

HCH

Very robust wall mounted axial fans



Wall mounted axial fans. PL version fitted with a plastic impeller and AL version with an aluminium impeller.

Fan:

- Airflow direction from motor to impeller.
- PL version impellers in fibreglass reinforced polyamide-6 and AL version in cast aluminium. Models 40-2T only in AL version.
- Support ring in sheet steel.

Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. Except single-phase models from size 45 to size 56, with IP54 protection. 1 or 2 speeds depending on model.

- Single-phase 230 V 50 Hz and three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +50 °C.

Finish:

- Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

On request:

- Airflow direction from impeller to motor.
- 100% reversible impellers.
- Special windings for different voltages.
- ATEX certified Category 2.
- Vertical axis configuration on models that do not offer it in its standard version.

Order code

HCH	—	40	—	2	T	—	1.5	/	PL
↓		↓		↓	↓		↓		↓
HCH: Very robust wall mounted axial fans		Impeller diameter in cm		Number of motor poles 2=3000 r/min 50 Hz 4=1500 r/min 50 Hz 6=1000 r/min 50 Hz	T = Three-phase M = Single-phase		Motor power (HP)		PL: Plastic impeller AL: Aluminium impeller

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level¹ dB(A)	Approx. weight (Kg)	Installation²
		230V	400V	690V					
HCH-35-2T	2830	1.56	0.90		0.37	5885	67	22	H / V
HCH-35-4T	1350	0.86	0.50		0.12	3275	49	28	H / V
HCH-40-2T-1.5 IE3	2830	4.03	2.34		1.10	8805	74	34	H / V
HCH-40-4T-0.33	1350	1.66	0.96		0.25	5280	54	41	H / V
HCH-45-4T-0.5	1370	2.02	1.17		0.37	7100	59	42	H / V
HCH-45-4M-0.5	1420	2.90			0.37	7100	59	48	H / V
HCH-45-6T-0.33	900	1.51	0.87		0.25	4725	46	25	H / V
HCH-56-4T-0.75	1420	2.17	1.25		0.55	11040	65	27	H / V
HCH-56-4T-1 IE3	1420	2.82	1.62		0.75	12940	66	37	H / V
HCH-56-4T-1.5 IE3	1455	4.07	2.34		1.10	13995	67	44	H / V
HCH-56-4T-2 IE3	1440	5.41	3.11		1.50	15425	68	46	H / V
HCH-56-6T-0.33	900	1.51	0.87		0.25	8755	54	52	H / V
HCH-56-6T-0.5	900	2.24	1.30		0.37	10000	54	29	H / V
HCH-56-6T-0.75	900	2.99	1.73		0.55	10250	55	39	H / V
HCH-63-4T-1 IE3	1420	2.82	1.62		0.75	14145	68	44	H / V
HCH-63-4T-1.5 IE3	1455	4.07	2.34		1.10	17020	69	54	H / V
HCH-63-4T-2 IE3	1440	5.41	3.11		1.50	18910	70	60	H / V
HCH-63-4T-3 IE3	1435	7.93	4.56		2.20	22090	71	62	H / V

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level¹ dB(A)	Approx. weight (Kg)	Installation²
		230V	400V	690V			Inlet		
HCH-63-4T-4 IE3	1440	10.70	6.15		3.00	25390	72	47	H / V
HCH-63-6T-0.5	900	2.24	1.30		0.37	12135	59	52	H / V
HCH-63-6T-0.75	900	2.99	1.73		0.55	12760	60	56	H / V
HCH-71-4T-1.5 IE3	1455	4.07	2.34		1.10	19770	73	61	H / V
HCH-71-4T-2 IE3	1440	5.41	3.11		1.50	21090	74	67	H / V
HCH-71-4T-3 IE3	1435	7.93	4.56		2.20	23970	76	69	H / V
HCH-71-4T-4 IE3	1440	10.70	6.15		3.00	29410	77	106	H / V
HCH-71-6T-0.75	900	2.99	1.73		0.55	15130	62	110	H / V
HCH-71-6T-1 IE3	940	3.36	1.93		0.75	17260	63	68	H / V
HCH-71-6T-1.5 IE3	945	4.68	2.69		1.10	20965	64	88	H / V
HCH-80-4T-3 IE3	1435	7.93	4.56		2.20	27940	77	114	H / V
HCH-80-4T-4 IE3	1440	10.70	6.15		3.00	32720	78	118	H / V
HCH-80-4T-5.5 IE3	1450	13.90	8.00		4.00	37440	79	150	H / V
HCH-80-6T-1 IE3	940	3.36	1.93		0.75	20560	66	161	H / V
HCH-80-6T-1.5 IE3	945	4.68	2.69		1.10	24650	67	76	H / V
HCH-80-6T-2 IE3	950	6.43	3.70		1.50	27960	68	96	H / V
HCH-80-6T-3 IE3	950	9.08	5.22		2.20	32545	69	102	H / V
HCH-90-4T-4 IE3	1440	10.70	6.15		3.00	37635	83	40	H / V
HCH-90-4T-5.5 IE3	1450	13.90	8.00		4.00	41810	85	42	H / V
HCH-90-4T-7.5 IE3	1465		10.30	5.97	5.50	47550	87	56	H / V
HCH-90-4T-10 IE3	1465		13.90	8.06	7.50	53120	88	63	H / V
HCH-90-6T-3 IE3	950	9.08	5.22		2.20	35555	74	65	H / V
HCH-90-6T-4 IE3	970	12.00	6.91		3.00	40165	75	71	H / V
HCH-100-4T-7.5 IE3	1465		10.30	5.97	5.50	52470	90	49	H / V
HCH-100-4T-10 IE3	1465		13.90	8.06	7.50	58560	91	58	H / V
HCH-100-4T-15 IE3	1470		20.90	12.10	11.00	68000	92	63	H
HCH-100-4T-20 IE3	1465		27.90	16.20	15.00	71850	93	73	H
HCH-100-6T-3 IE3	950	9.08	5.22		2.20	40390	80	79	H / V
HCH-100-6T-4 IE3	970	12.00	6.91		3.00	46960	81	81	H / V
HCH-100-6T-5.5 IE3	960	15.60	8.99		4.00	52025	82	67	H / V

1. Sound pressure level in dB(A) at a distance of 3 m and at maximum flow rate.
2. H= Horizontal / V= Vertical.

Acoustic characteristics

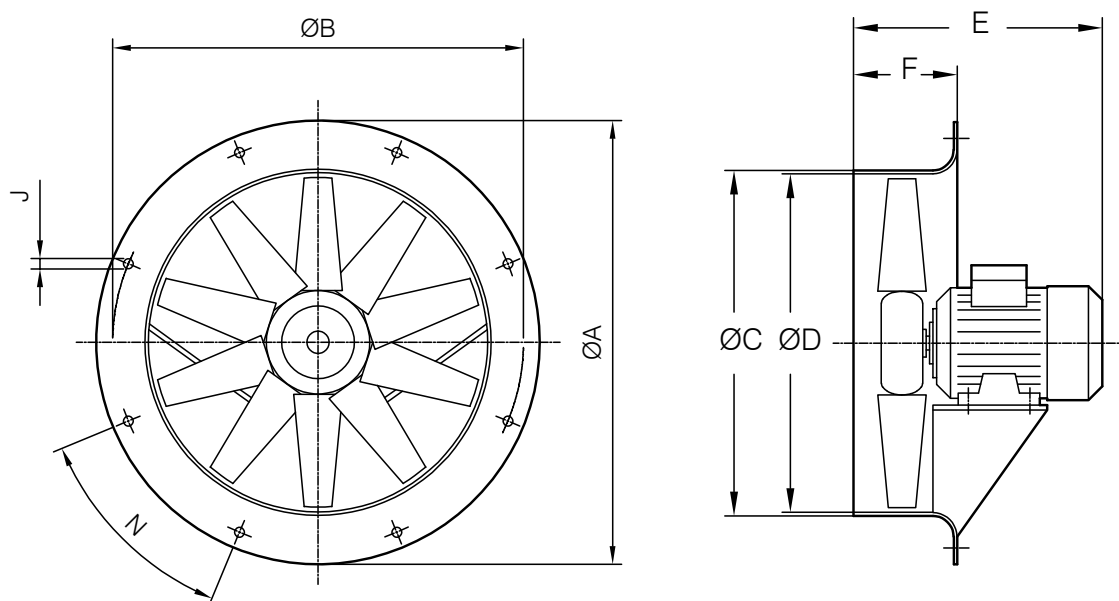
The values given are obtained under laboratory conditions according to ISO 3744.

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
35-2	48	63	82	81	82	81	76	67	71-6-0.75	44	64	72	77	79	76	69	58
35-4	30	45	64	63	64	63	58	49	71-6-1	45	65	73	78	80	77	70	59
40-2-1.5	55	70	89	88	89	88	83	74	71-6-1.5	46	66	74	79	81	78	71	60
40-4-0.33	35	50	69	68	69	68	63	54	80-4-3	59	79	87	92	94	91	84	73
45-4-0.5	33	50	62	70	75	75	71	64	80-4-4	60	80	88	93	95	92	85	74
45-6-0.33	20	37	49	57	62	62	58	51	80-4-5.5	61	81	89	94	96	93	86	75
56-4-0.75	47	67	75	80	82	79	72	61	80-6-1	48	68	76	81	83	80	73	62
56-4-1	48	68	76	81	83	80	73	62	80-6-1.5	49	69	77	82	84	81	74	63
56-4-1.5	49	69	77	82	84	81	74	63	80-6-2	50	70	78	83	85	82	75	64
56-4-2	50	70	78	83	85	82	75	64	80-6-3	51	71	79	84	86	83	76	65
56-6-0.33	36	56	64	69	71	68	61	50	90-4-4	65	86	93	98	101	97	90	79
56-6-0.5	36	56	64	69	71	68	61	50	90-4-5.5	67	88	95	100	103	99	92	81
56-6-0.75	37	57	65	70	72	69	62	51	90-4-7.5	69	90	97	102	105	101	94	83
63-4-1	50	70	78	83	85	82	75	64	90-4-10	70	91	98	103	106	102	95	84
63-4-1.5	51	71	79	84	86	83	76	65	90-6-3	56	77	84	89	92	88	81	70
63-4-2	52	72	80	85	87	84	77	66	90-6-4	57	78	85	90	93	89	82	71
63-4-3	53	73	81	86	88	85	78	67	100-4-7.5	72	92	100	105	107	104	97	86
63-4-4	54	74	82	87	89	86	79	68	100-4-10	73	93	101	106	108	105	98	87
63-6-0.5	41	61	69	74	76	73	66	55	100-4-15	74	94	102	107	109	106	99	88
63-6-0.75	42	62	70	75	77	74	67	56	100-4-20	75	95	103	108	110	107	100	89
71-4-1.5	55	75	83	88	90	87	80	69	100-6-3	62	82	90	95	97	94	87	76
71-4-2	56	76	84	89	91	88	81	70	100-6-4	63	83	91	96	98	95	88	77
71-4-3	58	78	86	91	93	90	83	72	100-6-5.5	64	84	92	97	99	96	89	78
71-4-4	59	79	87	92	94	91	84	73									

Dimensions mm



	Motor size	ØA	ØB	ØC	ØD	E	F	ØJ	N
HCH-35	71	425	395	358	355	279	110	10	8x45°
HCH-35	56	425	395	358	355	279	110	10	8x45°
HCH-40	71	490	450	414	410	305	120	12	8x45°
HCH-40	80	490	450	414	410	342	120	12	8x45°
HCH-45	71	540	500	464	460	295	120	12	8x45°
HCH-56	80	660	620	564	560	326	120	12	12x30°
HCH-56	90S	660	620	564	560	389	120	12	12x30°
HCH-56	90L	660	620	564	560	389	120	12	12x30°
HCH-56	71	660	620	564	560	317	120	12	12x30°
HCH-63	80	730	690	645	640	337	150	12	12x30°
HCH-63	90S	730	690	645	640	396	150	12	12x30°
HCH-63	90L	730	690	645	640	396	150	12	12x30°
HCH-63	100L	730	690	645	640	419	150	12	12x30°
HCH-71	90S	810	770	715	710	397	150	12	16x22°30'
HCH-71	90L	810	770	715	710	397	150	12	16x22°30'
HCH-71	100L	810	770	715	710	424	150	12	16x22°30'
HCH-71	80	810	770	715	710	334	150	12	16x22°30'
HCH-80	100L	900	860	805	800	432	180	12	16x22°30'
HCH-80	112M	900	860	805	800	455	180	12	16x22°30'
HCH-80	90S	900	860	805	800	414	180	12	16x22°30'
HCH-80	90L	900	860	805	800	414	180	12	16x22°30'
HCH-90	100L	1015	970	906	900	477	180	15	16x22°30'
HCH-90	112M	1015	970	906	900	458	180	15	16x22°30'
HCH-90	132M	1015	970	906	900	512	180	15	16x22°30'
HCH-100	132M	1115	1070	1006	1000	518	200	15	16x22°30'
HCH-100	112M	1115	1070	1006	1000	438	200	15	16x22°30'
HCH-100	160M	1115	1070	1006	1000	608	200	15	16x22°30'
HCH-100	160L	1115	1070	1006	1000	652	200	15	16x22°30'

Motor build sizes depending on power

	HP														
	0.13	0.25	0.33	0.5	0.75	1	1.5	2	3	4	5.5	7.5	10	15	20
2T (3000 r/min)	56	63	63	71	71	80	80	90S	90L	100	112	132S	132S	160M	160M
4T (1500 r/min)	56	63	71	71	80	80	90S	90L	100L	100L	112M	132M	132M	160M	160L
6T (1000 r/min)	63	71	71	80	80	90S	90L	100L	112M	132M	132M	160M	160M	160L	180L



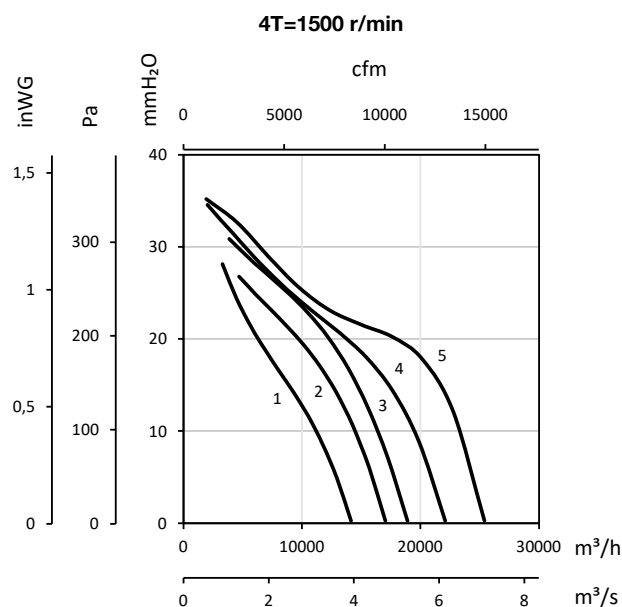
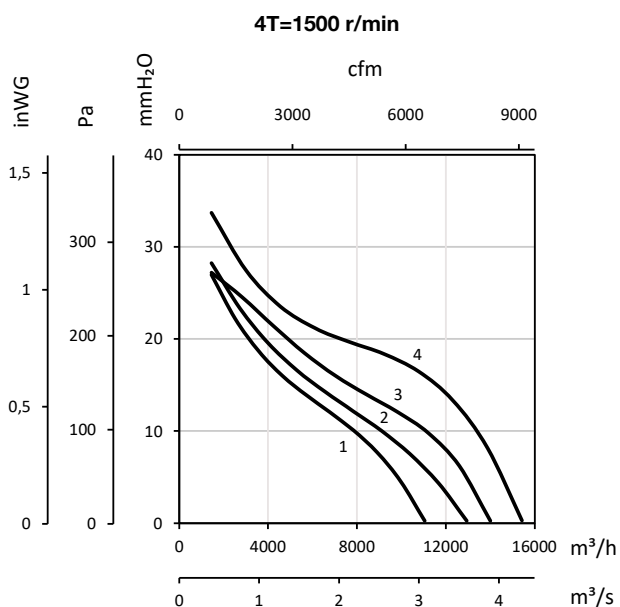
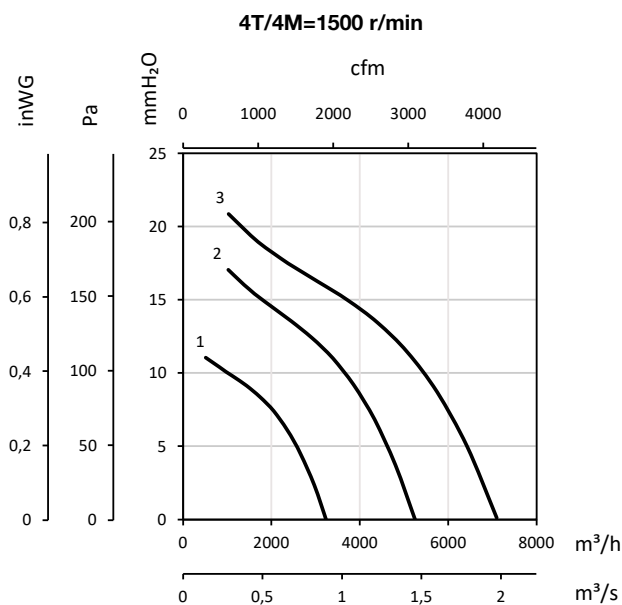
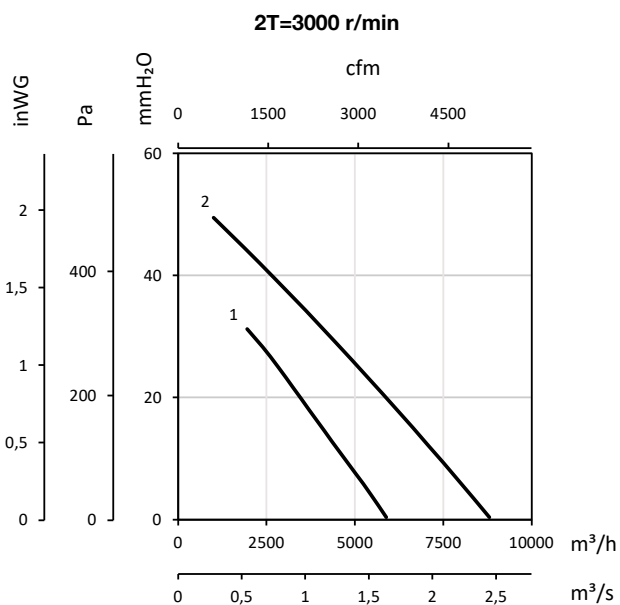
Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

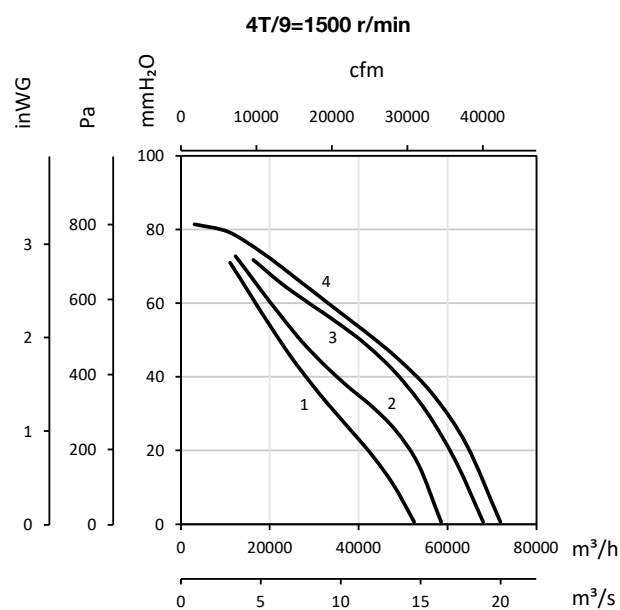
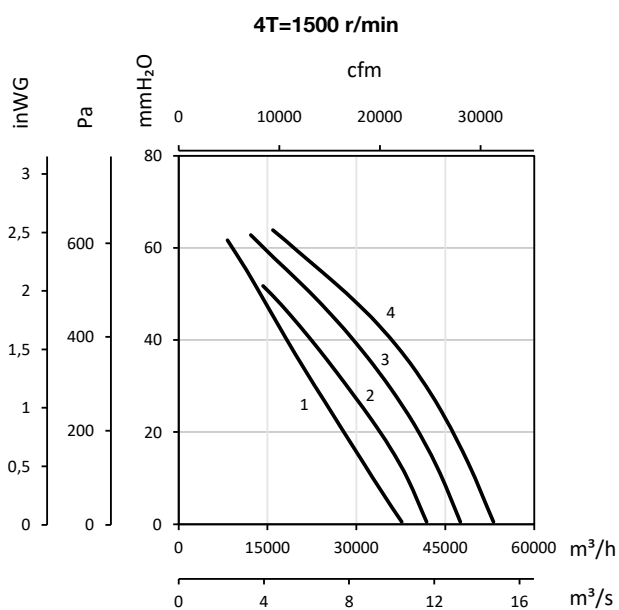
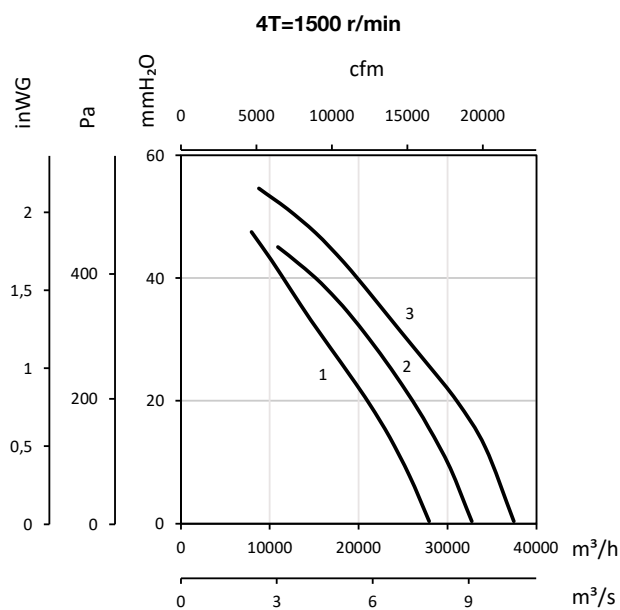
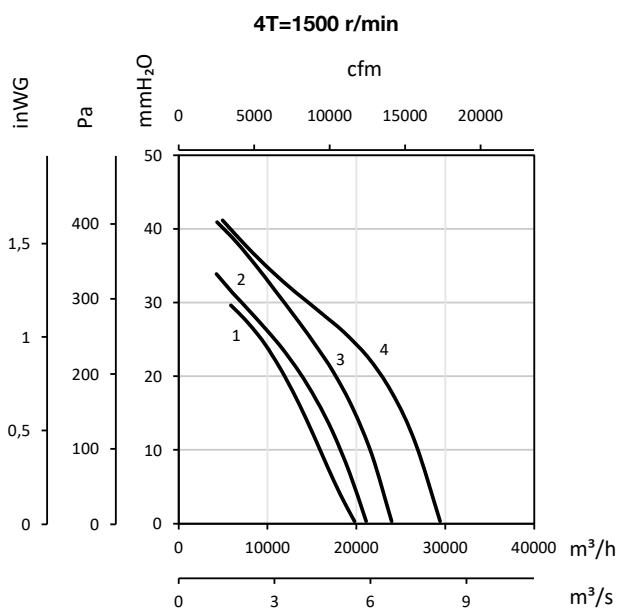
Pe= Static pressure in mm H₂O, Pa and inwg



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

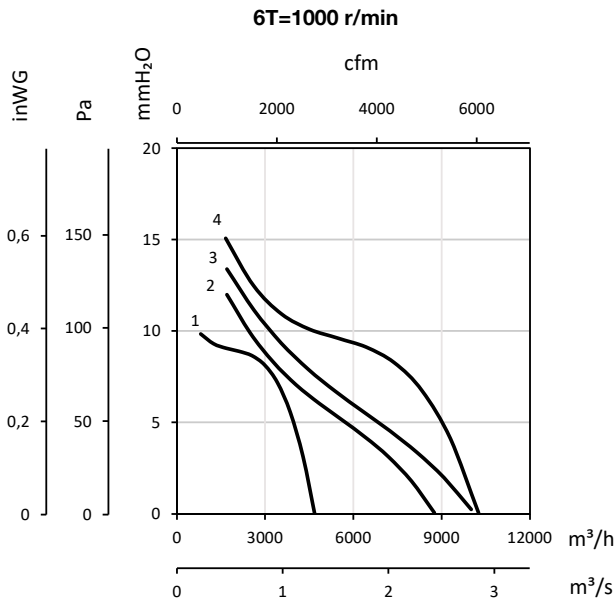
Pe= Static pressure in mm H₂O, Pa and inwg



Characteristic curves

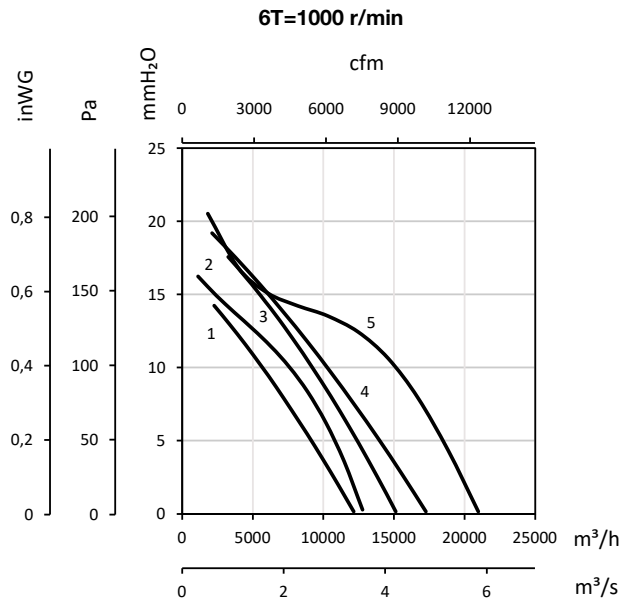
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG



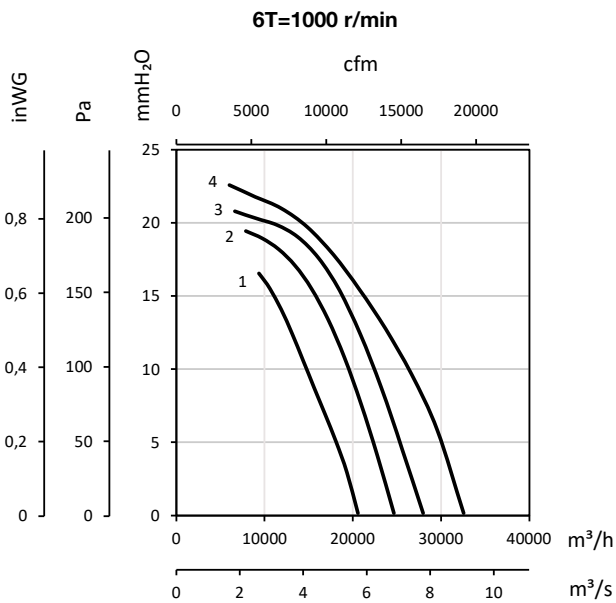
1 : HCH-45-6T-0.33
2 : HCH-56-6T-0.33

3 : HCH-56-6T-0.5
4 : HCH-56-6T-0.75



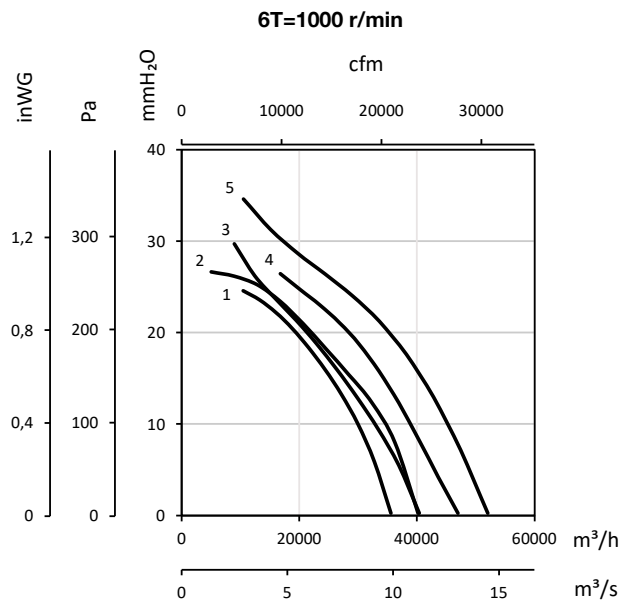
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2 : HCH-63-6T-0.75
3 : HCH-71-6T-0.75

4 : HCH-71-6T-1
5 : HCH-71-6T-1.5



1 : HCH-80-6T-1
2 : HCH-80-6T-1.5

3 : HCH-80-6T-2
4 : HCH-80-6T-3



1 : HCH-90-6T-3
2 : HCH-90-6T-4
3 : HCH-100-6T-3

4 : HCH-100-6T-4
5 : HCH-100-6T-5.5

Accessories



INT



RM



VSD3/A-RFT
- VSD1/A-RFM



VSD1/M



AET



PL



P



R



RI



PV



PT/H