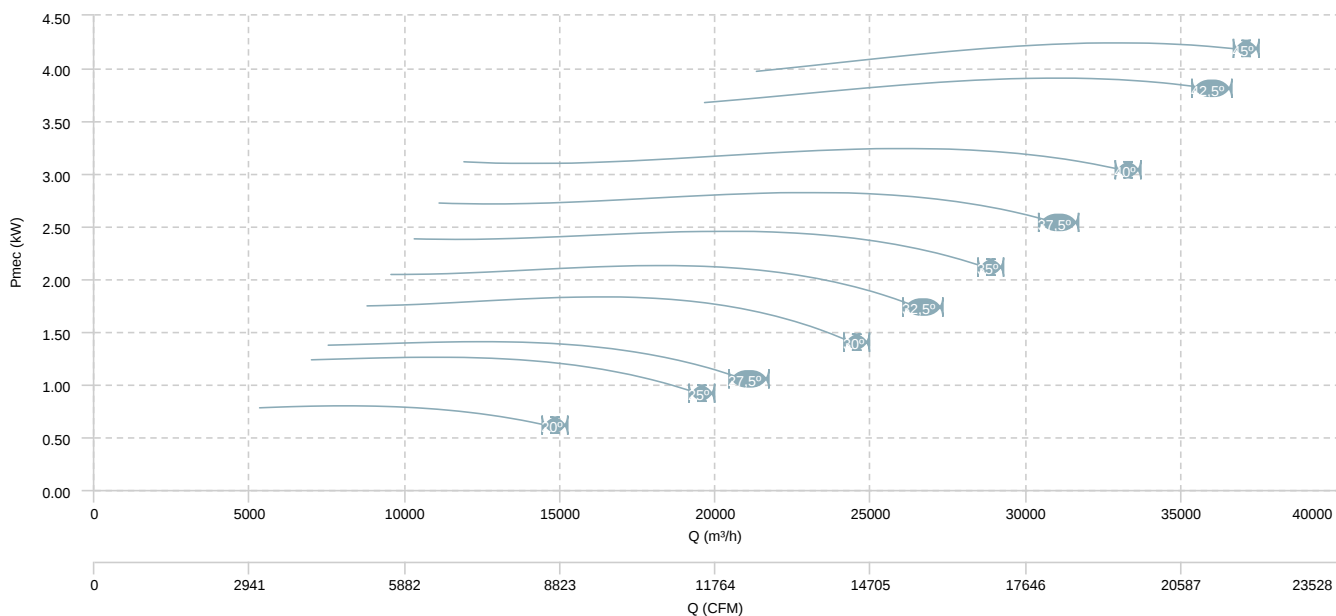


HBF 80 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (4 poles)

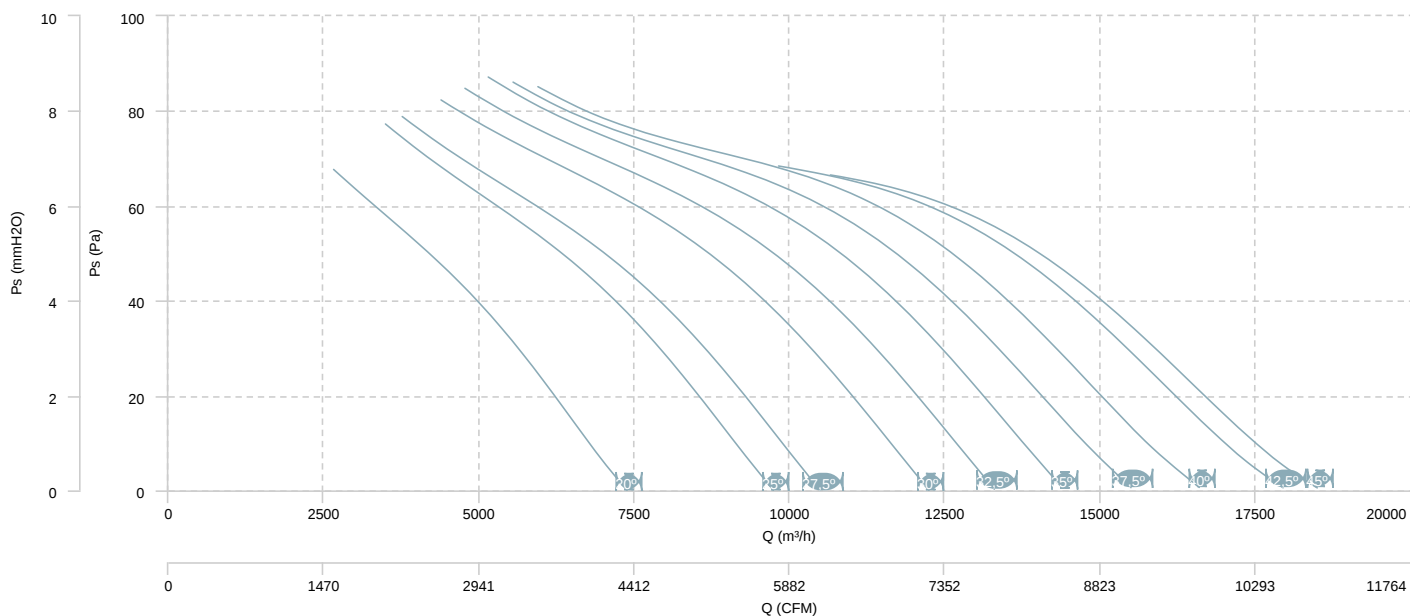


AIR FLOW - MECHANICAL POWER (4 poles)

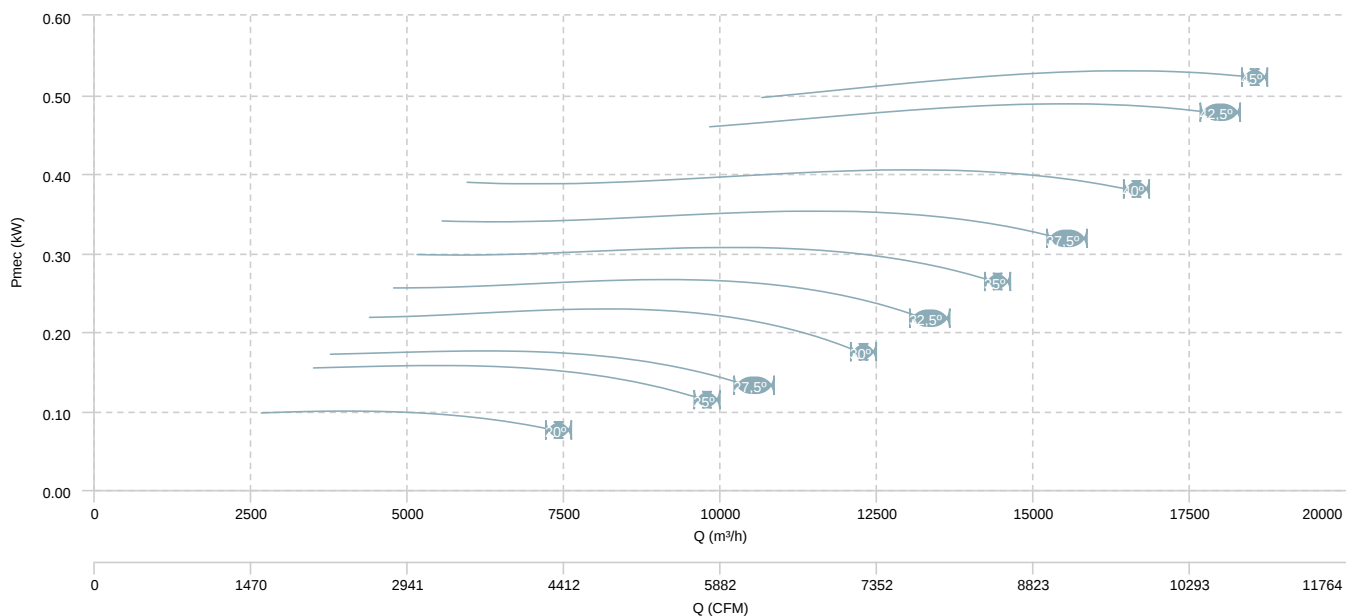


HBF 80 T4/T8 (A2:6) F300

AIR FLOW - PRESSURE (8 poles)

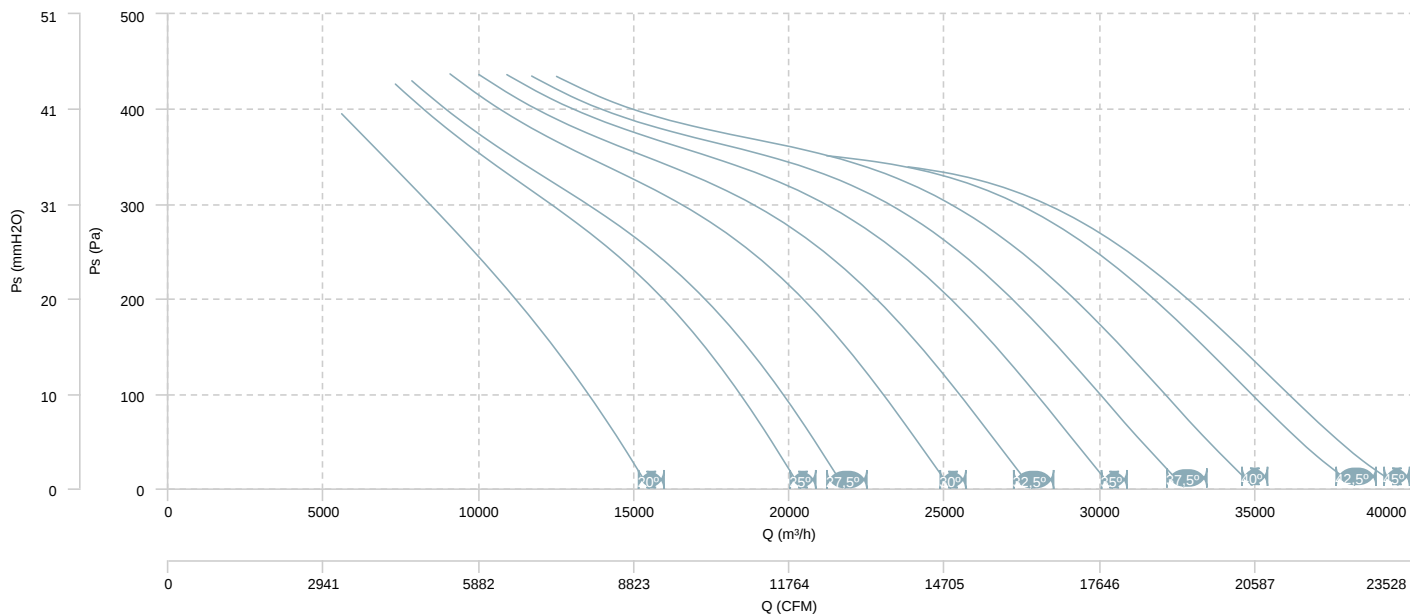


AIR FLOW - MECHANICAL POWER (8 poles)

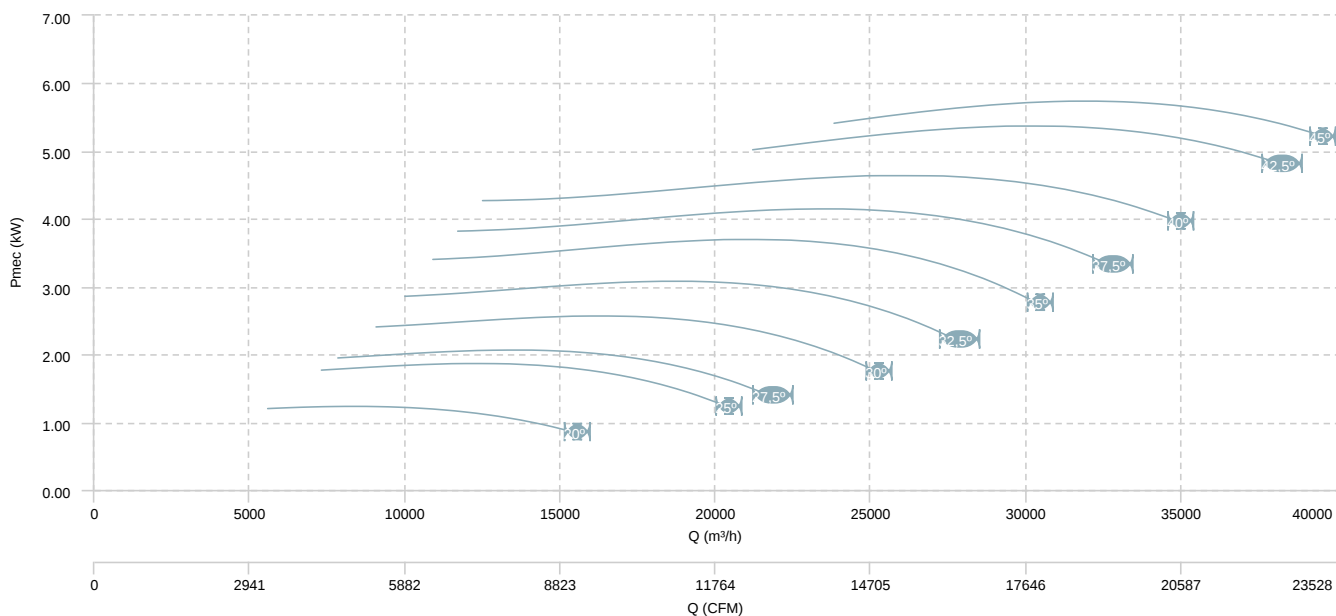


HBF 80 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (4 poles)

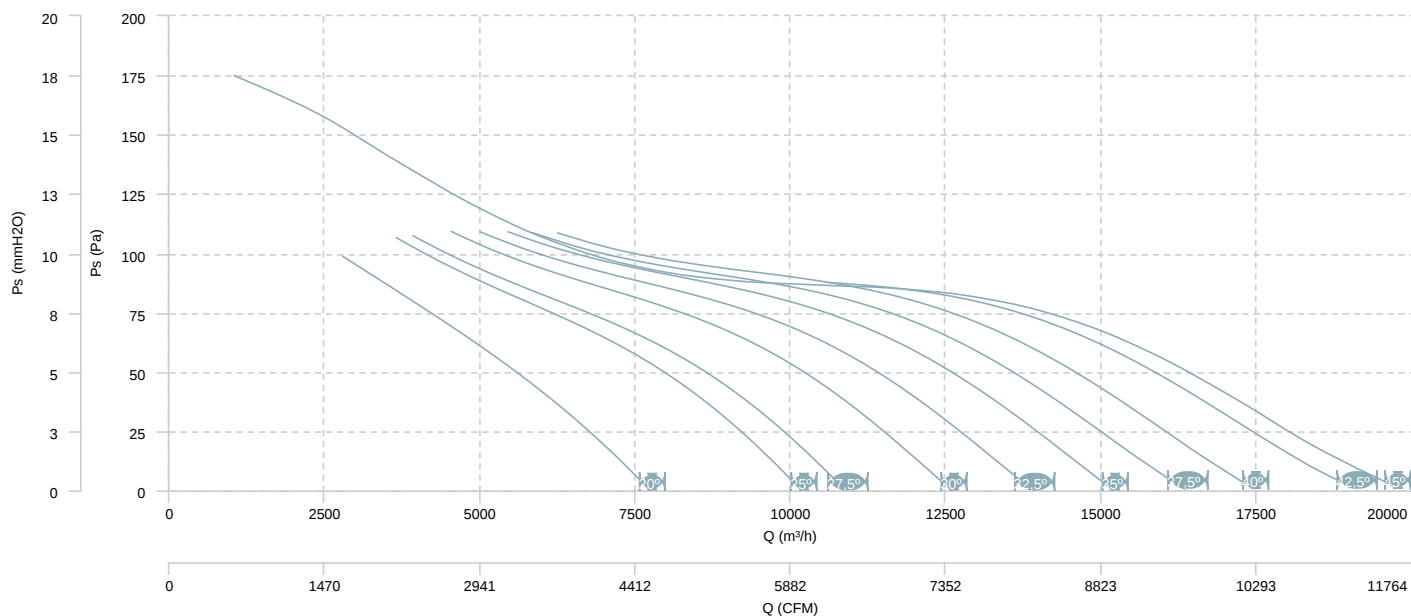


AIR FLOW - MECHANICAL POWER (4 poles)

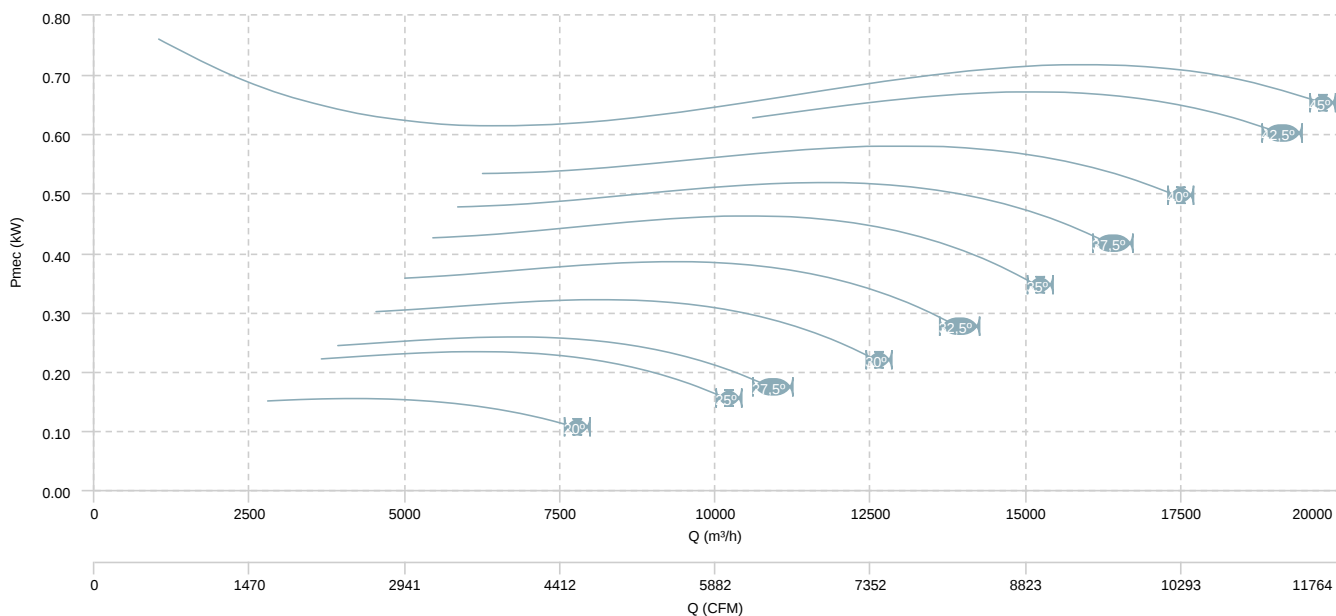


HBF 80 T4/T8 (A2:9) F300

AIR FLOW - PRESSURE (8 poles)

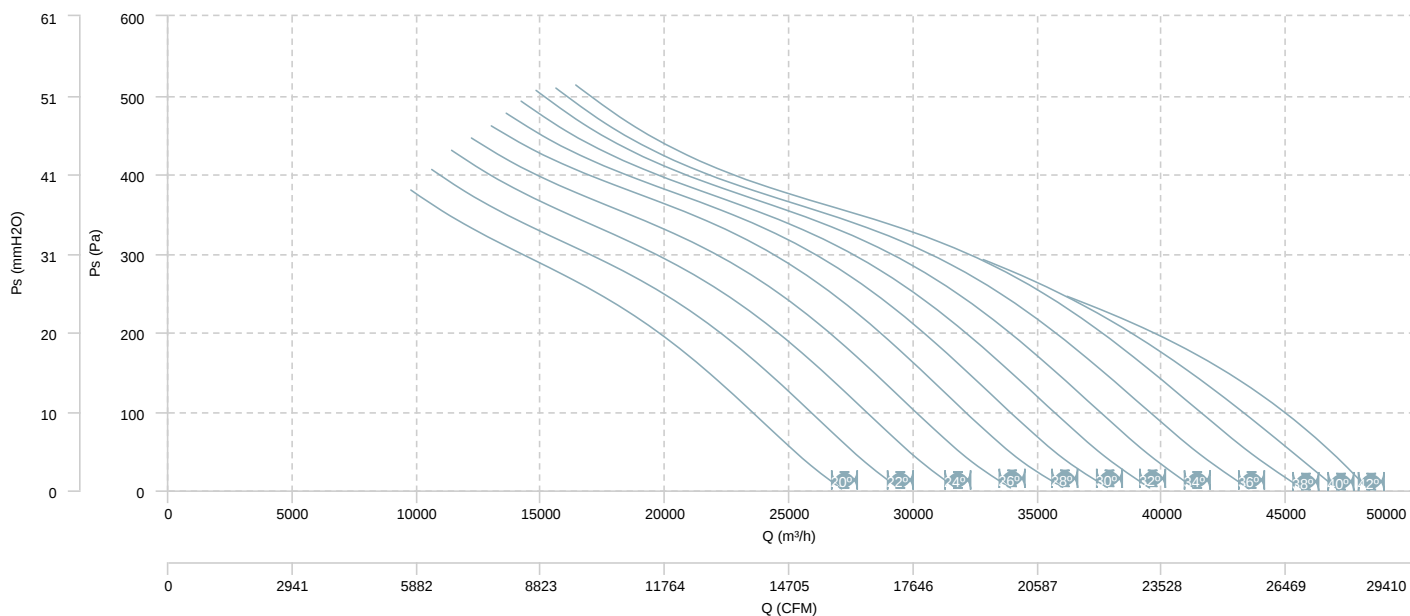


AIR FLOW - MECHANICAL POWER (8 poles)

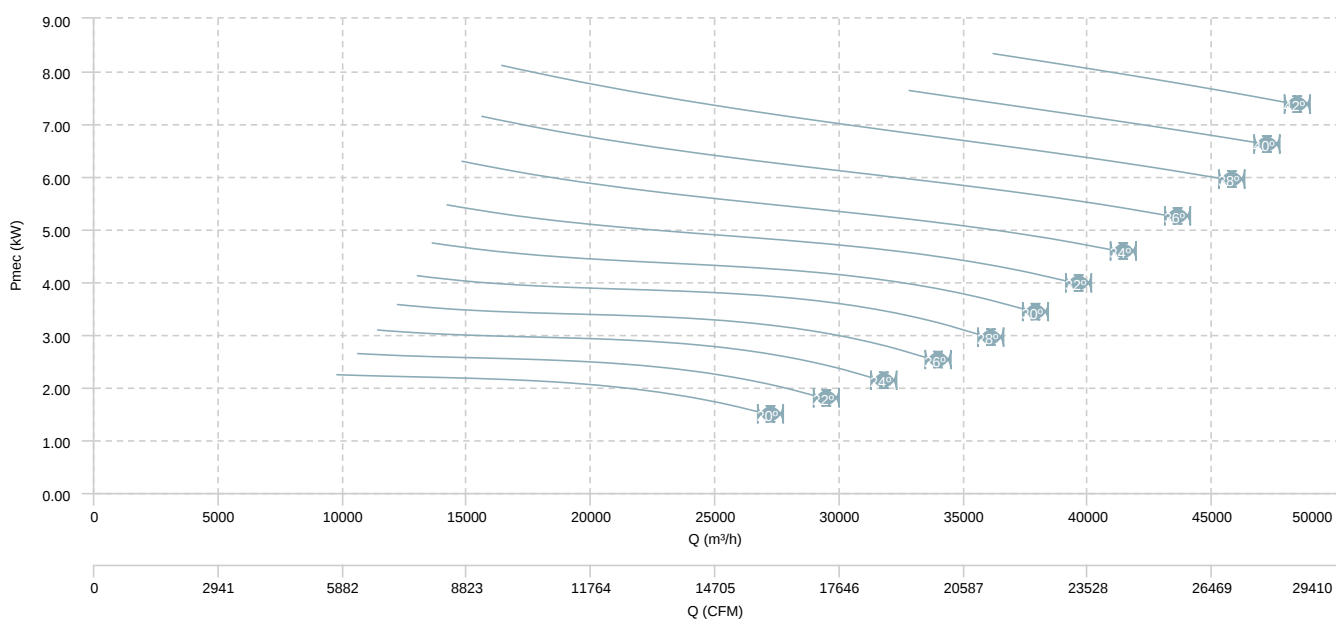


HBF 90 T4 (A6:3) F300

AIR FLOW - PRESSURE

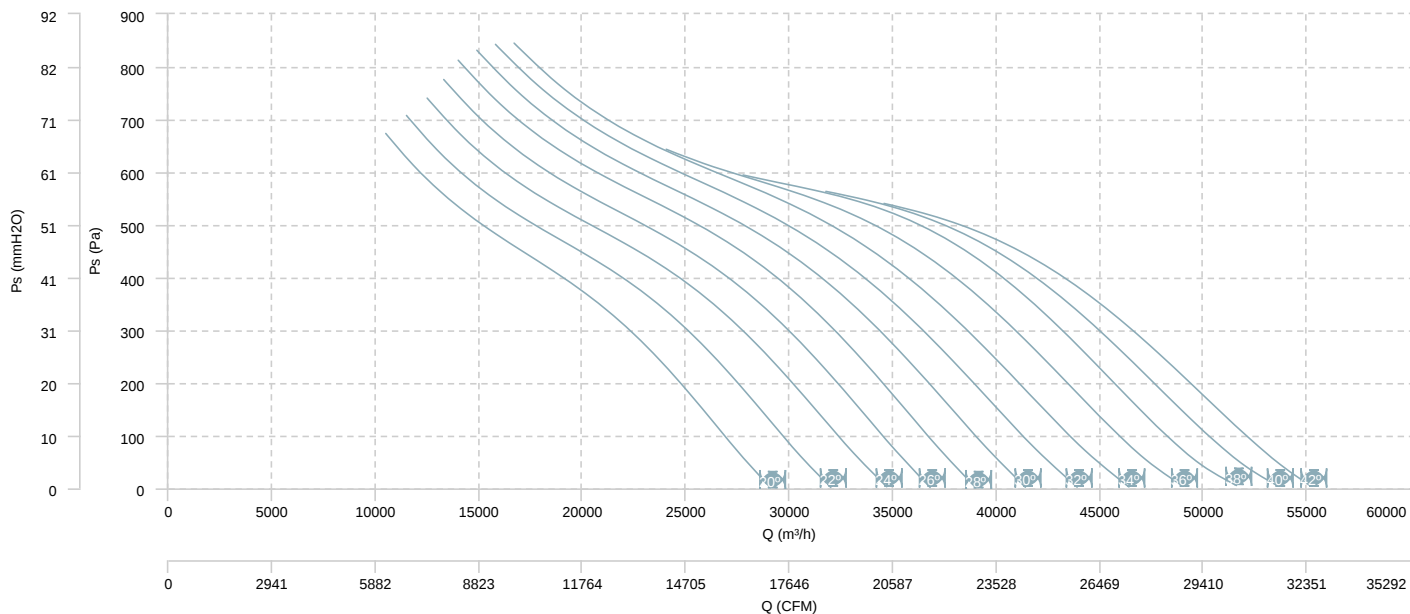


AIR FLOW - MECHANICAL POWER

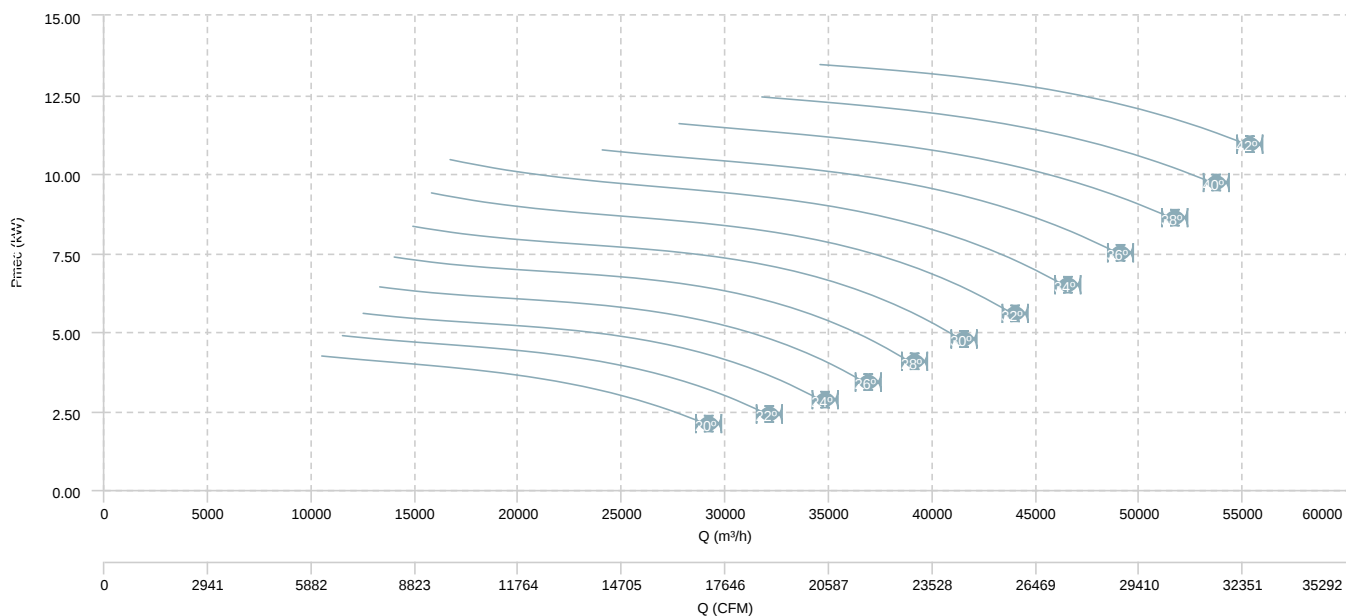


HBF 90 T4 (A6:6) F300

AIR FLOW - PRESSURE

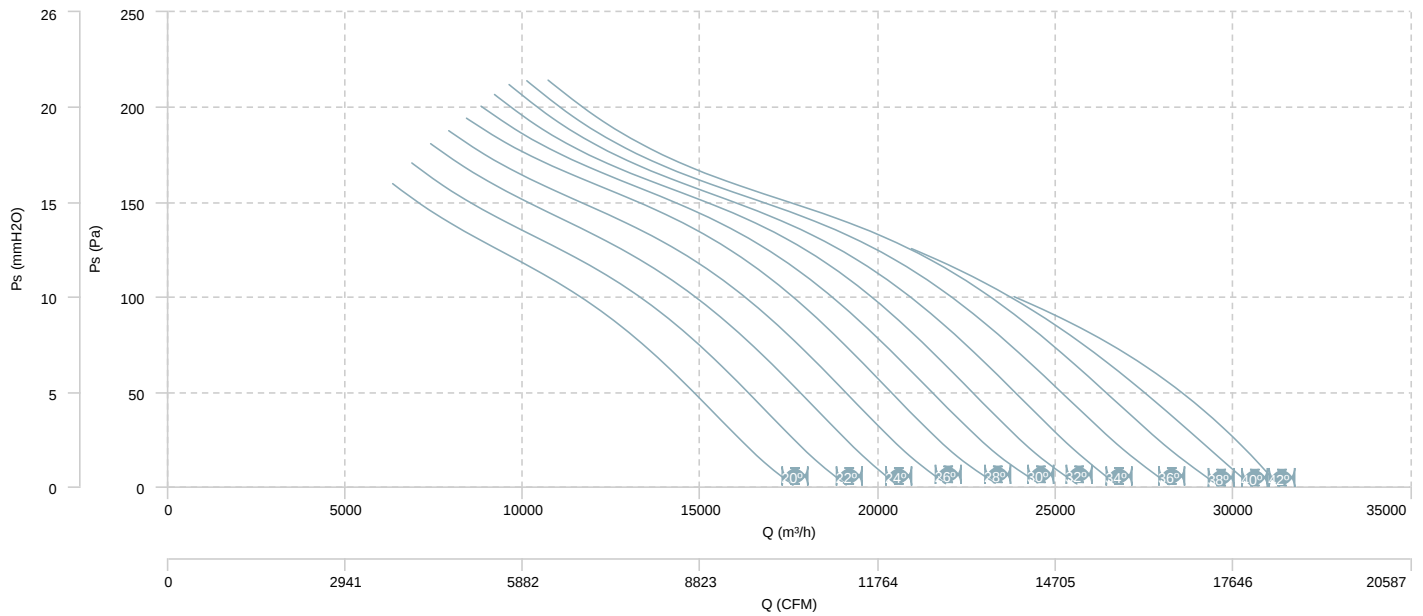


AIR FLOW - MECHANICAL POWER



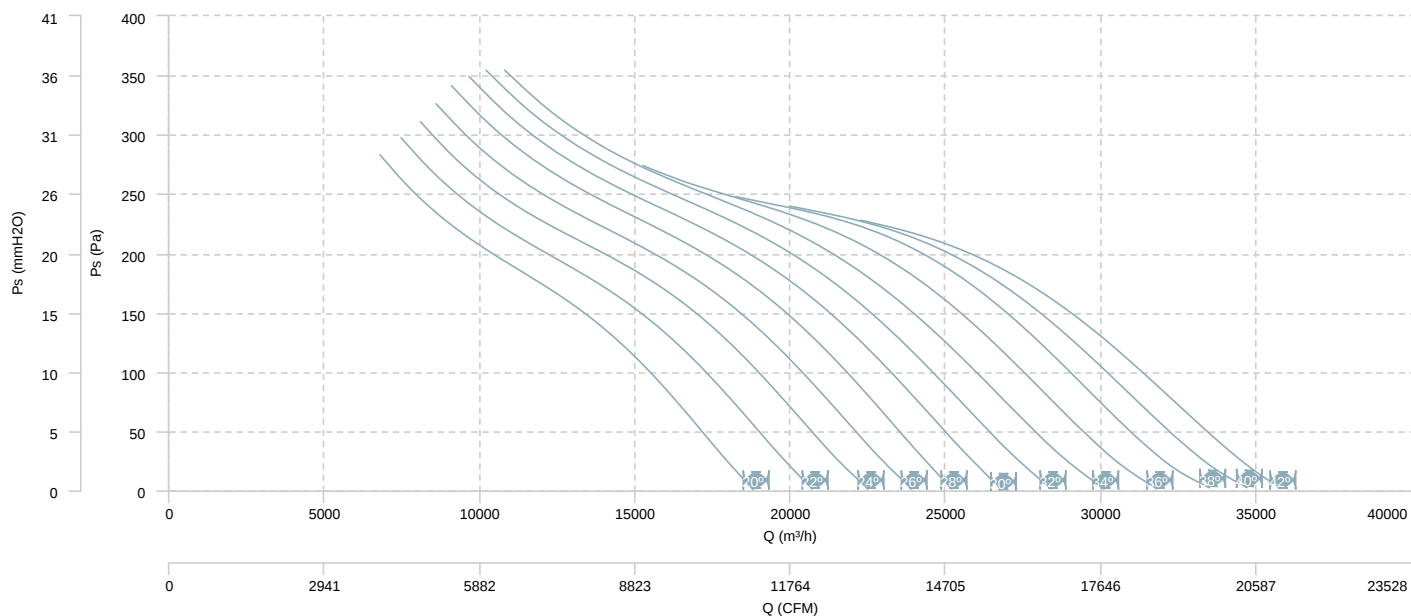
HBF 90 T6 (A6:3) F300

AIR FLOW - PRESSURE



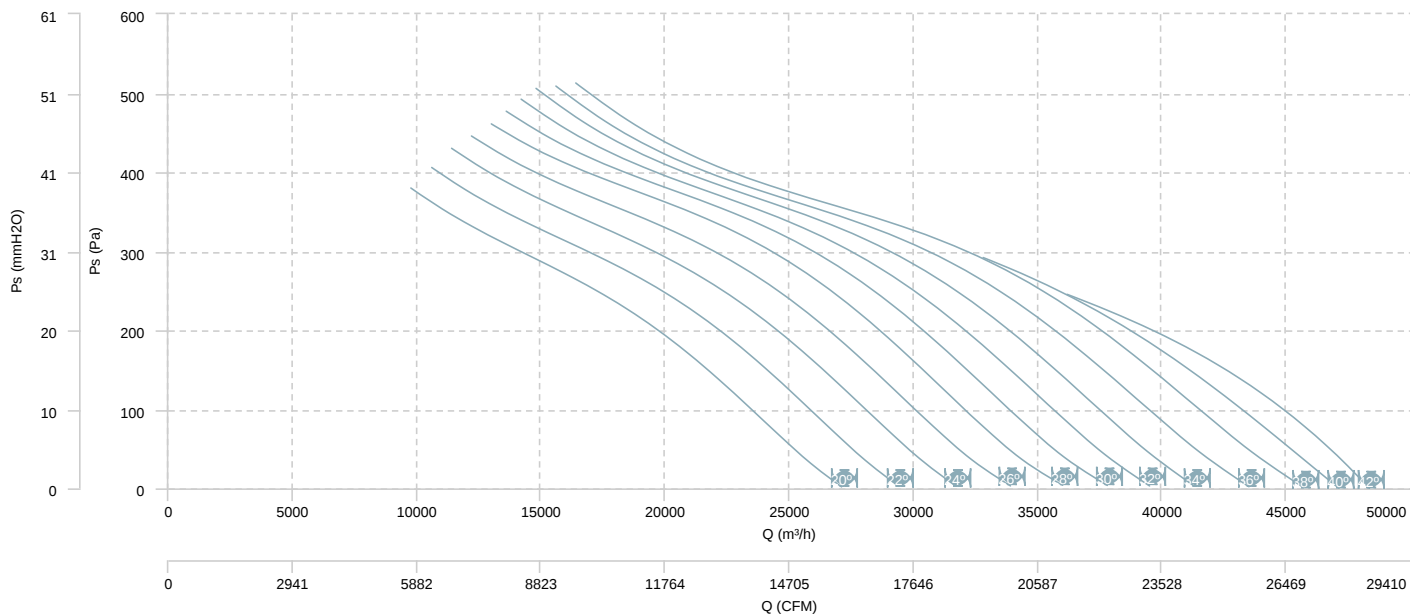
HBF 90 T6 (A6:6) F300

AIR FLOW - PRESSURE

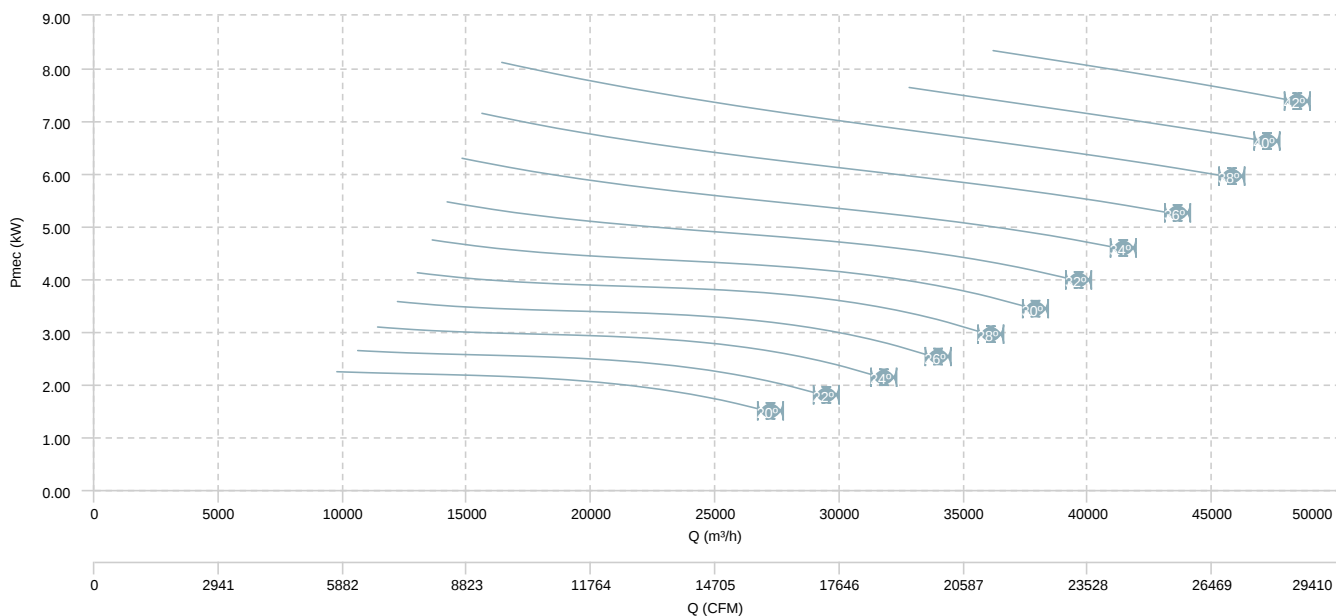


HBF 90 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (4 poles)

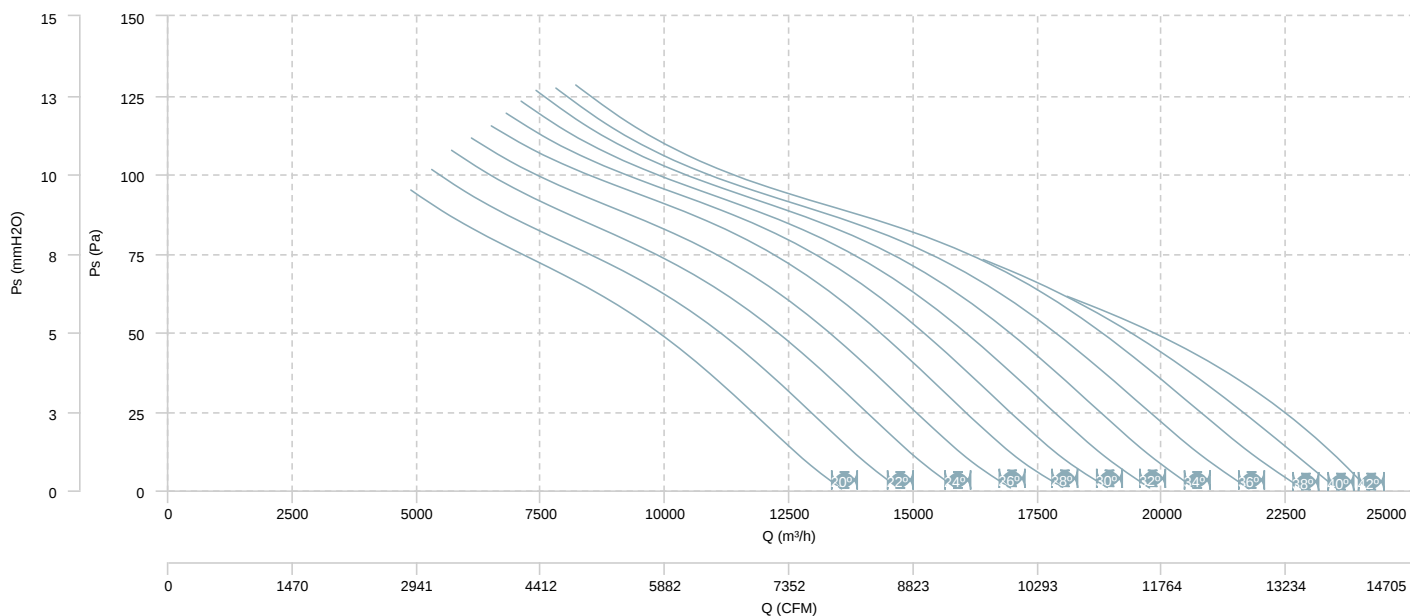


AIR FLOW - MECHANICAL POWER (4 poles)

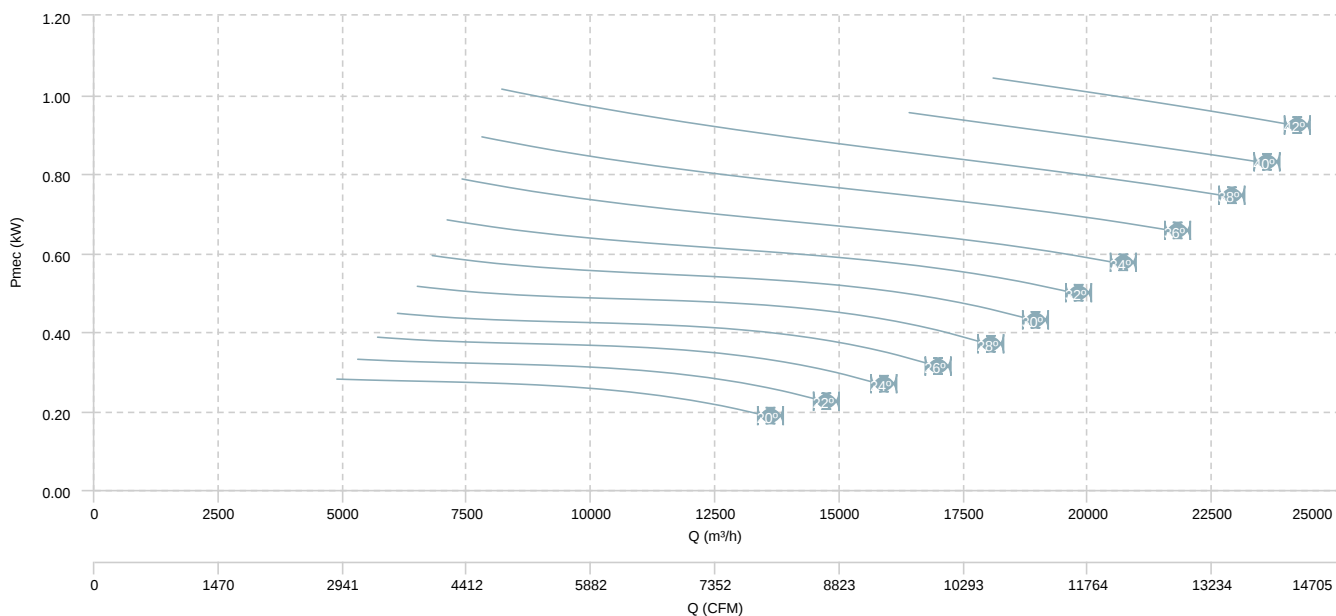


HBF 90 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (8 poles)

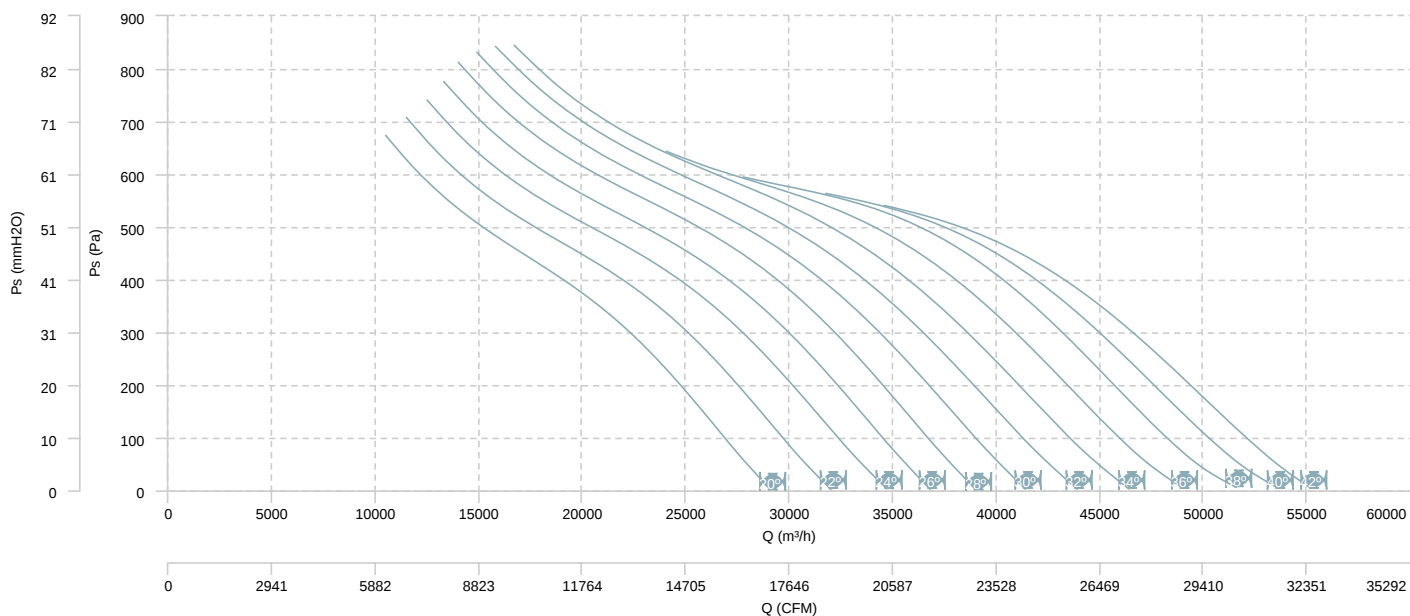


AIR FLOW - MECHANICAL POWER (8 poles)

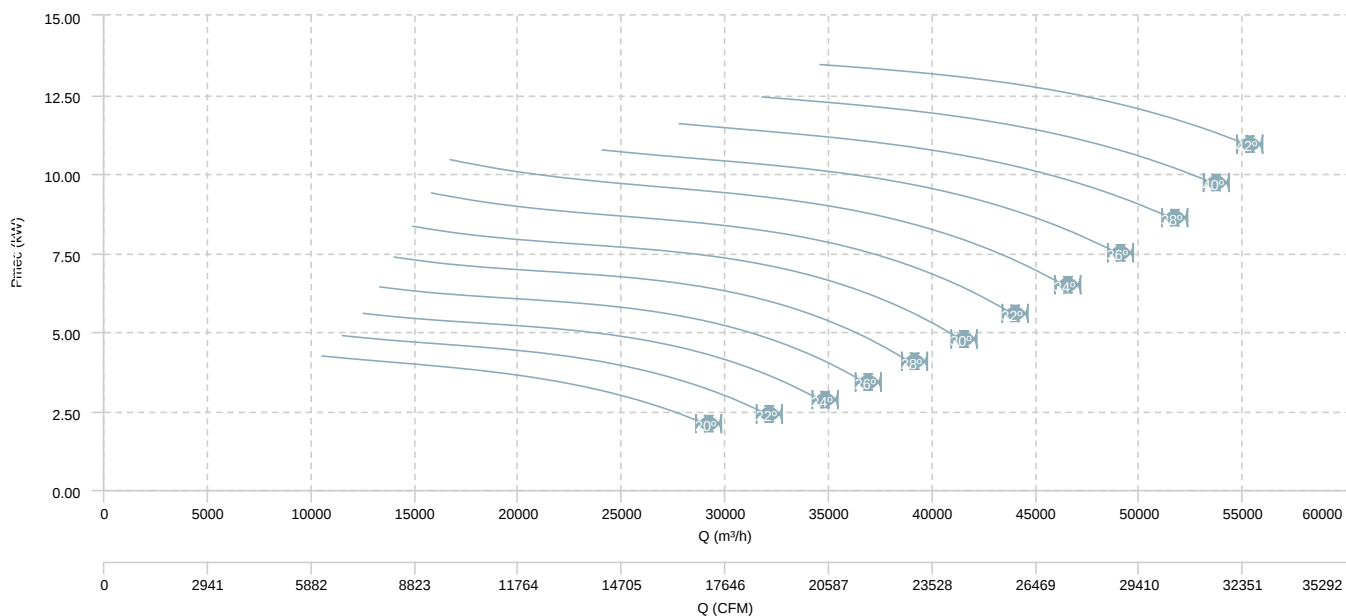


HBF 90 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (4 poles)

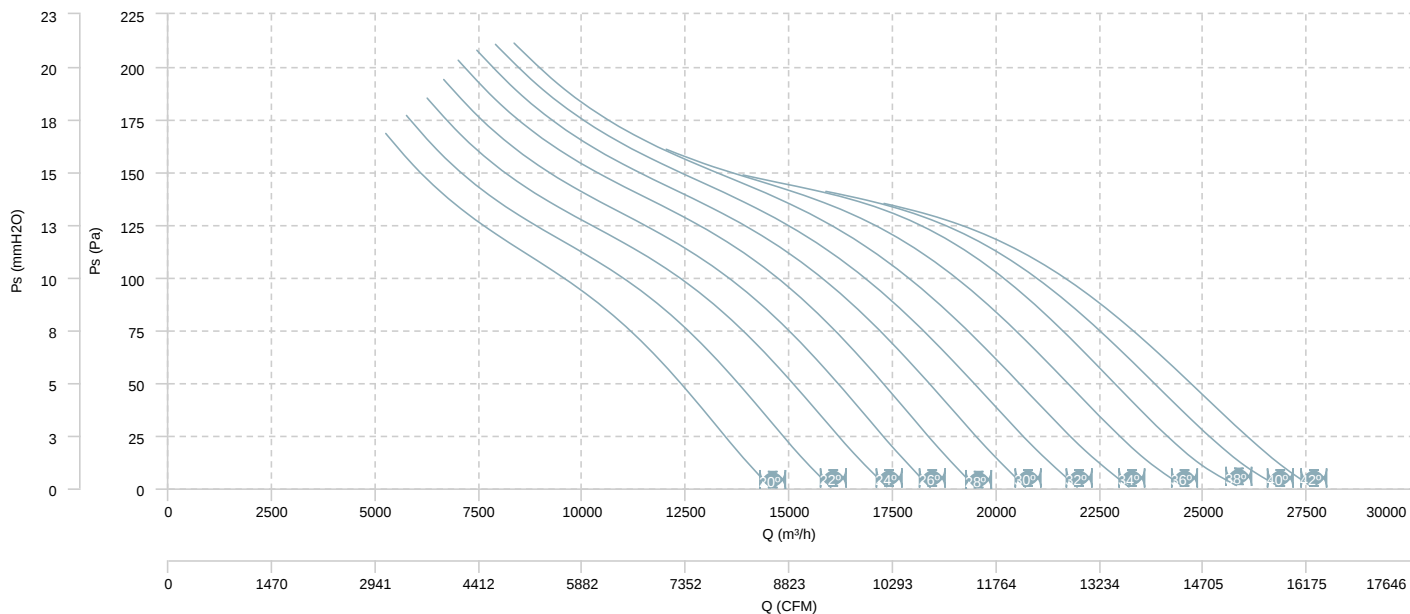


AIR FLOW - MECHANICAL POWER (4 poles)

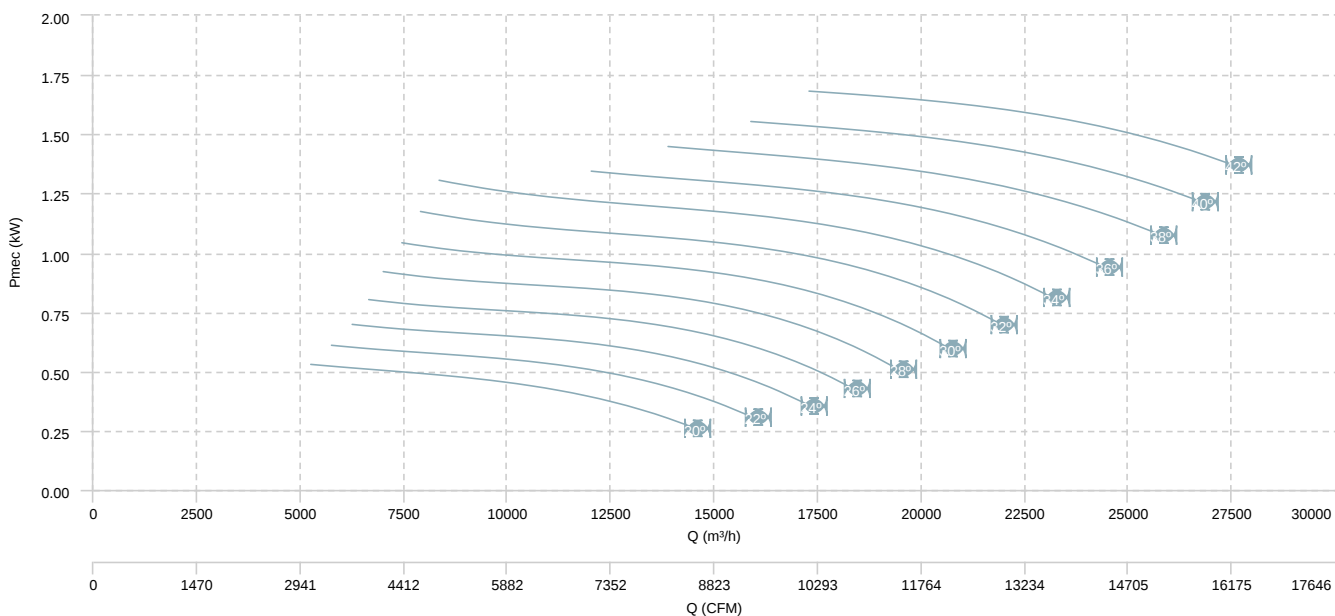


HBF 90 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (8 poles)

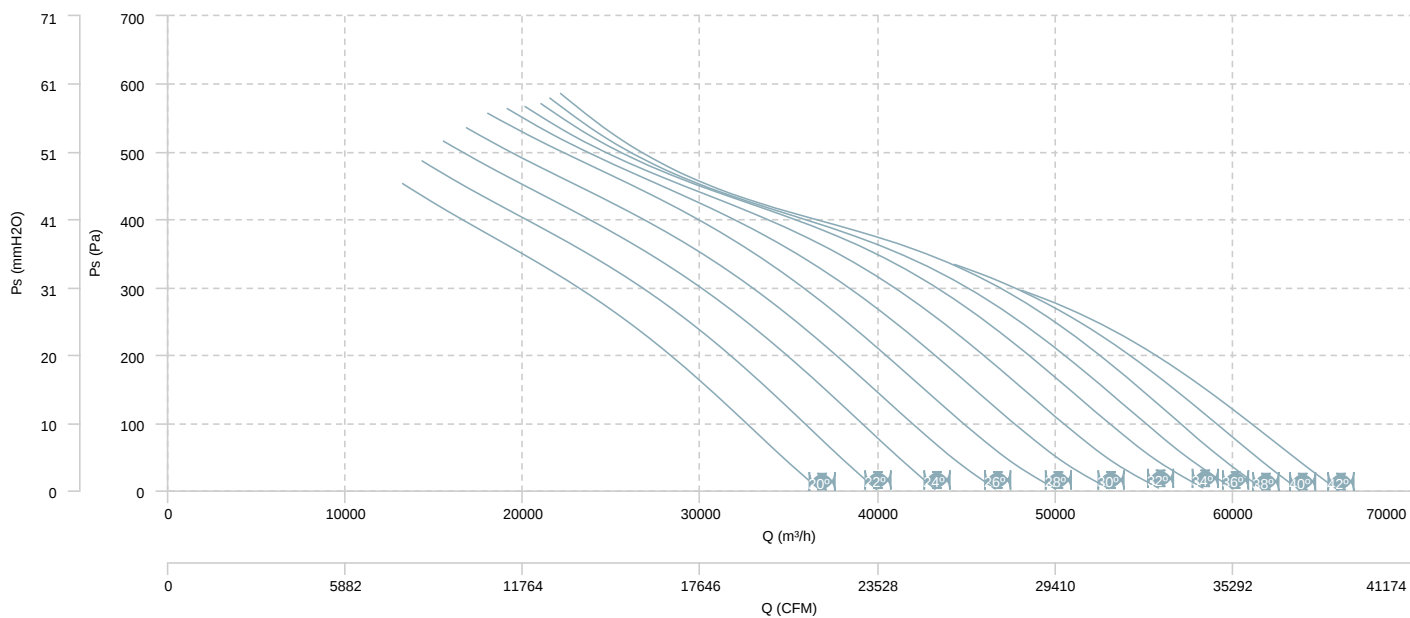


AIR FLOW - MECHANICAL POWER (8 poles)

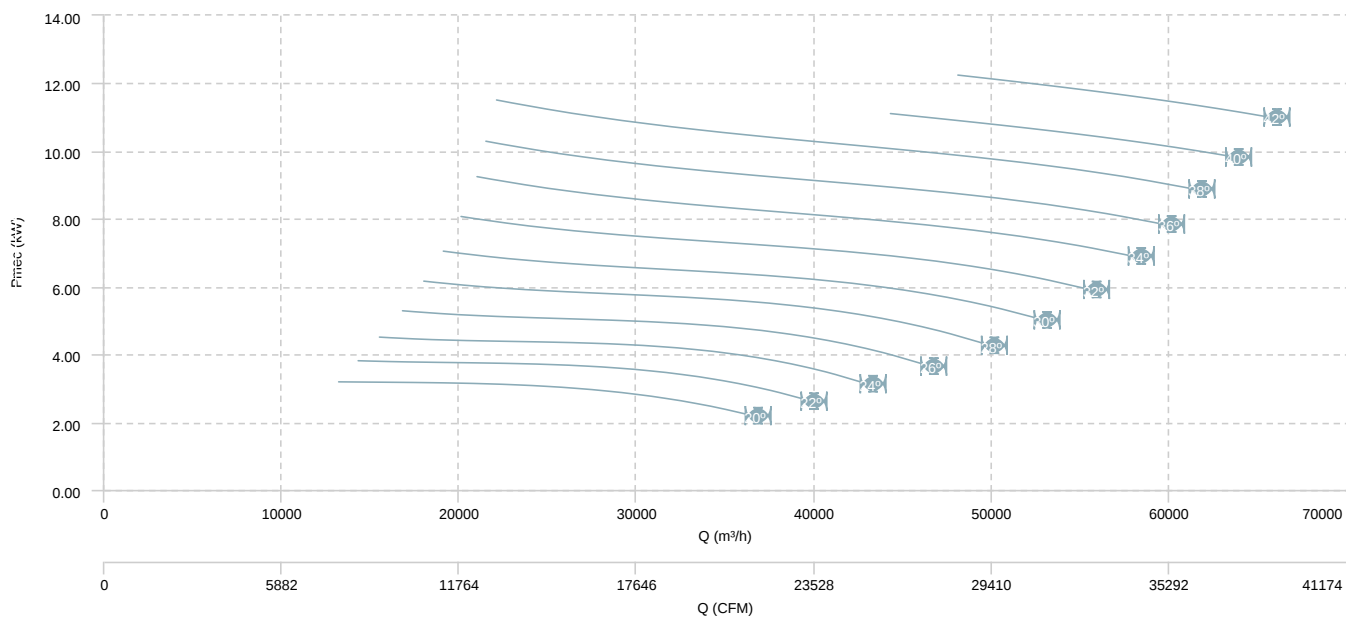


HBF 100 T4 (A6:3) F300

AIR FLOW - PRESSURE

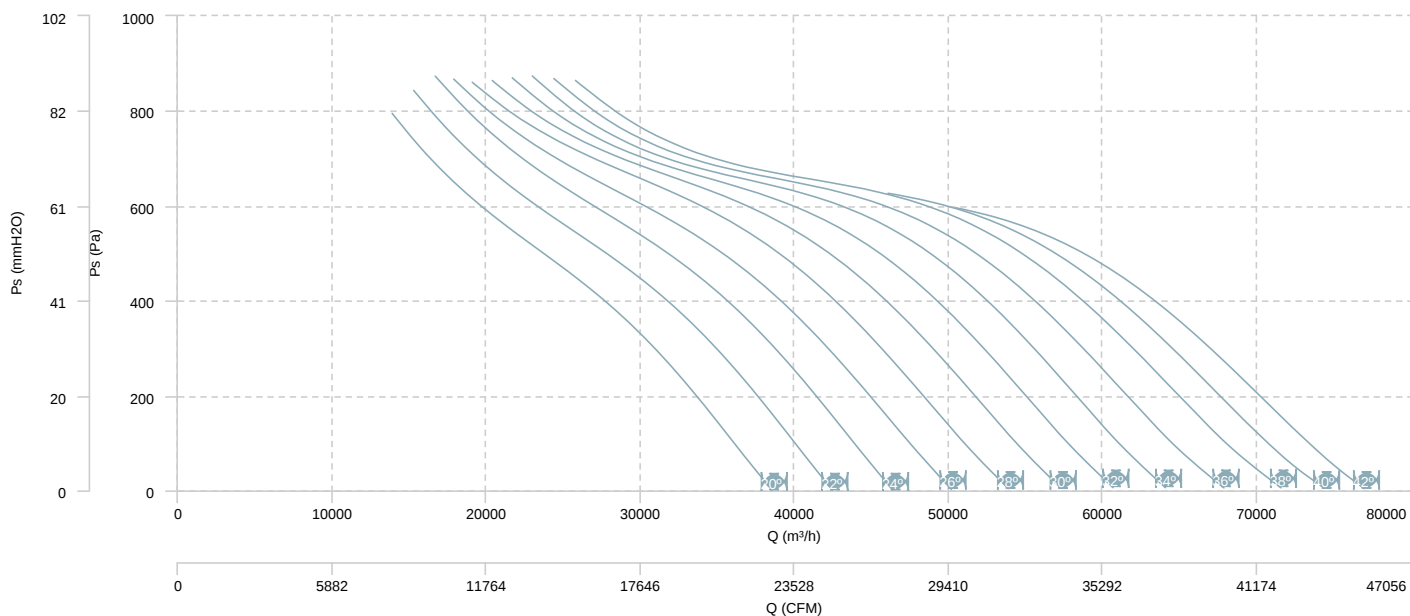


AIR FLOW - MECHANICAL POWER

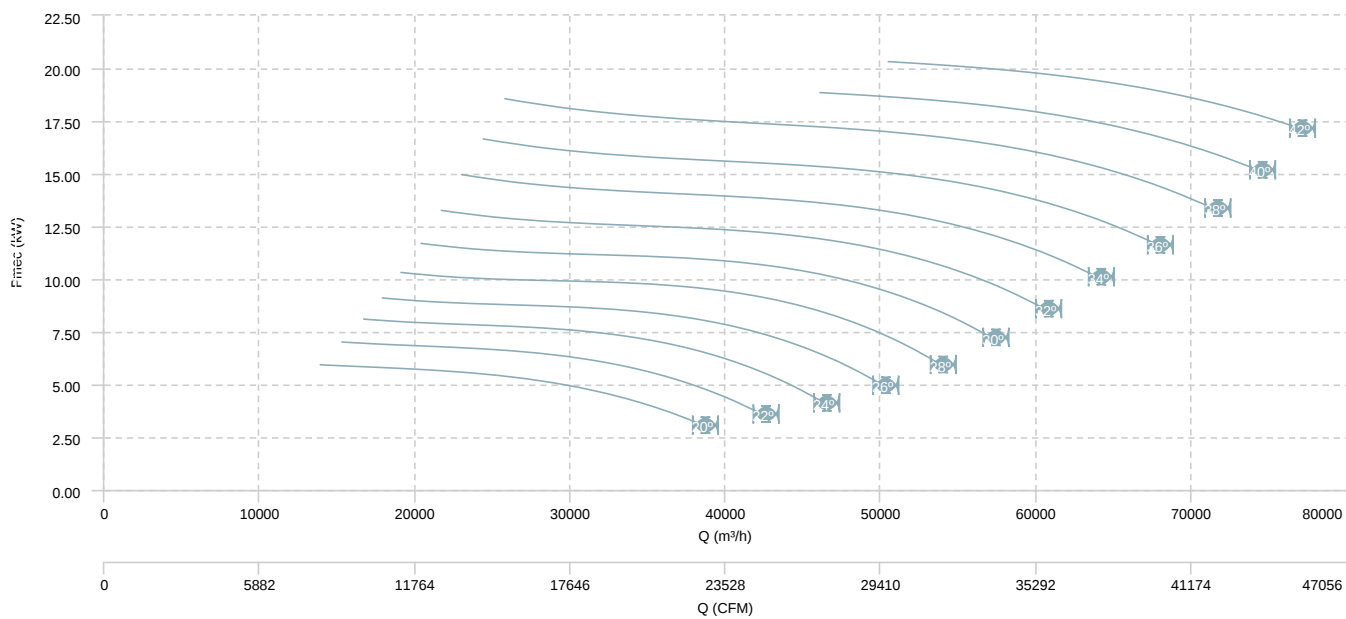


HBF 100 T4 (A6:6) F300

AIR FLOW - PRESSURE

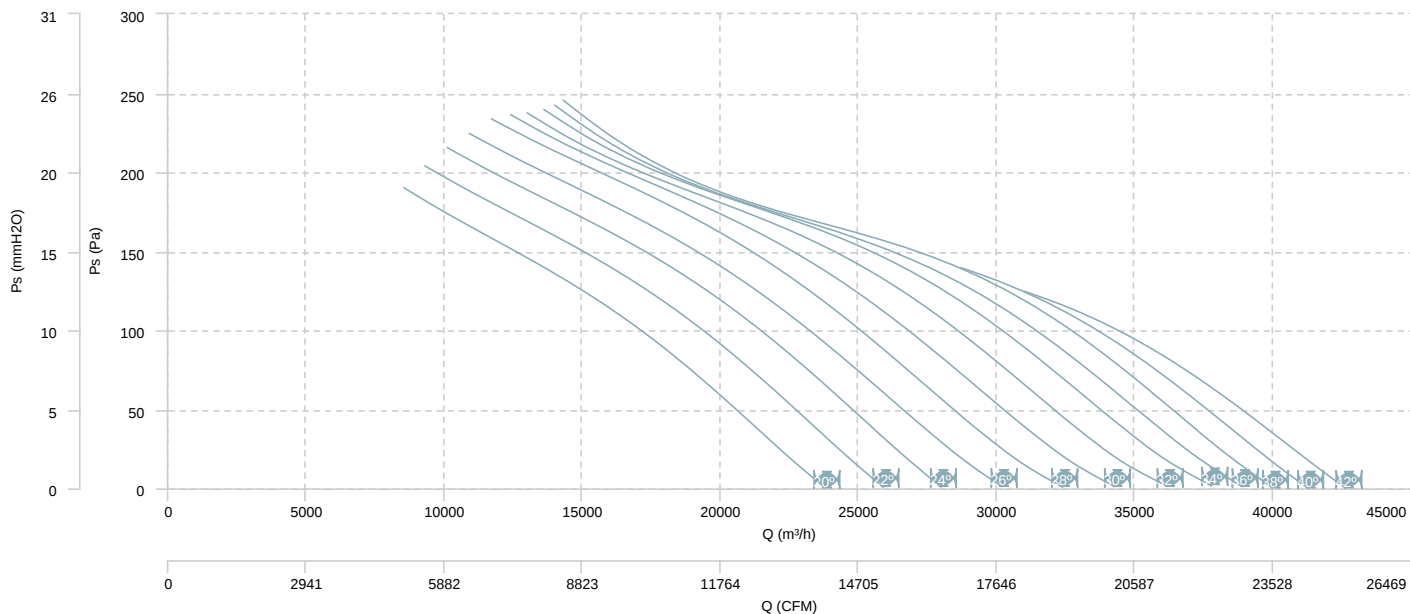


AIR FLOW - MECHANICAL POWER

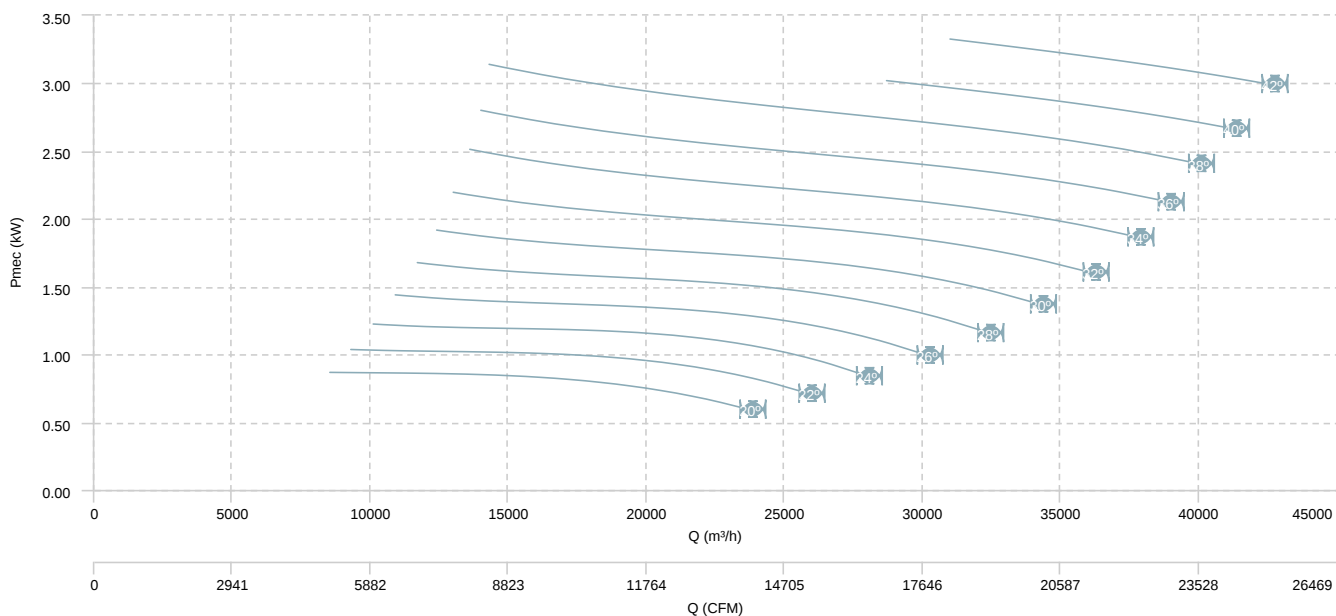


HBF 100 T6 (A6:3) F300

AIR FLOW - PRESSURE

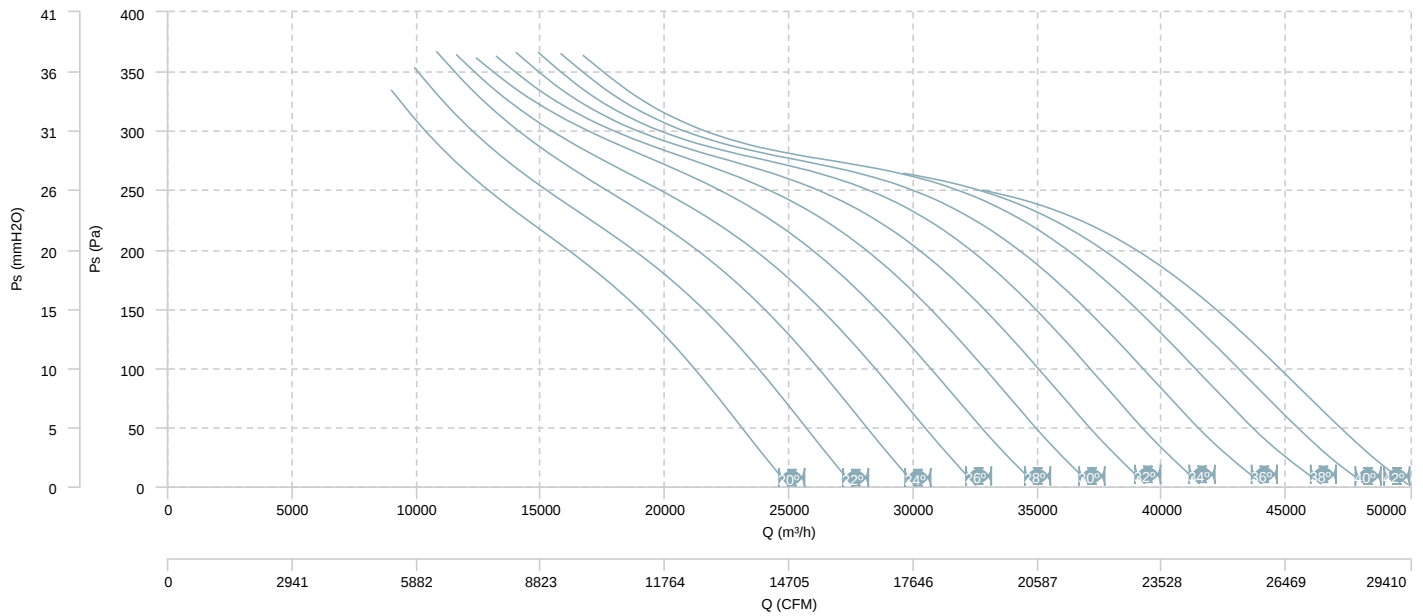


AIR FLOW - MECHANICAL POWER

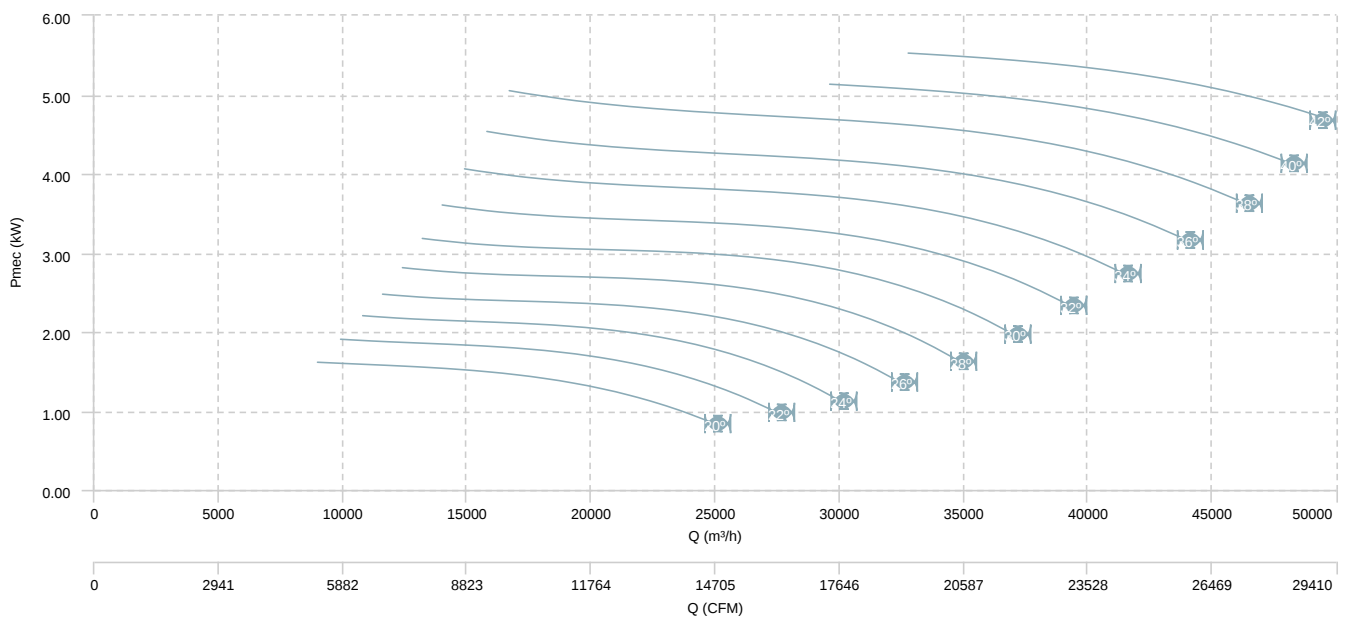


HBF 100 T6 (A6:6) F300

AIR FLOW - PRESSURE

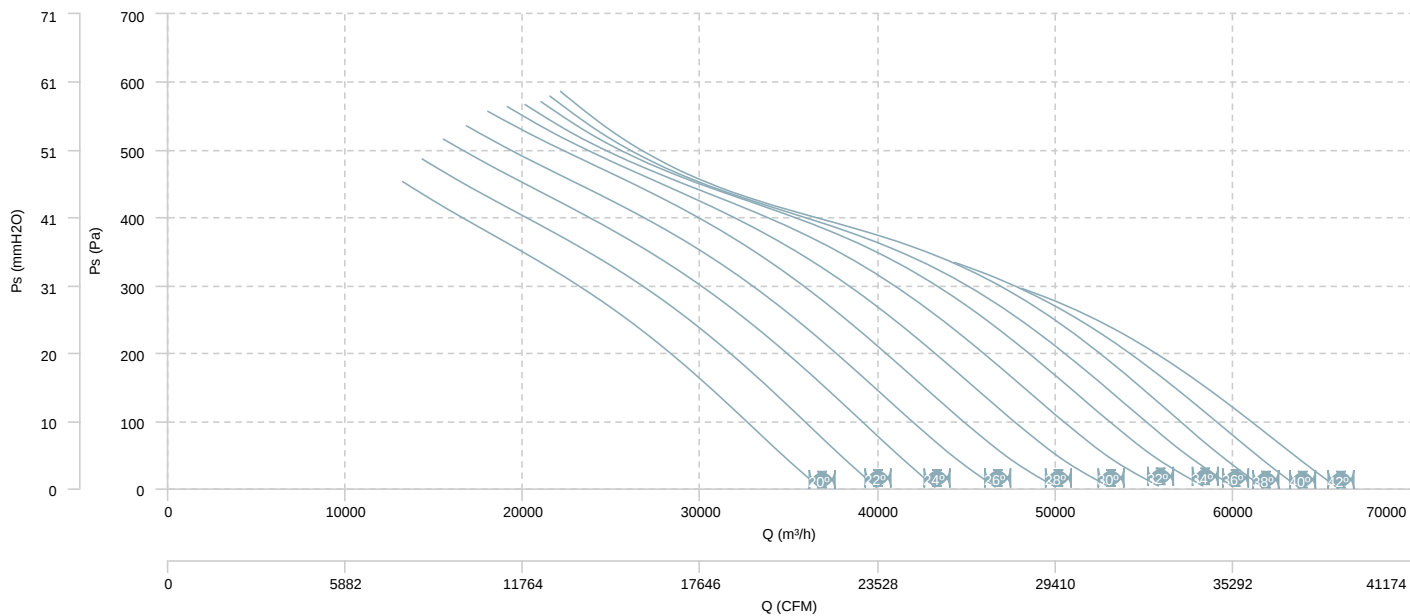


AIR FLOW - MECHANICAL POWER

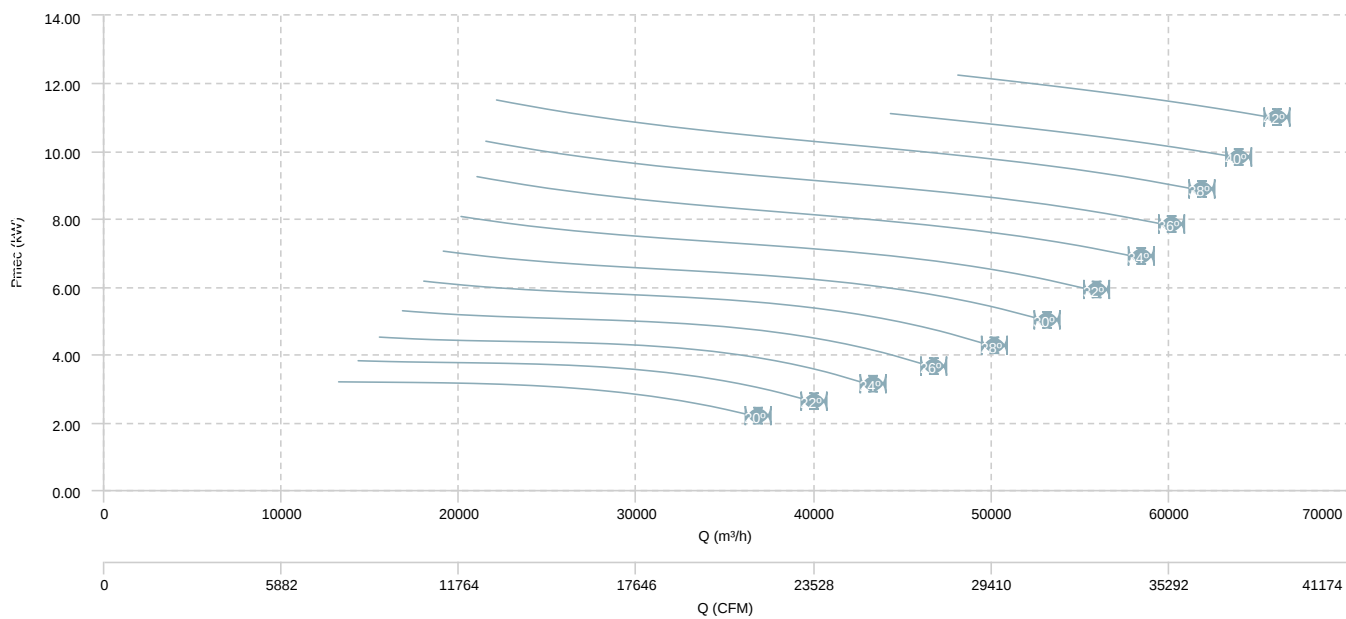


HBF 100 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (4 poles)

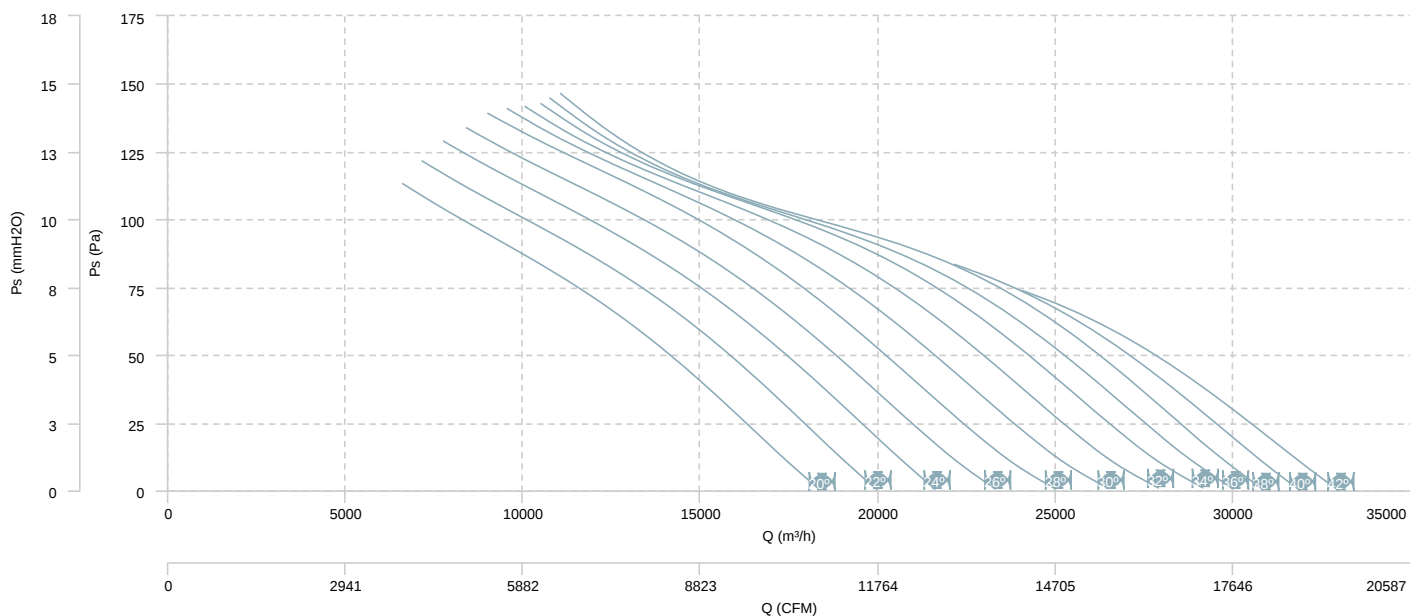


AIR FLOW - MECHANICAL POWER (4 poles)

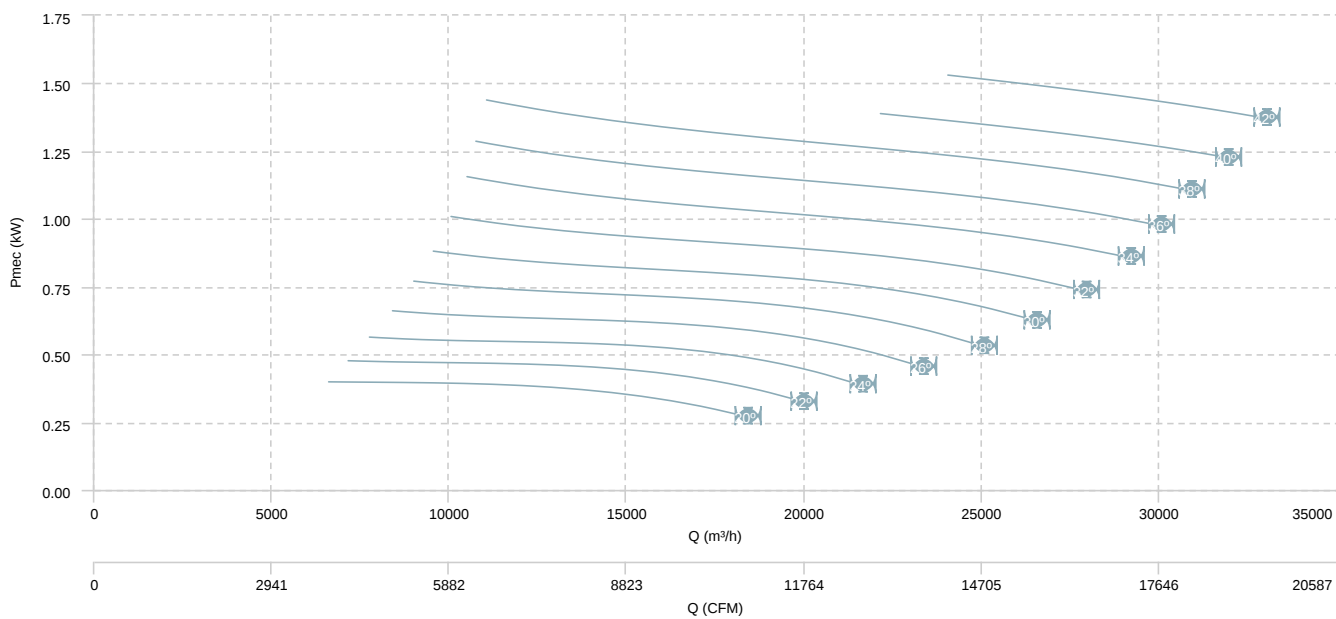


HBF 100 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (8 poles)

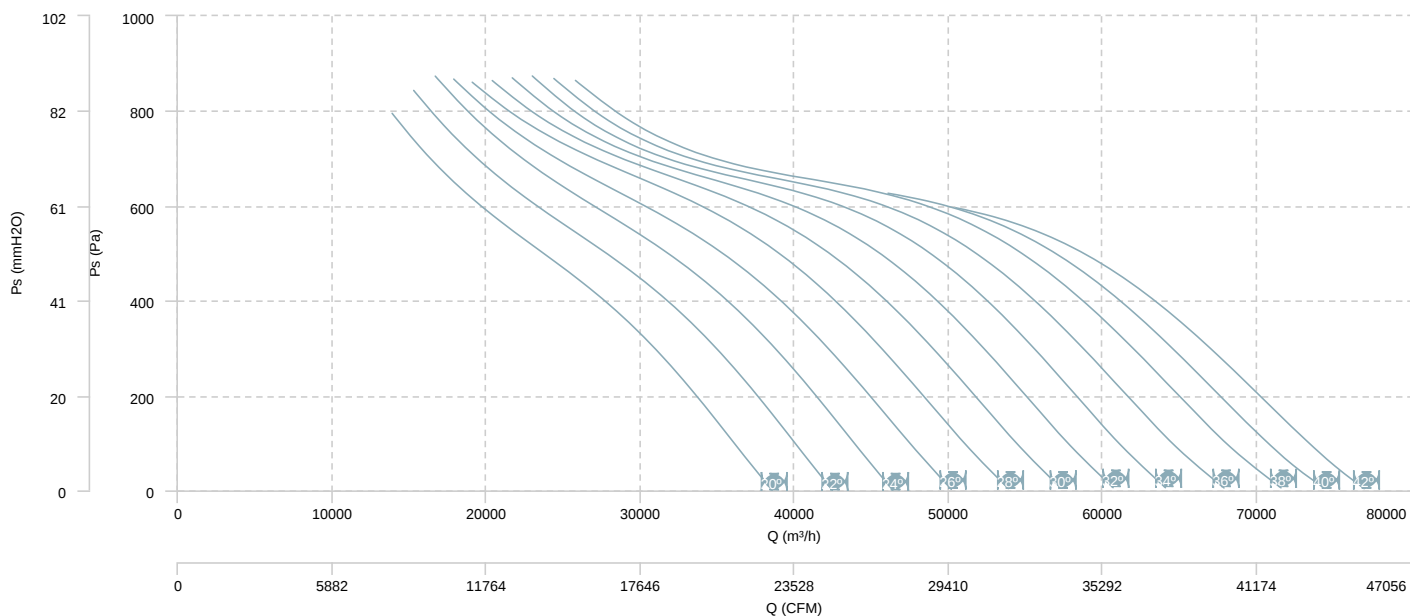


AIR FLOW - MECHANICAL POWER (8 poles)

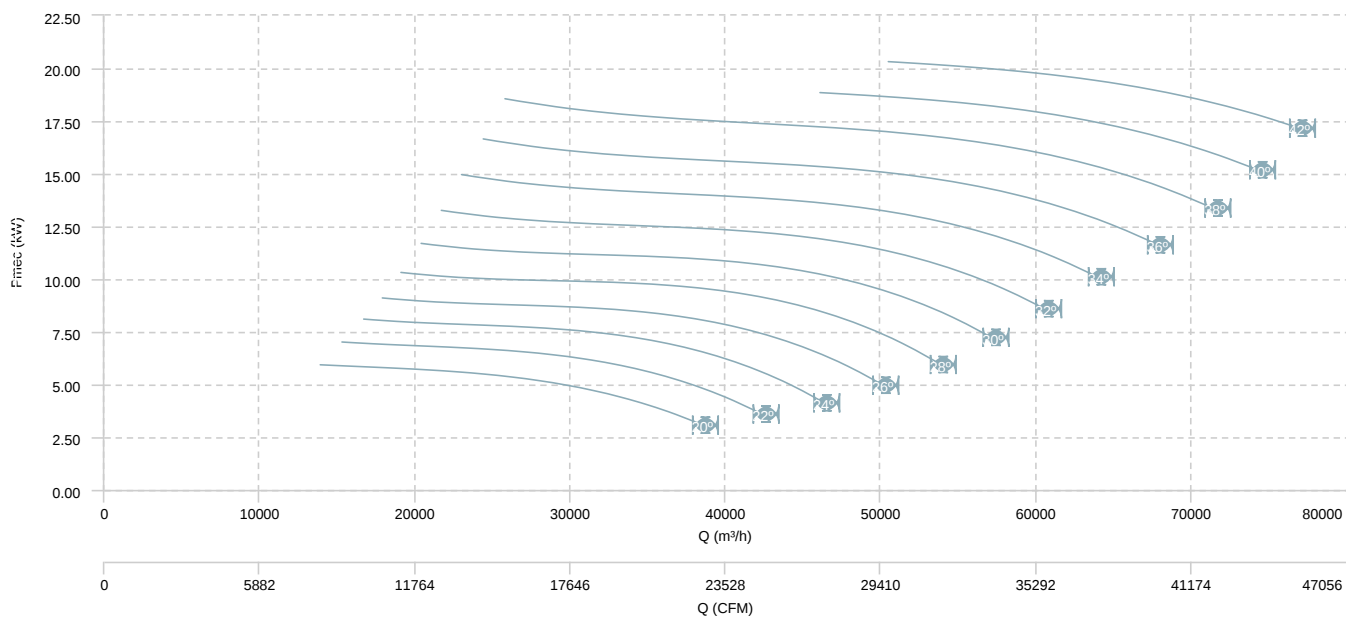


HBF 100 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (4 poles)

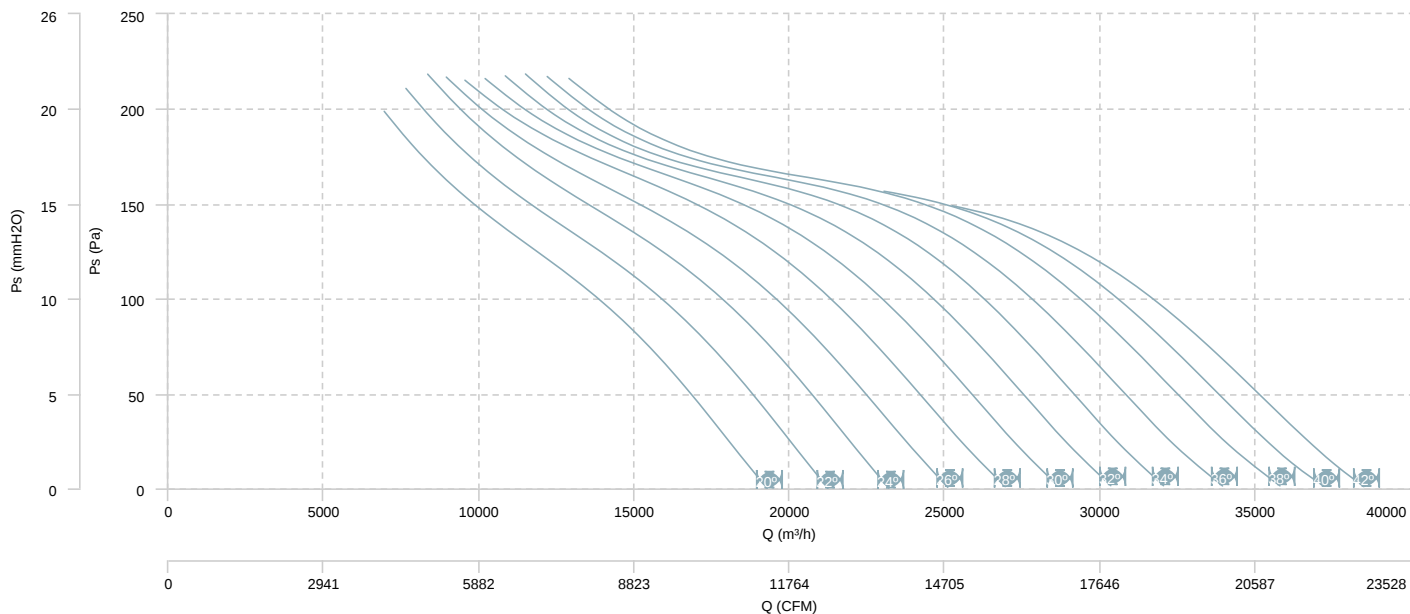


AIR FLOW - MECHANICAL POWER (4 poles)

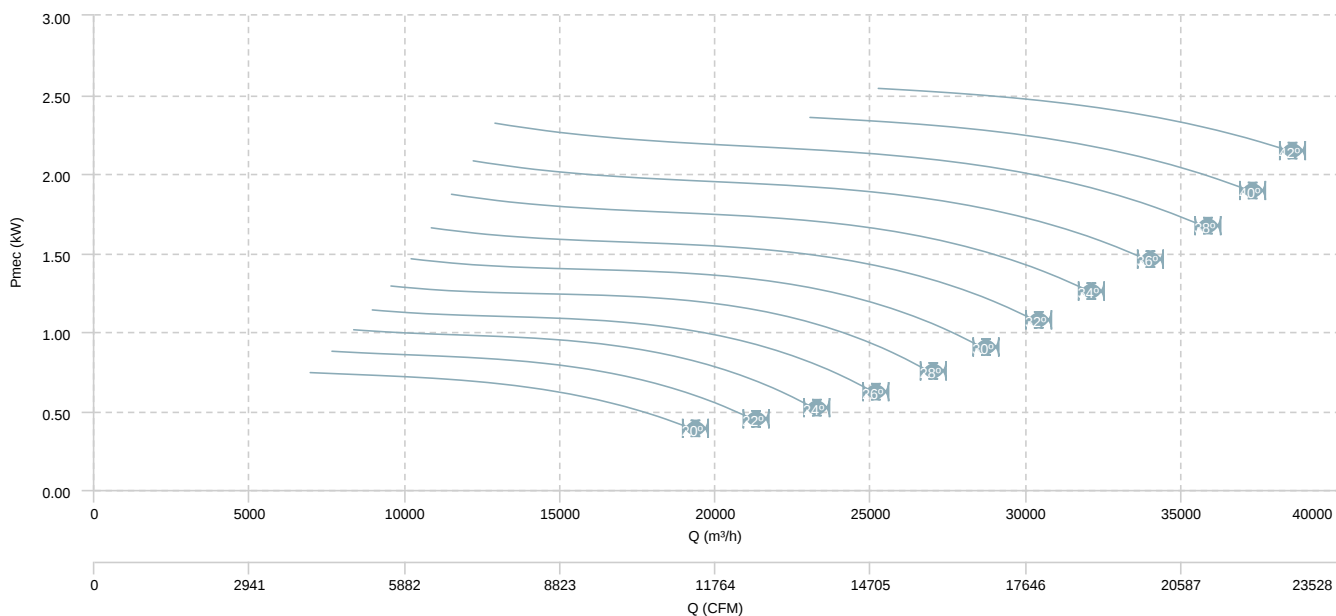


HBF 100 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (8 poles)

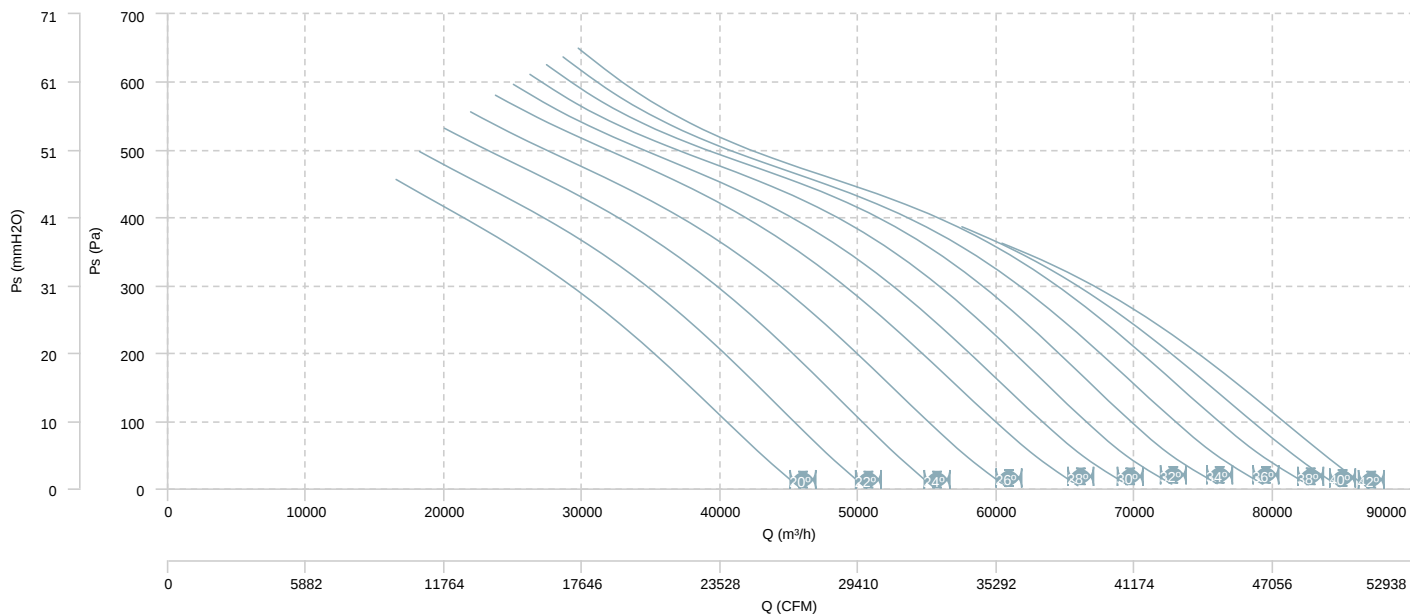


AIR FLOW - MECHANICAL POWER (8 poles)

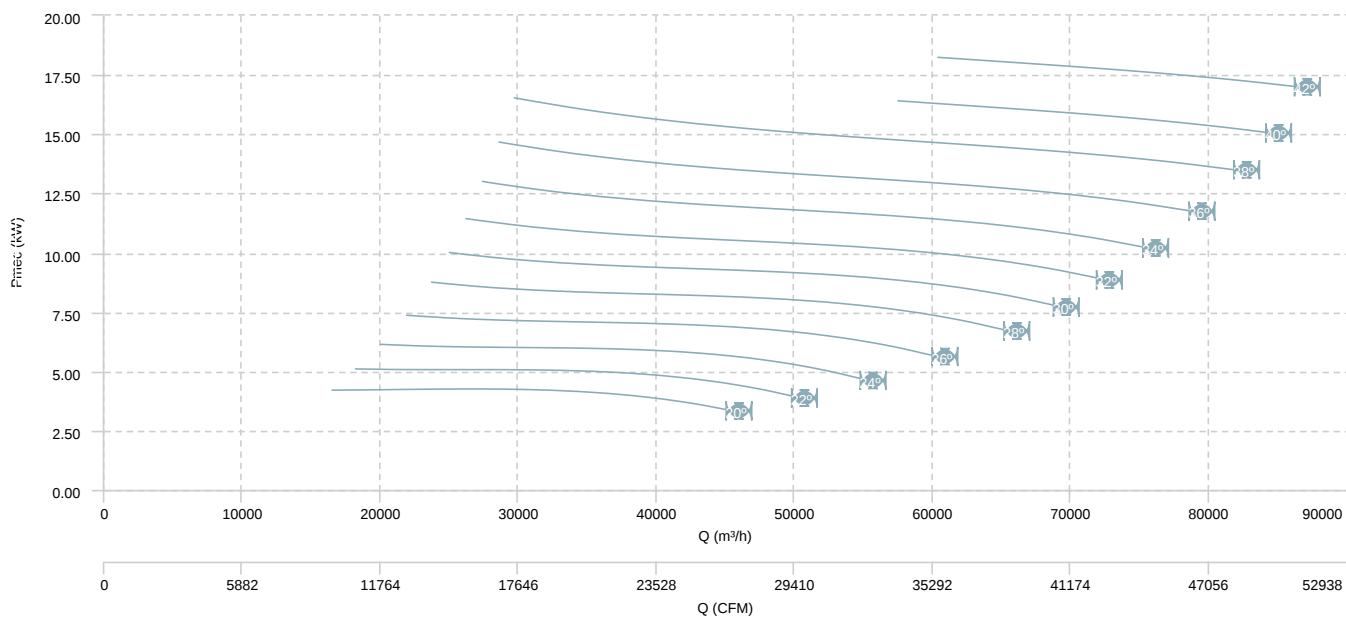


HBF 112 T4 (A6:3) F300

AIR FLOW - PRESSURE

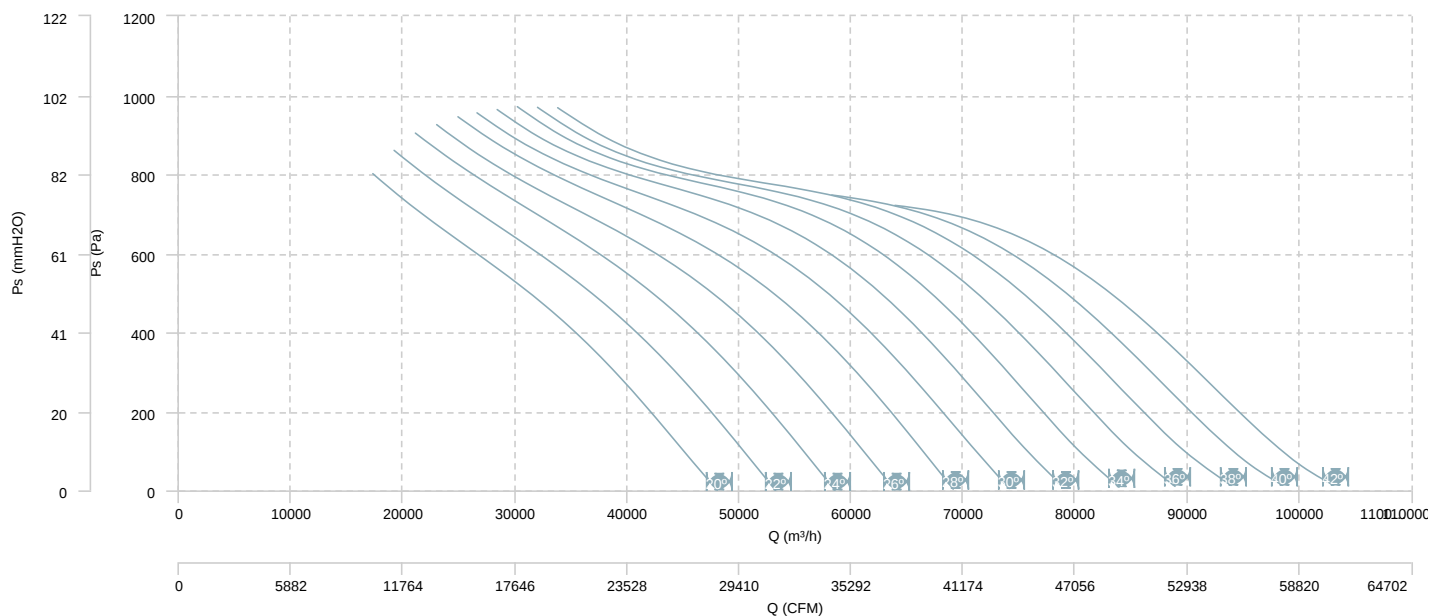


AIR FLOW - MECHANICAL POWER

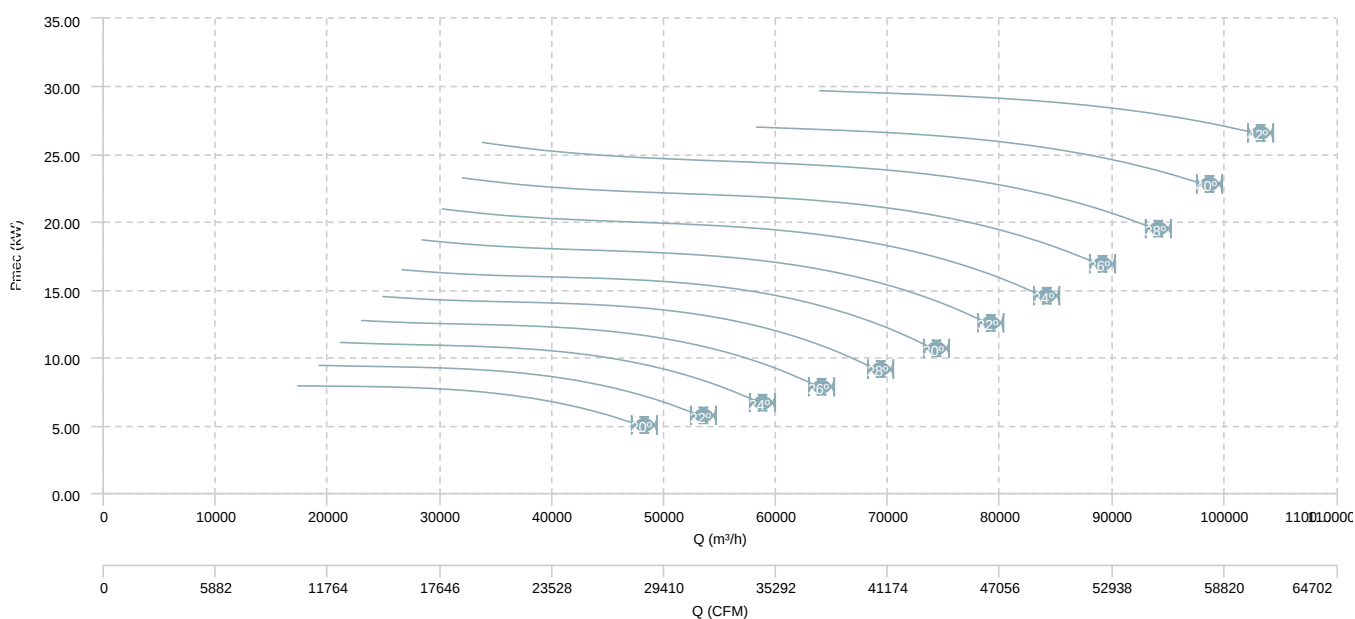


HBF 112 T4 (A6:6) F300

AIR FLOW - PRESSURE

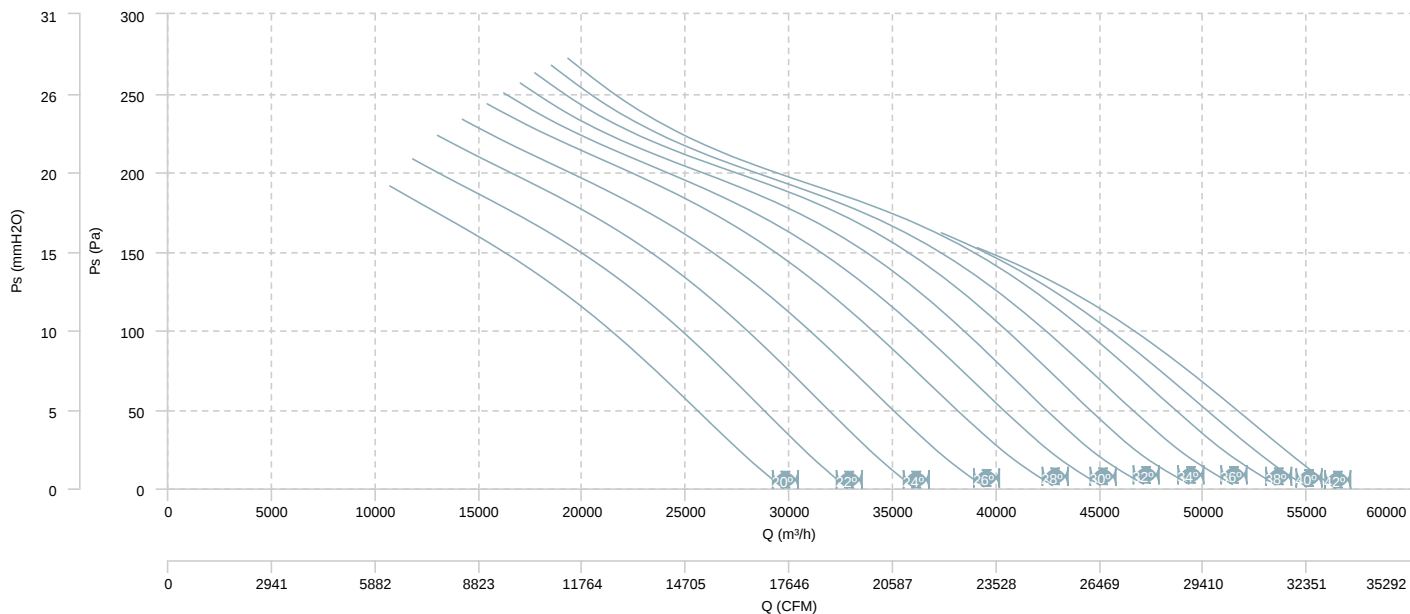


AIR FLOW - MECHANICAL POWER

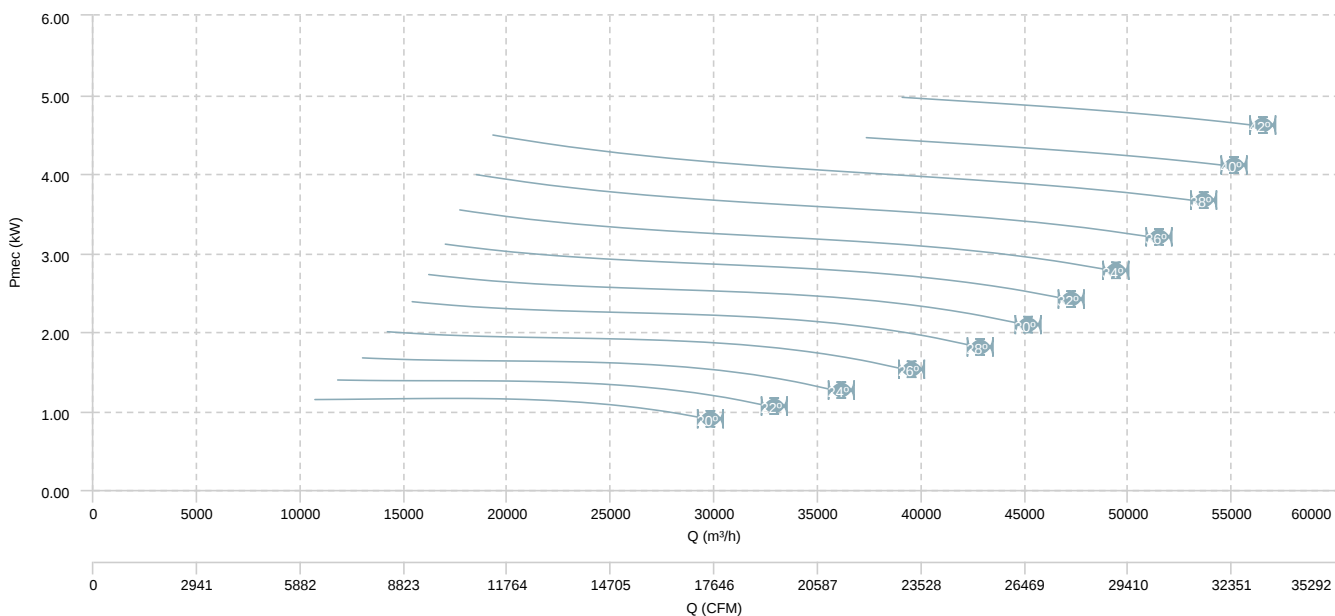


HBF 112 T6 (A6:3) F300

AIR FLOW - PRESSURE

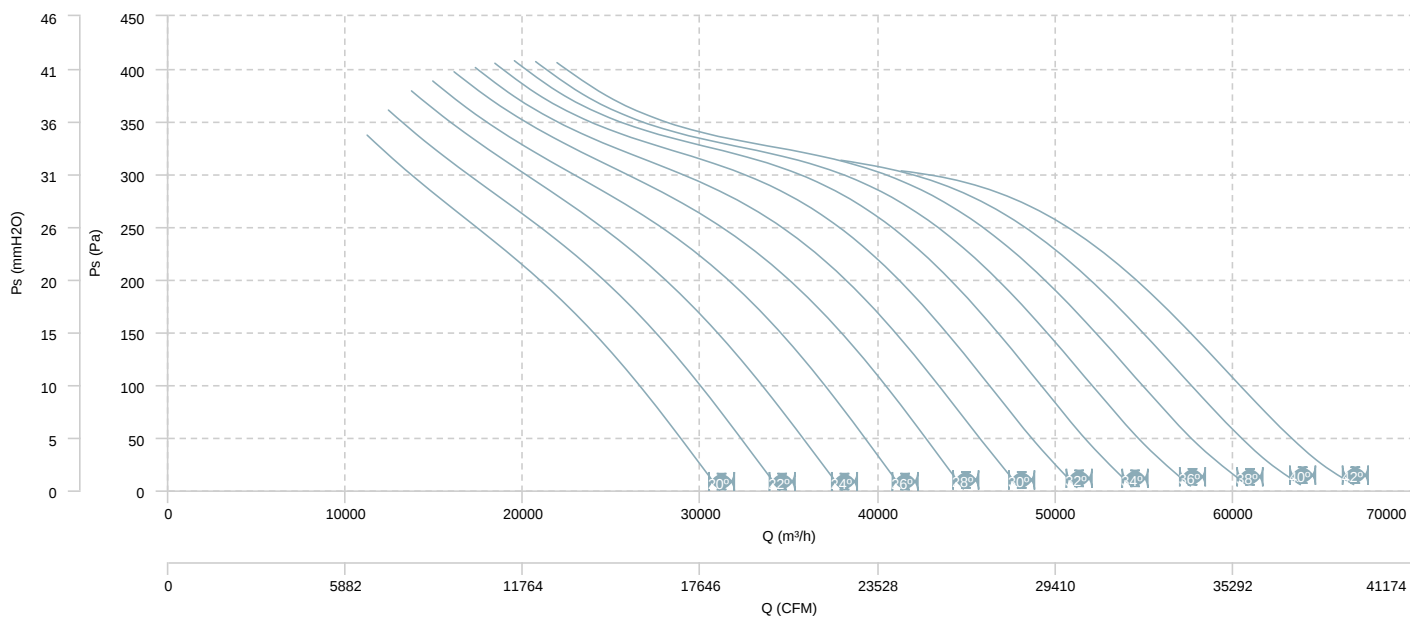


AIR FLOW - MECHANICAL POWER



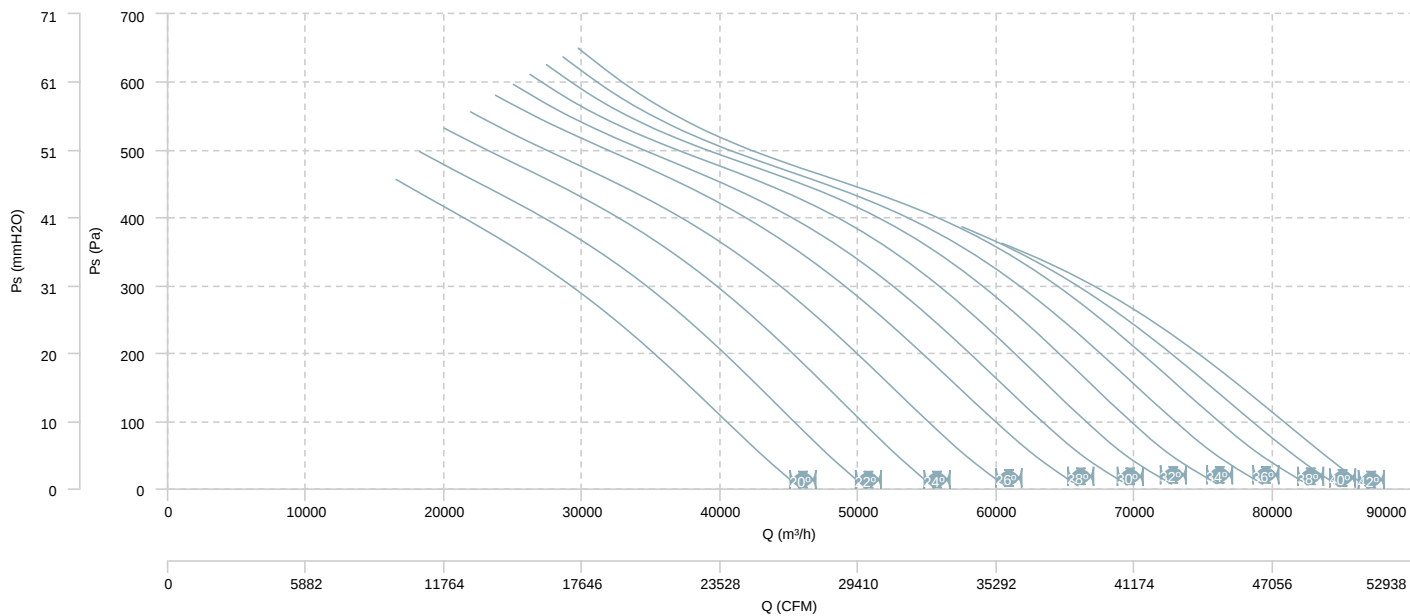
HBF 112 T6 (A6:6) F300

AIR FLOW - PRESSURE

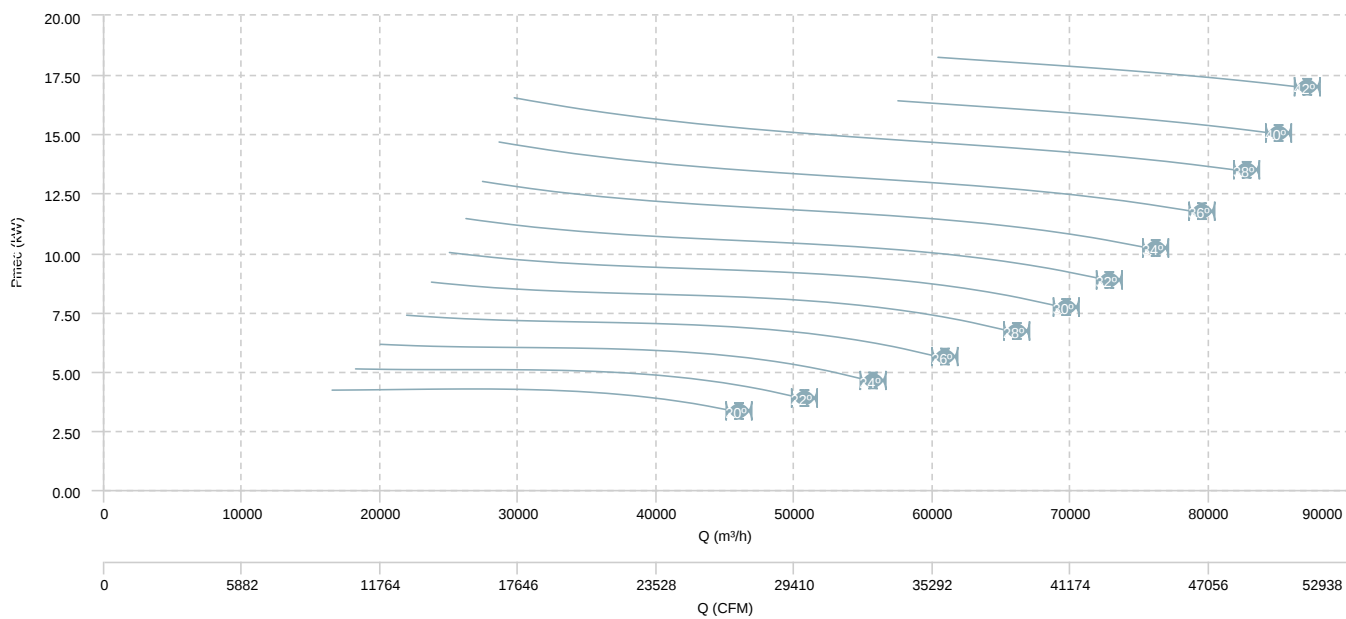


HBF 112 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (4 poles)

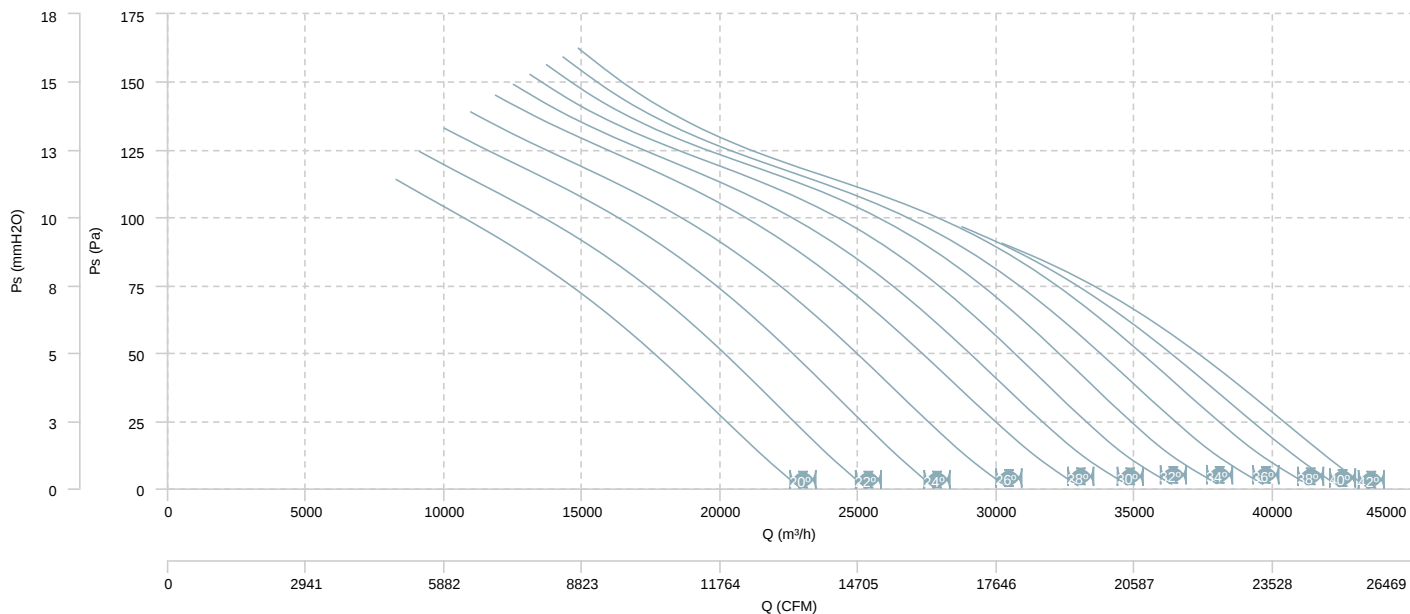


AIR FLOW - MECHANICAL POWER (4 poles)

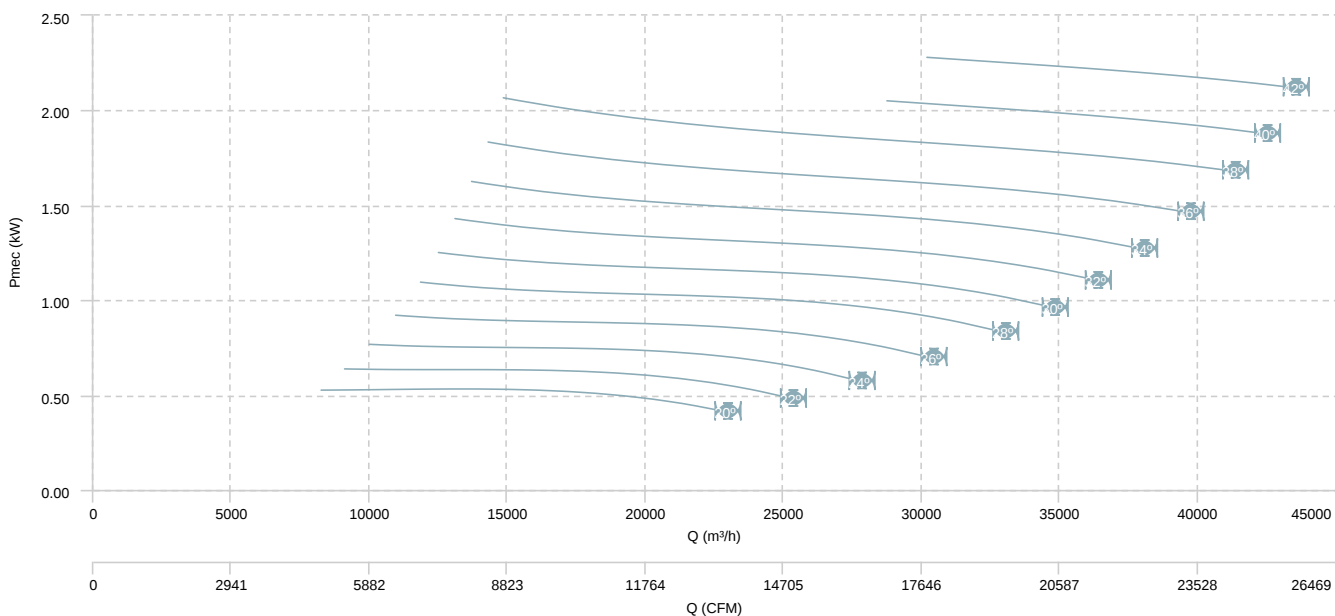


HBF 112 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (8 poles)

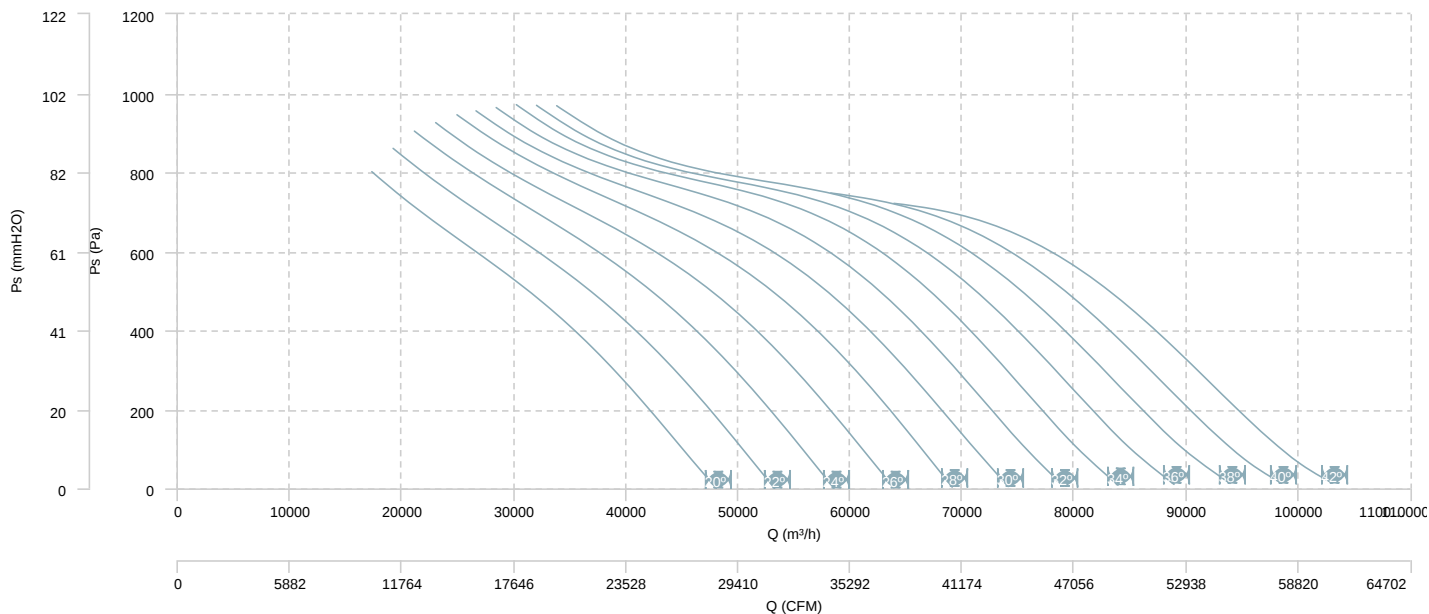


AIR FLOW - MECHANICAL POWER (8 poles)

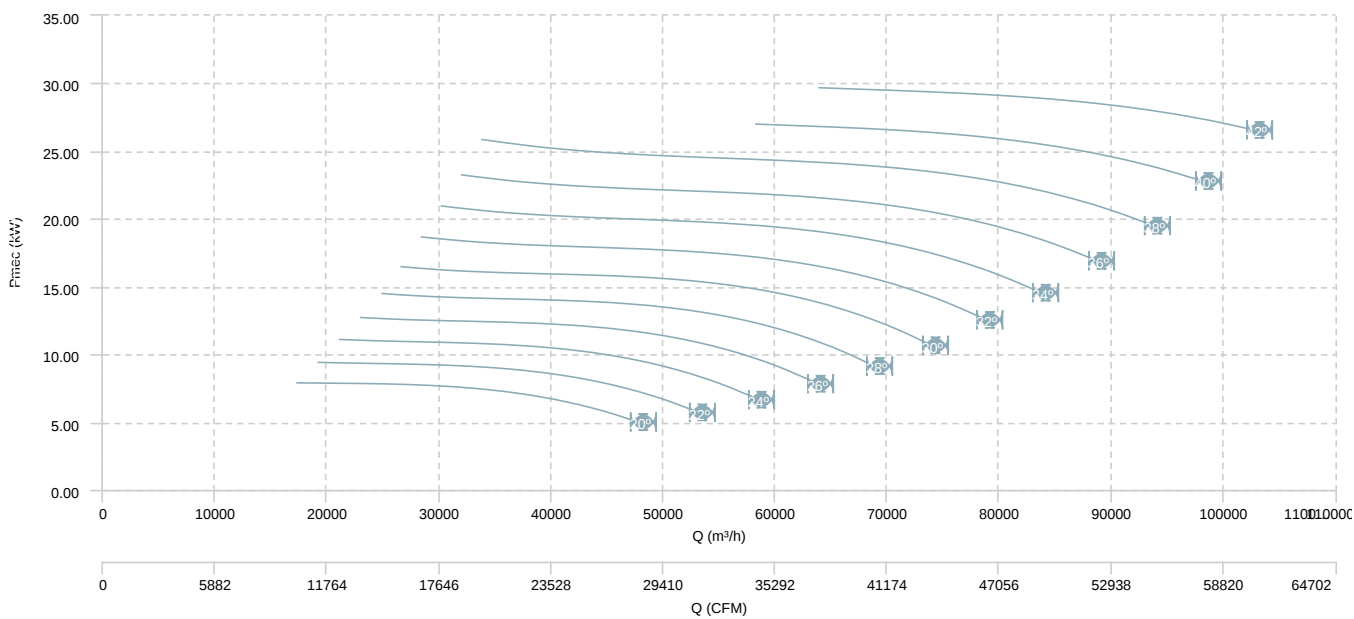


HBF 112 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (4 poles)

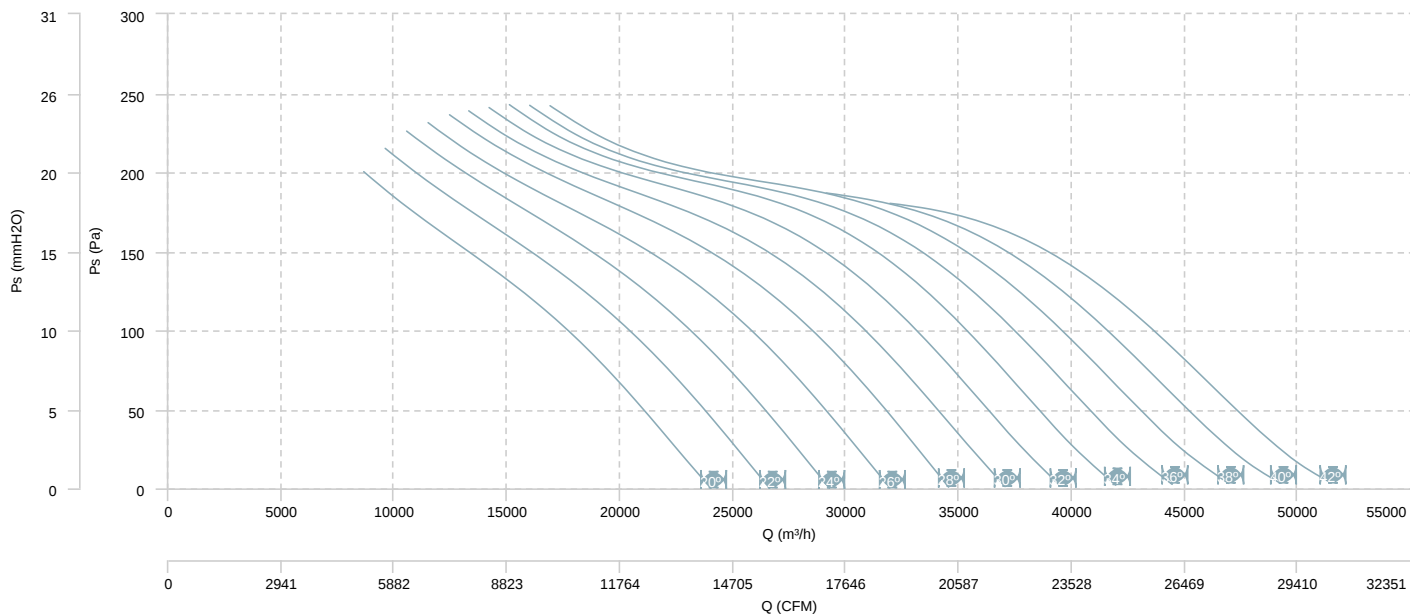


AIR FLOW - MECHANICAL POWER (4 poles)

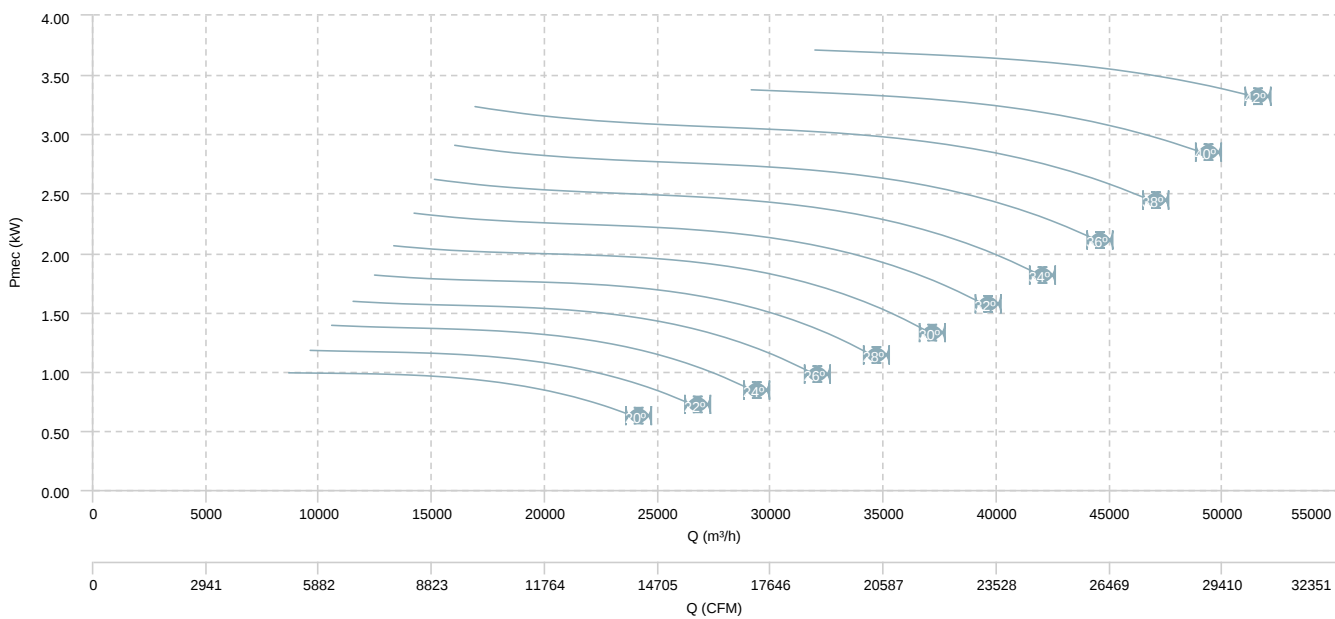


HBF 112 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (8 poles)

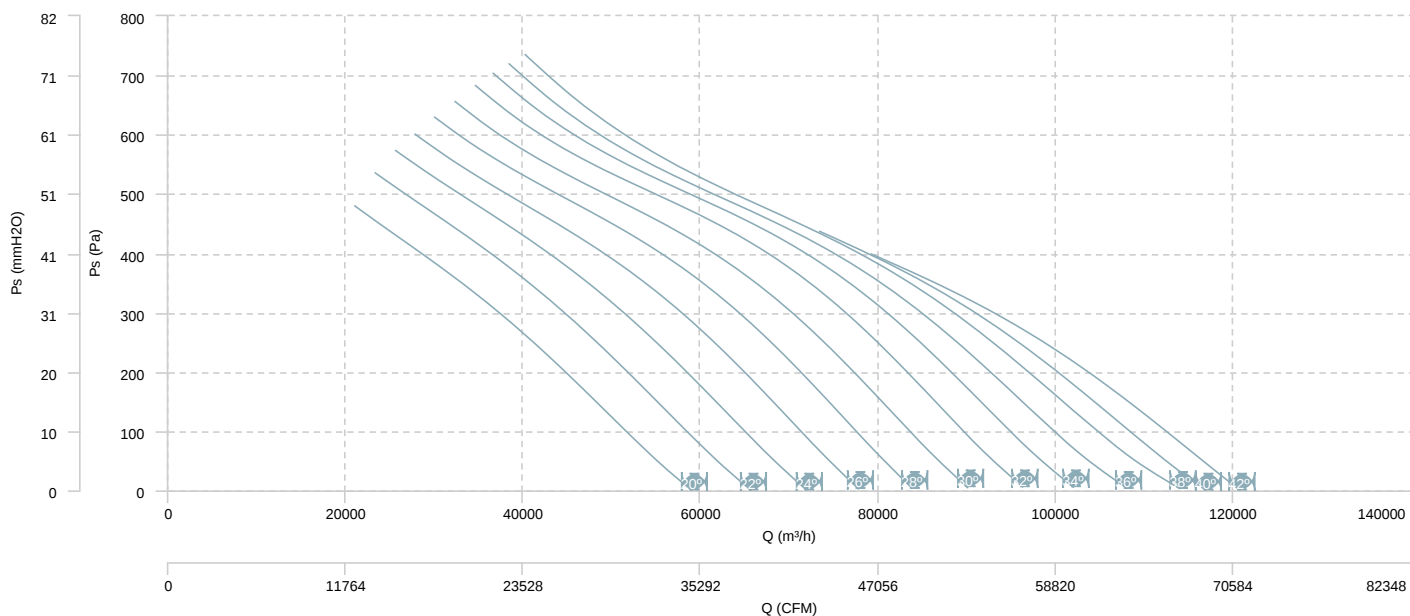


AIR FLOW - MECHANICAL POWER (8 poles)

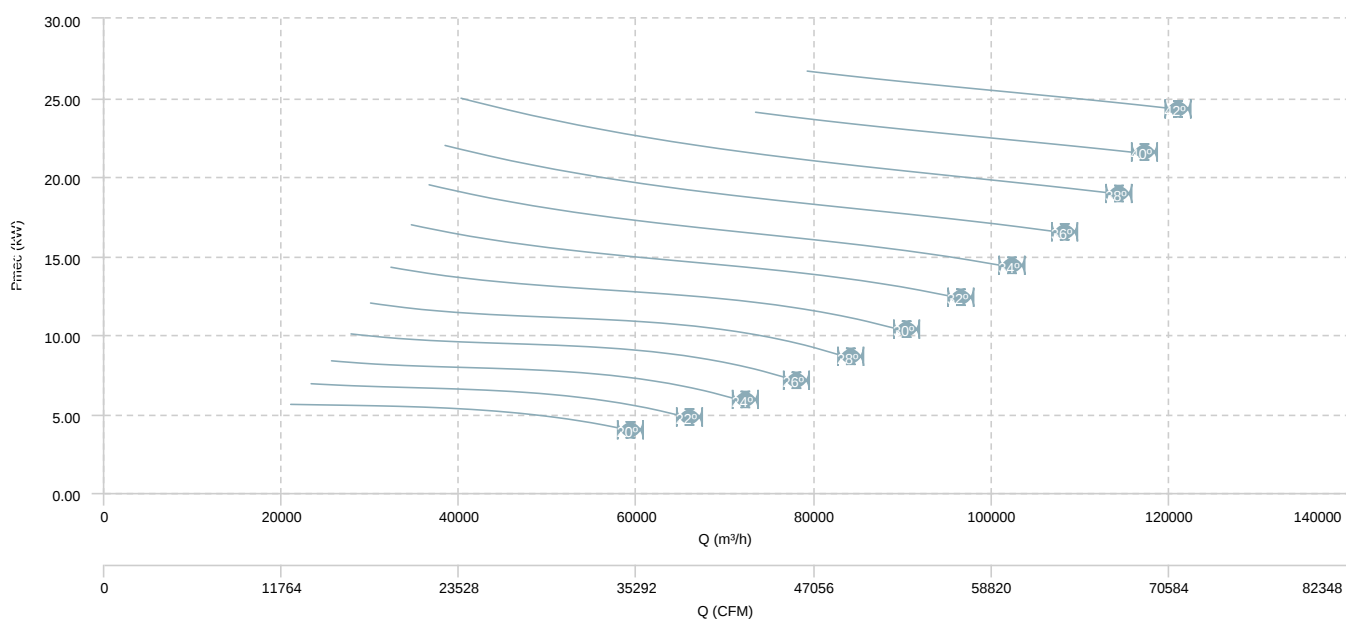


HBF 125 T4 (A6:3) F300

AIR FLOW - PRESSURE

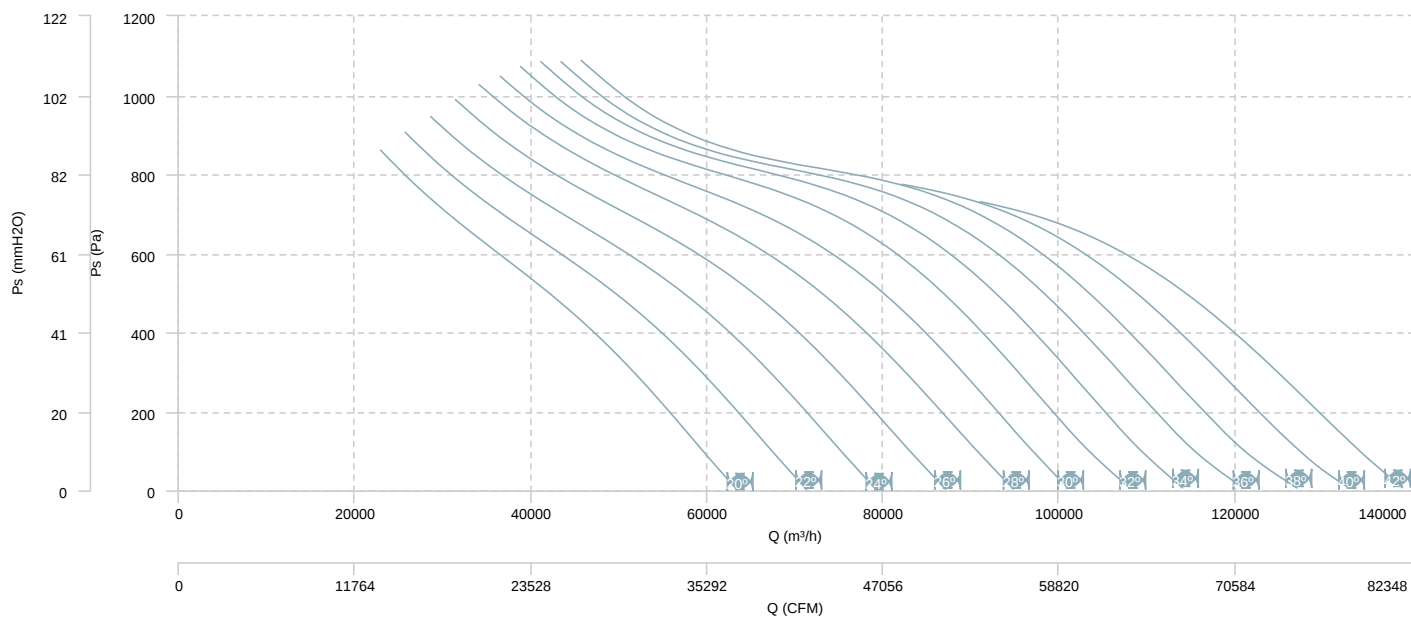


AIR FLOW - MECHANICAL POWER

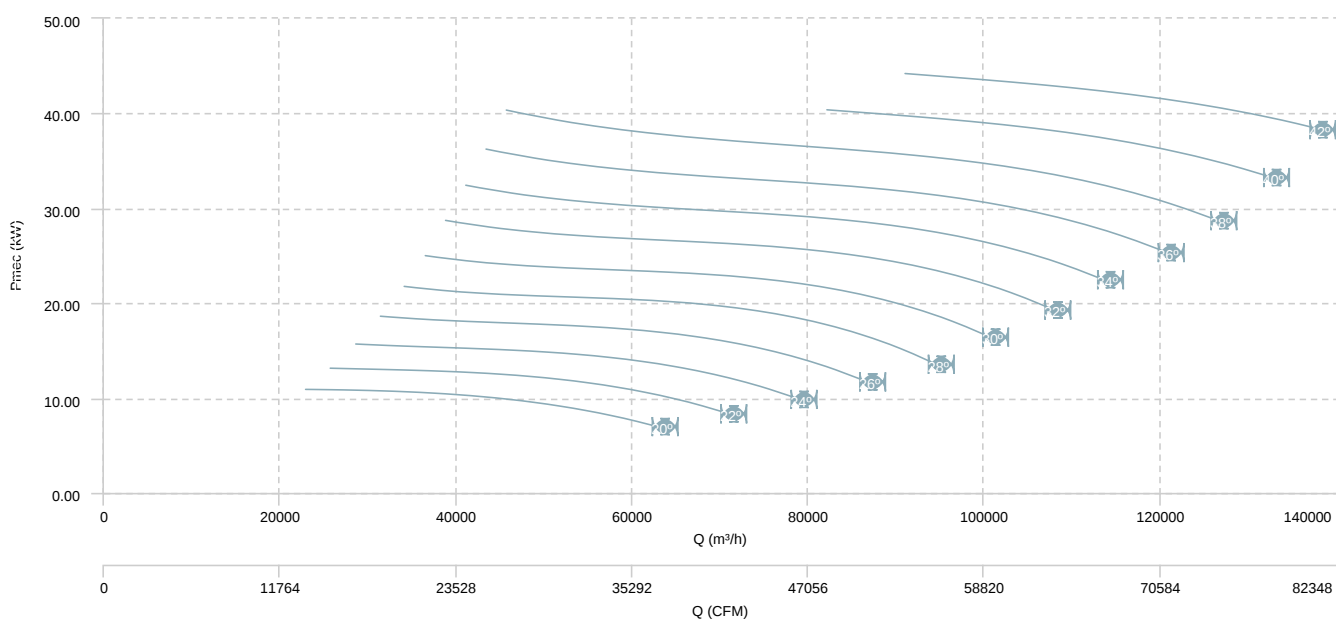


HBF 125 T4 (A6:6) F300

AIR FLOW - PRESSURE

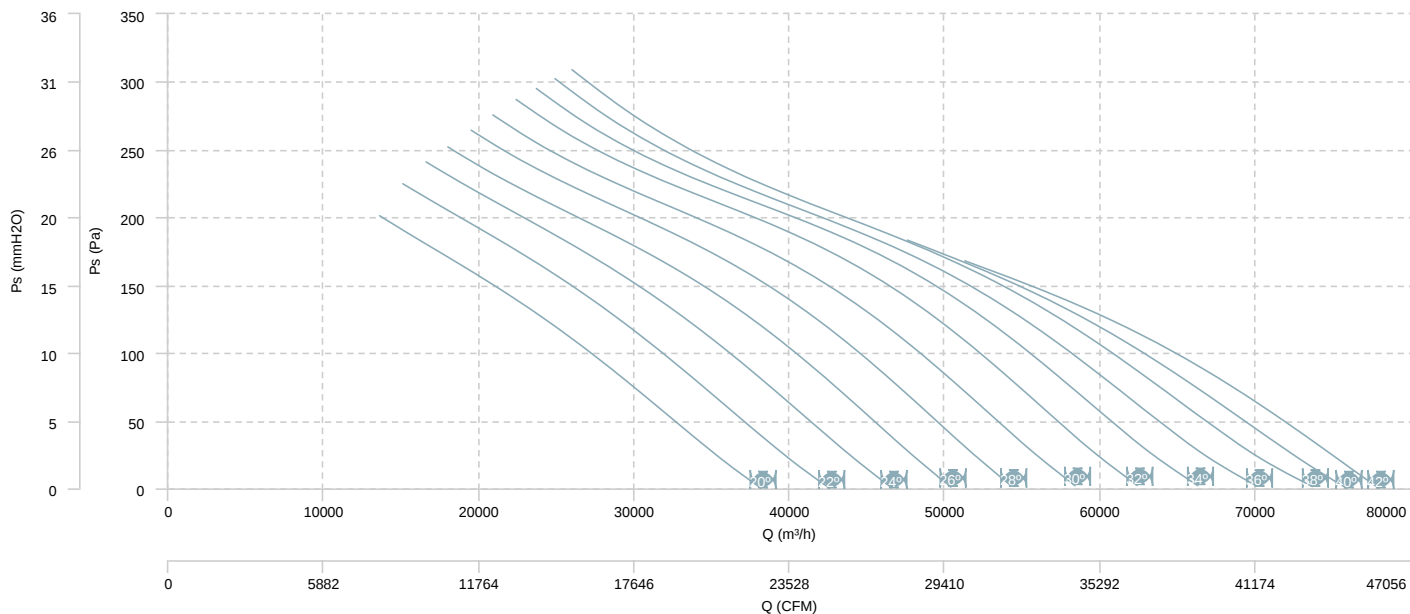


AIR FLOW - MECHANICAL POWER

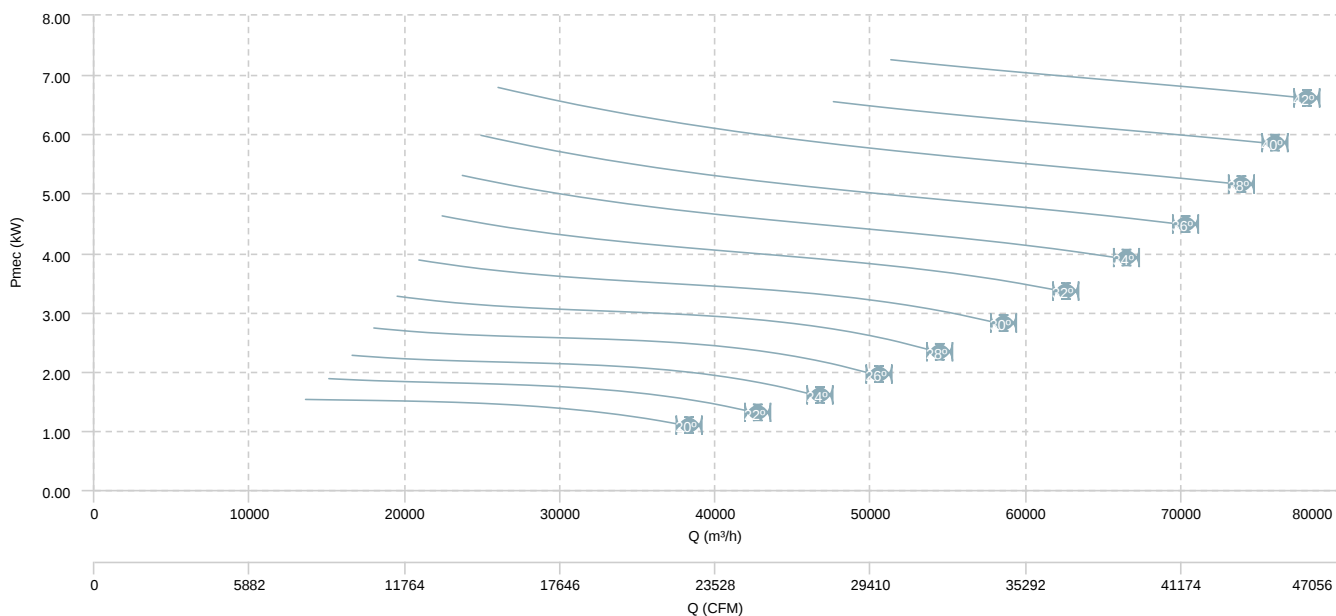


HBF 125 T6 (A6:3) F300

AIR FLOW - PRESSURE

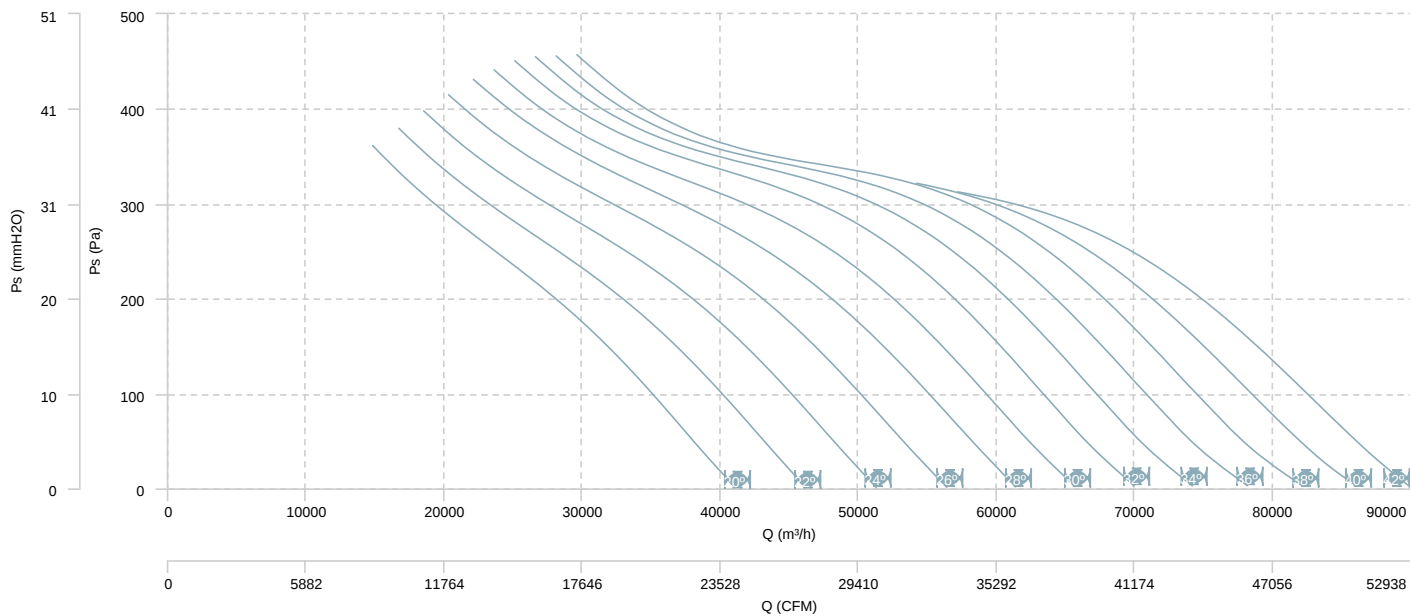


AIR FLOW - MECHANICAL POWER

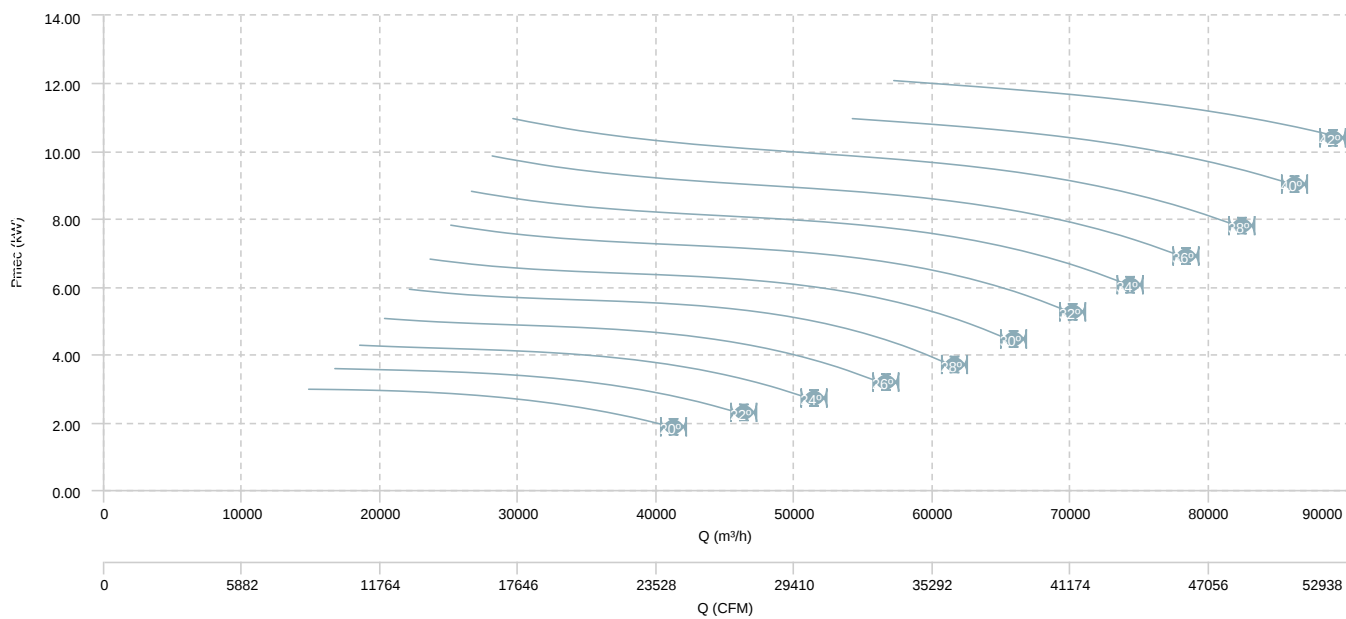


HBF 125 T6 (A6:6) F300

AIR FLOW - PRESSURE

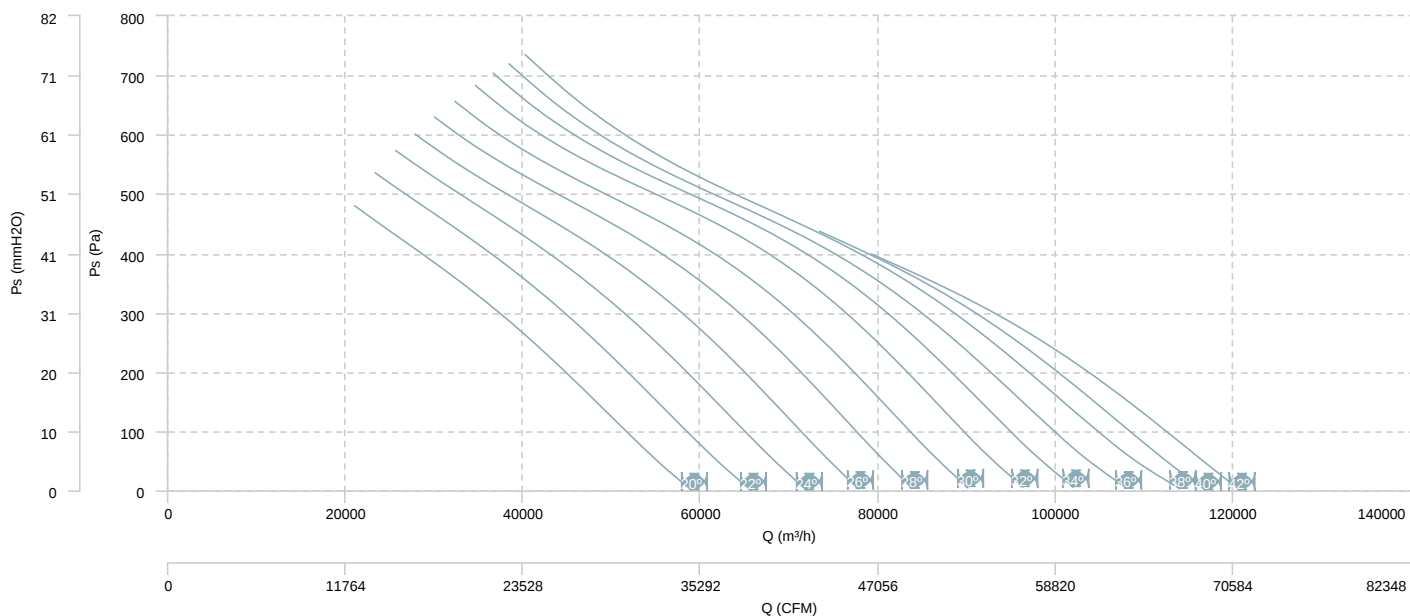


AIR FLOW - MECHANICAL POWER

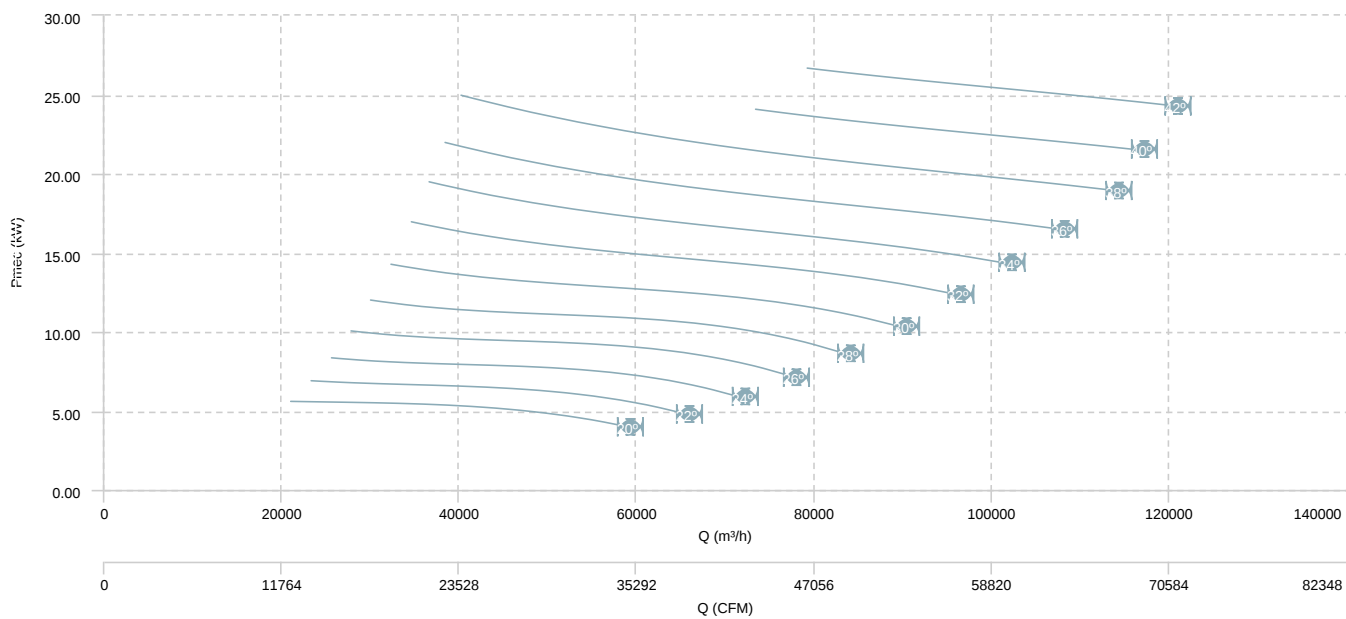


HBF 125 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (4 poles)

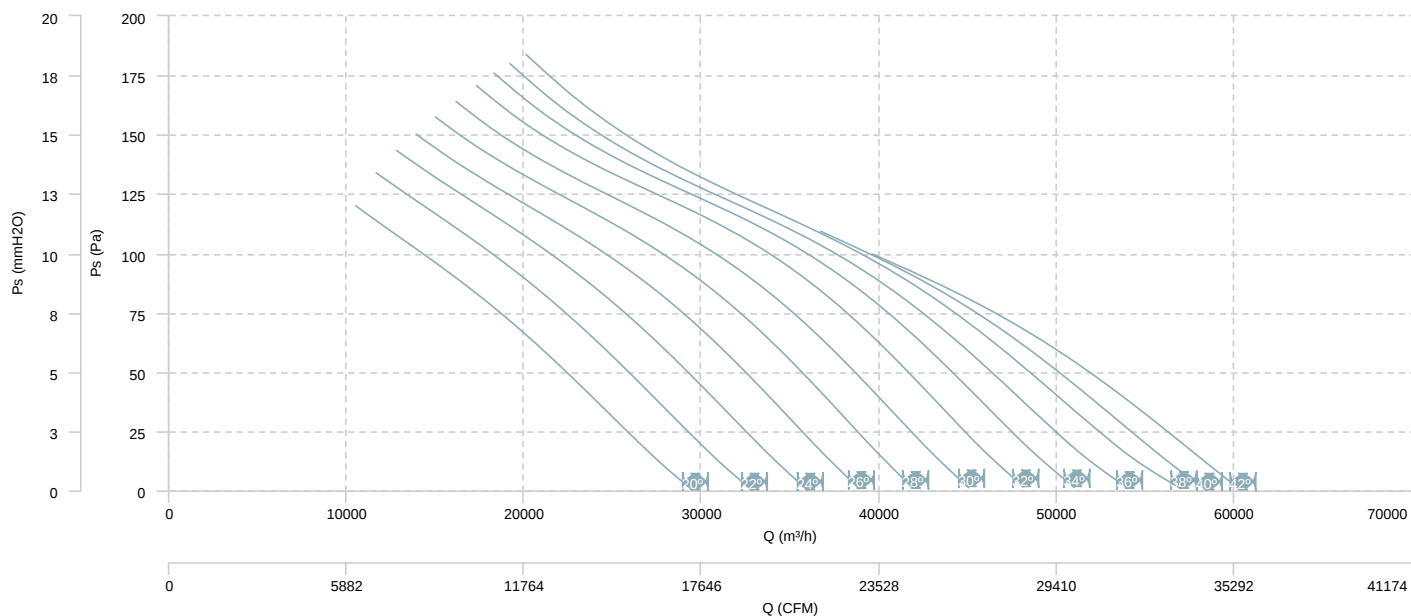


AIR FLOW - MECHANICAL POWER (4 poles)

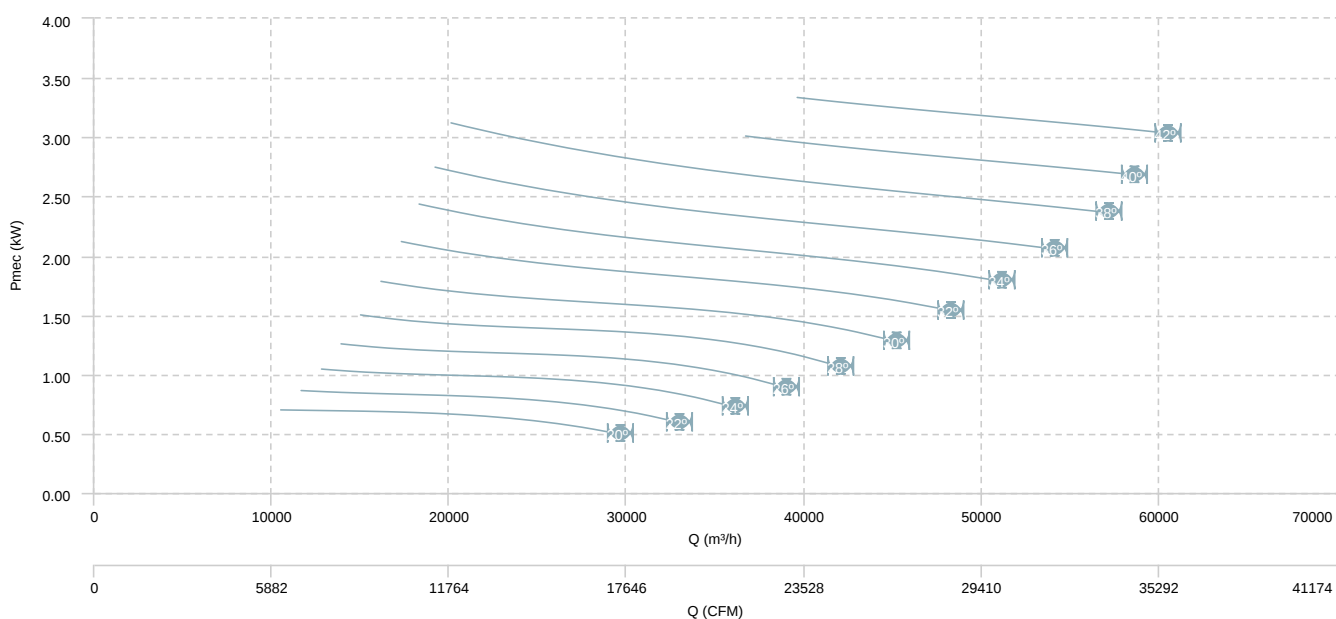


HBF 125 T4/T8 (A6:3) F300

AIR FLOW - PRESSURE (8 poles)

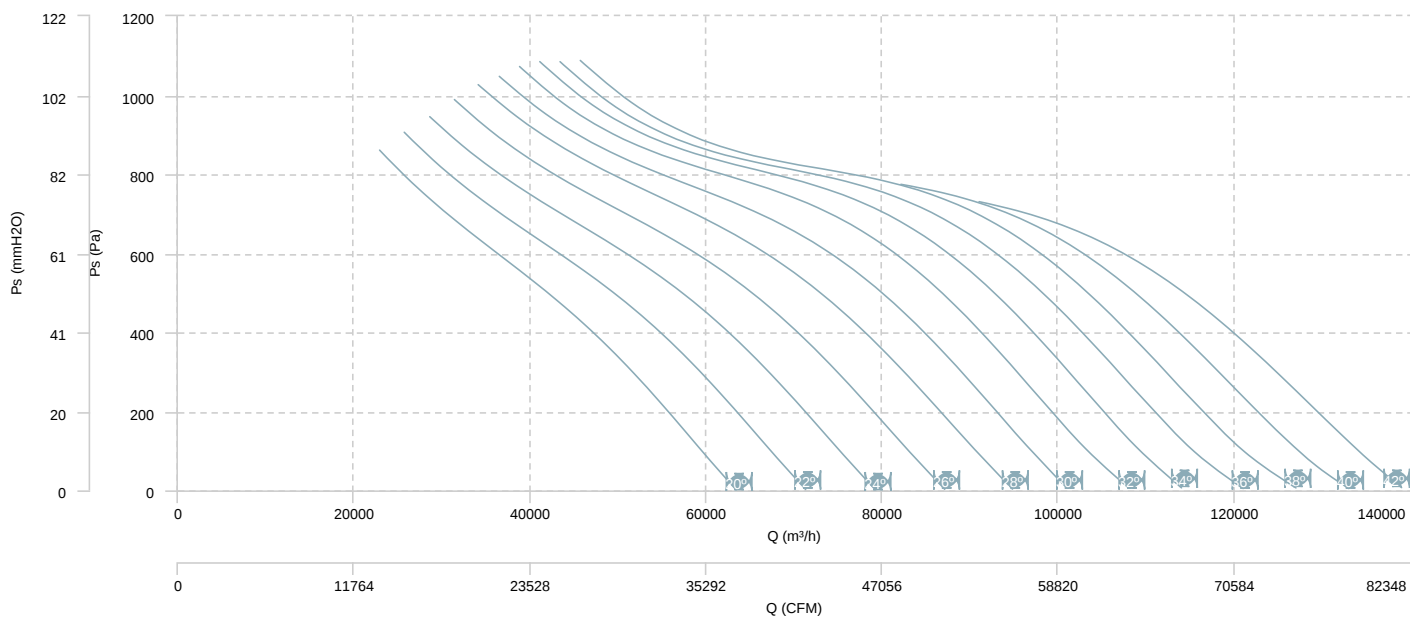


AIR FLOW - MECHANICAL POWER (8 poles)

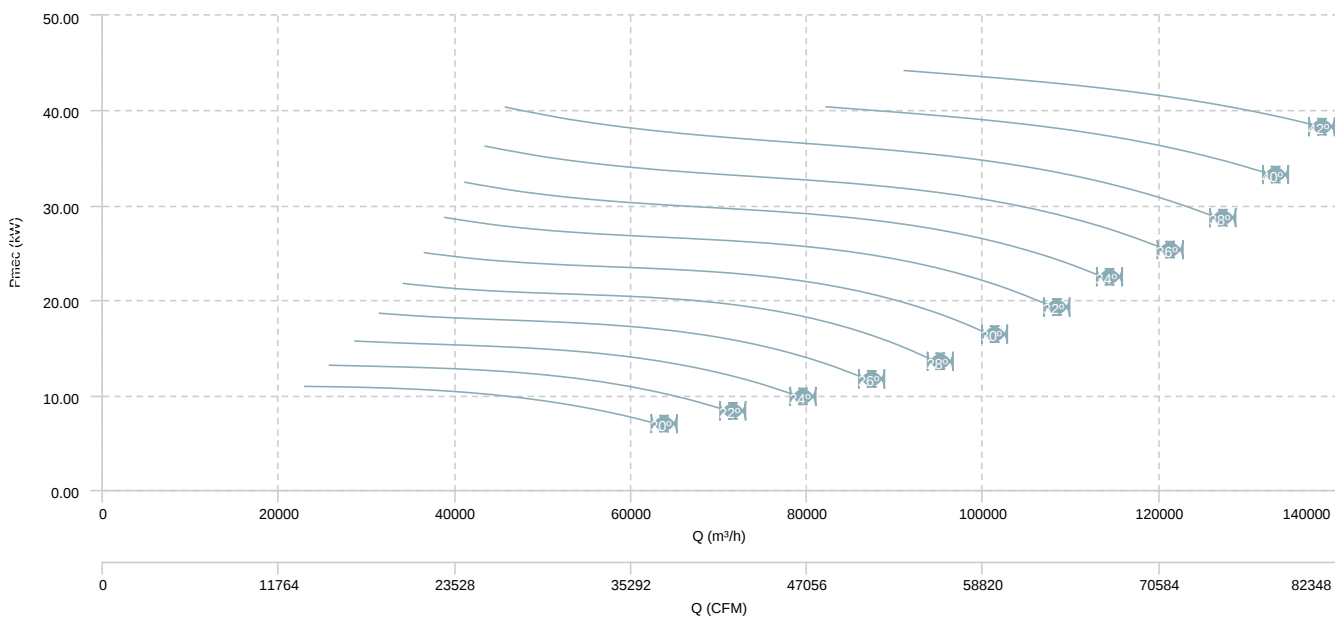


HBF 125 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (4 poles)

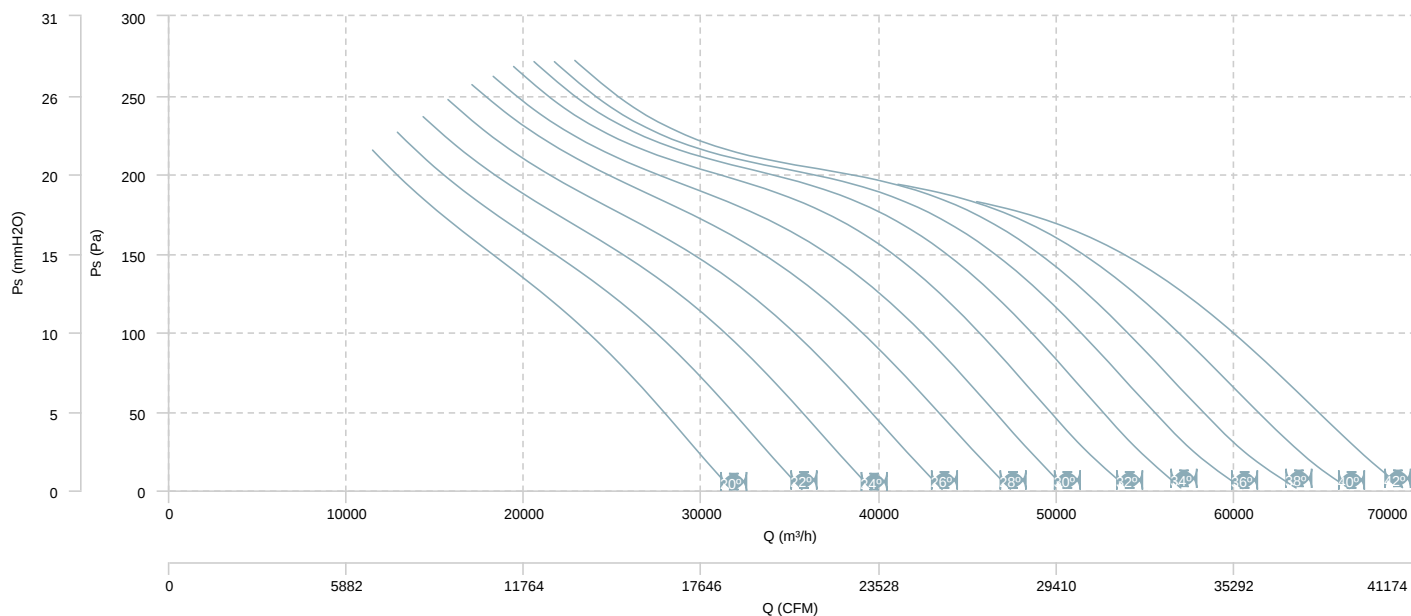


AIR FLOW - MECHANICAL POWER (4 poles)

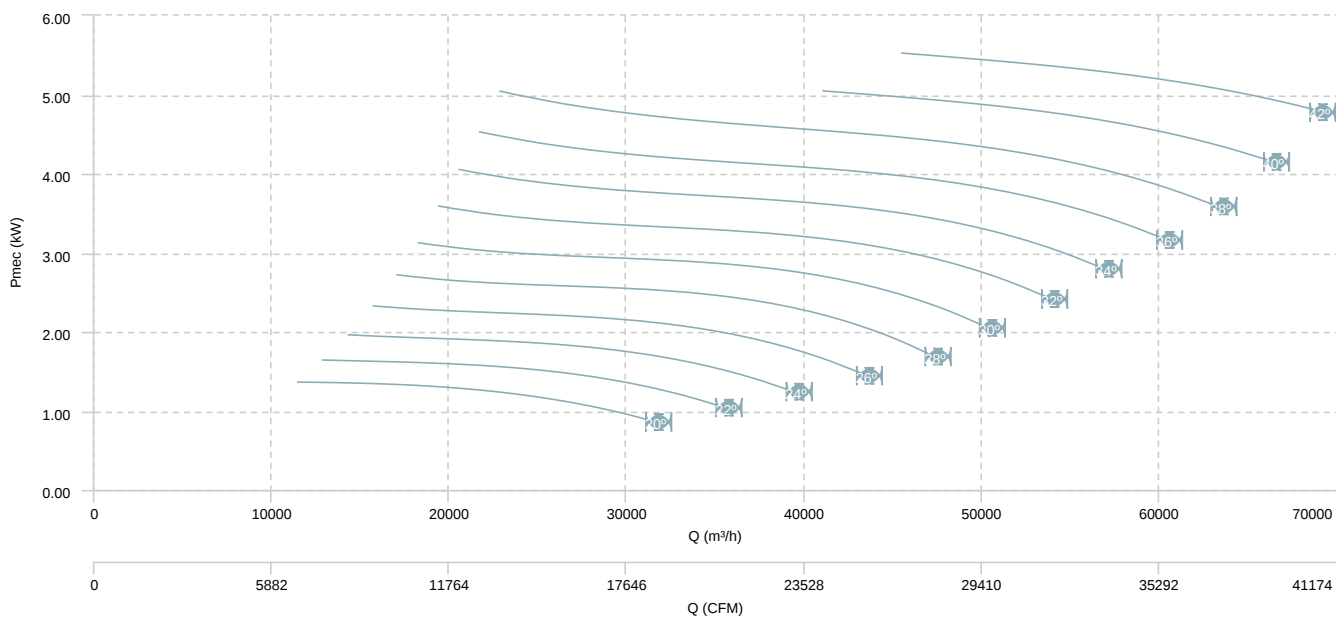


HBF 125 T4/T8 (A6:6) F300

AIR FLOW - PRESSURE (8 poles)



AIR FLOW - MECHANICAL POWER (8 poles)



Sound data

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 45 T4 (A2:6) F300 (20º)	Inlet	47	54	68	67	71	72	72	66	78
HBF 45 T4 (A2:6) F300 (25º)	Inlet	39	49	60	67	72	70	70	66	77
HBF 45 T4 (A2:6) F300 (27,5º)	Inlet	44	53	61	68	71	71	72	67	77
HBF 45 T4 (A2:6) F300 (30º)	Inlet	45	53	61	67	70	70	71	66	76
HBF 45 T4 (A2:6) F300 (32,5º)	Inlet	46	53	60	65	67	69	70	64	75
HBF 45 T4 (A2:6) F300 (35º)	Inlet	47	54	60	64	67	68	70	64	74
HBF 45 T4 (A2:6) F300 (37,5º)	Inlet	47	54	59	64	66	68	69	63	74
HBF 45 T4 (A2:6) F300 (40º)	Inlet	47	54	60	64	67	68	69	63	74
HBF 45 T4 (A2:6) F300 (42,5º)	Inlet	48	55	60	64	67	69	69	63	74
HBF 45 T4 (A2:6) F300 (45º)	Inlet	49	55	63	66	69	71	72	65	77
HBF 45 T4 (A2:9) F300 (20º)	Inlet	40	46	54	57	61	63	63	57	68
HBF 45 T4 (A2:9) F300 (25º)	Inlet	49	56	63	67	72	72	72	64	78
HBF 45 T4 (A2:9) F300 (27,5º)	Inlet	48	55	63	68	72	72	73	66	78
HBF 45 T4 (A2:9) F300 (30º)	Inlet	47	54	63	68	72	72	72	66	78
HBF 45 T4 (A2:9) F300 (32,5º)	Inlet	46	53	62	67	71	71	72	66	77
HBF 45 T4 (A2:9) F300 (35º)	Inlet	46	53	63	67	71	71	73	67	78
HBF 45 T4 (A2:9) F300 (37,5º)	Inlet	46	53	63	67	72	72	73	68	78
HBF 45 T4 (A2:9) F300 (40º)	Inlet	46	53	64	67	70	71	73	67	77
HBF 45 T4 (A2:9) F300 (42,5º)	Inlet	45	53	64	66	70	71	72	66	77
HBF 45 T4 (A2:9) F300 (45º)	Inlet	47	54	67	67	70	71	72	66	78
HBF 50 T4 (A2:6) F300 (20º)	Inlet	51	57	71	71	74	75	76	70	81
HBF 50 T4 (A2:6) F300 (25º)	Inlet	42	53	64	71	75	73	74	69	80
HBF 50 T4 (A2:6) F300 (27,5º)	Inlet	48	57	65	72	75	75	76	70	81
HBF 50 T4 (A2:6) F300 (30º)	Inlet	49	57	65	71	74	74	75	70	80
HBF 50 T4 (A2:6) F300 (32,5º)	Inlet	51	58	64	70	72	74	74	69	79
HBF 50 T4 (A2:6) F300 (35º)	Inlet	51	58	64	69	71	73	74	68	79
HBF 50 T4 (A2:6) F300 (37,5º)	Inlet	51	58	64	68	71	72	73	67	78
HBF 50 T4 (A2:6) F300 (40º)	Inlet	51	58	64	68	71	73	73	67	78
HBF 50 T4 (A2:6) F300 (42,5º)	Inlet	52	59	64	68	71	73	73	67	78
HBF 50 T4 (A2:6) F300 (45º)	Inlet	53	59	66	69	73	75	75	69	80
HBF 50 T4 (A2:9) F300 (20º)	Inlet	44	50	58	61	65	67	67	61	72
HBF 50 T4 (A2:9) F300 (25º)	Inlet	52	59	66	70	75	75	75	67	81
HBF 50 T4 (A2:9) F300 (27,5º)	Inlet	51	59	67	71	76	76	76	69	82
HBF 50 T4 (A2:9) F300 (30º)	Inlet	51	58	67	71	75	76	76	70	81
HBF 50 T4 (A2:9) F300 (32,5º)	Inlet	50	57	66	71	75	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
HBF 50 T4 (A2:9) F300 (35º)	Inlet	50	56	66	71	75	75	76	71	81
HBF 50 T4 (A2:9) F300 (37,5º)	Inlet	49	56	66	71	75	75	77	71	82
HBF 50 T4 (A2:9) F300 (40º)	Inlet	49	56	67	70	74	75	76	70	81
HBF 50 T4 (A2:9) F300 (42,5º)	Inlet	49	56	68	70	73	74	76	70	81
HBF 50 T4 (A2:9) F300 (45º)	Inlet	50	57	70	70	74	75	76	70	81
HBF 56 T4 (A2:6) F300 (20º)	Inlet	54	60	72	74	77	78	78	73	84
HBF 56 T4 (A2:6) F300 (25º)	Inlet	46	55	65	74	76	76	77	72	82
HBF 56 T4 (A2:6) F300 (27,5º)	Inlet	50	58	67	74	76	77	78	72	83
HBF 56 T4 (A2:6) F300 (30º)	Inlet	51	58	66	73	75	76	77	72	82
HBF 56 T4 (A2:6) F300 (32,5º)	Inlet	52	59	66	71	74	75	76	71	81
HBF 56 T4 (A2:6) F300 (35º)	Inlet	53	60	66	71	73	75	76	70	81
HBF 56 T4 (A2:6) F300 (37,5º)	Inlet	53	60	65	71	73	76	76	70	81
HBF 56 T4 (A2:6) F300 (40º)	Inlet	54	61	66	71	74	76	76	70	81
HBF 56 T4 (A2:6) F300 (42,5º)	Inlet	54	62	67	72	74	76	77	70	82
HBF 56 T4 (A2:6) F300 (45º)	Inlet	56	61	69	72	75	77	77	71	82
HBF 56 T4 (A2:9) F300 (20º)	Inlet	47	51	60	63	66	68	68	62	73
HBF 56 T4 (A2:9) F300 (25º)	Inlet	54	59	68	74	77	77	77	69	83
HBF 56 T4 (A2:9) F300 (27,5º)	Inlet	54	59	68	73	77	77	78	71	83
HBF 56 T4 (A2:9) F300 (30º)	Inlet	54	59	68	74	77	77	78	72	83
HBF 56 T4 (A2:9) F300 (32,5º)	Inlet	54	59	68	74	77	78	79	73	84
HBF 56 T4 (A2:9) F300 (35º)	Inlet	53	59	69	74	77	78	79	73	84
HBF 56 T4 (A2:9) F300 (37,5º)	Inlet	53	59	69	74	77	78	79	73	84
HBF 56 T4 (A2:9) F300 (40º)	Inlet	53	60	69	73	77	78	79	73	84
HBF 56 T4 (A2:9) F300 (42,5º)	Inlet	53	60	70	73	77	77	78	73	83
HBF 56 T4 (A2:9) F300 (45º)	Inlet	54	60	71	73	77	78	78	73	84
HBF 63 T4 (A2:6) F300 (20º)	Inlet	58	65	70	76	79	81	81	76	86
HBF 63 T4 (A2:6) F300 (25º)	Inlet	49	52	65	74	74	74	76	71	81
HBF 63 T4 (A2:6) F300 (27,5º)	Inlet	53	58	68	76	77	78	79	74	84
HBF 63 T4 (A2:6) F300 (30º)	Inlet	53	59	68	75	77	78	79	74	84
HBF 63 T4 (A2:6) F300 (32,5º)	Inlet	54	61	68	74	76	78	78	73	84
HBF 63 T4 (A2:6) F300 (35º)	Inlet	54	61	67	73	76	78	78	73	83
HBF 63 T4 (A2:6) F300 (37,5º)	Inlet	54	61	66	73	75	78	78	72	83
HBF 63 T4 (A2:6) F300 (40º)	Inlet	55	62	67	73	76	78	78	72	83
HBF 63 T4 (A2:6) F300 (42,5º)	Inlet	56	62	69	74	76	78	78	72	84
HBF 63 T4 (A2:6) F300 (45º)	Inlet	58	63	70	75	78	79	79	73	84
HBF 63 T4 (A2:9) F300 (20º)	Inlet	49	53	62	65	69	70	69	63	75
HBF 63 T4 (A2:9) F300 (25º)	Inlet	57	60	72	77	79	78	80	74	85
HBF 63 T4 (A2:9) F300 (27,5º)	Inlet	57	61	71	77	79	79	80	75	85
HBF 63 T4 (A2:9) F300 (30º)	Inlet	58	62	71	77	79	80	81	75	86

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 63 T4 (A2:9) F300 (32,5º)	Inlet	58	63	71	77	79	80	81	76	86
HBF 63 T4 (A2:9) F300 (35º)	Inlet	58	63	71	77	79	81	82	76	87
HBF 63 T4 (A2:9) F300 (37,5º)	Inlet	57	64	71	77	80	81	82	76	87
HBF 63 T4 (A2:9) F300 (40º)	Inlet	57	64	71	77	79	81	81	76	87
HBF 63 T4 (A2:9) F300 (42,5º)	Inlet	58	64	70	76	79	81	81	76	86
HBF 63 T4 (A2:9) F300 (45º)	Inlet	58	64	70	76	79	81	81	76	86
HBF 71 T4 (A2:6) F300 (20º)	Inlet	60	68	74	79	82	83	83	77	89
HBF 71 T4 (A2:6) F300 (25º)	Inlet	55	61	73	80	83	82	84	78	89
HBF 71 T4 (A2:6) F300 (27,5º)	Inlet	57	63	72	79	82	82	84	78	89
HBF 71 T4 (A2:6) F300 (30º)	Inlet	57	64	72	79	81	82	83	78	88
HBF 71 T4 (A2:6) F300 (32,5º)	Inlet	58	65	71	78	80	82	82	77	87
HBF 71 T4 (A2:6) F300 (35º)	Inlet	58	65	70	77	79	81	81	76	86
HBF 71 T4 (A2:6) F300 (37,5º)	Inlet	57	64	70	75	78	80	81	74	86
HBF 71 T4 (A2:6) F300 (40º)	Inlet	58	66	71	76	79	81	81	75	86
HBF 71 T4 (A2:6) F300 (42,5º)	Inlet	60	66	72	77	80	82	81	75	87
HBF 71 T4 (A2:6) F300 (45º)	Inlet	61	66	74	77	81	82	81	75	87
HBF 71 T4 (A2:9) F300 (20º)	Inlet	53	57	65	68	71	72	72	65	78
HBF 71 T4 (A2:9) F300 (25º)	Inlet	61	67	76	83	86	85	87	80	92
HBF 71 T4 (A2:9) F300 (27,5º)	Inlet	61	67	75	81	84	84	86	79	91
HBF 71 T4 (A2:9) F300 (30º)	Inlet	61	67	74	81	83	84	85	79	90
HBF 71 T4 (A2:9) F300 (32,5º)	Inlet	61	67	73	80	82	83	84	79	89
HBF 71 T4 (A2:9) F300 (35º)	Inlet	60	67	73	80	83	84	84	79	89
HBF 71 T4 (A2:9) F300 (37,5º)	Inlet	60	67	73	80	83	84	84	78	89
HBF 71 T4 (A2:9) F300 (40º)	Inlet	61	68	74	79	83	84	84	78	90
HBF 71 T4 (A2:9) F300 (42,5º)	Inlet	62	69	74	79	83	84	84	78	90
HBF 71 T4 (A2:9) F300 (45º)	Inlet	61	68	74	79	82	84	83	77	89
HBF 80 T4 (A2:6) F300 (20º)	Inlet	64	72	78	81	84	86	85	79	91
HBF 80 T4 (A2:6) F300 (25º)	Inlet	55	62	72	80	84	83	85	80	90
HBF 80 T4 (A2:6) F300 (27,5º)	Inlet	58	65	73	80	83	84	85	79	90
HBF 80 T4 (A2:6) F300 (30º)	Inlet	59	66	73	80	83	84	85	79	90
HBF 80 T4 (A2:6) F300 (32,5º)	Inlet	60	67	73	79	82	84	85	79	90
HBF 80 T4 (A2:6) F300 (35º)	Inlet	61	68	74	79	82	85	85	78	90
HBF 80 T4 (A2:6) F300 (37,5º)	Inlet	62	69	75	79	82	85	84	77	89
HBF 80 T4 (A2:6) F300 (40º)	Inlet	62	69	75	79	82	84	83	77	89
HBF 80 T4 (A2:6) F300 (42,5º)	Inlet	62	70	75	79	82	83	83	76	88
HBF 80 T4 (A2:6) F300 (45º)	Inlet	62	70	76	79	82	83	83	76	89
HBF 80 T4 (A2:9) F300 (20º)	Inlet	53	60	67	70	73	74	74	67	80
HBF 80 T4 (A2:9) F300 (25º)	Inlet	60	72	79	90	92	90	93	84	98
HBF 80 T4 (A2:9) F300 (27,5º)	Inlet	62	72	77	87	89	89	90	83	95

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 80 T4 (A2:9) F300 (30º)	Inlet	63	72	77	86	89	89	90	83	95
HBF 80 T4 (A2:9) F300 (32,5º)	Inlet	64	71	76	84	87	88	89	83	94
HBF 80 T4 (A2:9) F300 (35º)	Inlet	63	70	76	83	87	88	88	82	93
HBF 80 T4 (A2:9) F300 (37,5º)	Inlet	63	70	76	82	86	88	87	81	93
HBF 80 T4 (A2:9) F300 (40º)	Inlet	64	71	76	82	85	87	87	80	92
HBF 80 T4 (A2:9) F300 (42,5º)	Inlet	65	72	77	81	85	87	86	80	92
HBF 80 T4 (A2:9) F300 (45º)	Inlet	64	72	78	81	84	86	85	79	91
HBF 90 T4 (A6:3) F300 (20º)	Inlet	68	78	83	89	90	91	92	86	97
HBF 90 T4 (A6:3) F300 (22º)	Inlet	60	64	73	75	79	81	84	78	88
HBF 90 T4 (A6:3) F300 (24º)	Inlet	62	65	74	77	81	83	85	79	89
HBF 90 T4 (A6:3) F300 (26º)	Inlet	63	67	76	79	83	84	86	80	90
HBF 90 T4 (A6:3) F300 (28º)	Inlet	64	69	77	81	84	85	87	81	92
HBF 90 T4 (A6:3) F300 (30º)	Inlet	65	70	78	83	85	87	88	82	93
HBF 90 T4 (A6:3) F300 (32º)	Inlet	66	72	79	85	86	88	89	83	94
HBF 90 T4 (A6:3) F300 (34º)	Inlet	66	72	79	86	87	88	90	84	95
HBF 90 T4 (A6:3) F300 (36º)	Inlet	66	72	80	87	87	89	90	84	95
HBF 90 T4 (A6:3) F300 (38º)	Inlet	66	73	80	88	88	90	90	84	96
HBF 90 T4 (A6:3) F300 (40º)	Inlet	66	74	81	89	89	91	91	85	97
HBF 90 T4 (A6:3) F300 (42º)	Inlet	67	75	82	90	90	92	92	86	98
HBF 90 T4 (A6:6) F300 (20º)	Inlet	58	66	74	81	82	84	83	78	89
HBF 90 T4 (A6:6) F300 (22º)	Inlet	65	75	82	89	93	91	91	86	98
HBF 90 T4 (A6:6) F300 (24º)	Inlet	66	76	82	89	93	91	92	87	98
HBF 90 T4 (A6:6) F300 (26º)	Inlet	67	76	83	90	93	92	93	88	99
HBF 90 T4 (A6:6) F300 (28º)	Inlet	68	77	83	90	93	92	93	88	99
HBF 90 T4 (A6:6) F300 (30º)	Inlet	68	78	84	90	93	93	93	88	99
HBF 90 T4 (A6:6) F300 (32º)	Inlet	69	78	84	91	92	93	94	89	99
HBF 90 T4 (A6:6) F300 (34º)	Inlet	68	77	82	89	90	91	93	87	98
HBF 90 T4 (A6:6) F300 (36º)	Inlet	67	75	81	87	89	90	91	86	96
HBF 90 T4 (A6:6) F300 (38º)	Inlet	66	75	81	87	88	90	91	85	96
HBF 90 T4 (A6:6) F300 (40º)	Inlet	67	76	82	88	89	90	91	86	96
HBF 90 T4 (A6:6) F300 (42º)	Inlet	68	77	82	88	89	91	92	86	97
HBF 100 T4 (A6:3) F300 (20º)	Inlet	73	81	87	92	93	95	95	89	101
HBF 100 T4 (A6:3) F300 (22º)	Inlet	64	71	77	81	87	89	92	85	95
HBF 100 T4 (A6:3) F300 (24º)	Inlet	66	73	78	83	88	89	93	85	96
HBF 100 T4 (A6:3) F300 (26º)	Inlet	66	73	79	83	88	89	92	85	96
HBF 100 T4 (A6:3) F300 (28º)	Inlet	66	73	79	84	87	89	91	84	95
HBF 100 T4 (A6:3) F300 (30º)	Inlet	66	72	79	84	87	88	90	84	94
HBF 100 T4 (A6:3) F300 (32º)	Inlet	66	72	79	84	87	88	89	84	94
HBF 100 T4 (A6:3) F300 (34º)	Inlet	68	74	81	86	88	89	90	85	95

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 100 T4 (A6:3) F300 (36º)	Inlet	69	75	82	88	89	91	91	86	96
HBF 100 T4 (A6:3) F300 (38º)	Inlet	70	76	83	89	90	91	91	86	97
HBF 100 T4 (A6:3) F300 (40º)	Inlet	70	77	83	89	91	92	92	87	98
HBF 100 T4 (A6:3) F300 (42º)	Inlet	70	77	83	90	92	93	93	88	99
HBF 100 T4 (A6:6) F300 (20º)	Inlet	60	68	74	81	83	84	84	79	90
HBF 100 T4 (A6:6) F300 (22º)	Inlet	69	80	86	96	96	96	96	92	103
HBF 100 T4 (A6:6) F300 (24º)	Inlet	70	81	86	95	96	96	96	92	102
HBF 100 T4 (A6:6) F300 (26º)	Inlet	71	81	87	95	96	96	96	92	102
HBF 100 T4 (A6:6) F300 (28º)	Inlet	72	82	88	95	96	96	97	92	103
HBF 100 T4 (A6:6) F300 (30º)	Inlet	73	82	89	95	96	97	97	93	103
HBF 100 T4 (A6:6) F300 (32º)	Inlet	74	82	89	95	96	97	98	93	103
HBF 100 T4 (A6:6) F300 (34º)	Inlet	73	81	88	93	95	95	96	92	102
HBF 100 T4 (A6:6) F300 (36º)	Inlet	72	80	87	91	93	94	95	90	100
HBF 100 T4 (A6:6) F300 (38º)	Inlet	72	80	86	90	92	93	94	89	100
HBF 100 T4 (A6:6) F300 (40º)	Inlet	72	81	87	91	93	94	95	89	100
HBF 100 T4 (A6:6) F300 (42º)	Inlet	73	81	87	91	94	95	95	90	101
HBF 112 T4 (A6:3) F300 (20º)	Inlet	79	84	92	95	98	99	99	93	104
HBF 112 T4 (A6:3) F300 (22º)	Inlet	67	75	80	86	92	93	95	89	99
HBF 112 T4 (A6:3) F300 (24º)	Inlet	69	76	81	87	92	94	95	90	100
HBF 112 T4 (A6:3) F300 (26º)	Inlet	70	77	82	88	93	94	96	90	100
HBF 112 T4 (A6:3) F300 (28º)	Inlet	71	77	83	89	93	94	96	90	100
HBF 112 T4 (A6:3) F300 (30º)	Inlet	71	77	84	89	92	94	96	90	100
HBF 112 T4 (A6:3) F300 (32º)	Inlet	71	77	84	89	92	93	95	90	99
HBF 112 T4 (A6:3) F300 (34º)	Inlet	72	77	85	90	92	93	95	90	100
HBF 112 T4 (A6:3) F300 (36º)	Inlet	73	78	85	90	92	93	95	90	100
HBF 112 T4 (A6:3) F300 (38º)	Inlet	73	78	86	91	93	94	95	90	100
HBF 112 T4 (A6:3) F300 (40º)	Inlet	73	79	86	91	93	94	95	90	100
HBF 112 T4 (A6:3) F300 (42º)	Inlet	73	79	85	91	94	95	95	90	101
HBF 112 T4 (A6:6) F300 (20º)	Inlet	64	71	76	82	85	86	86	81	92
HBF 112 T4 (A6:6) F300 (22º)	Inlet	70	81	87	98	99	98	99	94	105
HBF 112 T4 (A6:6) F300 (24º)	Inlet	71	81	87	97	98	98	99	93	104
HBF 112 T4 (A6:6) F300 (26º)	Inlet	71	81	87	96	97	97	98	92	104
HBF 112 T4 (A6:6) F300 (28º)	Inlet	73	81	87	96	97	98	98	92	104
HBF 112 T4 (A6:6) F300 (30º)	Inlet	74	82	88	95	97	98	98	92	104
HBF 112 T4 (A6:6) F300 (32º)	Inlet	75	82	87	94	96	98	98	91	103
HBF 112 T4 (A6:6) F300 (34º)	Inlet	74	82	87	93	95	97	97	90	102
HBF 112 T4 (A6:6) F300 (36º)	Inlet	74	81	87	91	94	96	97	89	102
HBF 112 T4 (A6:6) F300 (38º)	Inlet	75	82	88	91	95	96	97	90	102
HBF 112 T4 (A6:6) F300 (40º)	Inlet	77	83	90	93	96	98	98	91	103

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 112 T4 (A6:6) F300 (42º)	Inlet	79	85	92	95	98	99	100	93	105
HBF 125 T4 (A6:3) F300 (20º)	Inlet	80	87	93	96	99	100	100	94	106
HBF 125 T4 (A6:3) F300 (22º)	Inlet	70	80	88	94	97	98	99	98	104
HBF 125 T4 (A6:3) F300 (24º)	Inlet	71	81	89	94	98	98	99	97	105
HBF 125 T4 (A6:3) F300 (26º)	Inlet	73	81	89	94	98	98	100	97	105
HBF 125 T4 (A6:3) F300 (28º)	Inlet	74	82	90	95	98	98	100	97	105
HBF 125 T4 (A6:3) F300 (30º)	Inlet	75	83	91	95	98	98	100	97	105
HBF 125 T4 (A6:3) F300 (32º)	Inlet	76	83	91	95	98	98	100	97	105
HBF 125 T4 (A6:3) F300 (34º)	Inlet	76	83	91	95	98	98	100	96	105
HBF 125 T4 (A6:3) F300 (36º)	Inlet	76	83	91	95	97	97	98	95	104
HBF 125 T4 (A6:3) F300 (38º)	Inlet	77	83	91	95	97	97	98	94	104
HBF 125 T4 (A6:3) F300 (40º)	Inlet	78	83	91	95	98	98	98	95	104
HBF 125 T4 (A6:3) F300 (42º)	Inlet	78	84	91	95	98	99	99	95	105
HBF 125 T4 (A6:6) F300 (20º)	Inlet	69	75	82	87	89	90	90	86	96
HBF 125 T4 (A6:6) F300 (22º)	Inlet	72	83	89	96	100	100	100	97	106
HBF 125 T4 (A6:6) F300 (24º)	Inlet	73	84	90	97	101	101	101	98	107
HBF 125 T4 (A6:6) F300 (26º)	Inlet	75	85	91	97	101	102	102	98	108
HBF 125 T4 (A6:6) F300 (28º)	Inlet	77	86	92	98	102	102	103	98	108
HBF 125 T4 (A6:6) F300 (30º)	Inlet	79	87	93	99	102	103	104	99	109
HBF 125 T4 (A6:6) F300 (32º)	Inlet	81	88	94	99	103	104	105	100	110
HBF 125 T4 (A6:6) F300 (34º)	Inlet	79	86	92	97	100	102	102	97	108
HBF 125 T4 (A6:6) F300 (36º)	Inlet	77	84	90	95	98	99	100	94	105
HBF 125 T4 (A6:6) F300 (38º)	Inlet	76	83	89	94	97	98	99	93	104
HBF 125 T4 (A6:6) F300 (40º)	Inlet	77	84	90	94	97	98	99	93	104
HBF 125 T4 (A6:6) F300 (42º)	Inlet	79	86	92	95	98	99	100	93	105

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
HBF 45 T6 (A2:6) F300 (20º)	Inlet	38	45	59	58	61	62	63	57	68
HBF 45 T6 (A2:6) F300 (25º)	Inlet	30	40	51	58	62	60	61	57	67
HBF 45 T6 (A2:6) F300 (27,5º)	Inlet	35	43	52	58	61	61	62	57	68
HBF 45 T6 (A2:6) F300 (30º)	Inlet	35	43	51	57	60	61	62	56	67
HBF 45 T6 (A2:6) F300 (32,5º)	Inlet	37	44	50	56	58	60	60	55	65
HBF 45 T6 (A2:6) F300 (35º)	Inlet	37	45	50	55	57	59	60	54	65
HBF 45 T6 (A2:6) F300 (37,5º)	Inlet	37	44	50	54	57	59	60	53	64
HBF 45 T6 (A2:6) F300 (40º)	Inlet	38	45	50	54	57	59	60	53	65

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 45 T6 (A2:6) F300 (42,5º)	Inlet	38	45	51	54	57	60	60	53	65
HBF 45 T6 (A2:6) F300 (45º)	Inlet	40	46	53	56	60	62	62	56	67
HBF 45 T6 (A2:9) F300 (20º)	Inlet	53	59	67	70	74	76	76	70	81
HBF 45 T6 (A2:9) F300 (25º)	Inlet	39	46	53	58	62	63	63	55	68
HBF 45 T6 (A2:9) F300 (27,5º)	Inlet	38	45	53	58	62	63	63	56	69
HBF 45 T6 (A2:9) F300 (30º)	Inlet	38	45	53	58	62	62	63	56	68
HBF 45 T6 (A2:9) F300 (32,5º)	Inlet	37	43	53	58	62	62	63	57	68
HBF 45 T6 (A2:9) F300 (35º)	Inlet	37	43	53	58	62	62	63	58	68
HBF 45 T6 (A2:9) F300 (37,5º)	Inlet	36	43	53	58	62	62	64	59	69
HBF 45 T6 (A2:9) F300 (40º)	Inlet	36	43	54	57	61	62	63	57	68
HBF 45 T6 (A2:9) F300 (42,5º)	Inlet	36	43	55	57	60	61	63	56	67
HBF 45 T6 (A2:9) F300 (45º)	Inlet	37	44	58	58	61	62	63	57	68
HBF 50 T6 (A2:6) F300 (20º)	Inlet	41	48	62	61	65	65	66	60	72
HBF 50 T6 (A2:6) F300 (25º)	Inlet	33	43	54	61	66	64	64	60	71
HBF 50 T6 (A2:6) F300 (27,5º)	Inlet	39	47	56	62	65	65	66	61	72
HBF 50 T6 (A2:6) F300 (30º)	Inlet	39	48	56	62	65	65	66	60	71
HBF 50 T6 (A2:6) F300 (32,5º)	Inlet	41	49	55	60	63	64	65	59	70
HBF 50 T6 (A2:6) F300 (35º)	Inlet	42	49	54	59	62	63	65	59	69
HBF 50 T6 (A2:6) F300 (37,5º)	Inlet	42	49	54	59	61	63	64	58	69
HBF 50 T6 (A2:6) F300 (40º)	Inlet	42	49	54	58	61	63	64	57	69
HBF 50 T6 (A2:6) F300 (42,5º)	Inlet	42	49	55	58	61	63	63	57	69
HBF 50 T6 (A2:6) F300 (45º)	Inlet	43	50	57	60	64	66	66	60	71
HBF 50 T6 (A2:9) F300 (20º)	Inlet	57	61	69	72	76	78	77	71	83
HBF 50 T6 (A2:9) F300 (25º)	Inlet	42	50	56	61	65	66	66	58	71
HBF 50 T6 (A2:9) F300 (27,5º)	Inlet	42	49	57	62	66	67	67	60	72
HBF 50 T6 (A2:9) F300 (30º)	Inlet	42	49	57	62	66	66	67	60	72
HBF 50 T6 (A2:9) F300 (32,5º)	Inlet	40	47	57	62	65	65	66	61	72
HBF 50 T6 (A2:9) F300 (35º)	Inlet	40	47	57	61	65	66	67	61	72
HBF 50 T6 (A2:9) F300 (37,5º)	Inlet	40	47	57	61	66	66	67	62	72
HBF 50 T6 (A2:9) F300 (40º)	Inlet	40	47	58	61	65	65	67	61	72
HBF 50 T6 (A2:9) F300 (42,5º)	Inlet	40	47	59	60	64	65	66	60	71
HBF 50 T6 (A2:9) F300 (45º)	Inlet	41	48	61	61	64	65	66	60	71
HBF 56 T6 (A2:6) F300 (20º)	Inlet	44	51	63	64	67	69	69	64	74
HBF 56 T6 (A2:6) F300 (25º)	Inlet	37	45	56	64	66	66	67	63	73
HBF 56 T6 (A2:6) F300 (27,5º)	Inlet	41	49	57	64	66	67	68	63	73
HBF 56 T6 (A2:6) F300 (30º)	Inlet	41	49	57	64	66	67	68	62	73
HBF 56 T6 (A2:6) F300 (32,5º)	Inlet	43	50	57	62	64	66	67	61	72
HBF 56 T6 (A2:6) F300 (35º)	Inlet	44	51	56	62	64	66	67	61	72
HBF 56 T6 (A2:6) F300 (37,5º)	Inlet	43	50	56	62	64	66	67	61	72

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 56 T6 (A2:6) F300 (40º)	Inlet	44	51	57	62	64	66	67	61	72
HBF 56 T6 (A2:6) F300 (42,5º)	Inlet	45	52	58	62	65	67	67	61	72
HBF 56 T6 (A2:6) F300 (45º)	Inlet	46	51	59	63	66	68	68	61	73
HBF 56 T6 (A2:9) F300 (20º)	Inlet	59	63	71	75	78	79	79	73	85
HBF 56 T6 (A2:9) F300 (25º)	Inlet	45	50	58	64	67	68	68	60	73
HBF 56 T6 (A2:9) F300 (27,5º)	Inlet	44	50	58	64	67	68	68	62	74
HBF 56 T6 (A2:9) F300 (30º)	Inlet	44	50	59	64	67	68	69	62	74
HBF 56 T6 (A2:9) F300 (32,5º)	Inlet	45	50	59	64	68	68	69	64	74
HBF 56 T6 (A2:9) F300 (35º)	Inlet	44	50	59	64	68	68	70	64	74
HBF 56 T6 (A2:9) F300 (37,5º)	Inlet	43	50	59	64	68	68	70	64	75
HBF 56 T6 (A2:9) F300 (40º)	Inlet	44	50	60	64	67	68	69	64	74
HBF 56 T6 (A2:9) F300 (42,5º)	Inlet	44	51	60	64	67	68	69	63	74
HBF 56 T6 (A2:9) F300 (45º)	Inlet	44	51	62	64	67	68	69	63	74
HBF 63 T6 (A2:6) F300 (20º)	Inlet	48	55	61	67	70	71	72	66	77
HBF 63 T6 (A2:6) F300 (25º)	Inlet	40	43	56	65	65	65	67	61	72
HBF 63 T6 (A2:6) F300 (27,5º)	Inlet	44	49	59	66	68	69	69	64	75
HBF 63 T6 (A2:6) F300 (30º)	Inlet	44	50	58	66	67	69	69	64	75
HBF 63 T6 (A2:6) F300 (32,5º)	Inlet	44	51	58	65	67	69	69	64	74
HBF 63 T6 (A2:6) F300 (35º)	Inlet	44	52	57	64	66	68	69	63	74
HBF 63 T6 (A2:6) F300 (37,5º)	Inlet	44	51	57	63	66	68	68	63	73
HBF 63 T6 (A2:6) F300 (40º)	Inlet	45	52	58	64	66	69	69	63	74
HBF 63 T6 (A2:6) F300 (42,5º)	Inlet	47	53	59	64	67	69	69	63	74
HBF 63 T6 (A2:6) F300 (45º)	Inlet	48	53	61	65	68	70	69	63	75
HBF 63 T6 (A2:9) F300 (20º)	Inlet	62	66	75	78	81	82	81	75	87
HBF 63 T6 (A2:9) F300 (25º)	Inlet	48	51	62	68	70	69	70	65	76
HBF 63 T6 (A2:9) F300 (27,5º)	Inlet	48	52	61	67	69	70	71	65	76
HBF 63 T6 (A2:9) F300 (30º)	Inlet	48	52	61	67	69	70	71	66	76
HBF 63 T6 (A2:9) F300 (32,5º)	Inlet	49	54	61	67	70	71	72	67	77
HBF 63 T6 (A2:9) F300 (35º)	Inlet	48	54	62	68	70	71	72	67	77
HBF 63 T6 (A2:9) F300 (37,5º)	Inlet	48	54	62	68	70	72	72	67	77
HBF 63 T6 (A2:9) F300 (40º)	Inlet	48	54	61	67	70	71	72	67	77
HBF 63 T6 (A2:9) F300 (42,5º)	Inlet	48	54	61	67	70	71	72	67	77
HBF 63 T6 (A2:9) F300 (45º)	Inlet	48	55	61	67	70	71	72	66	77
HBF 71 T6 (A2:6) F300 (20º)	Inlet	51	59	64	69	72	74	74	67	79
HBF 71 T6 (A2:6) F300 (25º)	Inlet	46	51	63	70	74	73	75	68	80
HBF 71 T6 (A2:6) F300 (27,5º)	Inlet	48	54	63	70	72	73	74	69	79
HBF 71 T6 (A2:6) F300 (30º)	Inlet	48	54	62	69	72	73	74	68	79
HBF 71 T6 (A2:6) F300 (32,5º)	Inlet	49	55	62	69	70	72	73	68	78
HBF 71 T6 (A2:6) F300 (35º)	Inlet	48	55	61	67	69	72	72	66	77

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 71 T6 (A2:6) F300 (37,5º)	Inlet	48	55	60	66	68	71	71	65	76
HBF 71 T6 (A2:6) F300 (40º)	Inlet	49	56	62	67	70	72	71	65	77
HBF 71 T6 (A2:6) F300 (42,5º)	Inlet	50	57	63	68	71	72	72	66	77
HBF 71 T6 (A2:6) F300 (45º)	Inlet	52	57	64	68	71	72	72	65	78
HBF 71 T6 (A2:9) F300 (20º)	Inlet	63	70	77	80	83	83	83	76	89
HBF 71 T6 (A2:9) F300 (25º)	Inlet	51	57	67	74	76	76	77	70	82
HBF 71 T6 (A2:9) F300 (27,5º)	Inlet	51	57	65	72	74	75	76	70	81
HBF 71 T6 (A2:9) F300 (30º)	Inlet	51	57	65	71	74	75	76	70	81
HBF 71 T6 (A2:9) F300 (32,5º)	Inlet	51	58	64	70	73	74	75	69	80
HBF 71 T6 (A2:9) F300 (35º)	Inlet	51	58	64	70	73	74	75	69	80
HBF 71 T6 (A2:9) F300 (37,5º)	Inlet	51	58	63	70	73	75	74	69	80
HBF 71 T6 (A2:9) F300 (40º)	Inlet	52	59	64	70	73	75	75	69	80
HBF 71 T6 (A2:9) F300 (42,5º)	Inlet	52	59	65	70	74	75	75	69	80
HBF 71 T6 (A2:9) F300 (45º)	Inlet	51	59	64	69	73	74	74	68	79
HBF 80 T6 (A2:6) F300 (20º)	Inlet	55	62	69	72	75	76	75	69	81
HBF 80 T6 (A2:6) F300 (25º)	Inlet	45	52	63	70	74	74	76	70	80
HBF 80 T6 (A2:6) F300 (27,5º)	Inlet	49	56	63	70	74	75	76	70	81
HBF 80 T6 (A2:6) F300 (30º)	Inlet	49	56	63	70	74	75	76	70	81
HBF 80 T6 (A2:6) F300 (32,5º)	Inlet	51	58	63	70	73	75	75	69	80
HBF 80 T6 (A2:6) F300 (35º)	Inlet	52	59	64	70	73	75	75	69	80
HBF 80 T6 (A2:6) F300 (37,5º)	Inlet	53	60	65	69	73	75	75	68	80
HBF 80 T6 (A2:6) F300 (40º)	Inlet	53	60	66	69	72	74	74	67	79
HBF 80 T6 (A2:6) F300 (42,5º)	Inlet	53	60	66	69	72	74	73	67	79
HBF 80 T6 (A2:6) F300 (45º)	Inlet	53	60	67	70	73	74	74	67	79
HBF 80 T6 (A2:9) F300 (20º)	Inlet	67	76	83	91	92	93	93	87	99
HBF 80 T6 (A2:9) F300 (25º)	Inlet	51	63	69	80	82	81	83	75	88
HBF 80 T6 (A2:9) F300 (27,5º)	Inlet	53	62	68	77	80	80	81	74	86
HBF 80 T6 (A2:9) F300 (30º)	Inlet	54	62	68	77	79	80	80	74	86
HBF 80 T6 (A2:9) F300 (32,5º)	Inlet	54	62	67	75	78	79	79	73	85
HBF 80 T6 (A2:9) F300 (35º)	Inlet	54	61	67	74	77	79	78	72	84
HBF 80 T6 (A2:9) F300 (37,5º)	Inlet	54	61	66	72	77	78	78	71	83
HBF 80 T6 (A2:9) F300 (40º)	Inlet	54	61	67	72	76	78	77	71	83
HBF 80 T6 (A2:9) F300 (42,5º)	Inlet	55	62	68	72	76	78	77	71	82
HBF 80 T6 (A2:9) F300 (45º)	Inlet	55	63	68	72	75	77	76	70	82
HBF 90 T6 (A6:3) F300 (20º)	Inlet	59	68	74	79	81	82	83	77	88
HBF 90 T6 (A6:3) F300 (22º)	Inlet	51	54	63	65	70	72	74	69	78
HBF 90 T6 (A6:3) F300 (24º)	Inlet	52	56	65	68	72	73	76	70	80
HBF 90 T6 (A6:3) F300 (26º)	Inlet	54	58	66	70	73	75	77	71	81
HBF 90 T6 (A6:3) F300 (28º)	Inlet	55	59	67	72	74	76	78	72	82

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 90 T6 (A6:3) F300 (30º)	Inlet	56	61	69	74	76	77	79	73	83
HBF 90 T6 (A6:3) F300 (32º)	Inlet	57	62	70	76	77	78	80	74	85
HBF 90 T6 (A6:3) F300 (34º)	Inlet	57	63	70	77	78	79	80	74	85
HBF 90 T6 (A6:3) F300 (36º)	Inlet	57	63	70	78	78	80	80	74	86
HBF 90 T6 (A6:3) F300 (38º)	Inlet	57	64	71	79	79	80	81	75	86
HBF 90 T6 (A6:3) F300 (40º)	Inlet	57	65	72	80	80	82	82	76	87
HBF 90 T6 (A6:3) F300 (42º)	Inlet	57	65	73	81	81	83	83	77	88
HBF 90 T6 (A6:6) F300 (20º)	Inlet	70	78	84	91	93	94	93	88	99
HBF 90 T6 (A6:6) F300 (22º)	Inlet	56	66	72	79	84	82	82	77	88
HBF 90 T6 (A6:6) F300 (24º)	Inlet	57	66	73	80	84	82	83	77	89
HBF 90 T6 (A6:6) F300 (26º)	Inlet	58	67	73	80	84	83	83	78	89
HBF 90 T6 (A6:6) F300 (28º)	Inlet	58	68	74	81	83	83	84	79	89
HBF 90 T6 (A6:6) F300 (30º)	Inlet	59	68	74	81	83	83	84	79	90
HBF 90 T6 (A6:6) F300 (32º)	Inlet	60	69	74	81	83	83	84	79	90
HBF 90 T6 (A6:6) F300 (34º)	Inlet	58	67	73	80	81	82	83	78	88
HBF 90 T6 (A6:6) F300 (36º)	Inlet	57	66	71	78	79	81	82	76	87
HBF 90 T6 (A6:6) F300 (38º)	Inlet	57	66	71	77	79	80	81	76	86
HBF 90 T6 (A6:6) F300 (40º)	Inlet	58	67	72	78	79	81	82	76	87
HBF 90 T6 (A6:6) F300 (42º)	Inlet	59	67	73	79	80	81	82	76	87
HBF 100 T6 (A6:3) F300 (20º)	Inlet	63	71	78	82	84	85	86	80	91
HBF 100 T6 (A6:3) F300 (22º)	Inlet	55	62	68	72	78	79	83	75	86
HBF 100 T6 (A6:3) F300 (24º)	Inlet	56	63	69	73	78	80	83	76	86
HBF 100 T6 (A6:3) F300 (26º)	Inlet	57	63	69	74	78	80	83	76	86
HBF 100 T6 (A6:3) F300 (28º)	Inlet	56	63	69	74	78	79	82	75	86
HBF 100 T6 (A6:3) F300 (30º)	Inlet	56	63	69	74	77	79	81	74	85
HBF 100 T6 (A6:3) F300 (32º)	Inlet	57	63	69	75	77	79	80	74	85
HBF 100 T6 (A6:3) F300 (34º)	Inlet	59	64	71	76	79	80	81	75	86
HBF 100 T6 (A6:3) F300 (36º)	Inlet	60	66	73	78	80	81	81	76	87
HBF 100 T6 (A6:3) F300 (38º)	Inlet	60	67	74	79	81	82	82	77	88
HBF 100 T6 (A6:3) F300 (40º)	Inlet	60	67	74	80	82	83	83	77	88
HBF 100 T6 (A6:3) F300 (42º)	Inlet	60	68	74	81	82	83	83	78	89
HBF 100 T6 (A6:6) F300 (20º)	Inlet	73	80	86	92	94	95	95	91	101
HBF 100 T6 (A6:6) F300 (22º)	Inlet	60	71	76	86	87	87	86	82	93
HBF 100 T6 (A6:6) F300 (24º)	Inlet	60	71	77	86	87	86	86	82	93
HBF 100 T6 (A6:6) F300 (26º)	Inlet	61	71	77	85	86	86	87	82	93
HBF 100 T6 (A6:6) F300 (28º)	Inlet	63	72	78	86	87	87	87	83	93
HBF 100 T6 (A6:6) F300 (30º)	Inlet	64	73	79	86	87	87	88	84	94
HBF 100 T6 (A6:6) F300 (32º)	Inlet	65	73	80	86	87	87	88	84	94
HBF 100 T6 (A6:6) F300 (34º)	Inlet	64	72	79	83	85	86	87	82	92

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 100 T6 (A6:6) F300 (36º)	Inlet	63	71	77	81	84	84	86	81	91
HBF 100 T6 (A6:6) F300 (38º)	Inlet	62	71	77	80	83	84	85	80	90
HBF 100 T6 (A6:6) F300 (40º)	Inlet	63	71	77	81	84	84	85	80	91
HBF 100 T6 (A6:6) F300 (42º)	Inlet	63	72	78	82	84	85	86	80	91
HBF 112 T6 (A6:3) F300 (20º)	Inlet	69	75	82	85	88	89	90	83	95
HBF 112 T6 (A6:3) F300 (22º)	Inlet	58	65	71	77	82	84	86	80	90
HBF 112 T6 (A6:3) F300 (24º)	Inlet	59	66	72	78	83	84	86	80	90
HBF 112 T6 (A6:3) F300 (26º)	Inlet	60	67	73	79	83	84	86	81	91
HBF 112 T6 (A6:3) F300 (28º)	Inlet	61	68	74	80	83	84	87	81	91
HBF 112 T6 (A6:3) F300 (30º)	Inlet	62	68	74	80	83	84	86	81	91
HBF 112 T6 (A6:3) F300 (32º)	Inlet	62	67	74	80	82	83	86	80	90
HBF 112 T6 (A6:3) F300 (34º)	Inlet	63	68	75	80	83	84	85	80	90
HBF 112 T6 (A6:3) F300 (36º)	Inlet	63	68	76	81	83	84	85	81	90
HBF 112 T6 (A6:3) F300 (38º)	Inlet	64	69	76	81	83	84	85	81	91
HBF 112 T6 (A6:3) F300 (40º)	Inlet	64	69	76	82	84	85	86	81	91
HBF 112 T6 (A6:3) F300 (42º)	Inlet	63	70	76	82	84	85	85	81	91
HBF 112 T6 (A6:6) F300 (20º)	Inlet	78	84	91	96	99	100	99	95	105
HBF 112 T6 (A6:6) F300 (22º)	Inlet	60	71	78	89	90	88	89	84	96
HBF 112 T6 (A6:6) F300 (24º)	Inlet	61	72	78	88	89	88	89	84	95
HBF 112 T6 (A6:6) F300 (26º)	Inlet	62	71	77	87	88	88	88	83	94
HBF 112 T6 (A6:6) F300 (28º)	Inlet	63	72	78	86	88	88	89	82	94
HBF 112 T6 (A6:6) F300 (30º)	Inlet	65	72	78	86	88	88	89	82	94
HBF 112 T6 (A6:6) F300 (32º)	Inlet	65	72	78	85	87	88	89	82	94
HBF 112 T6 (A6:6) F300 (34º)	Inlet	65	72	78	83	86	87	88	81	93
HBF 112 T6 (A6:6) F300 (36º)	Inlet	65	72	78	82	85	87	87	80	92
HBF 112 T6 (A6:6) F300 (38º)	Inlet	66	73	79	82	85	87	88	80	92
HBF 112 T6 (A6:6) F300 (40º)	Inlet	68	74	81	84	87	88	89	82	94
HBF 112 T6 (A6:6) F300 (42º)	Inlet	70	76	82	85	89	90	90	83	95
HBF 125 T6 (A6:3) F300 (20º)	Inlet	71	78	83	87	90	90	91	84	96
HBF 125 T6 (A6:3) F300 (22º)	Inlet	60	70	79	84	88	88	90	88	95
HBF 125 T6 (A6:3) F300 (24º)	Inlet	62	71	79	85	88	88	90	88	95
HBF 125 T6 (A6:3) F300 (26º)	Inlet	63	72	80	85	88	89	90	88	96
HBF 125 T6 (A6:3) F300 (28º)	Inlet	64	73	81	85	89	89	90	88	96
HBF 125 T6 (A6:3) F300 (30º)	Inlet	66	73	81	86	89	89	91	88	96
HBF 125 T6 (A6:3) F300 (32º)	Inlet	67	74	82	86	89	89	91	87	96
HBF 125 T6 (A6:3) F300 (34º)	Inlet	67	74	82	86	89	89	90	87	95
HBF 125 T6 (A6:3) F300 (36º)	Inlet	67	74	81	85	88	88	89	86	95
HBF 125 T6 (A6:3) F300 (38º)	Inlet	68	74	81	85	88	88	89	85	94
HBF 125 T6 (A6:3) F300 (40º)	Inlet	69	74	81	86	88	89	89	85	95

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 125 T6 (A6:3) F300 (42º)	Inlet	69	75	81	86	89	89	89	85	95
HBF 125 T6 (A6:6) F300 (20º)	Inlet	50	56	63	67	71	72	73	66	78
HBF 125 T6 (A6:6) F300 (22º)	Inlet	62	74	79	87	91	91	91	87	97
HBF 125 T6 (A6:6) F300 (24º)	Inlet	64	75	81	88	92	92	92	88	98
HBF 125 T6 (A6:6) F300 (26º)	Inlet	66	76	81	88	92	92	93	89	98
HBF 125 T6 (A6:6) F300 (28º)	Inlet	68	77	82	89	93	93	94	89	99
HBF 125 T6 (A6:6) F300 (30º)	Inlet	70	78	83	89	93	93	95	90	100
HBF 125 T6 (A6:6) F300 (32º)	Inlet	72	79	84	90	94	94	96	91	101
HBF 125 T6 (A6:6) F300 (34º)	Inlet	70	77	82	88	91	92	94	88	98
HBF 125 T6 (A6:6) F300 (36º)	Inlet	68	75	80	85	89	89	91	85	96
HBF 125 T6 (A6:6) F300 (38º)	Inlet	67	74	80	84	87	88	90	83	94
HBF 125 T6 (A6:6) F300 (40º)	Inlet	68	75	81	85	88	89	90	83	95
HBF 125 T6 (A6:6) F300 (42º)	Inlet	69	77	82	86	89	90	90	84	96

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
HBF 45 T4/T8 (A2:6) F300 (8p - 20º)	Inlet	32	38	52	52	55	56	57	51	62
HBF 45 T4/T8 (A2:6) F300 (8p - 25º)	Inlet	23	33	44	52	56	54	55	50	61
HBF 45 T4/T8 (A2:6) F300 (8p - 27,5º)	Inlet	28	37	46	52	55	55	56	51	61
HBF 45 T4/T8 (A2:6) F300 (8p - 30º)	Inlet	29	37	45	51	54	54	55	50	61
HBF 45 T4/T8 (A2:6) F300 (8p - 32,5º)	Inlet	30	38	44	49	52	53	54	48	59
HBF 45 T4/T8 (A2:6) F300 (8p - 35º)	Inlet	31	38	44	49	51	53	54	48	59
HBF 45 T4/T8 (A2:6) F300 (8p - 37,5º)	Inlet	31	38	44	48	51	52	53	47	58
HBF 45 T4/T8 (A2:6) F300 (8p - 40º)	Inlet	31	39	44	48	51	53	53	47	58
HBF 45 T4/T8 (A2:6) F300 (8p - 42,5º)	Inlet	32	39	44	48	51	53	53	47	58
HBF 45 T4/T8 (A2:6) F300 (8p - 45º)	Inlet	34	40	47	50	54	56	56	50	61
HBF 45 T4/T8 (A2:6) F300 (4p - 20º)	Inlet	47	54	68	67	71	72	72	66	78

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 45 T4/T8 (A2:6) F300 (4p - 25°)	Inlet	39	49	60	67	72	70	70	66	77
HBF 45 T4/T8 (A2:6) F300 (4p - 27,5°)	Inlet	44	53	61	68	71	71	72	67	77
HBF 45 T4/T8 (A2:6) F300 (4p - 30°)	Inlet	45	53	61	67	70	70	71	66	76
HBF 45 T4/T8 (A2:6) F300 (4p - 32,5°)	Inlet	46	53	60	65	67	69	70	64	75
HBF 45 T4/T8 (A2:6) F300 (4p - 35°)	Inlet	47	54	60	64	67	68	70	64	74
HBF 45 T4/T8 (A2:6) F300 (4p - 37,5°)	Inlet	47	54	59	64	66	68	69	63	74
HBF 45 T4/T8 (A2:6) F300 (4p - 40°)	Inlet	47	54	60	64	67	68	69	63	74
HBF 45 T4/T8 (A2:6) F300 (4p - 42,5°)	Inlet	48	55	60	64	67	69	69	63	74
HBF 45 T4/T8 (A2:6) F300 (4p - 45°)	Inlet	49	55	63	66	69	71	72	65	77
HBF 45 T4/T8 (A2:9) F300 (8p - 20°)	Inlet	37	43	51	54	58	60	60	54	65
HBF 45 T4/T8 (A2:9) F300 (8p - 25°)	Inlet	33	40	47	51	56	57	56	48	62
HBF 45 T4/T8 (A2:9) F300 (8p - 27,5°)	Inlet	32	39	47	52	56	56	57	50	62
HBF 45 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	31	38	47	52	56	56	57	50	62
HBF 45 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	30	37	47	51	55	55	56	50	61
HBF 45 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	30	37	47	51	55	55	57	51	62
HBF 45 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	30	37	47	52	56	56	58	52	62
HBF 45 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	30	37	48	51	55	55	57	51	62
HBF 45 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	30	37	48	50	54	55	56	50	61
HBF 45 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	31	38	51	51	55	55	57	50	62
HBF 45 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	53	59	67	70	74	76	76	70	81
HBF 45 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	49	56	63	67	72	72	72	64	78
HBF 45 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	48	55	63	68	72	72	73	66	78

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 45 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	47	54	63	68	72	72	72	66	78
HBF 45 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	46	53	62	67	71	71	72	66	77
HBF 45 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	46	53	63	67	71	71	73	67	78
HBF 45 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	46	53	63	67	72	72	73	68	78
HBF 45 T4/T8 (A2:9) F300 (4p - 40°)	Inlet	46	53	64	67	70	71	73	67	77
HBF 45 T4/T8 (A2:9) F300 (4p - 42,5°)	Inlet	45	53	64	66	70	71	72	66	77
HBF 45 T4/T8 (A2:9) F300 (4p - 45°)	Inlet	47	54	67	67	70	71	72	66	78
HBF 50 T4/T8 (A2:6) F300 (8p - 20°)	Inlet	35	42	56	55	58	59	60	54	65
HBF 50 T4/T8 (A2:6) F300 (8p - 25°)	Inlet	27	37	48	55	59	57	58	54	64
HBF 50 T4/T8 (A2:6) F300 (8p - 27,5°)	Inlet	32	41	50	56	59	59	60	55	65
HBF 50 T4/T8 (A2:6) F300 (8p - 30°)	Inlet	33	41	49	55	58	58	59	54	65
HBF 50 T4/T8 (A2:6) F300 (8p - 32,5°)	Inlet	35	42	48	54	56	58	59	53	64
HBF 50 T4/T8 (A2:6) F300 (8p - 35°)	Inlet	36	43	48	53	55	57	58	52	63
HBF 50 T4/T8 (A2:6) F300 (8p - 37,5°)	Inlet	35	42	48	52	55	56	58	51	62
HBF 50 T4/T8 (A2:6) F300 (8p - 40°)	Inlet	35	43	48	52	55	57	57	51	62
HBF 50 T4/T8 (A2:6) F300 (8p - 42,5°)	Inlet	36	43	48	52	55	57	57	51	62
HBF 50 T4/T8 (A2:6) F300 (8p - 45°)	Inlet	37	43	50	54	57	59	59	53	65
HBF 50 T4/T8 (A2:6) F300 (4p - 20°)	Inlet	51	57	71	71	74	75	76	70	81
HBF 50 T4/T8 (A2:6) F300 (4p - 25°)	Inlet	42	53	64	71	75	73	74	69	80
HBF 50 T4/T8 (A2:6) F300 (4p - 27,5°)	Inlet	48	57	65	72	75	75	76	70	81
HBF 50 T4/T8 (A2:6) F300 (4p - 30°)	Inlet	49	57	65	71	74	74	75	70	80
HBF 50 T4/T8 (A2:6) F300 (4p - 32,5°)	Inlet	51	58	64	70	72	74	74	69	79

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 50 T4/T8 (A2:6) F300 (4p - 35°)	Inlet	51	58	64	69	71	73	74	68	79
HBF 50 T4/T8 (A2:6) F300 (4p - 37,5°)	Inlet	51	58	64	68	71	72	73	67	78
HBF 50 T4/T8 (A2:6) F300 (4p - 40°)	Inlet	51	58	64	68	71	73	73	67	78
HBF 50 T4/T8 (A2:6) F300 (4p - 42,5°)	Inlet	52	59	64	68	71	73	73	67	78
HBF 50 T4/T8 (A2:6) F300 (4p - 45°)	Inlet	53	59	66	69	73	75	75	69	80
HBF 50 T4/T8 (A2:9) F300 (8p - 20°)	Inlet	41	45	53	57	60	62	61	56	67
HBF 50 T4/T8 (A2:9) F300 (8p - 25°)	Inlet	36	43	50	55	59	60	59	51	65
HBF 50 T4/T8 (A2:9) F300 (8p - 27,5°)	Inlet	36	43	51	56	60	60	60	54	66
HBF 50 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	35	42	51	56	60	60	60	54	66
HBF 50 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	34	41	50	55	59	59	60	54	65
HBF 50 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	34	41	50	55	59	59	61	55	65
HBF 50 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	34	40	51	55	59	59	61	56	66
HBF 50 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	33	40	51	55	58	59	61	55	65
HBF 50 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	33	41	52	54	58	58	60	54	65
HBF 50 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	34	41	55	55	58	59	60	54	65
HBF 50 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	57	61	69	72	76	78	77	71	83
HBF 50 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	52	59	66	70	75	75	75	67	81
HBF 50 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	51	59	67	71	76	76	76	69	82
HBF 50 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	51	58	67	71	75	76	76	70	81
HBF 50 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	50	57	66	71	75	75	76	70	81
HBF 50 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	50	56	66	71	75	75	76	71	81
HBF 50 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	49	56	66	71	75	75	77	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
HBF 50 T4/T8 (A2:9) F300 (4p - 40º)	Inlet	49	56	67	70	74	75	76	70	81
HBF 50 T4/T8 (A2:9) F300 (4p - 42,5º)	Inlet	49	56	68	70	73	74	76	70	81
HBF 50 T4/T8 (A2:9) F300 (4p - 45º)	Inlet	50	57	70	70	74	75	76	70	81
HBF 56 T4/T8 (A2:6) F300 (8p - 20º)	Inlet	38	45	56	58	61	62	63	57	68
HBF 56 T4/T8 (A2:6) F300 (8p - 25º)	Inlet	31	39	49	58	60	60	61	56	66
HBF 56 T4/T8 (A2:6) F300 (8p - 27,5º)	Inlet	34	42	51	58	60	61	62	57	67
HBF 56 T4/T8 (A2:6) F300 (8p - 30º)	Inlet	35	43	51	57	59	60	61	56	66
HBF 56 T4/T8 (A2:6) F300 (8p - 32,5º)	Inlet	36	43	50	56	58	59	60	55	65
HBF 56 T4/T8 (A2:6) F300 (8p - 35º)	Inlet	37	44	50	55	58	60	60	55	65
HBF 56 T4/T8 (A2:6) F300 (8p - 37,5º)	Inlet	37	44	50	55	57	60	60	55	65
HBF 56 T4/T8 (A2:6) F300 (8p - 40º)	Inlet	38	45	50	56	58	60	60	54	65
HBF 56 T4/T8 (A2:6) F300 (8p - 42,5º)	Inlet	39	46	51	56	58	60	61	54	66
HBF 56 T4/T8 (A2:6) F300 (8p - 45º)	Inlet	40	45	53	56	59	61	61	55	67
HBF 56 T4/T8 (A2:6) F300 (4p - 20º)	Inlet	54	60	72	74	77	78	78	73	84
HBF 56 T4/T8 (A2:6) F300 (4p - 25º)	Inlet	46	55	65	74	76	76	77	72	82
HBF 56 T4/T8 (A2:6) F300 (4p - 27,5º)	Inlet	50	58	67	74	76	77	78	72	83
HBF 56 T4/T8 (A2:6) F300 (4p - 30º)	Inlet	51	58	66	73	75	76	77	72	82
HBF 56 T4/T8 (A2:6) F300 (4p - 32,5º)	Inlet	52	59	66	71	74	75	76	71	81
HBF 56 T4/T8 (A2:6) F300 (4p - 35º)	Inlet	53	60	66	71	73	75	76	70	81
HBF 56 T4/T8 (A2:6) F300 (4p - 37,5º)	Inlet	53	60	65	71	73	76	76	70	81
HBF 56 T4/T8 (A2:6) F300 (4p - 40º)	Inlet	54	61	66	71	74	76	76	70	81
HBF 56 T4/T8 (A2:6) F300 (4p - 42,5º)	Inlet	54	62	67	72	74	76	77	70	82

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 56 T4/T8 (A2:6) F300 (4p - 45°)	Inlet	56	61	69	72	75	77	77	71	82
HBF 56 T4/T8 (A2:9) F300 (8p - 20°)	Inlet	43	47	56	59	63	63	63	57	69
HBF 56 T4/T8 (A2:9) F300 (8p - 25°)	Inlet	38	43	52	58	61	61	61	54	67
HBF 56 T4/T8 (A2:9) F300 (8p - 27,5°)	Inlet	38	43	52	58	61	61	62	55	67
HBF 56 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	38	43	52	58	61	61	62	56	67
HBF 56 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	38	44	53	58	61	62	63	57	68
HBF 56 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	38	44	53	58	61	62	63	58	68
HBF 56 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	37	43	53	58	61	62	64	58	68
HBF 56 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	37	44	53	57	61	62	63	57	68
HBF 56 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	37	44	54	57	61	62	63	57	68
HBF 56 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	38	44	55	58	61	62	63	57	68
HBF 56 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	59	63	71	75	78	79	79	73	85
HBF 56 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	54	59	68	74	77	77	77	69	83
HBF 56 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	54	59	68	73	77	77	78	71	83
HBF 56 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	54	59	68	74	77	77	78	72	83
HBF 56 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	54	59	68	74	77	78	79	73	84
HBF 56 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	53	59	69	74	77	78	79	73	84
HBF 56 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	53	59	69	74	77	78	79	73	84
HBF 56 T4/T8 (A2:9) F300 (4p - 40°)	Inlet	53	60	69	73	77	78	79	73	84
HBF 56 T4/T8 (A2:9) F300 (4p - 42,5°)	Inlet	53	60	70	73	77	77	78	73	83
HBF 56 T4/T8 (A2:9) F300 (4p - 45°)	Inlet	54	60	71	73	77	78	78	73	84
HBF 63 T4/T8 (A2:6) F300 (8p - 20°)	Inlet	42	49	55	60	63	65	65	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
HBF 63 T4/T8 (A2:6) F300 (8p - 25º)	Inlet	33	37	49	58	59	58	60	55	65
HBF 63 T4/T8 (A2:6) F300 (8p - 27,5º)	Inlet	37	42	52	60	61	62	63	58	68
HBF 63 T4/T8 (A2:6) F300 (8p - 30º)	Inlet	37	43	52	59	61	62	63	58	68
HBF 63 T4/T8 (A2:6) F300 (8p - 32,5º)	Inlet	38	45	52	58	60	62	62	58	68
HBF 63 T4/T8 (A2:6) F300 (8p - 35º)	Inlet	38	46	51	58	60	62	62	57	67
HBF 63 T4/T8 (A2:6) F300 (8p - 37,5º)	Inlet	38	45	50	57	59	62	62	56	67
HBF 63 T4/T8 (A2:6) F300 (8p - 40º)	Inlet	39	46	52	58	60	62	62	56	67
HBF 63 T4/T8 (A2:6) F300 (8p - 42,5º)	Inlet	40	47	53	58	60	62	62	57	68
HBF 63 T4/T8 (A2:6) F300 (8p - 45º)	Inlet	42	47	55	59	62	63	63	57	69
HBF 63 T4/T8 (A2:6) F300 (4p - 20º)	Inlet	58	65	70	76	79	81	81	76	86
HBF 63 T4/T8 (A2:6) F300 (4p - 25º)	Inlet	49	52	65	74	74	74	76	71	81
HBF 63 T4/T8 (A2:6) F300 (4p - 27,5º)	Inlet	53	58	68	76	77	78	79	74	84
HBF 63 T4/T8 (A2:6) F300 (4p - 30º)	Inlet	53	59	68	75	77	78	79	74	84
HBF 63 T4/T8 (A2:6) F300 (4p - 32,5º)	Inlet	54	61	68	74	76	78	78	73	84
HBF 63 T4/T8 (A2:6) F300 (4p - 35º)	Inlet	54	61	67	73	76	78	78	73	83
HBF 63 T4/T8 (A2:6) F300 (4p - 37,5º)	Inlet	54	61	66	73	75	78	78	72	83
HBF 63 T4/T8 (A2:6) F300 (4p - 40º)	Inlet	55	62	67	73	76	78	78	72	83
HBF 63 T4/T8 (A2:6) F300 (4p - 42,5º)	Inlet	56	62	69	74	76	78	78	72	84
HBF 63 T4/T8 (A2:6) F300 (4p - 45º)	Inlet	58	63	70	75	78	79	79	73	84
HBF 63 T4/T8 (A2:9) F300 (8p - 20º)	Inlet	46	50	59	62	65	66	65	59	71
HBF 63 T4/T8 (A2:9) F300 (8p - 25º)	Inlet	42	45	56	61	63	63	64	58	70
HBF 63 T4/T8 (A2:9) F300 (8p - 27,5º)	Inlet	42	46	55	61	63	63	64	59	70

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 63 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	42	46	55	61	63	64	65	59	70
HBF 63 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	42	47	55	61	63	65	66	60	71
HBF 63 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	42	47	55	61	63	65	66	60	71
HBF 63 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	41	48	55	61	64	65	66	60	71
HBF 63 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	42	48	55	61	64	65	66	60	71
HBF 63 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	42	48	54	60	64	65	65	60	71
HBF 63 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	42	49	54	60	63	65	65	60	71
HBF 63 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	62	66	75	78	81	82	81	75	87
HBF 63 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	57	60	72	77	79	78	80	74	85
HBF 63 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	57	61	71	77	79	79	80	75	85
HBF 63 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	58	62	71	77	79	80	81	75	86
HBF 63 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	58	63	71	77	79	80	81	76	86
HBF 63 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	58	63	71	77	79	81	82	76	87
HBF 63 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	57	64	71	77	80	81	82	76	87
HBF 63 T4/T8 (A2:9) F300 (4p - 40°)	Inlet	57	64	71	77	79	81	81	76	87
HBF 63 T4/T8 (A2:9) F300 (4p - 42,5°)	Inlet	58	64	70	76	79	81	81	76	86
HBF 63 T4/T8 (A2:9) F300 (4p - 45°)	Inlet	58	64	70	76	79	81	81	76	86
HBF 71 T4/T8 (A2:6) F300 (8p - 20°)	Inlet	45	52	58	63	66	67	67	61	73
HBF 71 T4/T8 (A2:6) F300 (8p - 25°)	Inlet	39	45	57	64	67	66	69	62	73
HBF 71 T4/T8 (A2:6) F300 (8p - 27,5°)	Inlet	41	47	56	63	66	67	68	62	73
HBF 71 T4/T8 (A2:6) F300 (8p - 30°)	Inlet	42	48	56	63	65	66	67	62	72
HBF 71 T4/T8 (A2:6) F300 (8p - 32,5°)	Inlet	42	49	55	62	64	66	66	62	72

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 71 T4/T8 (A2:6) F300 (8p - 35°)	Inlet	42	49	55	61	63	65	66	60	71
HBF 71 T4/T8 (A2:6) F300 (8p - 37,5°)	Inlet	41	48	54	60	62	64	65	59	70
HBF 71 T4/T8 (A2:6) F300 (8p - 40°)	Inlet	43	50	55	60	63	65	65	59	70
HBF 71 T4/T8 (A2:6) F300 (8p - 42,5°)	Inlet	44	51	56	61	64	66	65	59	71
HBF 71 T4/T8 (A2:6) F300 (8p - 45°)	Inlet	45	50	58	62	65	66	65	59	71
HBF 71 T4/T8 (A2:6) F300 (4p - 20°)	Inlet	60	68	74	79	82	83	83	77	89
HBF 71 T4/T8 (A2:6) F300 (4p - 25°)	Inlet	55	61	73	80	83	82	84	78	89
HBF 71 T4/T8 (A2:6) F300 (4p - 27,5°)	Inlet	57	63	72	79	82	82	84	78	89
HBF 71 T4/T8 (A2:6) F300 (4p - 30°)	Inlet	57	64	72	79	81	82	83	78	88
HBF 71 T4/T8 (A2:6) F300 (4p - 32,5°)	Inlet	58	65	71	78	80	82	82	77	87
HBF 71 T4/T8 (A2:6) F300 (4p - 35°)	Inlet	58	65	70	77	79	81	81	76	86
HBF 71 T4/T8 (A2:6) F300 (4p - 37,5°)	Inlet	57	64	70	75	78	80	81	74	86
HBF 71 T4/T8 (A2:6) F300 (4p - 40°)	Inlet	58	66	71	76	79	81	81	75	86
HBF 71 T4/T8 (A2:6) F300 (4p - 42,5°)	Inlet	60	66	72	77	80	82	81	75	87
HBF 71 T4/T8 (A2:6) F300 (4p - 45°)	Inlet	61	66	74	77	81	82	81	75	87
HBF 71 T4/T8 (A2:9) F300 (8p - 20°)	Inlet	47	54	61	64	67	68	67	60	73
HBF 71 T4/T8 (A2:9) F300 (8p - 25°)	Inlet	45	51	61	67	70	69	71	64	76
HBF 71 T4/T8 (A2:9) F300 (8p - 27,5°)	Inlet	45	51	59	66	68	68	70	63	75
HBF 71 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	45	51	58	65	68	68	69	63	74
HBF 71 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	45	51	57	64	67	68	69	63	74
HBF 71 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	45	52	57	64	67	68	68	63	74
HBF 71 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	44	51	57	64	67	68	68	62	74

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 71 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	45	52	58	64	67	68	68	63	74
HBF 71 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	46	53	59	63	67	68	68	63	74
HBF 71 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	45	52	58	63	66	68	68	62	73
HBF 71 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	63	70	77	80	83	83	83	76	89
HBF 71 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	61	67	76	83	86	85	87	80	92
HBF 71 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	61	67	75	81	84	84	86	79	91
HBF 71 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	61	67	74	81	83	84	85	79	90
HBF 71 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	61	67	73	80	82	83	84	79	89
HBF 71 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	60	67	73	80	83	84	84	79	89
HBF 71 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	60	67	73	80	83	84	84	78	89
HBF 71 T4/T8 (A2:9) F300 (4p - 40°)	Inlet	61	68	74	79	83	84	84	78	90
HBF 71 T4/T8 (A2:9) F300 (4p - 42,5°)	Inlet	62	69	74	79	83	84	84	78	90
HBF 71 T4/T8 (A2:9) F300 (4p - 45°)	Inlet	61	68	74	79	82	84	83	77	89
HBF 80 T4/T8 (A2:6) F300 (8p - 20°)	Inlet	48	56	62	65	68	70	69	63	75
HBF 80 T4/T8 (A2:6) F300 (8p - 25°)	Inlet	39	46	57	64	68	68	69	64	74
HBF 80 T4/T8 (A2:6) F300 (8p - 27,5°)	Inlet	42	49	57	64	67	68	69	64	74
HBF 80 T4/T8 (A2:6) F300 (8p - 30°)	Inlet	43	50	57	64	67	68	69	63	74
HBF 80 T4/T8 (A2:6) F300 (8p - 32,5°)	Inlet	44	51	57	63	66	69	69	63	74
HBF 80 T4/T8 (A2:6) F300 (8p - 35°)	Inlet	45	52	58	63	66	69	69	62	74
HBF 80 T4/T8 (A2:6) F300 (8p - 37,5°)	Inlet	46	53	59	63	66	69	68	62	74
HBF 80 T4/T8 (A2:6) F300 (8p - 40°)	Inlet	47	54	59	63	66	68	68	61	73
HBF 80 T4/T8 (A2:6) F300 (8p - 42,5°)	Inlet	46	54	59	63	66	67	67	60	73

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 80 T4/T8 (A2:6) F300 (8p - 45°)	Inlet	47	54	60	63	67	67	67	60	73
HBF 80 T4/T8 (A2:6) F300 (4p - 20°)	Inlet	64	72	78	81	84	86	85	79	91
HBF 80 T4/T8 (A2:6) F300 (4p - 25°)	Inlet	55	62	72	80	84	83	85	80	90
HBF 80 T4/T8 (A2:6) F300 (4p - 27,5°)	Inlet	58	65	73	80	83	84	85	79	90
HBF 80 T4/T8 (A2:6) F300 (4p - 30°)	Inlet	59	66	73	80	83	84	85	79	90
HBF 80 T4/T8 (A2:6) F300 (4p - 32,5°)	Inlet	60	67	73	79	82	84	85	79	90
HBF 80 T4/T8 (A2:6) F300 (4p - 35°)	Inlet	61	68	74	79	82	85	85	78	90
HBF 80 T4/T8 (A2:6) F300 (4p - 37,5°)	Inlet	62	69	75	79	82	85	84	77	89
HBF 80 T4/T8 (A2:6) F300 (4p - 40°)	Inlet	62	69	75	79	82	84	83	77	89
HBF 80 T4/T8 (A2:6) F300 (4p - 42,5°)	Inlet	62	70	75	79	82	83	83	76	88
HBF 80 T4/T8 (A2:6) F300 (4p - 45°)	Inlet	62	70	76	79	82	83	83	76	89
HBF 80 T4/T8 (A2:9) F300 (8p - 20°)	Inlet	51	60	67	75	76	77	77	71	83
HBF 80 T4/T8 (A2:9) F300 (8p - 25°)	Inlet	44	57	63	74	76	75	77	68	82
HBF 80 T4/T8 (A2:9) F300 (8p - 27,5°)	Inlet	46	56	61	71	74	73	75	67	80
HBF 80 T4/T8 (A2:9) F300 (8p - 30°)	Inlet	47	56	61	70	73	73	74	67	79
HBF 80 T4/T8 (A2:9) F300 (8p - 32,5°)	Inlet	48	55	61	68	72	72	73	67	78
HBF 80 T4/T8 (A2:9) F300 (8p - 35°)	Inlet	48	55	60	67	71	72	72	66	77
HBF 80 T4/T8 (A2:9) F300 (8p - 37,5°)	Inlet	47	54	60	66	70	72	71	65	77
HBF 80 T4/T8 (A2:9) F300 (8p - 40°)	Inlet	48	55	61	66	70	72	71	65	76
HBF 80 T4/T8 (A2:9) F300 (8p - 42,5°)	Inlet	49	56	61	65	69	71	70	64	76
HBF 80 T4/T8 (A2:9) F300 (8p - 45°)	Inlet	49	56	62	65	69	70	69	63	75
HBF 80 T4/T8 (A2:9) F300 (4p - 20°)	Inlet	67	76	83	91	92	93	93	87	99

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 80 T4/T8 (A2:9) F300 (4p - 25°)	Inlet	60	72	79	90	92	90	93	84	98
HBF 80 T4/T8 (A2:9) F300 (4p - 27,5°)	Inlet	62	72	77	87	89	89	90	83	95
HBF 80 T4/T8 (A2:9) F300 (4p - 30°)	Inlet	63	72	77	86	89	89	90	83	95
HBF 80 T4/T8 (A2:9) F300 (4p - 32,5°)	Inlet	64	71	76	84	87	88	89	83	94
HBF 80 T4/T8 (A2:9) F300 (4p - 35°)	Inlet	63	70	76	83	87	88	88	82	93
HBF 80 T4/T8 (A2:9) F300 (4p - 37,5°)	Inlet	63	70	76	82	86	88	87	81	93
HBF 80 T4/T8 (A2:9) F300 (4p - 40°)	Inlet	64	71	76	82	85	87	87	80	92
HBF 80 T4/T8 (A2:9) F300 (4p - 42,5°)	Inlet	65	72	77	81	85	87	86	80	92
HBF 80 T4/T8 (A2:9) F300 (4p - 45°)	Inlet	64	72	78	81	84	86	85	79	91
HBF 90 T4/T8 (A6:3) F300 (8p - 20°)	Inlet	53	62	68	73	74	75	76	70	81
HBF 90 T4/T8 (A6:3) F300 (8p - 22°)	Inlet	45	48	57	59	64	65	68	62	72
HBF 90 T4/T8 (A6:3) F300 (8p - 24°)	Inlet	46	50	59	61	65	67	69	63	73
HBF 90 T4/T8 (A6:3) F300 (8p - 26°)	Inlet	47	51	60	64	67	68	70	65	75
HBF 90 T4/T8 (A6:3) F300 (8p - 28°)	Inlet	48	53	61	66	68	69	71	66	76
HBF 90 T4/T8 (A6:3) F300 (8p - 30°)	Inlet	49	54	62	68	69	71	72	67	77
HBF 90 T4/T8 (A6:3) F300 (8p - 32°)	Inlet	50	56	63	70	71	72	74	68	78
HBF 90 T4/T8 (A6:3) F300 (8p - 34°)	Inlet	50	56	64	71	71	72	74	68	79
HBF 90 T4/T8 (A6:3) F300 (8p - 36°)	Inlet	50	56	64	72	72	73	74	68	79
HBF 90 T4/T8 (A6:3) F300 (8p - 38°)	Inlet	50	57	65	73	72	74	74	69	80
HBF 90 T4/T8 (A6:3) F300 (8p - 40°)	Inlet	51	58	66	74	74	75	75	70	81
HBF 90 T4/T8 (A6:3) F300 (8p - 42°)	Inlet	51	59	66	74	75	76	76	71	82
HBF 90 T4/T8 (A6:3) F300 (4p - 20°)	Inlet	68	78	83	89	90	91	92	86	97

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 90 T4/T8 (A6:3) F300 (4p - 22º)	Inlet	60	64	73	75	79	81	84	78	88
HBF 90 T4/T8 (A6:3) F300 (4p - 24º)	Inlet	62	65	74	77	81	83	85	79	89
HBF 90 T4/T8 (A6:3) F300 (4p - 26º)	Inlet	63	67	76	79	83	84	86	80	90
HBF 90 T4/T8 (A6:3) F300 (4p - 28º)	Inlet	64	69	77	81	84	85	87	81	92
HBF 90 T4/T8 (A6:3) F300 (4p - 30º)	Inlet	65	70	78	83	85	87	88	82	93
HBF 90 T4/T8 (A6:3) F300 (4p - 32º)	Inlet	66	72	79	85	86	88	89	83	94
HBF 90 T4/T8 (A6:3) F300 (4p - 34º)	Inlet	66	72	79	86	87	88	90	84	95
HBF 90 T4/T8 (A6:3) F300 (4p - 36º)	Inlet	66	72	80	87	87	89	90	84	95
HBF 90 T4/T8 (A6:3) F300 (4p - 38º)	Inlet	66	73	80	88	88	90	90	84	96
HBF 90 T4/T8 (A6:3) F300 (4p - 40º)	Inlet	66	74	81	89	89	91	91	85	97
HBF 90 T4/T8 (A6:3) F300 (4p - 42º)	Inlet	67	75	82	90	90	92	92	86	98
HBF 90 T4/T8 (A6:6) F300 (8p - 20º)	Inlet	54	62	68	75	77	78	78	72	83
HBF 90 T4/T8 (A6:6) F300 (8p - 22º)	Inlet	49	59	66	73	77	75	76	71	82
HBF 90 T4/T8 (A6:6) F300 (8p - 24º)	Inlet	50	60	67	73	77	76	76	71	82
HBF 90 T4/T8 (A6:6) F300 (8p - 26º)	Inlet	51	61	67	74	77	76	77	72	83
HBF 90 T4/T8 (A6:6) F300 (8p - 28º)	Inlet	52	61	67	74	77	76	77	72	83
HBF 90 T4/T8 (A6:6) F300 (8p - 30º)	Inlet	53	62	68	75	77	77	78	73	83
HBF 90 T4/T8 (A6:6) F300 (8p - 32º)	Inlet	53	62	68	75	76	77	78	73	83
HBF 90 T4/T8 (A6:6) F300 (8p - 34º)	Inlet	52	61	67	73	75	75	77	71	82
HBF 90 T4/T8 (A6:6) F300 (8p - 36º)	Inlet	51	60	65	71	73	74	75	70	80
HBF 90 T4/T8 (A6:6) F300 (8p - 38º)	Inlet	51	59	65	71	72	74	75	69	80
HBF 90 T4/T8 (A6:6) F300 (8p - 40º)	Inlet	51	60	66	72	73	74	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
HBF 90 T4/T8 (A6:6) F300 (8p - 42º)	Inlet	52	61	67	72	74	75	76	70	81
HBF 90 T4/T8 (A6:6) F300 (4p - 20º)	Inlet	70	78	84	91	93	94	93	88	99
HBF 90 T4/T8 (A6:6) F300 (4p - 22º)	Inlet	65	75	82	89	93	91	91	86	98
HBF 90 T4/T8 (A6:6) F300 (4p - 24º)	Inlet	66	76	82	89	93	91	92	87	98
HBF 90 T4/T8 (A6:6) F300 (4p - 26º)	Inlet	67	76	83	90	93	92	93	88	99
HBF 90 T4/T8 (A6:6) F300 (4p - 28º)	Inlet	68	77	83	90	93	92	93	88	99
HBF 90 T4/T8 (A6:6) F300 (4p - 30º)	Inlet	68	78	84	90	93	93	93	88	99
HBF 90 T4/T8 (A6:6) F300 (4p - 32º)	Inlet	69	78	84	91	92	93	94	89	99
HBF 90 T4/T8 (A6:6) F300 (4p - 34º)	Inlet	68	77	82	89	90	91	93	87	98
HBF 90 T4/T8 (A6:6) F300 (4p - 36º)	Inlet	67	75	81	87	89	90	91	86	96
HBF 90 T4/T8 (A6:6) F300 (4p - 38º)	Inlet	66	75	81	87	88	90	91	85	96
HBF 90 T4/T8 (A6:6) F300 (4p - 40º)	Inlet	67	76	82	88	89	90	91	86	96
HBF 90 T4/T8 (A6:6) F300 (4p - 42º)	Inlet	68	77	82	88	89	91	92	86	97
HBF 100 T4/T8 (A6:3) F300 (8p - 20º)	Inlet	57	65	71	76	78	79	79	74	85
HBF 100 T4/T8 (A6:3) F300 (8p - 22º)	Inlet	49	56	61	66	71	73	77	69	80
HBF 100 T4/T8 (A6:3) F300 (8p - 24º)	Inlet	50	57	62	67	72	73	77	69	80
HBF 100 T4/T8 (A6:3) F300 (8p - 26º)	Inlet	50	57	63	68	72	73	76	69	80
HBF 100 T4/T8 (A6:3) F300 (8p - 28º)	Inlet	50	57	63	68	72	73	75	69	79
HBF 100 T4/T8 (A6:3) F300 (8p - 30º)	Inlet	50	57	63	68	71	72	74	68	79
HBF 100 T4/T8 (A6:3) F300 (8p - 32º)	Inlet	50	57	63	68	71	72	74	68	78
HBF 100 T4/T8 (A6:3) F300 (8p - 34º)	Inlet	52	58	65	70	72	73	74	69	79
HBF 100 T4/T8 (A6:3) F300 (8p - 36º)	Inlet	54	59	66	72	73	75	75	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
HBF 100 T4/T8 (A6:3) F300 (8p - 38°)	Inlet	54	60	67	73	74	75	76	70	81
HBF 100 T4/T8 (A6:3) F300 (8p - 40°)	Inlet	54	61	67	74	75	76	76	71	82
HBF 100 T4/T8 (A6:3) F300 (8p - 42°)	Inlet	54	61	68	74	76	77	77	72	83
HBF 100 T4/T8 (A6:3) F300 (4p - 20°)	Inlet	73	81	87	92	93	95	95	89	101
HBF 100 T4/T8 (A6:3) F300 (4p - 22°)	Inlet	64	71	77	81	87	89	92	85	95
HBF 100 T4/T8 (A6:3) F300 (4p - 24°)	Inlet	66	73	78	83	88	89	93	85	96
HBF 100 T4/T8 (A6:3) F300 (4p - 26°)	Inlet	66	73	79	83	88	89	92	85	96
HBF 100 T4/T8 (A6:3) F300 (4p - 28°)	Inlet	66	73	79	84	87	89	91	84	95
HBF 100 T4/T8 (A6:3) F300 (4p - 30°)	Inlet	66	72	79	84	87	88	90	84	94
HBF 100 T4/T8 (A6:3) F300 (4p - 32°)	Inlet	66	72	79	84	87	88	89	84	94
HBF 100 T4/T8 (A6:3) F300 (4p - 34°)	Inlet	68	74	81	86	88	89	90	85	95
HBF 100 T4/T8 (A6:3) F300 (4p - 36°)	Inlet	69	75	82	88	89	91	91	86	96
HBF 100 T4/T8 (A6:3) F300 (4p - 38°)	Inlet	70	76	83	89	90	91	91	86	97
HBF 100 T4/T8 (A6:3) F300 (4p - 40°)	Inlet	70	77	83	89	91	92	92	87	98
HBF 100 T4/T8 (A6:3) F300 (4p - 42°)	Inlet	70	77	83	90	92	93	93	88	99
HBF 100 T4/T8 (A6:6) F300 (8p - 20°)	Inlet	57	64	70	76	78	80	80	75	85
HBF 100 T4/T8 (A6:6) F300 (8p - 22°)	Inlet	53	65	70	80	81	80	80	76	87
HBF 100 T4/T8 (A6:6) F300 (8p - 24°)	Inlet	54	65	70	79	80	80	80	76	86
HBF 100 T4/T8 (A6:6) F300 (8p - 26°)	Inlet	55	65	71	79	80	80	80	76	86
HBF 100 T4/T8 (A6:6) F300 (8p - 28°)	Inlet	56	66	72	79	80	80	81	77	87
HBF 100 T4/T8 (A6:6) F300 (8p - 30°)	Inlet	57	66	73	79	80	81	82	77	87
HBF 100 T4/T8 (A6:6) F300 (8p - 32°)	Inlet	58	67	73	79	80	81	82	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
HBF 100 T4/T8 (A6:6) F300 (8p - 34°)	Inlet	57	66	72	77	79	79	81	76	86
HBF 100 T4/T8 (A6:6) F300 (8p - 36°)	Inlet	56	65	71	75	77	78	79	74	84
HBF 100 T4/T8 (A6:6) F300 (8p - 38°)	Inlet	56	64	71	74	77	77	79	73	84
HBF 100 T4/T8 (A6:6) F300 (8p - 40°)	Inlet	56	65	71	75	77	78	79	74	84
HBF 100 T4/T8 (A6:6) F300 (8p - 42°)	Inlet	57	65	71	76	78	79	80	74	85
HBF 100 T4/T8 (A6:6) F300 (4p - 20°)	Inlet	73	80	86	92	94	95	95	91	101
HBF 100 T4/T8 (A6:6) F300 (4p - 22°)	Inlet	69	80	86	96	96	96	96	92	103
HBF 100 T4/T8 (A6:6) F300 (4p - 24°)	Inlet	70	81	86	95	96	96	96	92	102
HBF 100 T4/T8 (A6:6) F300 (4p - 26°)	Inlet	71	81	87	95	96	96	96	92	102
HBF 100 T4/T8 (A6:6) F300 (4p - 28°)	Inlet	72	82	88	95	96	96	97	92	103
HBF 100 T4/T8 (A6:6) F300 (4p - 30°)	Inlet	73	82	89	95	96	97	97	93	103
HBF 100 T4/T8 (A6:6) F300 (4p - 32°)	Inlet	74	82	89	95	96	97	98	93	103
HBF 100 T4/T8 (A6:6) F300 (4p - 34°)	Inlet	73	81	88	93	95	95	96	92	102
HBF 100 T4/T8 (A6:6) F300 (4p - 36°)	Inlet	72	80	87	91	93	94	95	90	100
HBF 100 T4/T8 (A6:6) F300 (4p - 38°)	Inlet	72	80	86	90	92	93	94	89	100
HBF 100 T4/T8 (A6:6) F300 (4p - 40°)	Inlet	72	81	87	91	93	94	95	89	100
HBF 100 T4/T8 (A6:6) F300 (4p - 42°)	Inlet	73	81	87	91	94	95	95	90	101
HBF 112 T4/T8 (A6:3) F300 (8p - 20°)	Inlet	63	69	76	79	82	83	83	77	89
HBF 112 T4/T8 (A6:3) F300 (8p - 22°)	Inlet	52	59	64	71	76	77	79	74	83
HBF 112 T4/T8 (A6:3) F300 (8p - 24°)	Inlet	53	60	65	72	76	78	80	74	84
HBF 112 T4/T8 (A6:3) F300 (8p - 26°)	Inlet	54	61	67	73	77	78	80	75	84
HBF 112 T4/T8 (A6:3) F300 (8p - 28°)	Inlet	55	62	67	73	77	78	80	75	84

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 112 T4/T8 (A6:3) F300 (8p - 30°)	Inlet	55	62	68	73	77	78	80	75	84
HBF 112 T4/T8 (A6:3) F300 (8p - 32°)	Inlet	56	61	68	73	76	77	79	74	84
HBF 112 T4/T8 (A6:3) F300 (8p - 34°)	Inlet	56	61	69	74	76	77	79	74	84
HBF 112 T4/T8 (A6:3) F300 (8p - 36°)	Inlet	57	62	70	74	77	77	79	74	84
HBF 112 T4/T8 (A6:3) F300 (8p - 38°)	Inlet	57	62	70	75	77	78	79	74	84
HBF 112 T4/T8 (A6:3) F300 (8p - 40°)	Inlet	57	63	70	75	78	78	79	75	85
HBF 112 T4/T8 (A6:3) F300 (8p - 42°)	Inlet	57	63	70	76	78	79	79	74	85
HBF 112 T4/T8 (A6:3) F300 (4p - 20°)	Inlet	79	84	92	95	98	99	99	93	104
HBF 112 T4/T8 (A6:3) F300 (4p - 22°)	Inlet	67	75	80	86	92	93	95	89	99
HBF 112 T4/T8 (A6:3) F300 (4p - 24°)	Inlet	69	76	81	87	92	94	95	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 26°)	Inlet	70	77	82	88	93	94	96	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 28°)	Inlet	71	77	83	89	93	94	96	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 30°)	Inlet	71	77	84	89	92	94	96	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 32°)	Inlet	71	77	84	89	92	93	95	90	99
HBF 112 T4/T8 (A6:3) F300 (4p - 34°)	Inlet	72	77	85	90	92	93	95	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 36°)	Inlet	73	78	85	90	92	93	95	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 38°)	Inlet	73	78	86	91	93	94	95	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 40°)	Inlet	73	79	86	91	93	94	95	90	100
HBF 112 T4/T8 (A6:3) F300 (4p - 42°)	Inlet	73	79	85	91	94	95	95	90	101
HBF 112 T4/T8 (A6:6) F300 (8p - 20°)	Inlet	62	69	75	80	83	84	83	79	89
HBF 112 T4/T8 (A6:6) F300 (8p - 22°)	Inlet	54	65	71	82	83	82	83	78	89
HBF 112 T4/T8 (A6:6) F300 (8p - 24°)	Inlet	55	65	71	81	83	82	83	77	89

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 112 T4/T8 (A6:6) F300 (8p - 26°)	Inlet	55	65	71	80	82	81	82	76	88
HBF 112 T4/T8 (A6:6) F300 (8p - 28°)	Inlet	57	66	71	80	81	82	82	76	88
HBF 112 T4/T8 (A6:6) F300 (8p - 30°)	Inlet	58	66	72	80	81	82	83	76	88
HBF 112 T4/T8 (A6:6) F300 (8p - 32°)	Inlet	59	66	72	79	81	82	82	75	87
HBF 112 T4/T8 (A6:6) F300 (8p - 34°)	Inlet	58	66	72	77	79	81	81	74	87
HBF 112 T4/T8 (A6:6) F300 (8p - 36°)	Inlet	58	66	71	75	78	80	81	73	86
HBF 112 T4/T8 (A6:6) F300 (8p - 38°)	Inlet	59	66	72	75	79	81	81	74	86
HBF 112 T4/T8 (A6:6) F300 (8p - 40°)	Inlet	61	68	74	77	81	82	83	75	88
HBF 112 T4/T8 (A6:6) F300 (8p - 42°)	Inlet	63	70	76	79	82	83	84	77	89
HBF 112 T4/T8 (A6:6) F300 (4p - 20°)	Inlet	78	84	91	96	99	100	99	95	105
HBF 112 T4/T8 (A6:6) F300 (4p - 22°)	Inlet	70	81	87	98	99	98	99	94	105
HBF 112 T4/T8 (A6:6) F300 (4p - 24°)	Inlet	71	81	87	97	98	98	99	93	104
HBF 112 T4/T8 (A6:6) F300 (4p - 26°)	Inlet	71	81	87	96	97	97	98	92	104
HBF 112 T4/T8 (A6:6) F300 (4p - 28°)	Inlet	73	81	87	96	97	98	98	92	104
HBF 112 T4/T8 (A6:6) F300 (4p - 30°)	Inlet	74	82	88	95	97	98	98	92	104
HBF 112 T4/T8 (A6:6) F300 (4p - 32°)	Inlet	75	82	87	94	96	98	98	91	103
HBF 112 T4/T8 (A6:6) F300 (4p - 34°)	Inlet	74	82	87	93	95	97	97	90	102
HBF 112 T4/T8 (A6:6) F300 (4p - 36°)	Inlet	74	81	87	91	94	96	97	89	102
HBF 112 T4/T8 (A6:6) F300 (4p - 38°)	Inlet	75	82	88	91	95	96	97	90	102
HBF 112 T4/T8 (A6:6) F300 (4p - 40°)	Inlet	77	83	90	93	96	98	98	91	103
HBF 112 T4/T8 (A6:6) F300 (4p - 42°)	Inlet	79	85	92	95	98	99	100	93	105
HBF 125 T4/T8 (A6:3) F300 (8p - 20°)	Inlet	64	72	77	80	83	84	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
HBF 125 T4/T8 (A6:3) F300 (8p - 22º)	Inlet	54	64	72	78	81	82	83	82	89
HBF 125 T4/T8 (A6:3) F300 (8p - 24º)	Inlet	55	65	73	78	82	82	84	82	89
HBF 125 T4/T8 (A6:3) F300 (8p - 26º)	Inlet	57	66	74	79	82	82	84	82	89
HBF 125 T4/T8 (A6:3) F300 (8p - 28º)	Inlet	58	66	74	79	82	82	84	82	89
HBF 125 T4/T8 (A6:3) F300 (8p - 30º)	Inlet	59	67	75	79	83	83	84	81	89
HBF 125 T4/T8 (A6:3) F300 (8p - 32º)	Inlet	60	68	75	79	83	82	84	81	89
HBF 125 T4/T8 (A6:3) F300 (8p - 34º)	Inlet	60	68	75	79	82	82	84	80	89
HBF 125 T4/T8 (A6:3) F300 (8p - 36º)	Inlet	60	67	75	79	82	81	83	79	88
HBF 125 T4/T8 (A6:3) F300 (8p - 38º)	Inlet	61	67	75	79	81	81	82	79	88
HBF 125 T4/T8 (A6:3) F300 (8p - 40º)	Inlet	62	68	75	79	82	82	83	79	88
HBF 125 T4/T8 (A6:3) F300 (8p - 42º)	Inlet	62	69	75	80	82	83	83	79	89
HBF 125 T4/T8 (A6:3) F300 (4p - 20º)	Inlet	80	87	93	96	99	100	100	94	106
HBF 125 T4/T8 (A6:3) F300 (4p - 22º)	Inlet	70	80	88	94	97	98	99	98	104
HBF 125 T4/T8 (A6:3) F300 (4p - 24º)	Inlet	71	81	89	94	98	98	99	97	105
HBF 125 T4/T8 (A6:3) F300 (4p - 26º)	Inlet	73	81	89	94	98	98	100	97	105
HBF 125 T4/T8 (A6:3) F300 (4p - 28º)	Inlet	74	82	90	95	98	98	100	97	105
HBF 125 T4/T8 (A6:3) F300 (4p - 30º)	Inlet	75	83	91	95	98	98	100	97	105
HBF 125 T4/T8 (A6:3) F300 (4p - 32º)	Inlet	76	83	91	95	98	98	100	97	105
HBF 125 T4/T8 (A6:3) F300 (4p - 34º)	Inlet	76	83	91	95	98	98	100	96	105
HBF 125 T4/T8 (A6:3) F300 (4p - 36º)	Inlet	76	83	91	95	97	97	98	95	104
HBF 125 T4/T8 (A6:3) F300 (4p - 38º)	Inlet	77	83	91	95	97	97	98	94	104
HBF 125 T4/T8 (A6:3) F300 (4p - 40º)	Inlet	78	83	91	95	98	98	98	95	104

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 125 T4/T8 (A6:3) F300 (4p - 42º)	Inlet	78	84	91	95	98	99	99	95	105
HBF 125 T4/T8 (A6:6) F300 (8p - 20º)	Inlet	41	46	54	58	61	63	64	57	69
HBF 125 T4/T8 (A6:6) F300 (8p - 22º)	Inlet	56	67	73	80	85	84	85	81	91
HBF 125 T4/T8 (A6:6) F300 (8p - 24º)	Inlet	57	69	74	81	86	85	86	82	91
HBF 125 T4/T8 (A6:6) F300 (8p - 26º)	Inlet	59	70	75	81	86	86	87	82	92
HBF 125 T4/T8 (A6:6) F300 (8p - 28º)	Inlet	61	71	76	82	87	86	88	83	93
HBF 125 T4/T8 (A6:6) F300 (8p - 30º)	Inlet	63	72	77	83	87	87	89	84	93
HBF 125 T4/T8 (A6:6) F300 (8p - 32º)	Inlet	65	73	78	83	88	88	90	85	94
HBF 125 T4/T8 (A6:6) F300 (8p - 34º)	Inlet	63	71	76	81	85	86	87	82	92
HBF 125 T4/T8 (A6:6) F300 (8p - 36º)	Inlet	61	69	74	79	82	83	85	78	89
HBF 125 T4/T8 (A6:6) F300 (8p - 38º)	Inlet	60	68	73	78	81	82	83	77	88
HBF 125 T4/T8 (A6:6) F300 (8p - 40º)	Inlet	61	69	74	78	81	82	83	77	88
HBF 125 T4/T8 (A6:6) F300 (8p - 42º)	Inlet	63	71	76	80	82	83	84	77	89
HBF 125 T4/T8 (A6:6) F300 (4p - 20º)	Inlet	34	40	48	51	55	57	57	51	62
HBF 125 T4/T8 (A6:6) F300 (4p - 22º)	Inlet	72	83	89	96	100	100	100	97	106
HBF 125 T4/T8 (A6:6) F300 (4p - 24º)	Inlet	73	84	90	97	101	101	101	98	107
HBF 125 T4/T8 (A6:6) F300 (4p - 26º)	Inlet	75	85	91	97	101	102	102	98	108
HBF 125 T4/T8 (A6:6) F300 (4p - 28º)	Inlet	77	86	92	98	102	102	103	98	108
HBF 125 T4/T8 (A6:6) F300 (4p - 30º)	Inlet	79	87	93	99	102	103	104	99	109
HBF 125 T4/T8 (A6:6) F300 (4p - 32º)	Inlet	81	88	94	99	103	104	105	100	110
HBF 125 T4/T8 (A6:6) F300 (4p - 34º)	Inlet	79	86	92	97	100	102	102	97	108
HBF 125 T4/T8 (A6:6) F300 (4p - 36º)	Inlet	77	84	90	95	98	99	100	94	105

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HBF 125 T4/T8 (A6:6) F300 (4p - 38º)	Inlet	76	83	89	94	97	98	99	93	104
HBF 125 T4/T8 (A6:6) F300 (4p - 40º)	Inlet	77	84	90	94	97	98	99	93	104
HBF 125 T4/T8 (A6:6) F300 (4p - 42º)	Inlet	79	86	92	95	98	99	100	93	105

erp data

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

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
HBF 50 T4 (A2:6) F300 (20º)	0,55	32,85	42,55	2.901,13	119,02	0,29	-	1,00
HBF 50 T4 (A2:6) F300 (25º)	0,55	35,48	44,39	3.762,68	132,30	0,39	-	1,00
HBF 50 T4 (A2:6) F300 (27,5º)	0,55	35,26	43,96	3.937,17	135,97	0,42	-	1,00
HBF 50 T4 (A2:6) F300 (30º)	0,55	34,53	42,74	4.327,41	145,22	0,51	-	1,00
HBF 50 T4 (A2:6) F300 (32,5º)	0,55	33,96	41,90	4.636,09	147,61	0,56	-	1,00
HBF 50 T4 (A2:6) F300 (35º)	0,55	33	40,65	4.965,91	149,34	0,62	-	1,00
HBF 50 T4 (A2:6) F300 (37,5º)	0,75	33,39	40,82	5.305,99	149,96	0,67	-	1,00
HBF 50 T4 (A2:6) F300 (40º)	0,75	32,52	39,68	5.697,74	149,25	0,74	-	1,00
HBF 50 T4 (A2:9) F300 (20º)	0,55	34,41	43,41	2.925,68	157,75	0,38	-	1,00
HBF 50 T4 (A2:9) F300 (25º)	0,55	35,85	44,13	3.864,26	160,46	0,49	-	1,00
HBF 50 T4 (A2:9) F300 (27,5º)	0,55	36,16	44,25	4.147,19	162,39	0,53	-	1,00
HBF 50 T4 (A2:9) F300 (30º)	0,55	36,05	43,67	4.792,94	168,36	0,62	-	1,00
HBF 50 T4 (A2:9) F300 (32,5º)	0,75	35,75	43,11	5.153,56	173,66	0,69	-	1,00
HBF 50 T4 (A2:9) F300 (35º)	0,75	34,78	41,84	5.495,77	178,61	0,77	-	1,00
HBF 50 T4 (A2:9) F300 (37,5º)	0,75	34,91	41,69	5.771,79	181,84	0,85	-	1,00
HBF 50 T4 (A2:9) F300 (40º)	1,10	34,63	41,19	6.165,15	181,75	0,92	-	1,00
HBF 56 T4 (A2:6) F300 (20º)	0,55	39,50	48,34	3.969,63	143,17	0,40	-	1,00
HBF 56 T4 (A2:6) F300 (25º)	0,55	40,72	48,71	5.044,70	157,43	0,55	-	1,00
HBF 56 T4 (A2:6) F300 (27,5º)	0,55	40,19	47,95	5.278,03	162,12	0,60	-	1,00
HBF 56 T4 (A2:6) F300 (30º)	0,75	39,35	46,61	5.872,41	171,38	0,71	-	1,00
HBF 56 T4 (A2:6) F300 (32,5º)	0,75	37,90	44,79	6.310,45	175,89	0,81	-	1,00
HBF 56 T4 (A2:6) F300 (35º)	1,10	37,12	43,72	6.832,34	177,69	0,91	-	1,00
HBF 56 T4 (A2:6) F300 (37,5º)	1,10	36,40	42,74	7.346,23	176,58	1	-	1,00
HBF 56 T4 (A2:6) F300 (40º)	1,10	35,48	41,56	7.847,95	176,37	1,10	-	1,00
HBF 56 T4 (A2:9) F300 (20º)	0,55	39,14	47,15	4.177,56	178,97	0,54	-	1,00
HBF 56 T4 (A2:9) F300 (25º)	0,75	40,72	47,95	5.355,11	192,52	0,72	-	1,00
HBF 56 T4 (A2:9) F300 (27,5º)	0,75	40,31	47,30	5.702,30	196,77	0,79	-	1,00
HBF 56 T4 (A2:9) F300 (30º)	1,10	39,88	46,38	6.502,10	206,44	0,94	-	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
HBF 56 T4 (A2:9) F300 (32,5º)	1,10	38,75	44,94	6.951,85	211,78	1,05	-	1,00
HBF 56 T4 (A2:9) F300 (35º)	1,10	37,65	43,54	7.379,63	217,56	1,17	-	1,00
HBF 56 T4 (A2:9) F300 (37,5º)	1,50	37,32	42,96	7.951,23	215,55	1,29	-	1,00
HBF 56 T4 (A2:9) F300 (40º)	1,50	36,33	41,71	8.466,18	215,86	1,42	-	1,00
HBF 56 T4 (A2:9) F300 (42,5º)	1,50	34,80	39,80	9.071,54	220,61	1,62	-	1,00
HBF 56 T4 (A2:9) F300 (45º)	1,50	34,07	38,90	9.497,57	219,03	1,73	-	1,00
HBF 63 T4 (A2:6) F300 (20º)	0,55	43	51,15	5.225,65	151,70	0,51	-	1,00
HBF 63 T4 (A2:6) F300 (25º)	0,75	43,90	51,06	6.787,03	170,70	0,74	-	1,00
HBF 63 T4 (A2:6) F300 (27,5º)	0,75	43,73	50,63	7.152,59	178,13	0,81	-	1,00
HBF 63 T4 (A2:6) F300 (30º)	1,10	43,70	50,05	8.211,79	189,08	0,99	-	1,00
HBF 63 T4 (A2:6) F300 (32,5º)	1,10	42,06	48,01	8.751,68	198,59	1,15	-	1,00
HBF 63 T4 (A2:6) F300 (35º)	1,50	40,90	46,49	9.528,75	202,44	1,31	-	1,00
HBF 63 T4 (A2:6) F300 (37,5º)	1,50	39,32	44,59	10.160,63	205,80	1,47	-	1,00
HBF 63 T4 (A2:6) F300 (40º)	1,50	37,66	42,62	10.828,36	208,34	1,65	-	1,00
HBF 63 T4 (A2:6) F300 (42,5º)	2,20	38,45	43,29	12.264,89	192,45	1,73	-	1,00
HBF 63 T4 (A2:6) F300 (45º)	2,20	37,39	42,13	12.927,90	184,90	1,79	-	1,00
HBF 63 T4 (A2:9) F300 (20º)	0,75	43,29	50,31	5.781,15	204,30	0,78	-	1,00
HBF 63 T4 (A2:9) F300 (25º)	1,10	44,76	50,97	7.506,96	220,32	1,04	-	1,00
HBF 63 T4 (A2:9) F300 (27,5º)	1,10	44,25	50,17	7.957,84	229,33	1,16	-	1,00
HBF 63 T4 (A2:9) F300 (30º)	1,50	43,70	49,02	9.185,80	242,74	1,44	-	1,00
HBF 63 T4 (A2:9) F300 (32,5º)	1,50	41,84	46,75	9.854,45	254,40	1,68	-	1,00
HBF 63 T4 (A2:9) F300 (35º)	2,20	41,65	46,29	10.519,06	264,43	1,86	-	1,00
HBF 63 T4 (A2:9) F300 (37,5º)	2,20	40,43	44,79	11.289,91	263,93	2,05	-	1,00
HBF 63 T4 (A2:9) F300 (40º)	2,20	39,64	43,74	11.923,30	267,25	2,26	-	1,00
HBF 63 T4 (A2:9) F300 (42,5º)	3	38,54	42,35	13.373,29	256,94	2,51	-	1,00
HBF 63 T4 (A2:9) F300 (45º)	3	37,64	41,31	14.035,81	251,72	2,64	-	1,00
HBF 71 T4 (A2:6) F300 (20º)	0,75	46,52	53,79	6.693,05	177,48	0,71	-	1,00
HBF 71 T4 (A2:6) F300 (25º)	1,10	47,36	53,52	9.067,66	198,82	1,06	-	1,00
HBF 71 T4 (A2:6) F300 (27,5º)	1,10	46,74	52,60	9.672,74	205,67	1,19	-	1,00
HBF 71 T4 (A2:6) F300 (30º)	1,50	45,67	50,88	11.398,37	215,16	1,50	-	1,00
HBF 71 T4 (A2:6) F300 (32,5º)	2,20	46	50,90	12.306,76	226,21	1,68	-	1,00
HBF 71 T4 (A2:6) F300 (35º)	2,20	44,46	48,97	13.335,42	233,64	1,95	-	1,00
HBF 71 T4 (A2:6) F300 (37,5º)	2,20	42,67	46,91	14.227,26	231,84	2,14	-	1,00
HBF 71 T4 (A2:6) F300 (40º)	2,20	41,19	45,13	15.285,15	230,04	2,39	-	1,00
HBF 71 T4 (A2:6) F300 (42,5º)	3	39,05	42,69	17.155,94	216,44	2,68	-	1,00
HBF 71 T4 (A2:6) F300 (45º)	3	37,55	41,03	18.177,23	208,44	2,83	-	1,00
HBF 71 T4 (A2:9) F300 (20º)	1,10	46,93	53,18	7.169,56	240,27	1,03	-	1,00
HBF 71 T4 (A2:9) F300 (25º)	1,50	47,74	53,03	9.970,66	246,53	1,46	-	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
HBF 71 T4 (A2:9) F300 (27,5º)	1,50	47,20	52,19	10.667,30	254,53	1,63	-	1,00
HBF 71 T4 (A2:9) F300 (30º)	2,20	47,31	51,76	12.170,84	275,49	1,99	-	1,00
HBF 71 T4 (A2:9) F300 (32,5º)	2,20	45,87	49,91	13.265,77	282,89	2,30	-	1,00
HBF 71 T4 (A2:9) F300 (35º)	3	44,49	48,18	14.298,13	291,03	2,62	-	1,00
HBF 71 T4 (A2:9) F300 (37,5º)	3	42,93	46,30	15.514,85	292,13	2,95	-	1,00
HBF 71 T4 (A2:9) F300 (40º)	3	41,27	44,32	16.626,92	295,73	3,31	-	1,00
HBF 71 T4 (A2:9) F300 (42,5º)	4	39,22	42	17.815,18	291,09	3,66	-	1,00
HBF 71 T4 (A2:9) F300 (45º)	4	38,13	40,79	18.232,53	290,03	3,82	-	1,00
HBF 80 T4 (A2:6) F300 (20º)	1,10	49,57	56,06	8.454,12	198,66	0,94	-	1,00
HBF 80 T4 (A2:6) F300 (25º)	1,50	48,97	54,26	11.934,82	214,96	1,46	-	1,00
HBF 80 T4 (A2:6) F300 (27,5º)	1,50	48,80	53,78	12.962,21	220,84	1,64	-	1,00
HBF 80 T4 (A2:6) F300 (30º)	2,20	49,15	53,49	15.275,48	237,25	2,06	-	1,00
HBF 80 T4 (A2:6) F300 (32,5º)	2,20	47,55	51,46	16.765,90	245,33	2,42	-	1,00
HBF 80 T4 (A2:6) F300 (35º)	3	46,69	50,23	18.299,90	253,55	2,77	-	1,00
HBF 80 T4 (A2:6) F300 (37,5º)	3	44,19	47,36	19.436	259,82	3,17	-	1,00
HBF 80 T4 (A2:6) F300 (40º)	4	42,18	45,03	20.718,82	263,42	3,57	-	1,00
HBF 80 T4 (A2:6) F300 (42,5º)	4	38,86	41,23	23.022,12	253,88	4,24	-	1,00
HBF 80 T4 (A2:6) F300 (45º)	5,50	37,46	39,65	24.062,56	249,97	4,53	-	1,00
HBF 80 T4 (A2:9) F300 (20º)	1,50	48,88	54,23	9.272,56	270,06	1,43	-	1,00
HBF 80 T4 (A2:9) F300 (25º)	2,20	49,65	53,94	13.315,10	275,76	2,10	-	1,00
HBF 80 T4 (A2:9) F300 (27,5º)	2,20	48,91	52,91	14.349,42	280,76	2,34	-	1,00
HBF 80 T4 (A2:9) F300 (30º)	3	48,09	51,49	16.695,36	296,14	2,91	-	1,00
HBF 80 T4 (A2:9) F300 (32,5º)	4	46,01	48,94	18.356,63	307,65	3,46	-	1,00
HBF 80 T4 (A2:9) F300 (35º)	4	43,06	45,49	20.077,74	317,25	4,16	-	1,00
HBF 80 T4 (A2:9) F300 (37,5º)	5,50	42,36	44,51	21.303,31	329,05	4,60	-	1,00
HBF 80 T4 (A2:9) F300 (40º)	5,50	41,37	43,22	22.667,70	336,83	5,11	-	1,00
HBF 80 T4 (A2:9) F300 (42,5º)	5,50	39,66	41,16	24.903,30	330,21	5,83	-	1,00
HBF 80 T4 (A2:9) F300 (45º)	7,50	39,12	40,49	26.306,69	323,28	6,11	-	1,00
HBF 90 T4 (A6:3) F300 (20º)	3	49,48	53,37	16.693,34	259,71	2,44	-	1,00
HBF 90 T4 (A6:3) F300 (22º)	3	49,48	52,93	18.235,35	278,87	2,86	-	1,00
HBF 90 T4 (A6:3) F300 (24º)	3	48,91	51,94	19.576,34	299,50	3,33	-	1,00
HBF 90 T4 (A6:3) F300 (26º)	4	48,42	51,10	20.713,84	319,81	3,79	-	1,00
HBF 90 T4 (A6:3) F300 (28º)	4	47,15	49,45	22.000,29	336,53	4,35	-	1,00
HBF 90 T4 (A6:3) F300 (30º)	5,50	45,25	47,25	23.510,27	338,41	4,86	-	1,00
HBF 90 T4 (A6:3) F300 (32º)	5,50	42,62	44,31	25.227,35	334,13	5,45	-	1,00
HBF 90 T4 (A6:3) F300 (34º)	7,50	40,65	42,06	27.055,27	328,88	6,03	-	1,00
HBF 90 T4 (A6:3) F300 (36º)	7,50	37,75	38,83	28.689,54	325,77	6,81	-	1,00
HBF 90 T4 (A6:6) F300 (20º)	4	51,65	54,11	19.702,53	382,88	4,11	-	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
HBF 90 T4 (A6:6) F300 (22º)	5,50	51,79	53,83	21.611,94	408,68	4,79	-	1,00
HBF 90 T4 (A6:6) F300 (24º)	5,50	51,19	52,81	23.371,10	434,30	5,57	-	1,00
HBF 90 T4 (A6:6) F300 (26º)	7,50	50,40	51,66	24.816,51	459,33	6,36	-	1,00
HBF 90 T4 (A6:6) F300 (28º)	7,50	48,83	49,71	26.205,95	486,59	7,33	-	1,00
HBF 90 T4 (A6:6) F300 (30º)	11	47,44	48	27.630,18	503,61	8,21	-	1,00
HBF 90 T4 (A6:6) F300 (32º)	11	45,66	45,91	28.935,47	520,97	9,19	-	1,00
HBF 90 T4 (A6:6) F300 (34º)	11	43,91	43,97	30.419,34	532,42	10,22	-	1,00
HBF 90 T4 (A6:6) F300 (36º)	11	42,79	42,79	32.385,19	531,23	11,21	-	1,00
HBF 90 T4 (A6:6) F300 (38º)	15	42,48	42,42	34.504,59	529,52	12,11	-	1,00
HBF 90 T4 (A6:6) F300 (40º)	15	40,36	40,23	36.606,89	513,55	13,16	-	1,00
HBF 100 T4 (A6:3) F300 (20º)	5,50	55,32	58,20	22.216,67	314,13	3,52	-	1,00
HBF 100 T4 (A6:3) F300 (22º)	5,50	55,25	57,67	24.256,03	339,92	4,16	-	1,00
HBF 100 T4 (A6:3) F300 (24º)	5,50	54,63	56,63	26.124,20	364,64	4,85	-	1,00
HBF 100 T4 (A6:3) F300 (26º)	5,50	53,13	54,74	27.576,59	388,56	5,61	-	1,00
HBF 100 T4 (A6:3) F300 (28º)	7,50	52,39	53,66	29.163,87	409,97	6,35	-	1,00
HBF 100 T4 (A6:3) F300 (30º)	7,50	49,43	50,36	31.442,64	405,59	7,17	-	1,00
HBF 100 T4 (A6:3) F300 (32º)	7,50	46,20	46,80	34.007,64	397,20	8,10	-	1,00
HBF 100 T4 (A6:3) F300 (34º)	11	43,36	43,67	36.670,05	386,37	9,01	-	1,00
HBF 100 T4 (A6:3) F300 (36º)	11	40,01	40,09	39.067,57	371,78	10,01	-	1,00
HBF 100 T4 (A6:6) F300 (20º)	5,50	54,64	56,06	25.723,62	451,75	6,02	-	1,00
HBF 100 T4 (A6:6) F300 (22º)	7,50	55,32	56,28	28.620,96	481,22	7,08	-	1,00
HBF 100 T4 (A6:6) F300 (24º)	11	55,49	56,06	31.222,01	513,18	8,18	-	1,00
HBF 100 T4 (A6:6) F300 (26º)	11	54,80	55,02	33.373,14	542,88	9,30	-	1,00
HBF 100 T4 (A6:6) F300 (28º)	11	53,50	53,54	35.685,21	570,34	10,63	-	1,00
HBF 100 T4 (A6:6) F300 (30º)	15	52,08	52,04	38.456,85	576,34	11,84	-	1,00
HBF 100 T4 (A6:6) F300 (32º)	15	50,01	49,87	41.349,50	579,92	13,28	-	1,00
HBF 100 T4 (A6:6) F300 (34º)	15	47,85	47,62	44.169,32	585,55	14,89	-	1,00
HBF 100 T4 (A6:6) F300 (36º)	18,50	45,75	45,44	46.539,65	591,98	16,49	-	1,00
HBF 100 T4 (A6:6) F300 (38º)	18,50	43,32	42,93	49.119	594,08	18,39	-	1,00
HBF 100 T4 (A6:6) F300 (40º)	22	42,33	41,87	51.973,76	578,70	20	-	1,00
HBF 100 T4 (A6:6) F300 (42º)	22	39,68	39,16	54.834,87	557,75	21,65	-	1,00
HBF 112 T4 (A6:3) F300 (20º)	5,50	52,27	54,33	25.914,05	344,47	4,75	-	1,00
HBF 112 T4 (A6:3) F300 (22º)	5,50	53,96	55,54	29.453,90	372,35	5,65	-	1,00
HBF 112 T4 (A6:3) F300 (24º)	7,50	54,98	56,15	32.837,66	396,79	6,59	-	1,00
HBF 112 T4 (A6:3) F300 (26º)	7,50	53,02	53,73	35.883,26	414,46	7,79	-	1,00
HBF 112 T4 (A6:3) F300 (28º)	11	51,86	52,16	39.068,57	430,75	9,01	-	1,00
HBF 112 T4 (A6:3) F300 (30º)	11	49,46	49,53	41.709,62	436,01	10,20	-	1,00
HBF 112 T4 (A6:3) F300 (32º)	11	46,85	46,82	44.574,55	438,44	11,54	-	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
HBF 112 T4 (A6:3) F300 (34º)	15	44,43	44,31	47.332,57	438,02	12,87	-	1,00
HBF 112 T4 (A6:3) F300 (36º)	15	41,13	40,92	49.777,37	432,80	14,45	-	1,00
HBF 112 T4 (A6:6) F300 (20º)	11	53,02	53,53	30.140,08	525,22	8,36	-	1,00
HBF 112 T4 (A6:6) F300 (22º)	11	54,31	54,36	34.291,63	554,83	9,86	-	1,00
HBF 112 T4 (A6:6) F300 (24º)	11	54,48	54,45	38.361,11	582,31	11,58	-	1,00
HBF 112 T4 (A6:6) F300 (26º)	15	55,01	54,88	42.673,82	597,64	13,09	-	1,00
HBF 112 T4 (A6:6) F300 (28º)	15	55,04	54,82	46.962,19	616,02	14,87	-	1,00
HBF 112 T4 (A6:6) F300 (30º)	18,50	54,11	53,79	50.340,37	643,69	16,77	-	1,00
HBF 112 T4 (A6:6) F300 (32º)	18,50	52,85	52,44	53.652,80	671,44	18,89	-	1,00
HBF 112 T4 (A6:6) F300 (34º)	22	51,29	50,80	57.011,21	690,48	21,10	-	1,00
HBF 112 T4 (A6:6) F300 (36º)	22	49	48,42	60.046	699,60	23,44	-	1,00
HBF 112 T4 (A6:6) F300 (38º)	30	46,88	46,22	63.115,57	707,05	25,91	-	1,00
HBF 112 T4 (A6:6) F300 (40º)	30	46,08	45,34	67.310,70	692,60	28,57	-	1,00
HBF 112 T4 (A6:6) F300 (42º)	30	43,56	42,75	71.678,17	677,08	31,50	-	1,00
HBF 125 T4 (A6:3) F300 (20º)	7,50	53,51	54,92	33.064,11	350,12	6,02	-	1,00
HBF 125 T4 (A6:3) F300 (22º)	7,50	55,38	56,27	37.360,18	388,48	7,28	-	1,00
HBF 125 T4 (A6:3) F300 (24º)	11	55,42	55,85	41.982,05	409,66	8,63	-	1,00
HBF 125 T4 (A6:3) F300 (26º)	11	53,51	53,57	47.172,58	418,94	10,27	-	1,00
HBF 125 T4 (A6:3) F300 (28º)	15	52,29	52,23	52.217,22	431,02	11,97	-	1,00
HBF 125 T4 (A6:3) F300 (30º)	15	50,17	50	57.067,32	439,65	13,88	-	1,00
HBF 125 T4 (A6:3) F300 (32º)	15	47,87	47,58	62.035,01	448,30	16,07	-	1,00
HBF 125 T4 (A6:3) F300 (34º)	18,50	45,12	44,73	65.624,26	451,84	18,17	-	1,00
HBF 125 T4 (A6:3) F300 (36º)	22	41,81	41,34	68.040,34	454,67	20,47	-	1,00
HBF 125 T4 (A6:6) F300 (20º)	11	53,06	53,04	39.763,23	540,13	11,34	-	1,00
HBF 125 T4 (A6:6) F300 (22º)	15	53,45	53,30	45.476,02	566,28	13,51	-	1,00
HBF 125 T4 (A6:6) F300 (24º)	15	53,37	53,08	51.244,49	595,14	16,04	-	1,00
HBF 125 T4 (A6:6) F300 (26º)	18,50	53,21	52,80	56.987,84	625,07	18,78	-	1,00
HBF 125 T4 (A6:6) F300 (28º)	22	52,70	52,17	62.464,06	656,87	21,82	-	1,00
HBF 125 T4 (A6:6) F300 (30º)	30	52,16	51,54	67.880,08	680,67	24,71	-	1,00
HBF 125 T4 (A6:6) F300 (32º)	30	51,12	50,40	72.600,72	716,17	28,02	-	1,00
HBF 125 T4 (A6:6) F300 (34º)	30	49,59	48,79	77.604,82	729,46	31,31	-	1,00
HBF 125 T4 (A6:6) F300 (36º)	37	47,56	46,67	81.790,18	740,61	34,63	-	1,00
HBF 125 T4 (A6:6) F300 (38º)	37	45,24	44,27	86.114,40	744,66	38,38	-	1,00
HBF 125 T4 (A6:6) F300 (40º)	45	44,39	43,36	92.734,64	714,48	42,10	-	1,00
HBF 125 T4 (A6:6) F300 (42º)	45	40,94	39,83	99.372,57	680,03	46,31	-	1,00

ERP / 6 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
HBF 63 T6 (A2:6) F300 (20º)	0,55	28,13	38,69	3.400,85	63,35	0,21	-	1,00
HBF 63 T6 (A2:6) F300 (25º)	0,55	32,42	42,32	4.391,59	71,92	0,27	-	1,00
HBF 63 T6 (A2:6) F300 (27,5º)	0,55	33,24	42,95	4.670,33	74,15	0,29	-	1,00
HBF 63 T6 (A2:6) F300 (30º)	0,55	34,65	43,94	5.305,17	79,80	0,34	-	1,00
HBF 63 T6 (A2:6) F300 (32,5º)	0,55	34,57	43,55	5.731,22	82,63	0,38	-	1,00
HBF 63 T6 (A2:6) F300 (35º)	0,55	34,21	42,88	6.177,49	85,20	0,43	-	1,00
HBF 63 T6 (A2:6) F300 (37,5º)	0,55	33,50	41,91	6.603,71	86,12	0,47	-	1,00
HBF 63 T6 (A2:6) F300 (40º)	0,55	32,59	40,72	7.044,32	86,92	0,52	-	1,00
HBF 63 T6 (A2:6) F300 (42,5º)	0,55	32,45	40,40	7.929,53	80,66	0,55	-	1,00
HBF 63 T6 (A2:6) F300 (45º)	0,55	31,96	39,83	8.317,83	78,25	0,57	-	1,00
HBF 63 T6 (A2:9) F300 (20º)	0,55	32,31	42,12	3.740,52	85,77	0,28	-	1,00
HBF 63 T6 (A2:9) F300 (25º)	0,55	35,78	44,95	4.865,84	92,40	0,35	-	1,00
HBF 63 T6 (A2:9) F300 (27,5º)	0,55	36,35	45,30	5.181,30	95,75	0,38	-	1,00
HBF 63 T6 (A2:9) F300 (30º)	0,55	36,93	45,38	5.930,76	102,27	0,46	-	1,00
HBF 63 T6 (A2:9) F300 (32,5º)	0,55	36,33	44,43	6.393,35	106,42	0,52	-	1,00
HBF 63 T6 (A2:9) F300 (35º)	0,55	35,53	43,29	6.879,46	109,98	0,59	-	1,00
HBF 63 T6 (A2:9) F300 (37,5º)	0,55	34,75	42,28	7.283,29	111,45	0,65	-	1,00
HBF 63 T6 (A2:9) F300 (40º)	0,55	34,56	41,84	7.804,19	111,33	0,71	-	1,00
HBF 63 T6 (A2:9) F300 (42,5º)	0,75	34,55	41,63	8.615,40	108,10	0,76	-	1,00
HBF 63 T6 (A2:9) F300 (45º)	0,75	33,63	40,56	9.135,64	105,27	0,80	-	1,00
HBF 71 T6 (A2:6) F300 (20º)	0,55	33,89	43,86	4.365,94	73,88	0,27	-	1,00
HBF 71 T6 (A2:6) F300 (25º)	0,55	38,09	47,23	5.862,77	83,51	0,36	-	1,00
HBF 71 T6 (A2:6) F300 (27,5º)	0,55	38,64	47,55	6.298,99	85,80	0,39	-	1,00
HBF 71 T6 (A2:6) F300 (30º)	0,55	39,08	47,43	7.387,26	90,37	0,48	-	1,00
HBF 71 T6 (A2:6) F300 (32,5º)	0,55	38,66	46,67	7.913,31	95,25	0,54	-	1,00
HBF 71 T6 (A2:6) F300 (35º)	0,55	38,07	45,73	8.577,07	98,51	0,62	-	1,00
HBF 71 T6 (A2:6) F300 (37,5º)	0,55	37,06	44,49	9.267,79	96,89	0,67	-	1,00
HBF 71 T6 (A2:6) F300 (40º)	0,75	36,75	43,96	9.955,11	95,81	0,72	-	1,00
HBF 71 T6 (A2:6) F300 (42,5º)	0,75	34,96	41,86	11.107,13	90,75	0,81	-	1,00
HBF 71 T6 (A2:6) F300 (45º)	0,75	33,83	40,59	11.700,58	88,29	0,86	-	1,00
HBF 71 T6 (A2:9) F300 (20º)	0,55	37,57	46,78	4.609,45	101,98	0,35	-	1,00
HBF 71 T6 (A2:9) F300 (25º)	0,55	40,60	49,02	6.464,40	103,53	0,47	-	1,00
HBF 71 T6 (A2:9) F300 (27,5º)	0,55	40,73	48,89	6.902,24	106,92	0,51	-	1,00
HBF 71 T6 (A2:9) F300 (30º)	0,55	40,59	48,19	7.857,81	115,78	0,63	-	1,00
HBF 71 T6 (A2:9) F300 (32,5º)	0,75	40,90	48,21	8.597,74	118,42	0,70	-	1,00
HBF 71 T6 (A2:9) F300 (35º)	0,75	39,77	46,72	9.248,08	121,99	0,80	-	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
HBF 71 T6 (A2:9) F300 (37,5º)	0,75	38,45	45,08	10.074,12	122,31	0,90	-	1,00
HBF 71 T6 (A2:9) F300 (40º)	1,10	38,11	44,50	10.814,29	123,74	0,98	-	1,00
HBF 71 T6 (A2:9) F300 (42,5º)	1,10	36,34	42,44	11.702,63	120,99	1,09	-	1,00
HBF 71 T6 (A2:9) F300 (45º)	1,10	35,69	41,66	12.134,12	119,98	1,14	-	1,00
HBF 80 T6 (A2:6) F300 (20º)	0,75	40,56	50,07	5.479,43	83,20	0,31	-	1,00
HBF 80 T6 (A2:6) F300 (25º)	0,75	42,98	51,48	7.768,17	89,77	0,45	-	1,00
HBF 80 T6 (A2:6) F300 (27,5º)	0,75	43,50	51,73	8.433,41	92,33	0,50	-	1,00
HBF 80 T6 (A2:6) F300 (30º)	0,75	43,48	51,05	9.956,46	99,18	0,64	-	1,00
HBF 80 T6 (A2:6) F300 (32,5º)	0,75	42,81	49,99	10.908,68	102,83	0,73	-	1,00
HBF 80 T6 (A2:6) F300 (35º)	0,75	41,81	48,61	11.922,28	105,88	0,84	-	1,00
HBF 80 T6 (A2:6) F300 (37,5º)	1,10	40,61	47,12	12.610,76	108,67	0,94	-	1,00
HBF 80 T6 (A2:6) F300 (40º)	1,10	38,49	44,65	13.432,30	110,26	1,06	-	1,00
HBF 80 T6 (A2:6) F300 (42,5º)	1,10	35,41	41,11	14.788,69	106,85	1,26	-	1,00
HBF 80 T6 (A2:6) F300 (45º)	1,50	34,72	40,27	15.600,46	104,75	1,33	-	1,00
HBF 80 T6 (A2:9) F300 (20º)	0,75	42,82	51,38	5.956,95	114,47	0,44	-	1,00
HBF 80 T6 (A2:9) F300 (25º)	0,75	43,88	51,41	8.561,90	117,05	0,65	-	1,00
HBF 80 T6 (A2:9) F300 (27,5º)	0,75	43,76	51,03	9.237,42	118,98	0,71	-	1,00
HBF 80 T6 (A2:9) F300 (30º)	0,75	43,13	49,80	10.827,44	124,35	0,88	-	1,00
HBF 80 T6 (A2:9) F300 (32,5º)	1,10	42,07	48,32	11.913,68	129,08	1,03	-	1,00
HBF 80 T6 (A2:9) F300 (35º)	1,10	39,42	45,18	13.000,06	133,55	1,24	-	1,00
HBF 80 T6 (A2:9) F300 (37,5º)	1,50	39,29	44,80	13.828,85	137,97	1,35	-	1,00
HBF 80 T6 (A2:9) F300 (40º)	1,50	38,31	43,52	14.652,07	141,76	1,50	-	1,00
HBF 80 T6 (A2:9) F300 (42,5º)	1,50	36,50	41,34	16.175,03	137,90	1,72	-	1,00
HBF 80 T6 (A2:9) F300 (45º)	2,20	36,41	41,16	16.943,99	136,09	1,78	-	1,00
HBF 90 T6 (A6:3) F300 (20º)	1,50	44,39	51,55	10.796,34	109,38	0,74	-	1,00
HBF 90 T6 (A6:3) F300 (22º)	1,50	45,17	51,94	11.780,33	117,53	0,85	-	1,00
HBF 90 T6 (A6:3) F300 (24º)	1,50	45,39	51,78	12.718,52	125,57	0,98	-	1,00
HBF 90 T6 (A6:3) F300 (26º)	1,50	44,80	50,84	13.481,34	133,50	1,11	-	1,00
HBF 90 T6 (A6:3) F300 (28º)	1,50	44,04	49,72	14.268,92	141,08	1,27	-	1,00
HBF 90 T6 (A6:3) F300 (30º)	1,50	41,81	47,17	15.188,29	142,14	1,43	-	1,00
HBF 90 T6 (A6:3) F300 (32º)	1,50	39,43	44,46	16.348,41	140,55	1,61	-	1,00
HBF 90 T6 (A6:3) F300 (34º)	2,20	37,76	42,54	17.582,02	137,47	1,76	-	1,00
HBF 90 T6 (A6:3) F300 (36º)	2,20	35,27	39,72	18.590,96	136,91	1,98	-	1,00
HBF 90 T6 (A6:6) F300 (20º)	1,50	48,09	53,92	12.813,24	160,06	1,20	-	1,00
HBF 90 T6 (A6:6) F300 (22º)	1,50	47,97	53,36	14.023,38	171,12	1,41	-	1,00
HBF 90 T6 (A6:6) F300 (24º)	1,50	47,40	52,38	15.125,21	183,32	1,64	-	1,00
HBF 90 T6 (A6:6) F300 (26º)	2,20	46,82	51,46	16.004,94	193,83	1,86	-	1,00
HBF 90 T6 (A6:6) F300 (28º)	2,20	45,61	49,87	17.018,93	202,93	2,13	-	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
HBF 90 T6 (A6:6) F300 (30º)	2,20	43,94	47,86	17.906,13	211,20	2,41	-	1,00
HBF 90 T6 (A6:6) F300 (32º)	3	42,83	46,48	18.702,41	219,42	2,67	-	1,00
HBF 90 T6 (A6:6) F300 (34º)	3	41,10	44,46	19.606,63	224,30	2,96	-	1,00
HBF 90 T6 (A6:6) F300 (36º)	3	40,17	43,27	20.889,99	224,12	3,25	-	1,00
HBF 90 T6 (A6:6) F300 (38º)	4	40,03	42,93	22.384,19	221,62	3,50	-	1,00
HBF 90 T6 (A6:6) F300 (40º)	4	37,89	40,56	23.536,61	217,15	3,81	-	1,00
HBF 100 T6 (A6:3) F300 (20º)	3	49,21	55,35	14.376,50	131,98	1,07	-	1,00
HBF 100 T6 (A6:3) F300 (22º)	3	50,30	56,02	15.679,51	143,52	1,25	-	1,00
HBF 100 T6 (A6:3) F300 (24º)	3	50,47	55,82	16.907,27	153,55	1,43	-	1,00
HBF 100 T6 (A6:3) F300 (26º)	3	49,65	54,64	17.847,28	163	1,63	-	1,00
HBF 100 T6 (A6:3) F300 (28º)	3	48,97	53,62	18.884,58	172,48	1,85	-	1,00
HBF 100 T6 (A6:3) F300 (30º)	3	46,63	50,97	20.321,50	171,04	2,07	-	1,00
HBF 100 T6 (A6:3) F300 (32º)	3	43,77	47,78	22.010,48	166,98	2,33	-	1,00
HBF 100 T6 (A6:3) F300 (34º)	3	40,76	44,46	23.705,48	162,82	2,61	-	1,00
HBF 100 T6 (A6:3) F300 (36º)	3	37,52	40,93	25.238,70	156,35	2,90	-	1,00
HBF 100 T6 (A6:6) F300 (20º)	3	51,50	56,32	16.636,92	190,80	1,74	-	1,00
HBF 100 T6 (A6:6) F300 (22º)	3	51,83	56,19	18.491,98	202,99	2,05	-	1,00
HBF 100 T6 (A6:6) F300 (24º)	3	51,86	55,82	20.134,02	216,67	2,38	-	1,00
HBF 100 T6 (A6:6) F300 (26º)	3	51,38	54,99	21.638,62	227,79	2,70	-	1,00
HBF 100 T6 (A6:6) F300 (28º)	3	50,23	53,48	23.132,92	239,24	3,08	-	1,00
HBF 100 T6 (A6:6) F300 (30º)	4	49,04	52	24.940,22	242,16	3,42	-	1,00
HBF 100 T6 (A6:6) F300 (32º)	4	47,16	49,81	26.802,86	243,84	3,84	-	1,00
HBF 100 T6 (A6:6) F300 (34º)	4	45,07	47,40	28.574,22	246,52	4,31	-	1,00
HBF 100 T6 (A6:6) F300 (36º)	5,50	43,24	45,31	30.139	248,45	4,74	-	1,00
HBF 100 T6 (A6:6) F300 (38º)	5,50	41,03	42,80	31.800,32	249,72	5,27	-	1,00
HBF 100 T6 (A6:6) F300 (40º)	5,50	40,05	41,60	33.593,91	243,28	5,74	-	1,00
HBF 100 T6 (A6:6) F300 (42º)	7,50	38,26	39,63	35.563,73	234	6,11	-	1,00
HBF 112 T6 (A6:3) F300 (20º)	3	48,23	53,63	16.711,37	145,37	1,40	-	1,00
HBF 112 T6 (A6:3) F300 (22º)	3	50,56	55,53	19.119,12	156,08	1,64	-	1,00
HBF 112 T6 (A6:3) F300 (24º)	3	51,48	56,03	21.156,68	167,54	1,91	-	1,00
HBF 112 T6 (A6:3) F300 (26º)	3	50,25	54,38	23.136,56	174,97	2,24	-	1,00
HBF 112 T6 (A6:3) F300 (28º)	3	48,78	52,48	25.217,40	181,74	2,61	-	1,00
HBF 112 T6 (A6:3) F300 (30º)	3	46,39	49,75	27.041,71	182,70	2,96	-	1,00
HBF 112 T6 (A6:3) F300 (32º)	3	43,89	46,92	28.882,37	183,63	3,34	-	1,00
HBF 112 T6 (A6:3) F300 (34º)	4	41,87	44,61	30.645,37	184,02	3,71	-	1,00
HBF 112 T6 (A6:3) F300 (36º)	4	38,70	41,11	32.235,22	181,62	4,17	-	1,00
HBF 112 T6 (A6:3) F300 (38º)	5,50	36,22	38,36	33.932,57	179,13	4,63	-	1,00
HBF 112 T6 (A6:6) F300 (20º)	3	49,72	53,63	19.630,48	218,68	2,42	-	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
HBF 112 T6 (A6:6) F300 (22º)	3	50,98	54,43	22.197,41	233,51	2,86	-	1,00
HBF 112 T6 (A6:6) F300 (24º)	3	51,11	54,13	24.774,24	245,46	3,35	-	1,00
HBF 112 T6 (A6:6) F300 (26º)	4	51,87	54,56	27.718,03	250,41	3,78	-	1,00
HBF 112 T6 (A6:6) F300 (28º)	4	51,65	53,99	30.375,05	258,54	4,30	-	1,00
HBF 112 T6 (A6:6) F300 (30º)	5,50	51,33	53,36	32.668,73	269,88	4,81	-	1,00
HBF 112 T6 (A6:6) F300 (32º)	5,50	50,11	51,81	34.737,45	282,28	5,42	-	1,00
HBF 112 T6 (A6:6) F300 (34º)	5,50	48,66	50,06	36.948,09	289,67	6,05	-	1,00
HBF 112 T6 (A6:6) F300 (36º)	7,50	47,26	48,41	38.922,36	293,49	6,61	-	1,00
HBF 112 T6 (A6:6) F300 (38º)	7,50	44,95	45,82	40.897,04	296,53	7,35	-	1,00
HBF 112 T6 (A6:6) F300 (40º)	7,50	44,03	44,62	43.650,65	290,28	8,12	-	1,00
HBF 112 T6 (A6:6) F300 (42º)	11	42,04	42,38	46.407,37	284,72	8,89	-	1,00
HBF 125 T6 (A6:3) F300 (20º)	3	49,55	54,33	21.528,61	145,83	1,76	-	1,00
HBF 125 T6 (A6:3) F300 (22º)	3	52,17	56,47	24.177,10	163,21	2,10	-	1,00
HBF 125 T6 (A6:3) F300 (24º)	3	51,97	55,80	27.191,85	171,85	2,50	-	1,00
HBF 125 T6 (A6:3) F300 (26º)	3	50,18	53,52	30.613,41	175,32	2,98	-	1,00
HBF 125 T6 (A6:3) F300 (28º)	4	49,28	52,21	33.833,95	180,86	3,45	-	1,00
HBF 125 T6 (A6:3) F300 (30º)	4	47,28	49,81	36.919,17	184,80	4	-	1,00
HBF 125 T6 (A6:3) F300 (32º)	5,50	45,48	47,63	40.118,26	188,47	4,60	-	1,00
HBF 125 T6 (A6:3) F300 (34º)	5,50	42,83	44,64	42.469,98	190,16	5,21	-	1,00
HBF 125 T6 (A6:3) F300 (36º)	5,50	39,61	41,09	43.905,04	191,85	5,88	-	1,00
HBF 125 T6 (A6:6) F300 (20º)	3	49,76	52,83	25.661,61	228,22	3,29	-	1,00
HBF 125 T6 (A6:6) F300 (22º)	4	50,39	52,99	29.458,92	237,91	3,90	-	1,00
HBF 125 T6 (A6:6) F300 (24º)	5,50	50,75	52,91	33.183,09	250,06	4,58	-	1,00
HBF 125 T6 (A6:6) F300 (26º)	5,50	50,46	52,18	36.827,21	263,29	5,39	-	1,00
HBF 125 T6 (A6:6) F300 (28º)	7,50	50,73	52,09	40.469,74	275,05	6,15	-	1,00
HBF 125 T6 (A6:6) F300 (30º)	7,50	49,85	50,85	43.756,24	287,23	7,01	-	1,00
HBF 125 T6 (A6:6) F300 (32º)	7,50	48,97	49,61	47.046,21	300,55	7,96	-	1,00
HBF 125 T6 (A6:6) F300 (34º)	11	47,62	47,98	50.128,27	306,86	8,84	-	1,00
HBF 125 T6 (A6:6) F300 (36º)	11	45,67	45,75	53.051,35	309,96	9,80	-	1,00
HBF 125 T6 (A6:6) F300 (38º)	11	43,65	43,68	56.052,46	311,65	10,84	-	1,00
HBF 125 T6 (A6:6) F300 (40º)	11	42,38	42,33	60.368,50	297,37	11,93	-	1,00
HBF 125 T6 (A6:6) F300 (42º)	15	39,90	39,78	63.857,55	288,95	12,99	-	1,00

ERP / 4/8 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
HBF 80 T4/T8 (A2:9) F300 (20°)	1,60	63,06	69,11	9.272,56	270,06	1,11	4p	1,00
HBF 80 T4/T8 (A2:9) F300 (30°)	2,80	116,81	122,67	16.695,36	296,14	1,19	4p	1,00
HBF 80 T4/T8 (A2:9) F300 (32,5°)	3,80	92,90	97,78	18.356,63	307,65	1,70	4p	1,00
HBF 80 T4/T8 (A2:9) F300 (35°)	3,80	94,30	98,89	20.077,74	317,25	1,89	4p	1,00
HBF 90 T4/T8 (A6:6) F300 (20°)	3,80	112,03	116,64	19.702,53	382,88	1,88	4p	1,00