

HI**MANCOOLER, VARIABLE PITCH BLADES****MANUFACTURING FEATURES:**

- Reinforced fan casing manufactured in rolling steel sheet.
- Motor-impeller modular assembly for complete versatility.
- Polyamide impeller with variable pitch angle reinforced with fibreglass
- Epoxy powder finishing coat.
- Protection grids on both sides of the fan according to the ROHS 2002/95/EC Directive (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipments).
- Airstream direction adjustable.
- Fan support and protection grids supplied apart.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz in single phase motors and 230/400V 50Hz in three phase motors.

APPLICATIONS:

Designed to be easily moved, they are suitable for:

- Ventilation of working places.
- Drying of pieces and surfaces.
- Maximum working temperature: 1ph 50°C, 3ph 60°C.

UNDER REQUEST:

- Supply impeller (air direction from impeller to motor).
- 100% reversible impeller.
- Cast aluminium impeller.
- 60Hz fans and special voltages.
- 2 speed motors.
- Hot-dipped galvanised or stainless steel housings.

Accessories**FILTRO
EMC****INT****SFC**

Technical data

Single-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2613630630P+PS +RP(2x)	HI 35 M2 0,55kW	2800	3,71	0,55	4.700	59	16	1

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2613530640P+PS +RP(2x)	HI 35 M4 0,12kW	1380	1,15	0,12	3.110	42	15	1
2614030640P+PS +RP(2x)	HI 40 M4 0,25kW	1400	1,93	0,25	4.690	48	18	1
2614530640P+PS +RP(2x)	HI 45 M4 0,37kW	1400	2,82	0,37	6.620	53	21	1
2615835625P+PS +RP(2x)	HI 56 M4 0,55kW	1400	3,98	0,55	8.690	58	30	1

Single-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2615635635P+PS +RP(2x)	HI 56 M6 0,25kW	870	2,42	0,25	7.710	47	28	1
2616335635P+PS +RP(2x)	HI 63 M6 0,37kW	890	2,9	0,37	10.770	49	35	1

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2613660630P+PS +RP(2x)	HI 35 T2 0,55kW	2800	1,29	0,55	4.700	59	16	2

Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
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Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2613560640P+PS+RP(2x)	HI 35 T4 0,12kW	1400	0,46	0,12	3.110	42	15	2
2614060640P+PS+RP(2x)	HI 40 T4 0,25kW	1400	0,79	0,25	4.690	48	18	2
2614760645P+PS+RP(2x)	HI 45 T4 0,55kW	1400	1,49	0,55	7.270	50	26	2
2615865625P+PS+RP(2x)	HI 56 T4 0,55kW	1400	1,49	0,55	8.690	58	34	2
2615965633P+PS+RP(2x)	HI 56 T4 0,75kW	1390	1,63	0,75	10.820	57	38	2
2616065637P+PS+RP(2x)	HI 56 T4 1,1kW	1400	2,49	1,10	12.530	56	42	2
2616165640P+PS+RP(2x)	HI 56 T4 1,5kW	1400	3,26	1,50	13.570	57	44	2
2616565625P+PS+RP(2x)	HI 63 T4 0,75kW	1390	1,63	0,75	12.030	60	48	2
2616665630P+PS+RP(2x)	HI 63 T4 1,1kW	1400	2,49	1,10	14.750	61	52	2
2616765635P+PS+RP(2x)	HI 63 T4 1,5kW	1400	3,26	1,50	16.620	57	54	2
2616865640P+PS+RP(2x)	HI 63 T4 2,2kW	1430	4,64	2,20	18.640	59	65	2
2617365625P+PS+RP(2x)	HI 71 T4 1,1kW	1400	2,49	1,10	16.810	64	57	2
2617465630P+PS+RP(2x)	HI 71 T4 1,5kW	1400	3,26	1,50	19.970	63	60	2
2617565635P+PS+RP(2x)	HI 71 T4 2,2kW	1430	4,64	2,20	23.210	61	75	2
2617665640P+PS+RP(2x)	HI 71 T4 3kW	1430	6,17	3	25.170	65	77	2

Three-phase motor / 6 poles

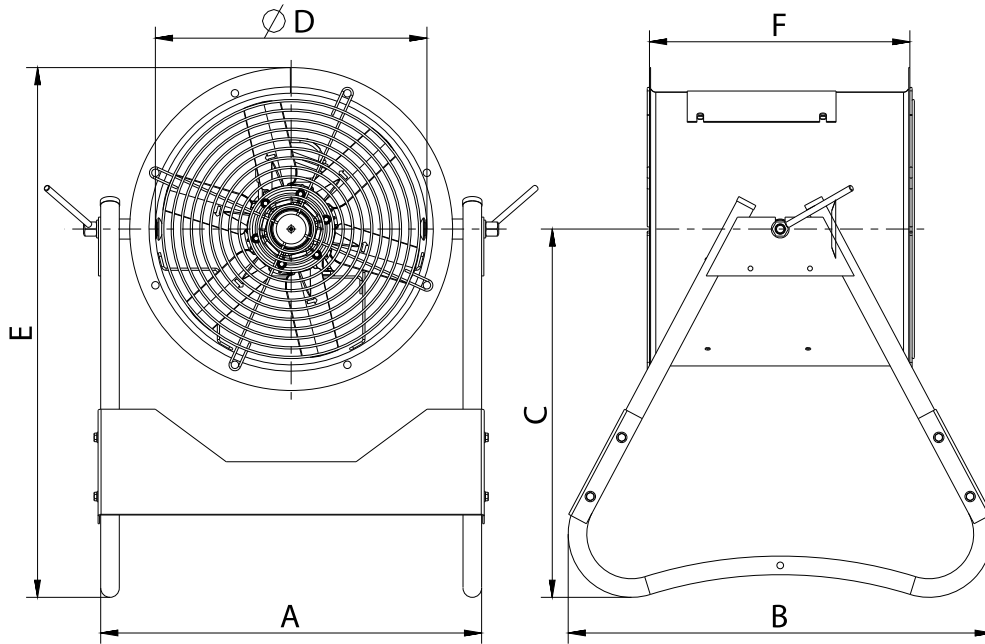
Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2615665635P+PS+RP(2x)	HI 56 T6 0,25kW	900	0,92	0,25	7.710	47	34	2
2615765640P+PS+RP(2x)	HI 56 T6 0,37kW	900	1,27	0,37	8.780	48	36	2
2616365635P+PS+RP(2x)	HI 63 T6 0,37kW	900	1,27	0,37	10.770	49	46	2
2616265640P+PS+RP(2x)	HI 63 T6 0,55kW	900	1,8	0,55	12.060	50	48	2



Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
2617265640P+PS +RP(2x)	HI 71 T6 0,75kW	910	1,95	0,75	16.260	57	53	2

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

Dimensions



Model	A	B	C	DØ	E	F
HI 35 M2 0,55kW	512	570	495	365	712	395
HI 35 M4 0,12kW	512	570	495	365	712	350
HI 35 T2 0,55kW	512	570	495	365	712	395
HI 35 T4 0,12kW	512	570	495	365	712	350
HI 40 M4 0,25kW	553	570	495	403	731	440
HI 40 T4 0,25kW	553	570	495	403	731	440
HI 45 M4 0,37kW	613	570	495	452	757,5	455
HI 45 T4 0,55kW	613	570	495	452	757,5	455
HI 56 M4 0,55kW	713	700	650	559	973	560
HI 56 M6 0,25kW	713	700	650	559	973	560
HI 56 T4 0,55kW	713	700	650	559	973	560
HI 56 T4 0,75kW	713	700	650	559	973	560
HI 56 T4 1,1kW	713	700	650	559	973	560
HI 56 T4 1,5kW	713	700	650	559	973	560
HI 56 T6 0,25kW	713	700	650	559	973	560
HI 56 T6 0,37kW	713	700	650	559	973	560
HI 63 M6 0,37kW	783	700	650	633	1012,5	550
HI 63 T4 0,75kW	783	700	650	633	1012,5	550
HI 63 T4 1,1kW	783	700	650	633	1012,5	550
HI 63 T4 1,5kW	783	700	650	633	1012,5	550
HI 63 T4 2,2kW	783	700	650	633	1012,5	550

Model	A	B	C	DØ	E	F
HI 63 T6 0,37kW	783	700	650	633	1012,5	550
HI 63 T6 0,55kW	783	700	650	633	1012,5	550
HI 71 T4 1,1kW	868	700	650	716	1051	600
HI 71 T4 1,5kW	868	700	650	716	1051	600
HI 71 T4 2,2kW	868	700	650	716	1051	600
HI 71 T4 3kW	868	700	650	716	1051	600
HI 71 T6 0,75kW	868	700	650	716	1051	600

Wiring diagram

DIAGRAM Nº 1

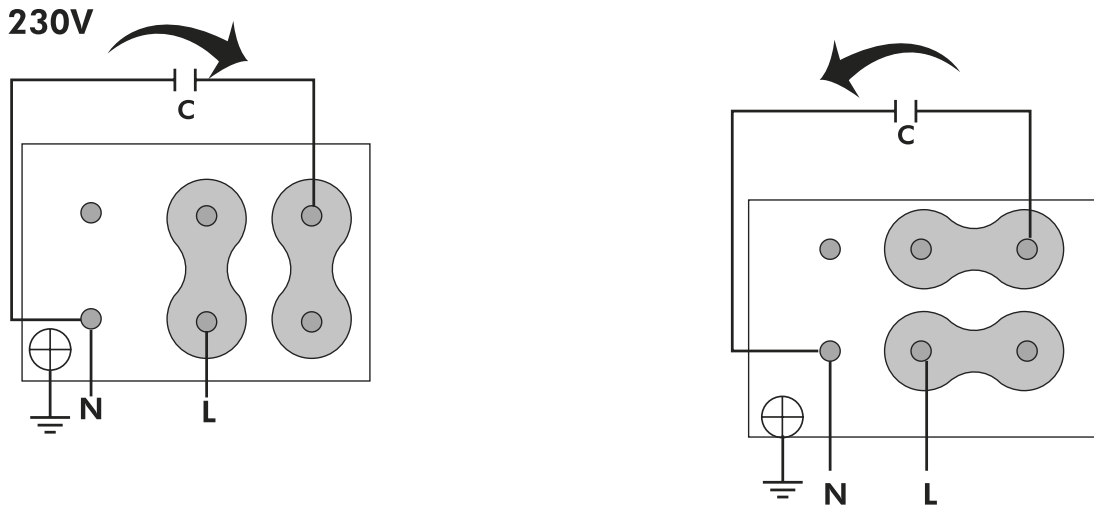
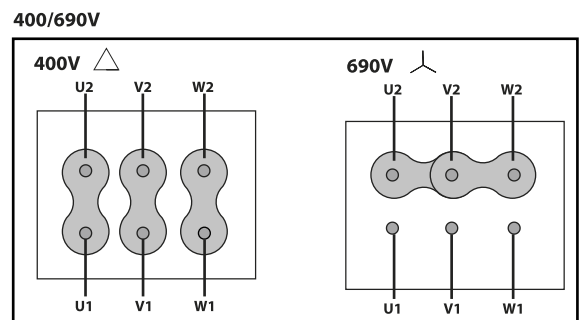
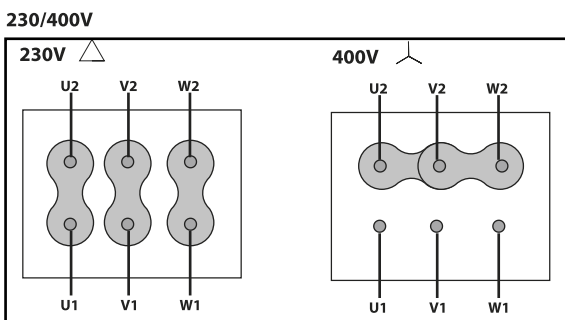


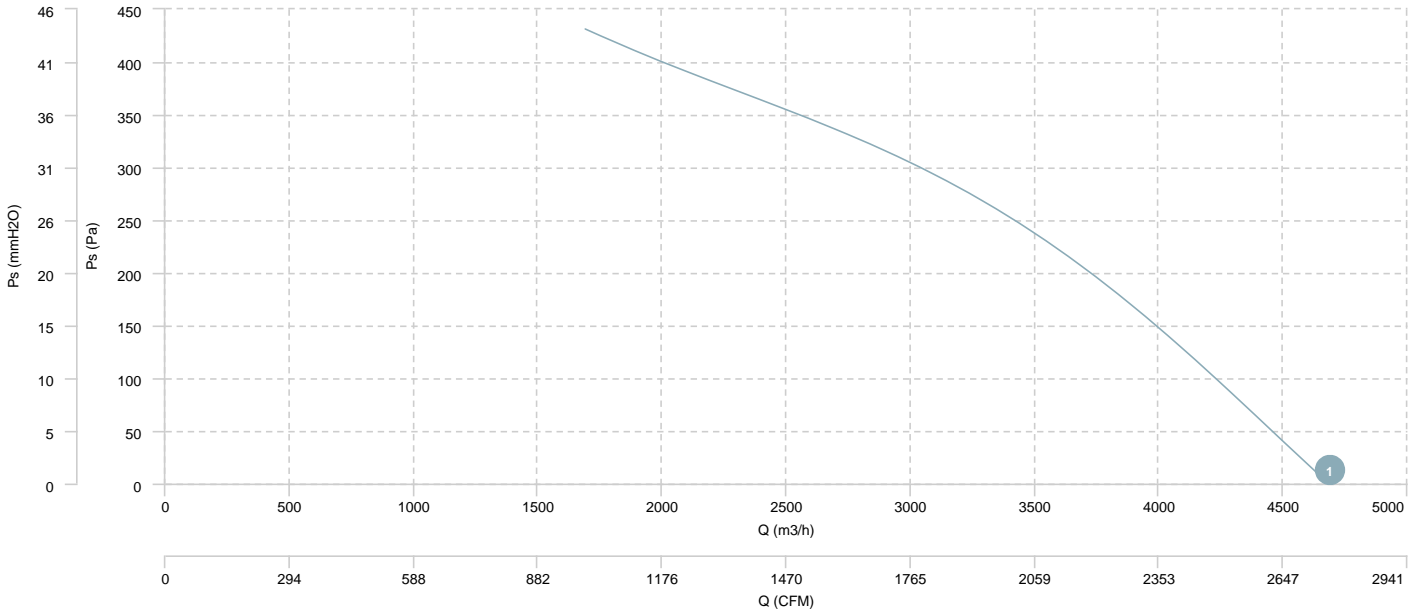
DIAGRAM Nº 2



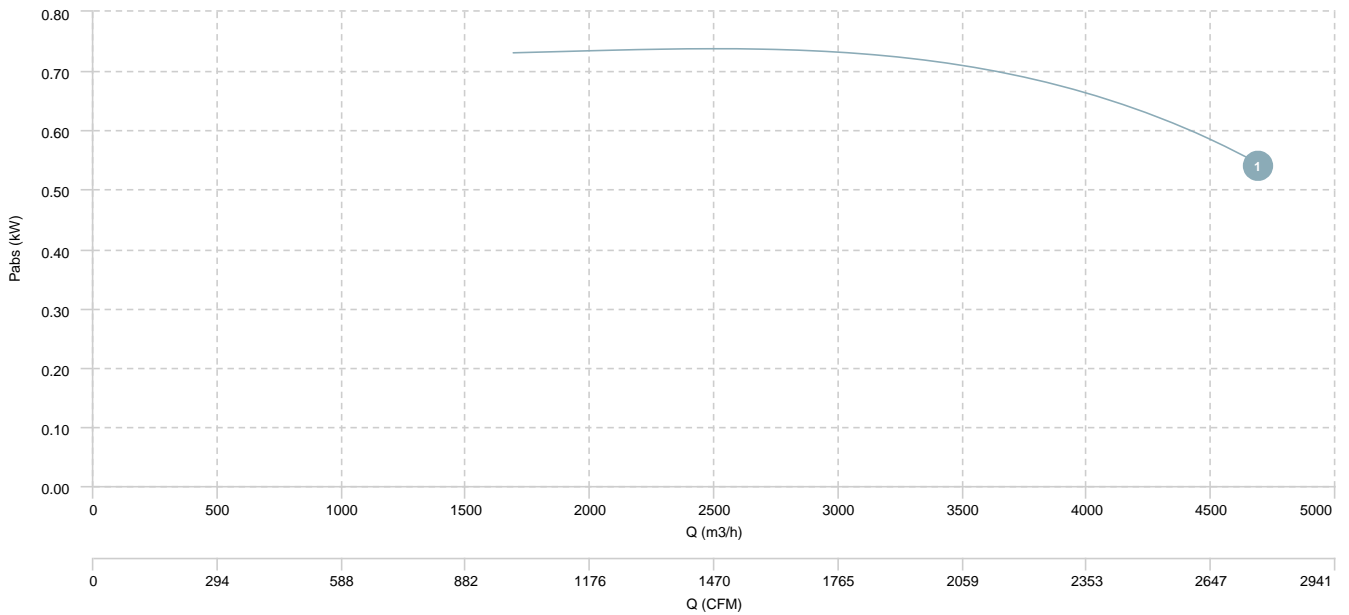
CHARACTERISCTIC CURVE

1 HI 35 M2 0,55kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



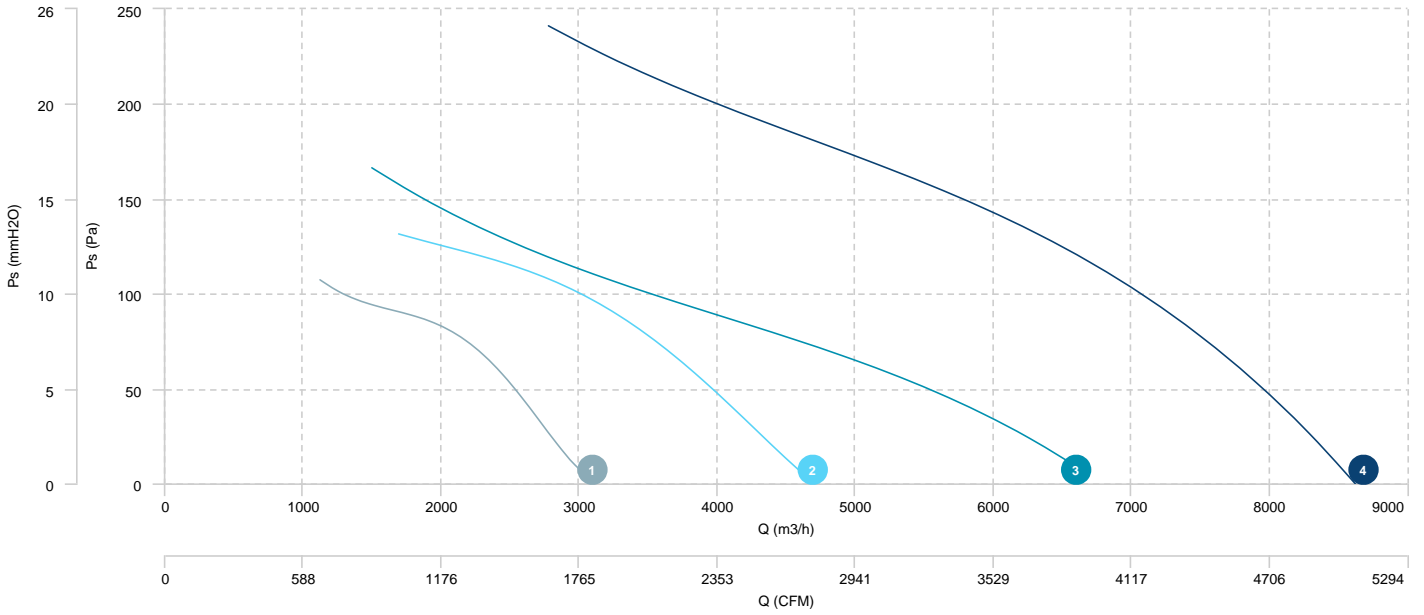
1 HI 35 M4 0,12kW

2 HI 40 M4 0,25kW

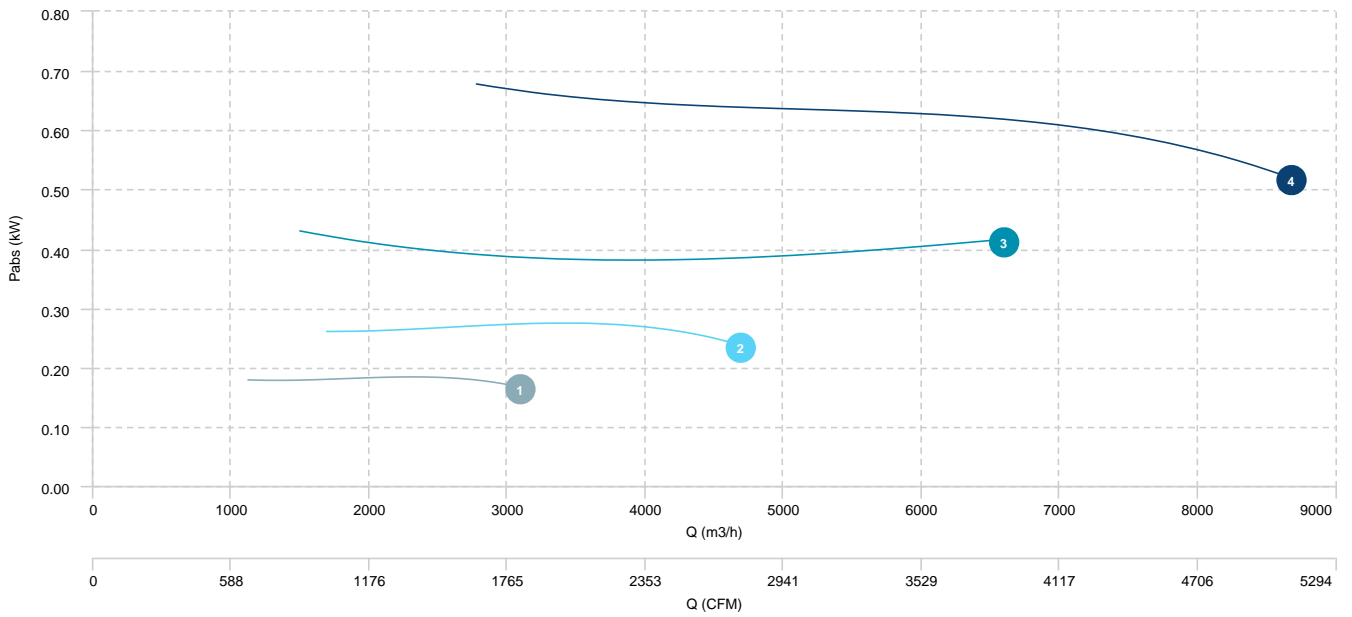
3 HI 45 M4 0,37kW

4 HI 56 M4 0,55kW

AIR FLOW - PRESSURE



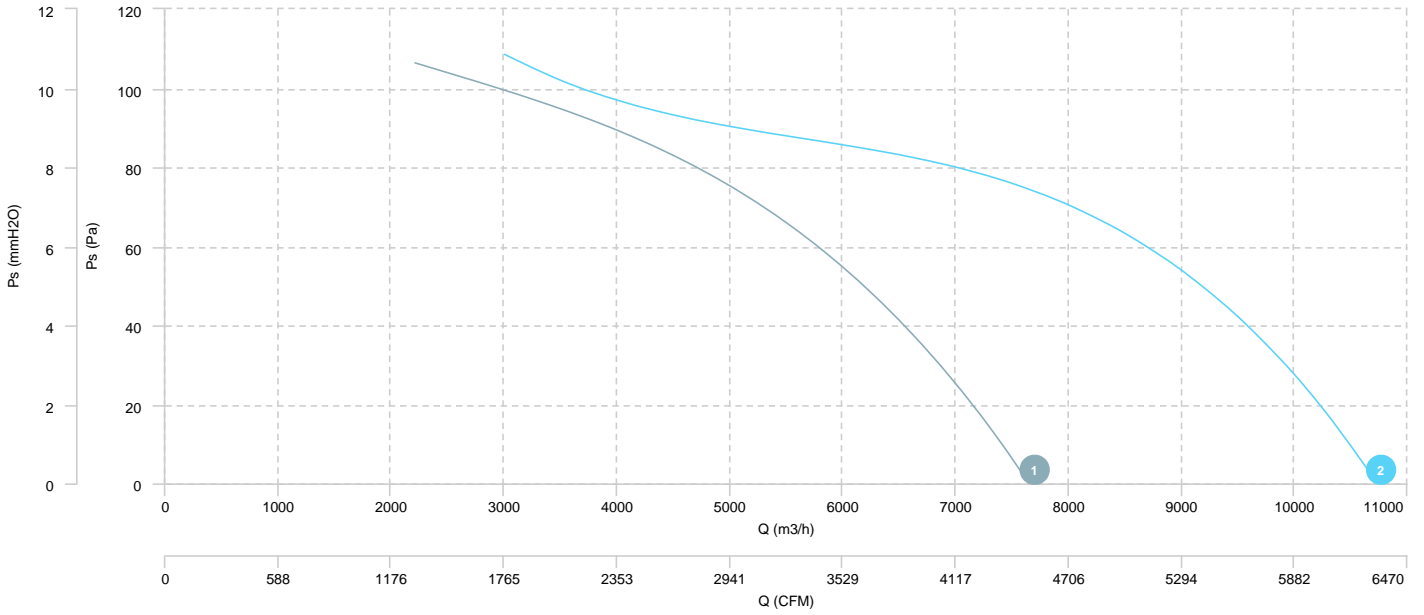
AIR FLOW - ABSORBED POWER



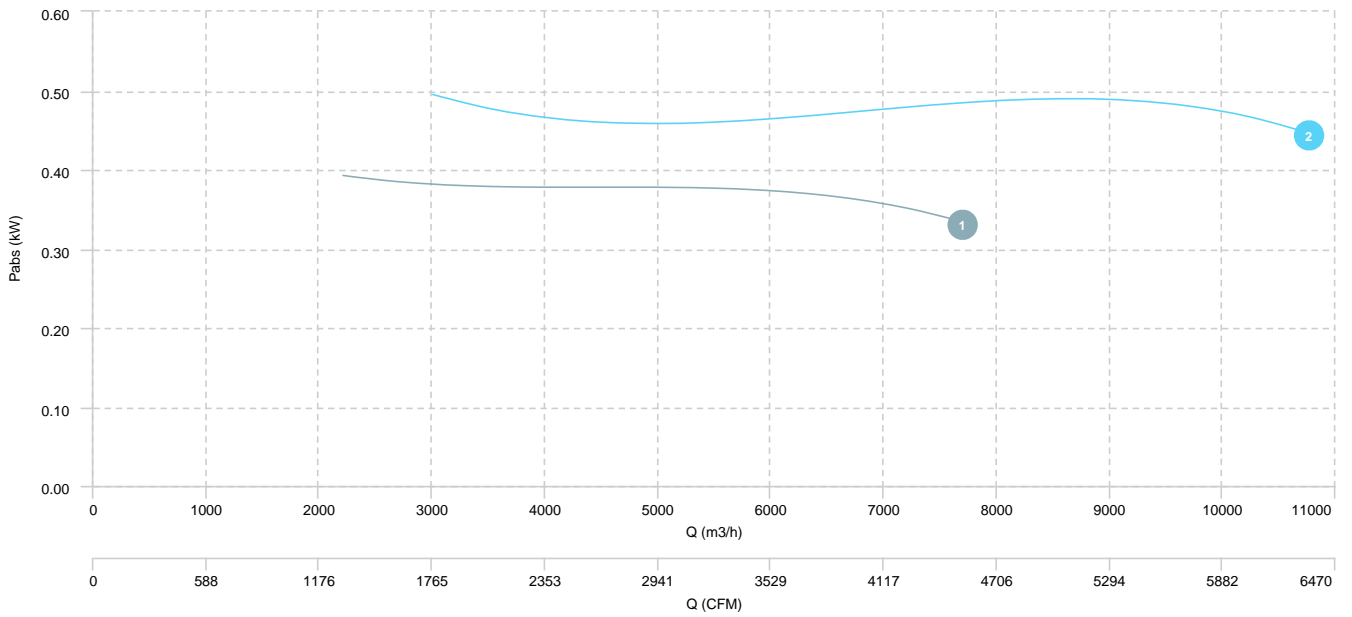
1 HI 56 M6 0,25kW

2 HI 63 M6 0,37kW

AIR FLOW - PRESSURE

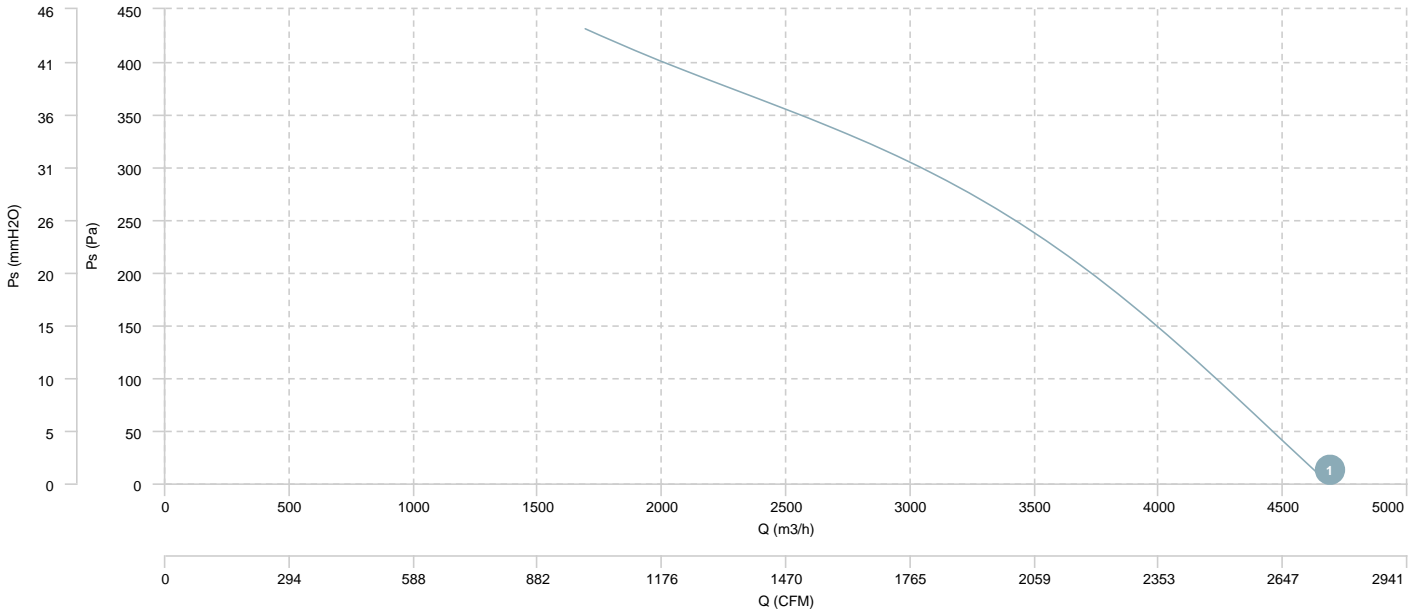


AIR FLOW - ABSORBED POWER

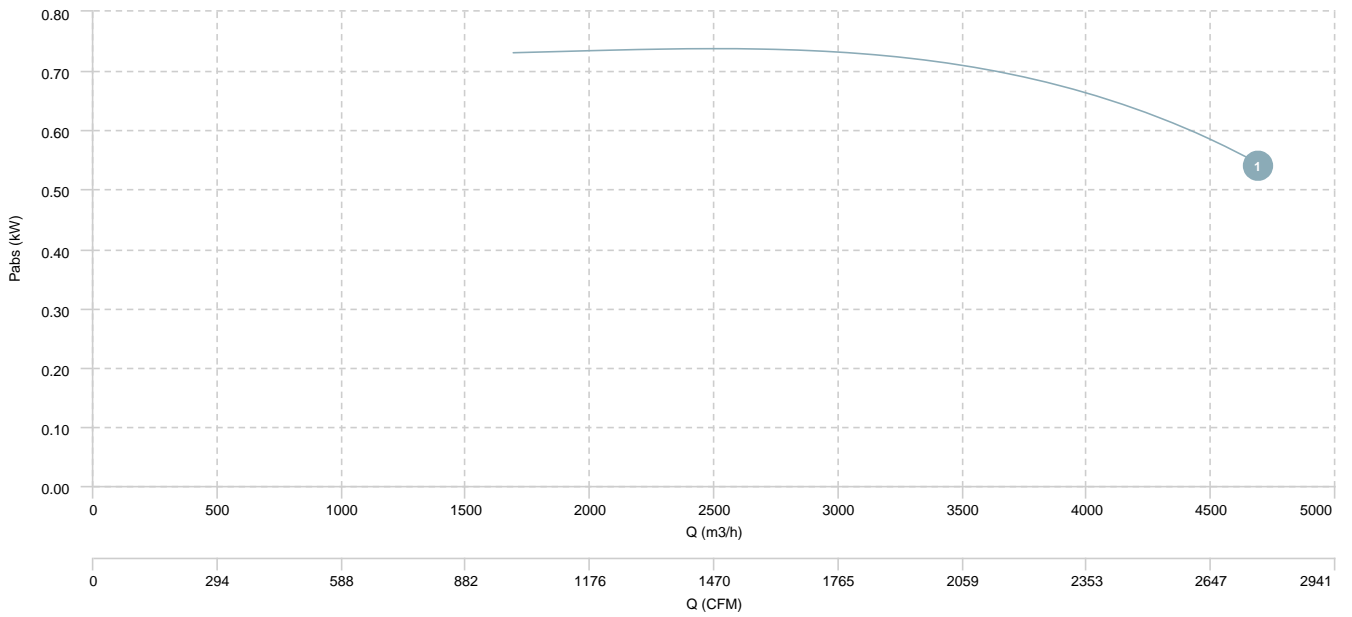


1 HI 35 T2 0,55kW

AIR FLOW - PRESSURE

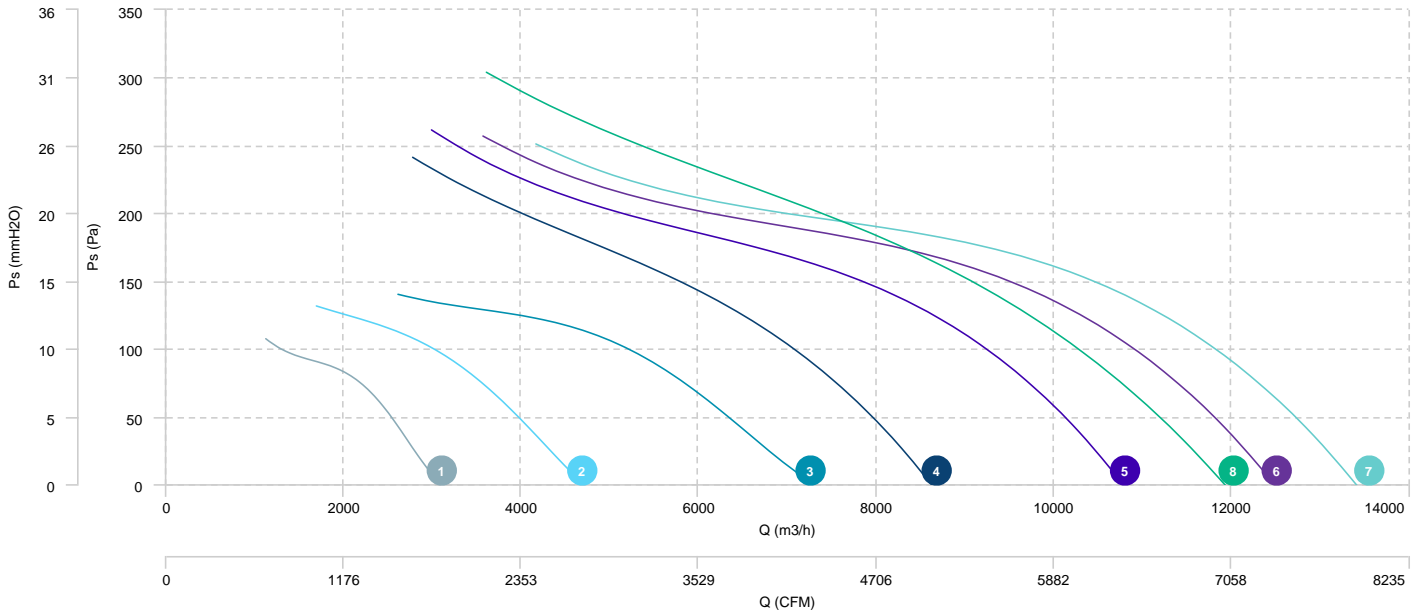


AIR FLOW - ABSORBED POWER

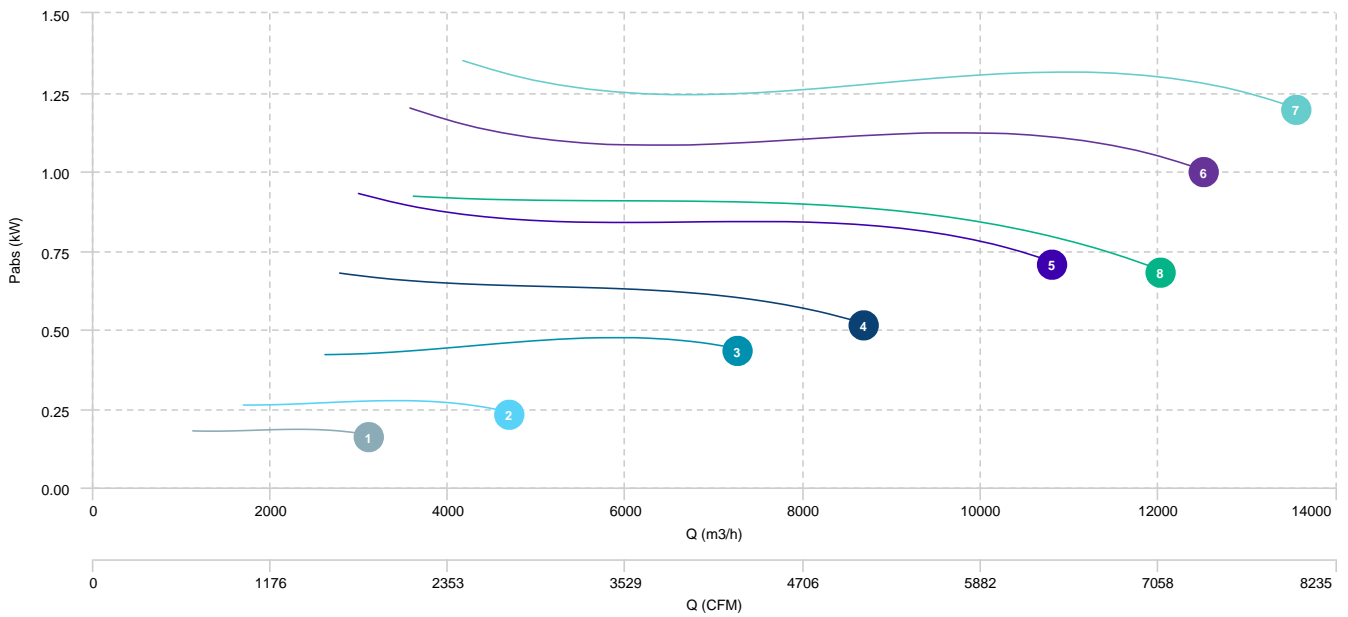


1	HI 35 T4 0,12kW	2	HI 40 T4 0,25kW	3	HI 45 T4 0,55kW	4	HI 56 T4 0,55kW
5	HI 56 T4 0,75kW	6	HI 56 T4 1,1kW	7	HI 56 T4 1,5kW	8	HI 63 T4 0,75kW

AIR FLOW - PRESSURE

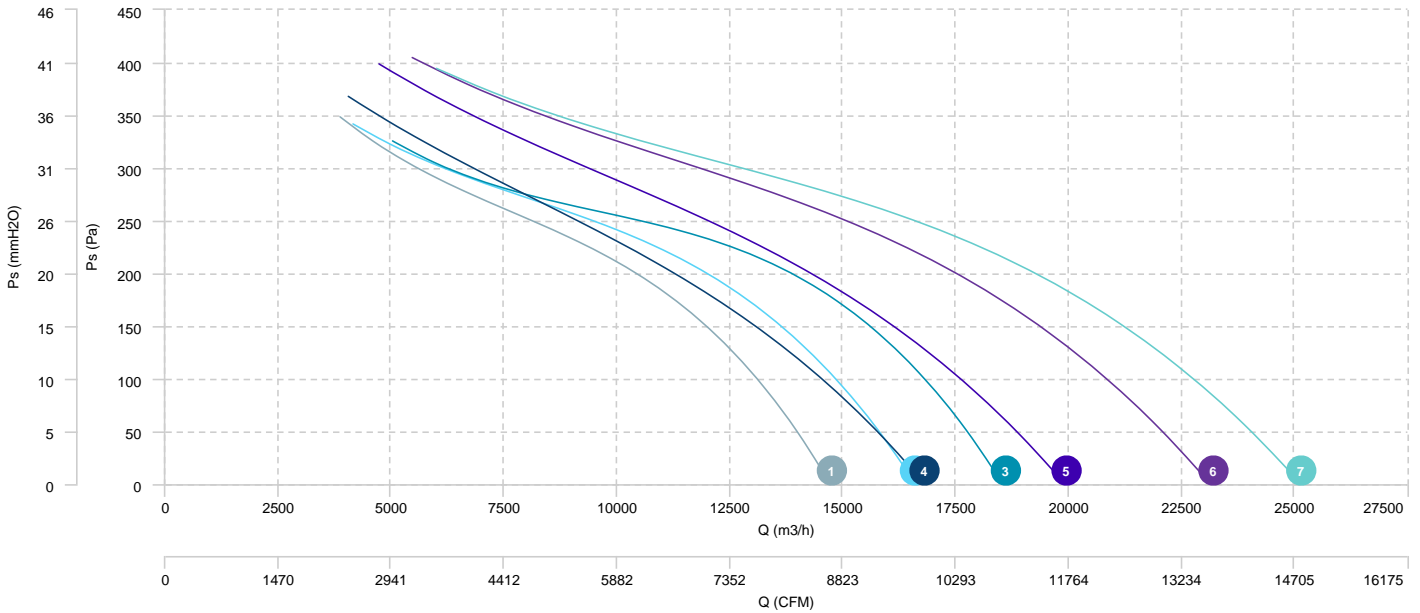


AIR FLOW - ABSORBED POWER

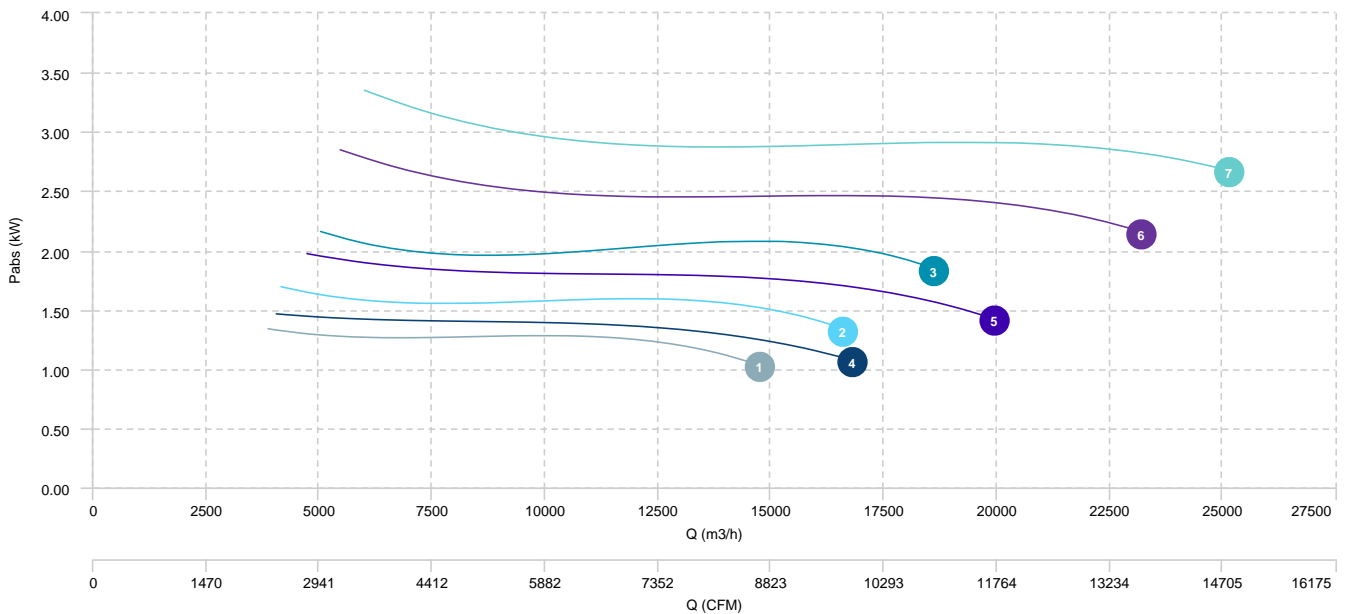


1	HI 63 T4 1,1kW	2	HI 63 T4 1,5kW	3	HI 63 T4 2,2kW	4	HI 71 T4 1,1kW
5	HI 71 T4 1,5kW	6	HI 71 T4 2,2kW	7	HI 71 T4 3kW		

AIR FLOW - PRESSURE

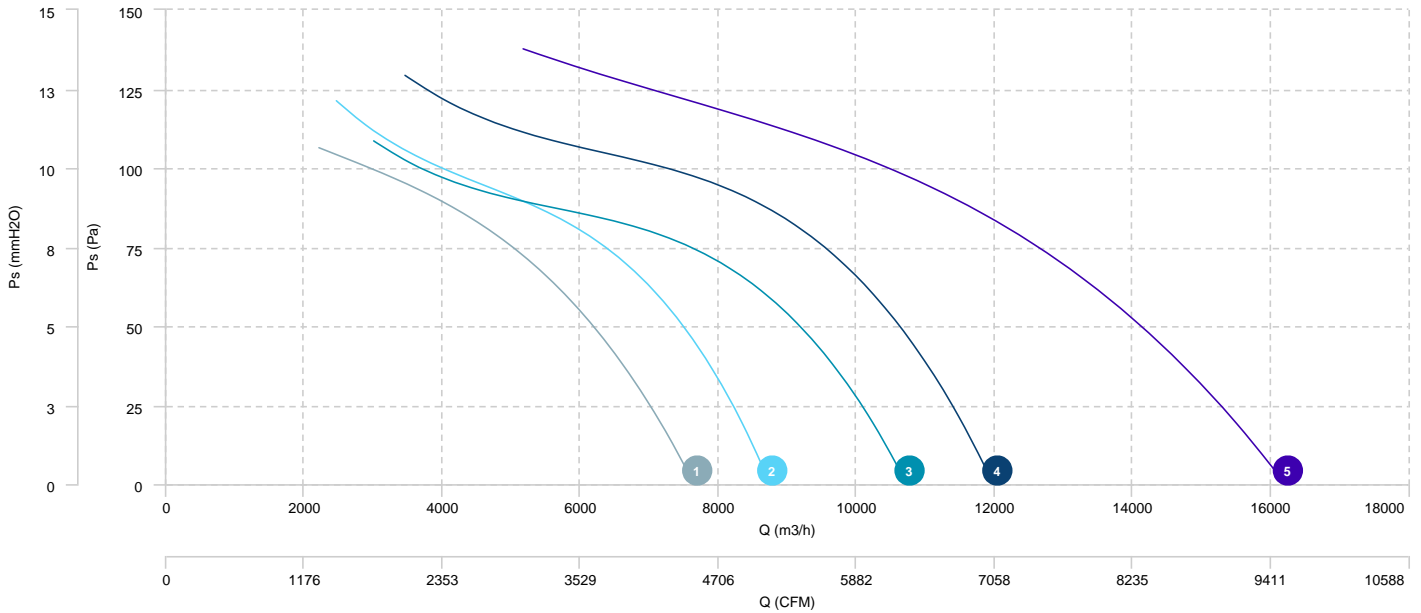


AIR FLOW - ABSORBED POWER

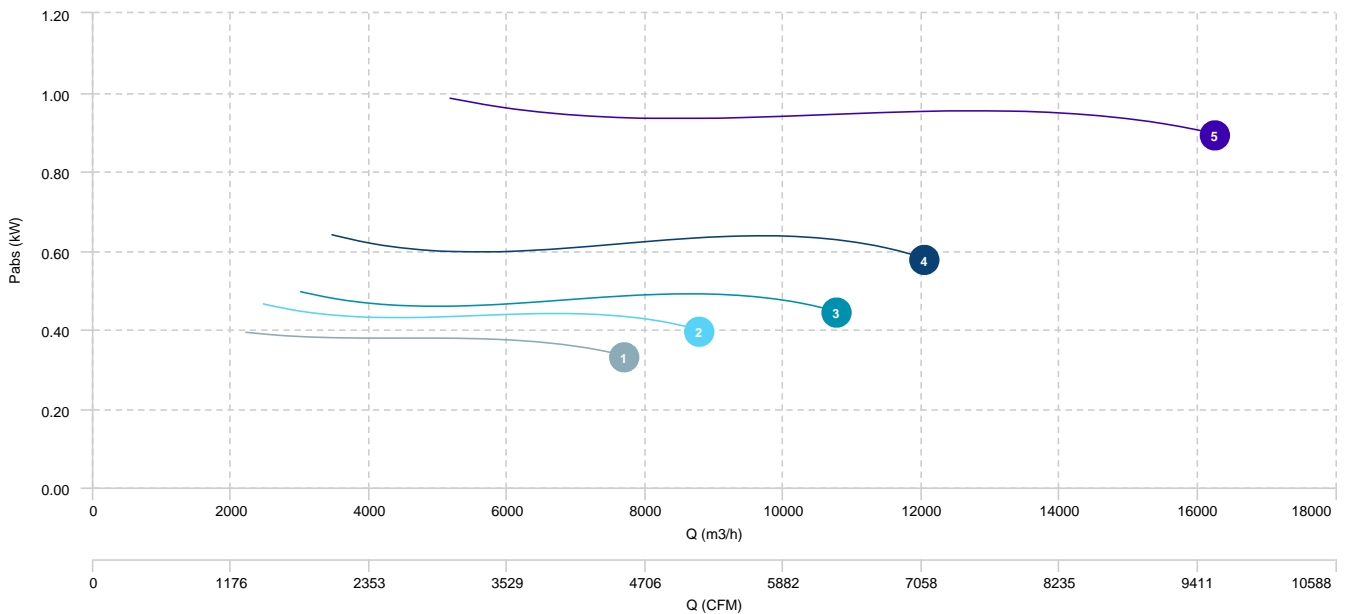


- 1 HI 56 T6 0,25kW
- 2 HI 56 T6 0,37kW
- 3 HI 63 T6 0,37kW
- 4 HI 63 T6 0,55kW
- 5 HI 71 T6 0,75kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HI 35 M2 0,55kW (30°)	Inlet	56	65	71	77	78	78	80	75	85
HI 35 T2 0,55kW (30°)	Inlet	56	65	71	77	78	78	80	75	85

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
HI 35 M4 0,12kW (40°)	Inlet	40	48	54	59	61	62	63	57	68
HI 35 T4 0,12kW (40°)	Inlet	40	48	54	59	61	62	63	57	68
HI 40 M4 0,25kW (40°)	Inlet	48	55	60	64	67	68	68	62	74
HI 40 T4 0,25kW (40°)	Inlet	48	55	60	64	67	68	68	62	74
HI 45 M4 0,37kW (40°)	Inlet	39	57	69	74	76	70	63	58	79
HI 45 T4 0,55kW (45°)	Inlet	50	57	63	67	69	70	70	64	76
HI 56 M4 0,55kW (25°)	Inlet	54	62	67	75	79	76	78	70	84
HI 56 T4 0,55kW (25°)	Inlet	54	62	67	75	79	76	78	70	84
HI 56 T4 0,75kW (32.5°)	Inlet	54	61	66	75	75	76	79	70	83
HI 56 T4 1,1kW (37.5°)	Inlet	54	61	66	75	74	76	78	69	82
HI 56 T4 1,5kW (40°)	Inlet	56	63	68	76	75	76	79	70	83
HI 63 T4 0,75kW (25°)	Inlet	57	66	71	80	80	79	80	75	86
HI 63 T4 1,1kW (30°)	Inlet	60	68	74	80	80	79	82	77	87
HI 63 T4 1,5kW (35°)	Inlet	59	67	72	75	76	76	79	73	83
HI 63 T4 2,2kW (40°)	Inlet	60	67	72	77	78	78	80	73	85
HI 71 T4 1,1kW (25°)	Inlet	59	67	72	84	84	82	84	75	90
HI 71 T4 1,5kW (30°)	Inlet	61	68	73	82	82	83	84	73	89
HI 71 T4 2,2kW (35°)	Inlet	62	69	74	76	80	82	83	72	87
HI 71 T4 3kW (40°)	Inlet	67	73	79	81	84	85	86	76	91

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
HI 56 M6 0,25kW (35°)	Inlet	44	51	56	65	64	66	69	60	73
HI 56 T6 0,25kW (35°)	Inlet	44	51	56	65	64	66	69	60	73
HI 56 T6 0,37kW (40°)	Inlet	47	54	59	67	66	67	70	61	74
HI 63 M6 0,37kW (35°)	Inlet	50	58	63	66	67	67	70	64	75

Sound power Lw dB (A)

Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HI 63 T6 0,37kW (35°)	Inlet	50	58	63	66	67	67	70	64	75
HI 63 T6 0,55kW (40°)	Inlet	51	58	63	68	69	69	71	64	76
HI 71 T6 0,75kW (40°)	Inlet	59	65	71	73	76	77	78	68	83

erp data

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

ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HI 35 M2 0,55kW (°)	0,55	36,32	43,50	2.837,83	322,23	0,74	2800	1,00
HI 35 T2 0,55kW (°)	0,55	36,32	43,50	2.837,83	322,23	0,74	2800	1,00

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HI 35 M4 0,12kW (°)	0,12	25,37	36,38	1.882,54	86,41	0,18	1380	1,00
HI 35 T4 0,12kW (°)	0,12	25,37	36,38	1.882,54	86,41	0,18	1400	1,00
HI 40 M4 0,25kW (°)	0,25	31,41	41,32	2.832,37	106,08	0,27	1400	1,00
HI 40 T4 0,25kW (°)	0,25	31,41	41,32	2.832,37	106,08	0,27	1400	1,00
HI 45 M4 0,37kW (°)	0,37	27,90	36,87	4.031,59	88,07	0,38	1400	1,00
HI 45 T4 0,55kW (°)	0,55	32,81	41,31	4.467,33	117,89	0,45	1400	1,00
HI 56 M4 0,55kW (°)	0,55	40,67	48,26	5.579,79	156,10	0,63	1400	1,00
HI 56 T4 0,55kW (°)	0,55	40,67	48,26	5.579,79	156,10	0,63	1400	1,00
HI 56 T4 0,75kW (°)	0,75	40,86	47,66	7.150,49	165,55	0,84	1390	1,00
HI 56 T4 1,1kW (°)	1,1	38,19	44,24	8.313,94	173,66	1,11	1400	1,00
HI 56 T4 1,5kW (°)	1,5	37,56	43,20	9.053,32	177,82	1,28	1400	1,00
HI 63 T4 0,75kW (°)	0,75	48,90	55,52	7.749,60	190,49	0,90	1390	1,00
HI 63 T4 1,1kW (°)	1,1	48,36	54,02	9.471,59	223,11	1,28	1400	1,00
HI 63 T4 1,5kW (°)	1,5	44,66	49,73	10.634,82	229,88	1,58	1400	1,00
HI 63 T4 2,2kW (°)	2,2	40,29	44,68	12.192,25	230,28	2,03	1430	1,00
HI 71 T4 1,1kW (°)	1,1	48,19	53,62	10.397,53	221,33	1,39	1400	1,00
HI 71 T4 1,5kW (°)	1,5	48,69	53,41	12.484,67	240,66	1,80	1400	1,00
HI 71 T4 2,2kW (°)	2,2	44,44	48,31	14.711,90	256,35	2,46	1430	1,00
HI 71 T4 3kW (°)	3	41,28	44,71	16.071,79	257,98	2,89	1430	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
HI 56 M6 0,25kW (°)	0,25	28,82	37,81	4.864,42	77,53	0,38	870	1,00
HI 56 T6 0,25kW (°)	0,25	28,82	37,81	4.864,42	77,53	0,38	900	1,00
HI 56 T6 0,37kW (°)	0,37	31,90	40,51	5.744,66	83,54	0,44	900	1,00
HI 63 M6 0,37kW (°)	0,37	34,33	42,68	7.125,79	79,11	0,48	890	1,00
HI 63 T6 0,37kW (°)	0,37	34,33	42,68	7.125,79	79,11	0,48	900	1,00
HI 63 T6 0,55kW (°)	0,55	35,49	43,12	7.980,88	94,79	0,62	900	1,00
HI 71 T6 0,75kW (°)	0,75	31,91	38,41	10.328,24	101,24	0,94	910	1,00