

# HGT HGTX

**HGT: Large diameter long cased axial fans with direct drive motor**

**HGTX: Large diameter long cased axial fans with external motor**



Long cased axial fans. supplied with 3, 6 or 9 blade aluminium impellers with different slope angles.

**Fan:**

- Airflow direction from motor to impeller
- Impellers made from cast aluminium supplied with 3, 6 or 9 blades with adjustable slope angles.
- Sheet steel casing
- HGT: The standard version is short casing. The long-casing version is equipped with an inspection hatch.
- HGTX: The long-casing version is equipped with an inspection hatch.



HGT



HGTX

**Motor:**

- IE2 efficiency motors for capacities equal to or over 0.75kW and below 7.5kW, except single-phase, 2 speed and 8 pole motors.
- IE3 efficiency for 7.5kW and larger motors. Except for 1Ph, 2 speed and 8 pole motors.
- Class F insulation, IP55
- Three phase, 50Hz, 230/400V motors up to and including 4kW. 400/690V over 4kW
- Working temperature: -25°C.+ 50°C. (HGT). -25°C.+ 120°C. (HGTX)

phosphate free pre-treatment

**On request:**

- Airflow direction from impeller to motor
- 100% reversible impellers
- Special windings for different electrical supplies
- ATEX certification, category 2
- HGT: Long-casing fans with inspection hatch
- Two-speed motors
- IE2 and IE3 efficiency motors assembled on any unit

**Finish:**

- Anti-corrosive finish in polyester resin, polymerised at 190°C after

**Order code**



HGT: Large long cased axial fans with direct drive motor  
HGTX: Large diameter long cased axial fans with external motor

Impeller diameter in cm.

Number of motor pole  
4=1400 r/min. 50 Hz.  
6=900 r/min. 50 Hz.  
8=750 r/min. 50 Hz.

T=Three-phase

Number of blades:  
3 blades  
6 blades  
9 blades

Motor power (HP)

Angle of inclination of the blades

PV=Distributor



**Technical characteristics**

Model	Speed (r/min)	Maximum admissible current (A)			Installed capacity (kW)	Maximum airflow (m³/h)	Sound pressure level dB(A)	Approx. weight (Kg)		
		230V	400V	690V				HGT Long	HGT Short	HGTX
HGT-125-4T/3-10	HGTX-125-4T/3-10	1455	14.10	8.14	7.50	58150	88	211	178	342
HGT-125-4T/3-15	HGTX-125-4T/3-15	1455	21.20	12.24	11.00	77450	89	249	221	369
HGT-125-4T/3-20	HGTX-125-4T/3-20	1465	29.80	17.21	15.00	91400	91	268	240	388
HGT-125-4T/3-25	HGTX-125-4T/3-25	1470	35.60	20.55	18.50	98350	91	331	288	418
HGT-125-4T/3-30	HGTX-125-4T/3-30	1465	40.10	23.15	22.00	110500	92	348	305	435
HGT-125-4T/3-40	HGTX-125-4T/3-40	1475	56.30	32.50	30.00	120850	93	440	397	529
HGT-125-4T/3-50	HGTX-125-4T/3-50	1470	69.20	39.95	37.00	129000	94	474	418	545
HGT-125-4T/3-60	HGTX-125-4T/3-60	1470	81.41	47.00	45.00	140000	95	489	433	560
HGT-125-4T/6-20	HGTX-125-4T/6-20	1465	29.80	17.21	15.00	78300	89	277	249	397
HGT-125-4T/6-25	HGTX-125-4T/6-25	1470	35.60	20.55	18.50	92000	90	340	297	427
HGT-125-4T/6-30	HGTX-125-4T/6-30	1465	40.10	23.15	22.00	98100	90	357	314	444
HGT-125-4T/6-40	HGTX-125-4T/6-40	1475	56.30	32.50	30.00	117000	92	449	405	538
HGT-125-4T/6-50	HGTX-125-4T/6-50	1470	69.20	39.95	37.00	123700	93	483	427	554
HGT-125-4T/6-60	HGTX-125-4T/6-60	1470	81.41	47.00	45.00	136000	94	498	442	569
HGT-125-4T/6-75	HGTX-125-4T/6-75	1475	98.73	57.00	55.00	148000	95	549	499	635
HGT-125-4T/6-100	HGTX-125-4T/6-100	1480	133.37	77.00	75.00	161000	96	598	548	684
HGT-125-4T/9-25	HGTX-125-4T/9-25	1470	35.60	20.55	18.50	79750	88	349	306	436
HGT-125-4T/9-30	HGTX-125-4T/9-30	1465	40.10	23.15	22.00	97000	89	366	323	453

## Technical characteristics

Model		Speed (r/min)	Maximum admissible current (A)			Installed capacity (kW)	Maximum airflow (m³/h)	Sound pressure level dB(A)	Approx. weight (Kg)		
			230V	400V	690V				Long	Short	HGTX
HGT-125-4T/9-40	HGTX-125-4T/9-40	1475		56.30	32.50	30.00	111200	91	458	414	547
HGT-125-4T/9-50	HGTX-125-4T/9-50	1470		69.20	39.95	37.00	118350	93	492	436	563
HGT-125-4T/9-60	HGTX-125-4T/9-60	1470		81.41	47.00	45.00	127000	94	507	451	578
HGT-125-4T/9-75	HGTX-125-4T/9-75	1475		98.73	57.00	55.00	142000	95	558	508	644
HGT-125-4T/9-100	HGTX-125-4T/9-100	1480		133.37	77.00	75.00	155000	99	607	557	693
HGT-125-6T/3-4	HGTX-125-6T/3-4	960	12.70	7.33		3.00	46550	79	204	171	335
HGT-125-6T/3-5.5	HGTX-125-6T/3-5.5	960	16.50	9.53		4.00	55300	80	209	176	340
HGT-125-6T/3-7.5	HGTX-125-6T/3-7.5	975		11.50	6.64	5.50	64450	81	217	184	348
HGT-125-6T/3-10	HGTX-125-6T/3-10	965		15.20	8.78	7.50	76400	83	262	234	382
HGT-125-6T/3-15	HGTX-125-6T/3-15	965		22.60	13.05	11.00	87050	84	276	248	396
HGT-125-6T/3-20	HGTX-125-6T/3-20	970		27.90	16.11	15.00	91700	85	358	315	445
HGT-125-6T/6-5.5	HGTX-125-6T/6-5.5	960	16.50	9.53		4.00	51300	77	218	185	349
HGT-125-6T/6-7.5	HGTX-125-6T/6-7.5	975		11.50	6.64	5.50	60300	77	226	193	357
HGT-125-6T/6-10	HGTX-125-6T/6-10	965		15.20	8.78	7.50	72250	79	271	243	391
HGT-125-6T/6-15	HGTX-125-6T/6-15	965		22.60	13.05	11.00	85450	81	285	257	405
HGT-125-6T/6-20	HGTX-125-6T/6-20	970		27.90	16.11	15.00	92850	82	367	324	454
HGT-125-6T/6-25	HGTX-125-6T/6-25	970		34.64	20.00	18.50	103000	84	409	365	498
HGT-125-6T/9-10	HGTX-125-6T/9-10	965		15.20	8.78	7.50	68200	78	280	252	400
HGT-125-6T/9-15	HGTX-125-6T/9-15	965		22.60	13.05	11.00	77550	81	294	266	414
HGT-125-6T/9-20	HGTX-125-6T/9-20	970		27.90	16.11	15.00	92900	84	376	333	463
HGT-125-6T/9-25	HGTX-125-6T/9-25	970		34.64	20.00	18.50	98700	85	418	374	507
HGT-125-6T/9-30	HGTX-125-6T/9-30	970		41.57	24.00	22.00	104000	87	438	394	527
HGT-125-8T/3-3	HGTX-125-8T/3-3	705	9.53	5.50		2.20	48800	71	209	176	340
HGT-125-8T/3-4	HGTX-125-8T/3-4	705	12.82	7.40		3.00	54900	71	216	183	347
HGT-125-8T/3-5.5	HGTX-125-8T/3-5.5	710	16.11	9.30		4.00	62100	73	249	221	369
HGT-125-8T/3-7.5	HGTX-125-8T/3-7.5	725		12.70	7.33	5.50	69500	75	262	234	382
HGT-125-8T/6-3	HGTX-125-8T/6-3	705	9.53	5.50		2.20	45700	69	218	185	349
HGT-125-8T/6-4	HGTX-125-8T/6-4	705	12.82	7.40		3.00	51800	71	225	192	356
HGT-125-8T/6-5.5	HGTX-125-8T/6-5.5	710	16.11	9.30		4.00	61500	72	258	230	378
HGT-125-8T/6-7.5	HGTX-125-8T/6-7.5	725		12.70	7.33	5.50	67500	73	271	243	391
HGT-125-8T/6-10	HGTX-125-8T/6-10	725		17.00	9.81	7.50	75500	75	301	273	421
HGT-125-8T/9-4	HGTX-125-8T/9-4	705	12.82	7.40		3.00	48200	70	234	201	365
HGT-125-8T/9-5.5	HGTX-125-8T/9-5.5	710	16.11	9.30		4.00	55200	73	267	239	387
HGT-125-8T/9-7.5	HGTX-125-8T/9-7.5	725		12.70	7.33	5.50	67000	75	280	252	400
HGT-125-8T/9-10	HGTX-125-8T/9-10	725		17.00	9.81	7.50	74750	76	310	282	430
HGT-125-8T/9-15	HGTX-125-8T/9-15	725		21.70	12.53	11.00	80800	79	372	329	459
HGT-140-6T/3-4		960	12.70	7.33		3.00	51000	82	251	214	
HGT-140-6T/3-5.5		960	16.50	9.53		4.00	56700	83	258	221	
HGT-140-6T/3-7.5		975		11.50	6.64	5.50	67900	84	266	229	
HGT-140-6T/3-10		965		15.20	8.78	7.50	80100	85	320	281	
HGT-140-6T/3-15		965		22.60	13.05	11.00	96900	86	334	295	
HGT-140-6T/3-20		970		27.90	16.11	15.00	106000	88	414	364	
HGT-140-6T/6-5.5		960	16.50	9.53		4.00	58000	82	268	231	
HGT-140-6T/6-7.5		975		11.50	6.64	5.50	66000	84	276	239	
HGT-140-6T/6-10		965		15.20	8.78	7.50	80700	85	330	291	
HGT-140-6T/6-15		965		22.60	13.05	11.00	96700	86	344	305	
HGT-140-6T/6-20		970		27.90	16.11	15.00	104000	87	423	374	
HGT-140-6T/6-25		970		34.64	20.00	18.50	115000	88	466	417	
HGT-140-6T/6-30		970		41.57	24.00	22.00	119000	89	486	437	
HGT-140-6T/9-10		965		15.20	8.78	7.50	70000	84	339	300	
HGT-140-6T/9-15		965		22.60	13.05	11.00	86000	86	353	314	
HGT-140-6T/9-20		970		27.90	16.11	15.00	97500	87	433	383	
HGT-140-6T/9-25		970		34.64	20.00	18.50	111000	88	475	427	
HGT-140-6T/9-30		970		41.57	24.00	22.00	118500	89	495	447	
HGT-140-6T/9-40		973		53.69	31.00	30.00	132000	91	561	499	
HGT-140-6T/9-50		975		65.82	38.00	37.00	139000	92	623	568	
HGT-140-8T/3-3		705	9.53	5.50		2.20	50000	78	258	221	
HGT-140-8T/3-4		705	12.82	7.40		3.00	57000	78	265	228	
HGT-140-8T/3-5.5		710	16.11	9.30		4.00	65400	79	307	268	
HGT-140-8T/3-7.5		725		12.70	7.33	5.50	77500	81	320	281	
HGT-140-8T/3-10		725		17.00	9.81	7.50	86000	82	350	311	
HGT-140-8T/6-3		705	9.53	5.50		2.20	47500	78	268	231	
HGT-140-8T/6-4		705	12.82	7.40		3.00	57600	79	275	238	

## Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed capacity (kW)	Maximum airflow (m³/h)	Sound pressure level dB(A)	Approx. weight (Kg)	
		230V	400V	690V				HGT	HGTX
HGT-140-8T/6-5.5	710	16.11	9.30		4.00	65200	80	317	278
HGT-140-8T/6-7.5	725		12.70	7.33	5.50	73300	81	330	291
HGT-140-8T/6-10	725		17.00	9.81	7.50	82200	82	360	321
HGT-140-8T/6-15	725		21.70	12.53	11.00	94200	83	419	370
HGT-140-8T/9-4	705	12.82	7.40		3.00	47200	79	284	247
HGT-140-8T/9-5.5	710	16.11	9.30		4.00	64400	79	326	287
HGT-140-8T/9-7.5	725		12.70	7.33	5.50	69200	81	339	300
HGT-140-8T/9-10	725		17.00	9.81	7.50	78700	82	369	330
HGT-140-8T/9-15	725		21.70	12.53	11.00	94300	83	429	379
HGT-140-8T/9-20	725		31.70	18.30	15.00	103000	86	485	437
HGT-160-6T/3-5.5	960	16.50	9.53		4.00	66000	81	327	275
HGT-160-6T/3-7.5	975		11.50	6.64	5.50	76100	82	335	283
HGT-160-6T/3-10	965		15.20	8.78	7.50	84000	83	393	339
HGT-160-6T/3-15	965		22.60	13.05	11.00	102000	85	407	353
HGT-160-6T/3-20	970		27.90	16.11	15.00	127000	86	500	431
HGT-160-6T/3-25	970		34.64	20.00	18.50	136700	87	543	473
HGT-160-6T/3-30	970		41.57	24.00	22.00	145000	89	563	493
HGT-160-6T/6-10	965		15.20	8.78	7.50	75000	83	404	350
HGT-160-6T/6-15	965		22.60	13.05	11.00	93500	85	418	364
HGT-160-6T/6-20	970		27.90	16.11	15.00	120500	86	510	441
HGT-160-6T/6-25	970		34.64	20.00	18.50	130000	87	553	484
HGT-160-6T/6-30	970		41.57	24.00	22.00	140000	88	573	504
HGT-160-6T/6-40	973		53.69	31.00	30.00	158000	89	656	557
HGT-160-6T/6-50	975		65.82	38.00	37.00	171000	91	714	629
HGT-160-6T/9-15	965		22.60	13.05	11.00	87000	85	428	374
HGT-160-6T/9-20	970		27.90	16.11	15.00	104000	86	520	451
HGT-160-6T/9-25	970		34.64	20.00	18.50	127000	87	563	494
HGT-160-6T/9-30	970		41.57	24.00	22.00	135000	88	583	514
HGT-160-6T/9-40	973		53.69	31.00	30.00	147000	89	666	567
HGT-160-6T/9-50	975		65.82	38.00	37.00	165000	90	724	640
HGT-160-6T/9-60	980		84.80	48.96	45.00	177000	91	844	745
HGT-160-6T/9-75	980		96.99	56.00	55.00	193000	92	932	833
HGT-160-6T/9-100	985		131.64	76.00	75.00	207500	93	1002	903
HGT-160-8T/3-3	705	9.53	5.50		2.20	54000	76	327	275
HGT-160-8T/3-4	705	12.82	7.40		3.00	57500	77	334	282
HGT-160-8T/3-5.5	710	16.11	9.30		4.00	74000	79	380	326
HGT-160-8T/3-7.5	725		12.70	7.33	5.50	83500	80	393	339
HGT-160-8T/3-10	725		17.00	9.81	7.50	97500	81	423	369
HGT-160-8T/3-15	725		21.70	12.53	11.00	115000	83	496	427
HGT-160-8T/6-4	705	12.82	7.40		3.00	70900	76	344	292
HGT-160-8T/6-5.5	710	16.11	9.30		4.00	84500	77	391	337
HGT-160-8T/6-7.5	725		12.70	7.33	5.50	77000	79	404	350
HGT-160-8T/6-10	725		17.00	9.81	7.50	95000	80	434	380
HGT-160-8T/6-15	725		21.70	12.53	11.00	109000	82	506	437
HGT-160-8T/6-20	725		31.70	18.30	15.00	123000	83	563	494
HGT-160-8T/6-25	725		35.85	20.70	18.50	130000	84	641	542
HGT-160-8T/9-7.5	725		12.70	7.33	5.50	70000	79	414	360
HGT-160-8T/9-10	725		17.00	9.81	7.50	87000	80	444	390
HGT-160-8T/9-15	725		21.70	12.53	11.00	103000	82	516	447
HGT-160-8T/9-20	725		31.70	18.30	15.00	117000	83	573	504
HGT-160-8T/9-25	725		35.85	20.70	18.50	133000	84	651	552
HGT-160-8T/9-30	725		41.60	24.02	22.00	140000	85	666	567
HGT-160-8T/9-40	730		60.79	35.10	30.00	151000	86	724	640

Acoustic features

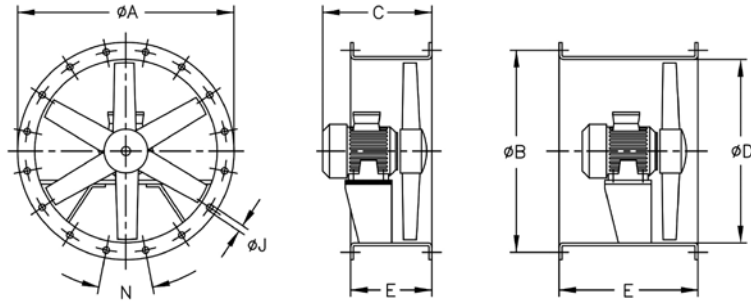
The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's external diameter plus the impeller's diameter, with a minimum of 1.5 m.

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

Model	63	125	250	500	1000	2000	4000	8000	Model	63	125	250	500	1000	2000	4000	8000
125-4T/3-10	70	76	88	98	98	94	86	82	140-6T/9-10	66	84	93	92	91	87	78	73
125-4T/3-15	71	77	89	99	99	95	87	83	140-6T/9-15	67	85	94	93	92	88	79	74
125-4T/3-20	72	78	90	100	100	96	88	84	140-6T/9-20	69	87	96	95	94	90	81	76
125-4T/3-25	73	79	91	101	101	97	89	85	140-6T/9-25	70	88	97	96	95	91	82	77
125-4T/3-30	74	80	92	102	102	98	90	86	140-6T/9-30	70	88	97	96	95	91	82	77
125-4T/3-40	75	81	93	103	103	99	91	87	140-6T/9-40	71	89	98	97	96	92	83	78
125-4T/3-50	76	82	94	104	104	100	92	88	140-6T/9-50	74	92	101	100	99	95	86	81
125-4T/3-60	77	83	95	105	105	101	93	89	140-8T/3-3	60	70	78	83	82	81	68	63
125-4T/6-20	66	74	90	97	99	94	88	84	140-8T/3-4	64	74	82	87	86	85	72	67
125-4T/6-25	67	75	91	98	100	95	89	85	140-8T/3-5.5	65	75	83	88	87	86	73	68
125-4T/6-30	68	76	92	99	101	96	90	86	140-8T/3-7.5	66	76	84	89	88	87	74	69
125-4T/6-40	69	77	93	100	102	97	91	87	140-8T/3-10	68	78	86	91	90	89	76	71
125-4T/6-50	71	79	95	102	104	99	93	89	140-8T/6-3	61	73	82	86	84	78	68	65
125-4T/6-60	72	80	96	103	105	100	94	90	140-8T/6-4	63	75	84	88	86	80	70	67
125-4T/6-75	72	80	96	103	105	100	94	90	140-8T/6-5.5	64	76	85	89	87	81	71	68
125-4T/6-100	74	82	98	105	107	102	96	92	140-8T/6-7.5	65	77	86	90	88	82	72	69
125-4T/9-25	66	74	91	97	98	93	88	84	140-8T/6-10	66	78	87	91	89	83	73	70
125-4T/9-30	67	75	92	98	99	94	89	85	140-8T/6-15	68	80	89	93	91	85	75	72
125-4T/9-40	68	76	93	99	100	95	90	86	140-8T/9-4	61	72	83	88	86	82	72	67
125-4T/9-50	70	78	95	101	102	97	92	88	140-8T/9-5.5	62	73	84	89	87	83	73	68
125-4T/9-60	72	80	97	103	104	99	94	90	140-8T/9-7.5	63	74	85	90	88	84	74	69
125-4T/9-75	72	80	97	103	104	99	94	90	140-8T/9-10	64	75	86	91	89	85	75	70
125-4T/9-100	74	82	99	105	106	101	96	92	140-8T/9-15	65	76	87	92	90	86	76	71
125-6T/3-4	64	72	84	88	86	81	72	68	140-8T/9-20	67	78	89	94	92	88	78	73
125-6T/3-5.5	66	74	86	90	88	83	74	70	160-6T/3-5.5	67	77	85	90	89	88	75	70
125-6T/3-7.5	67	75	87	91	89	84	75	71	160-6T/3-7.5	68	78	86	91	90	89	76	71
125-6T/3-10	68	76	88	92	90	85	76	72	160-6T/3-10	69	79	87	92	91	90	77	72
125-6T/3-15	69	77	89	93	91	86	77	73	160-6T/3-15	70	80	88	93	92	91	78	73
125-6T/3-20	71	79	91	95	93	88	79	75	160-6T/3-20	72	82	90	95	94	93	80	75
125-6T/6-5.5	59	68	81	84	85	82	71	67	160-6T/3-25	73	83	91	96	95	94	81	76
125-6T/6-7.5	60	69	82	85	86	83	72	68	160-6T/3-30	74	84	92	97	96	95	82	77
125-6T/6-10	61	70	83	86	87	84	73	69	160-6T/6-10	67	82	91	93	90	84	76	72
125-6T/6-15	63	72	85	88	89	86	75	71	160-6T/6-15	68	83	92	94	91	85	77	73
125-6T/6-20	65	74	87	90	91	88	77	73	160-6T/6-20	70	85	94	96	93	87	79	75
125-6T/6-25	66	75	88	91	92	89	78	74	160-6T/6-25	71	86	95	97	94	88	80	76
125-6T/9-10	57	67	82	86	85	84	73	69	160-6T/6-30	71	86	95	97	94	88	80	76
125-6T/9-15	59	69	84	88	87	86	75	71	160-6T/6-40	72	87	96	98	95	89	81	77
125-6T/9-20	62	72	87	91	90	89	78	74	160-6T/6-50	74	89	98	100	97	91	83	79
125-6T/9-25	64	74	89	93	92	91	80	76	160-6T/9-15	67	85	94	93	92	88	79	74
125-6T/9-30	66	76	91	95	94	93	82	78	160-6T/9-20	68	86	95	94	93	89	80	75
125-8T/3-3	56	63	74	78	77	70	61	57	160-6T/9-25	69	87	96	95	94	90	81	76
125-8T/3-4	59	66	77	81	80	73	64	60	160-6T/9-30	70	88	97	96	95	91	82	77
125-8T/3-5.5	60	67	78	82	81	74	65	61	160-6T/9-40	71	89	98	97	96	92	83	78
125-8T/3-7.5	62	69	80	84	83	76	67	63	160-6T/9-50	72	90	99	98	97	93	84	79
125-8T/6-3	53	61	73	78	77	72	61	57	160-6T/9-60	72	90	99	98	97	93	84	79
125-8T/6-4	54	62	74	79	78	73	62	58	160-6T/9-75	73	91	100	99	98	94	85	80
125-8T/6-5.5	56	64	76	81	80	75	64	60	160-6T/9-100	75	93	102	101	100	96	87	82
125-8T/6-7.5	58	66	78	83	82	77	66	62	160-8T/3-3	61	71	79	84	83	82	69	64
125-8T/6-10	59	67	79	84	83	78	67	63	160-8T/3-4	63	73	81	86	85	84	71	66
125-8T/9-4	51	62	72	78	79	74	63	59	160-8T/3-5.5	64	74	82	87	86	85	72	67
125-8T/9-5.5	53	64	74	80	81	76	65	61	160-8T/3-7.5	65	75	83	88	87	86	73	68
125-8T/9-7.5	56	67	77	83	84	79	68	64	160-8T/3-10	66	76	84	89	88	87	74	69
125-8T/9-10	58	69	79	85	86	81	70	66	160-8T/3-15	68	78	86	91	90	89	76	71
125-8T/9-15	59	70	80	86	87	82	71	67	160-8T/6-4	60	75	84	86	83	77	69	65
140-6T/3-4	66	76	84	89	88	87	74	74	160-8T/6-5.5	61	76	85	87	84	78	70	66
140-6T/3-5.5	69	79	87	92	91	90	77	77	160-8T/6-7.5	62	77	86	88	85	79	71	67
140-6T/3-7.5	69	79	87	92	91	90	77	77	160-8T/6-10	63	78	87	89	86	80	72	68
140-6T/3-10	70	80	88	93	92	91	78	78	160-8T/6-15	65	80	89	91	88	82	74	70
140-6T/3-15	71	81	89	94	93	92	79	79	160-8T/6-20	66	81	90	92	89	83	75	71
140-6T/3-20	73	83	91	96	95	94	81	81	160-8T/6-25	68	83	92	94	91	85	77	73
140-6T/6-5.5	66	81	90	92	89	83	75	71	160-8T/9-7.5	60	78	87	86	85	81	72	67
140-6T/6-7.5	67	82	91	93	90	84	76	72	160-8T/9-10	62	80	89	88	87	83	74	69
140-6T/6-10	68	83	92	94	91	85	77	73	160-8T/9-15	63	81	90	89	88	84	75	70
140-6T/6-15	69	84	93	95	92	86	78	74	160-8T/9-20	64	82	91	90	89	85	76	71
140-6T/6-20	71	86	95	97	94	88	80	76	160-8T/9-25	65	83	92	91	90	86	77	72
140-6T/6-25	72	87	96	98	95	89	81	77	160-8T/9-30	66	84	93	92	91	87	78	73
140-6T/6-30	73	88	97	99	96	90	82	78	160-8T/9-40	68	86	95	94	93	89	80	75

## Dimensions in mm

### HGT



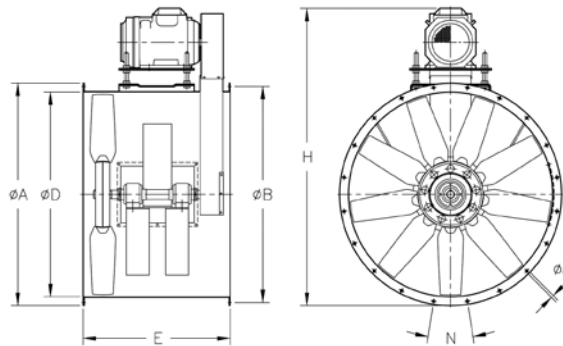
Model	ØA	ØB	C (Consult motor build sizes)							ØD	E*		ØJ	N
			132	160	180	200	225	250	280		Short (STD)	long		
HGT-125	1365	1320	586	-	-	-	-	-	-	1250	500	700	15	20x18°
HGT-125	1365	1320	-	700	-	-	-	-	-	1250	500	700	15	20x18°
HGT-125	1365	1320	-	-	765	825	-	-	-	1250	700	900	15	20x18°
HGT-125	1365	1320	-	-	-	-	910	-	-	1250	700	1000	15	20x18°
HGT-125	1365	1320	-	-	-	-	-	985	-	1250	700	1000	15	20x18°
HGT-125	1365	1320	-	-	-	-	-	-	1190	1250	700	1200	15	20x18°
HGT-140	1515	1470	586	-	-	-	-	-	-	1400	400	650	15	20x18°
HGT-140	1515	1470	-	700	-	-	-	-	-	1400	450	700	15	20x18°
HGT-140	1515	1470	-	-	765	825	-	-	-	1400	550	900	15	20x18°
HGT-140	1515	1470	-	-	-	-	910	-	-	1400	550	1000	15	20x18°
HGT-140	1515	1470	-	-	-	-	-	985	-	1400	600	1000	15	20x18°
HGT-160	1735	1680	586	-	-	-	-	-	-	1600	400	650	19	24x15°
HGT-160	1735	1680	-	700	-	-	-	-	-	1600	450	700	19	24x15°
HGT-160	1735	1680	-	-	765	825	-	-	-	1600	550	900	19	24x15°
HGT-160	1735	1680	-	-	-	-	910	-	-	1600	550	1000	19	24x15°
HGT-160	1735	1680	-	-	-	-	-	985	-	1600	600	1000	19	24x15°
HGT-160	1735	1680	-	-	-	-	-	-	1190	1600	700	1200	19	24x15°

\* The standard version is short casing. On request, long-casing with an inspection hatch.

### Motor build sizes depending on power

Pole	r/min	HP	3	4	5.5	7.5	10	15	20	25	30	40	50	60	75	100
4T	1500	-	-	-	-	132	160	160	180	180	200	225	225	250	280	
6T	1000	-	132	132	132	160	160	180	200	200	225	250	280	280	280	
8T	750	132	132	160	160	160	180	200	225	225	250	-	-	-	-	

### HGTX



Model	ØA	ØB	ØD	E	H (Consult motor build sizes)							ØJ	N	
					132	160	180	200	225	250	280			
HGT-X 125	1365	1320	1250	900	1743	1815	1850	-	-	-	-	-	15	20x18°
HGT-X 125	1365	1320	1250	960	-	-	-	1930	1995	-	-	-	15	20x18°
HGT-X 125	1365	1320	1250	1100	-	-	-	-	-	2060	-	-	15	20x18°
HGT-X 125	1365	1320	1250	1100	-	-	-	-	-	-	2090	-	15	20x18°

### Motor build sizes depending on power

Pole	r/min	HP	3	4	5.5	7.5	10	15	20	25	30	40	50	60	75	100
4T	1500	-	-	-	-	132	160	160	180	180	200	225	225	250	280	
6T	1000	-	132	132	132	160	160	180	200	200	225	250	280	280	280	
8T	750	132	132	160	160	160	180	200	225	225	250	-	-	-	-	

## EXAMPLE OF SELECTION

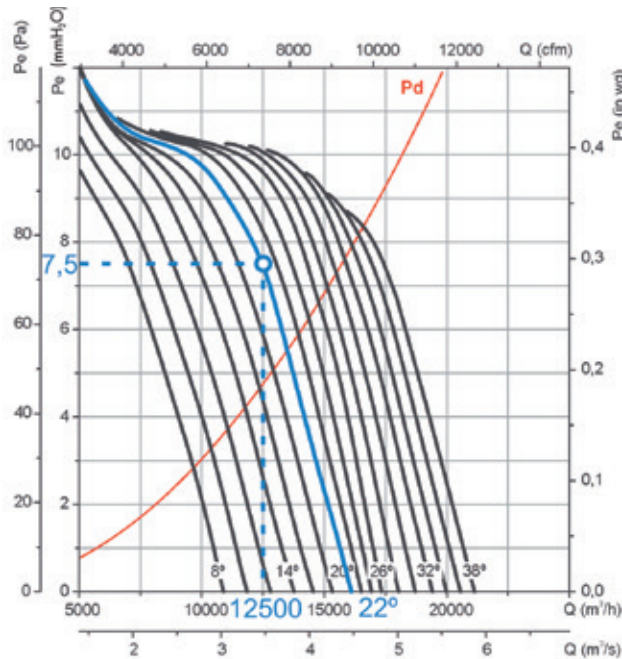
### Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg

**Impeller diameter (cm): 125    Number of pole: 8**

**Number of blades: 3**



#### Initial data

- Working point:
- Airflow: 12,500 m<sup>3</sup>/h
- Loss of load: 7.5 mmH<sub>2</sub>O

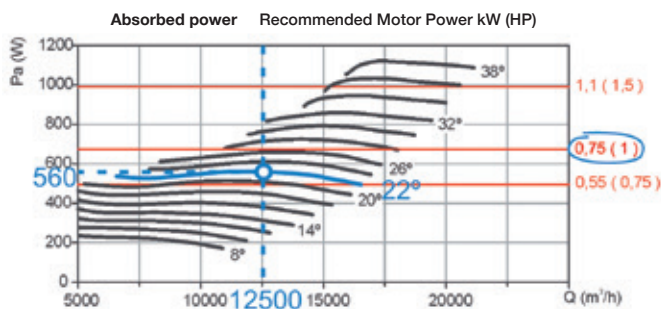
#### Steps for the selection of equipment

##### On the pressure graph:

1. Mark the working point, defined by the airflow (12,500 m<sup>3</sup>/h) and the loss of load (7.5 mmH<sub>2</sub>O).
2. Select the curve of the equipment which is closest above the working point. In our case, a curve with a blade angle of 22° is obtained.

##### On the power graph:

3. Mark the working point, defined by the airflow (12,500 m<sup>3</sup>/h) and the selected blade angle (22°).
4. Read the absorbed power on the power axis on the left. Pa = 560 W at the working point.
5. Look for the straight red line which is closest to the working point above. On the right-hand side of the graph, the value of the installed motor power is obtained. In our case, this is 0.75 kW or 1 HP



## EXAMPLE OF ORDER CODE

**HGT — 125 — 8T — 3 — 1 — 22**

HGT: Large diameter long cased axial fans with direct drive motor  
 HGTX: Large diameter long cased axial fans with external motor

Impeller diameter in cm.

Number of motor pole  
 4=1400 r/min. 50 Hz.  
 6=900 r/min. 50 Hz.  
 8=750 r/min. 50 Hz.

T=Three-phase

Number of blades:  
 3 blades  
 6 blades  
 9 blades

Motor power (HP)

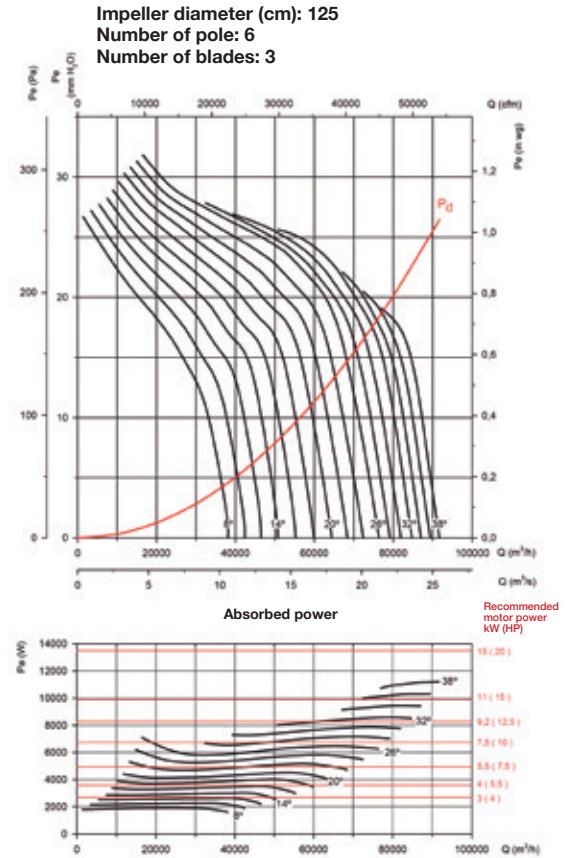
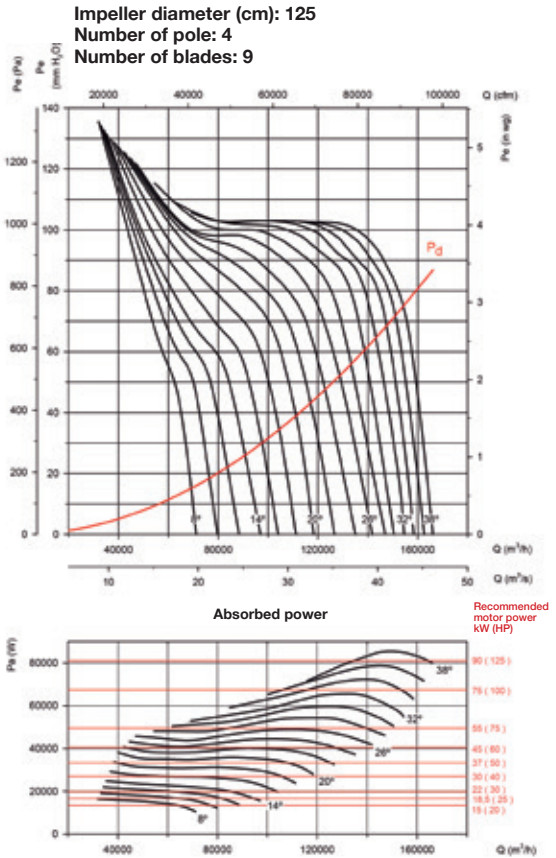
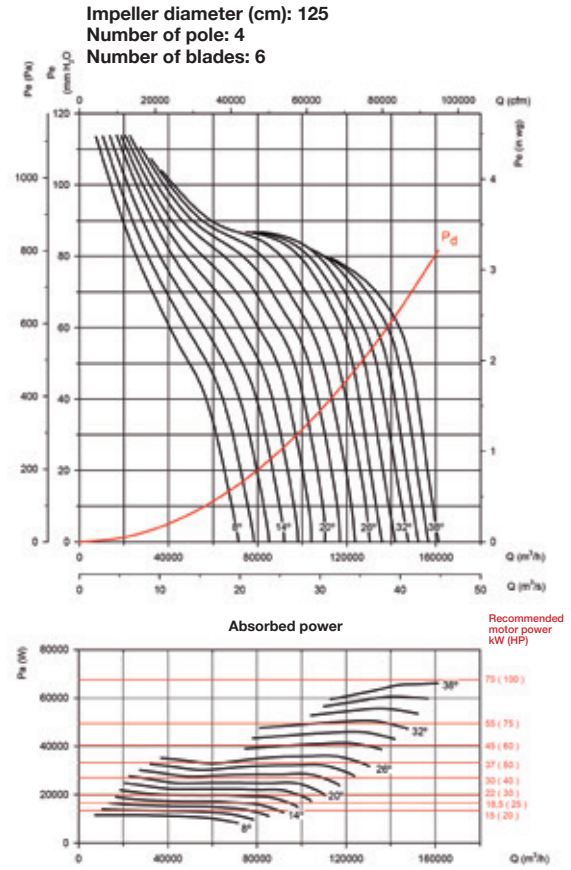
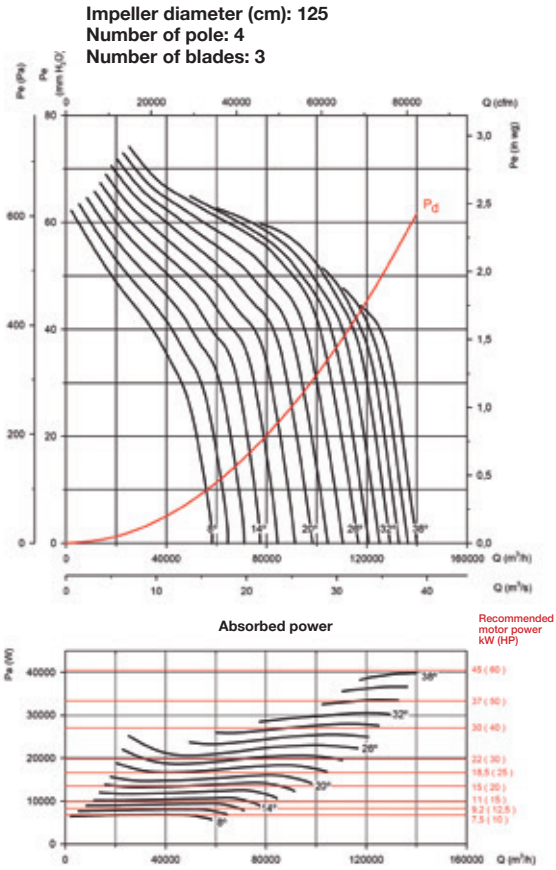
Impeller blade angle



## Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg

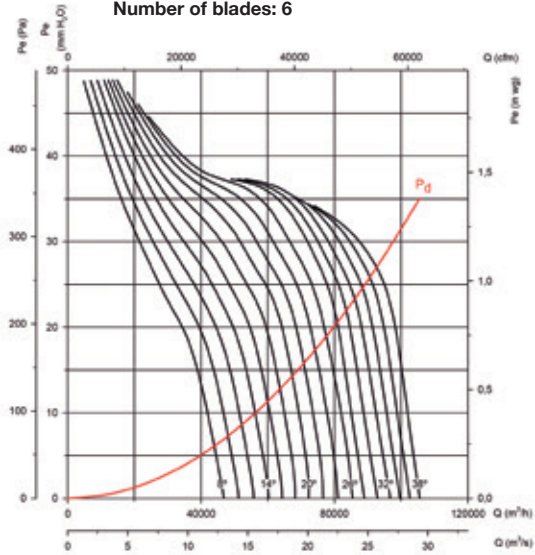


## Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

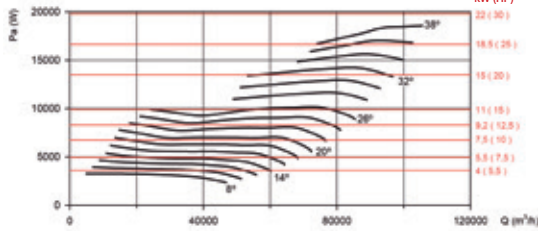
Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg

Impeller diameter (cm): 125  
Number of pole: 6  
Number of blades: 6

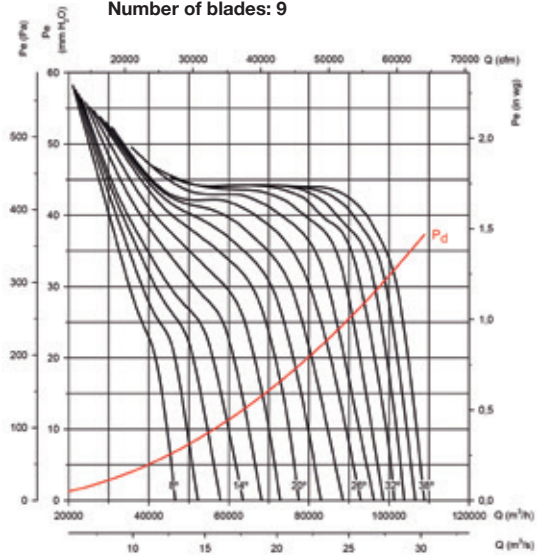


Absorbed power

Recommended motor power kW (HP)

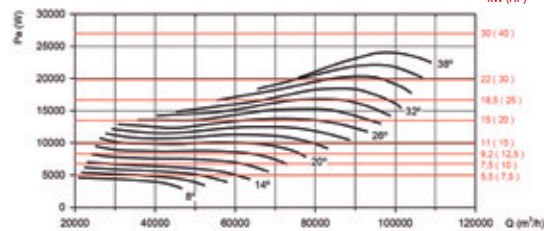


Impeller diameter (cm): 125  
Number of pole: 6  
Number of blades: 9

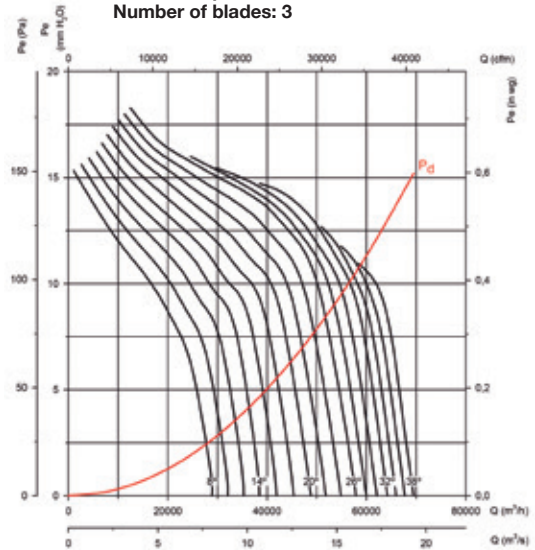


Absorbed power

Recommended motor power kW (HP)

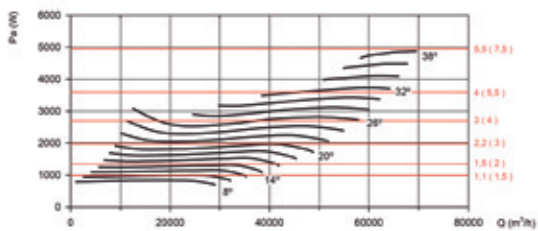


Impeller diameter (cm): 125  
Number of pole: 8  
Number of blades: 3

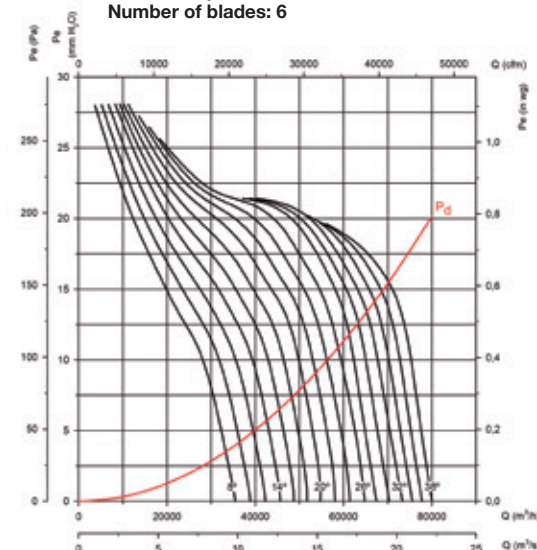


Absorbed power

Recommended motor power kW (HP)

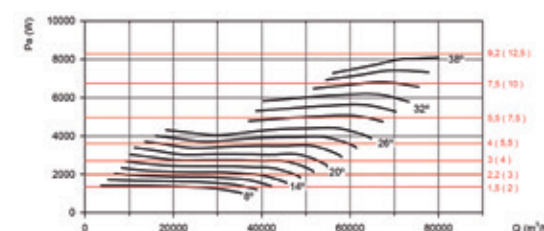


Impeller diameter (cm): 125  
Number of pole: 8  
Number of blades: 6



Absorbed power

Recommended motor power kW (HP)



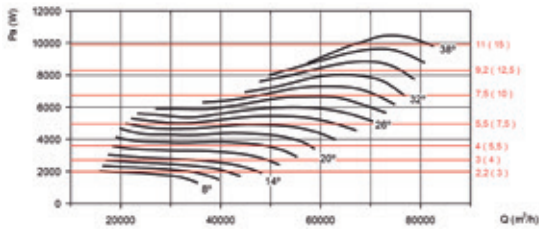
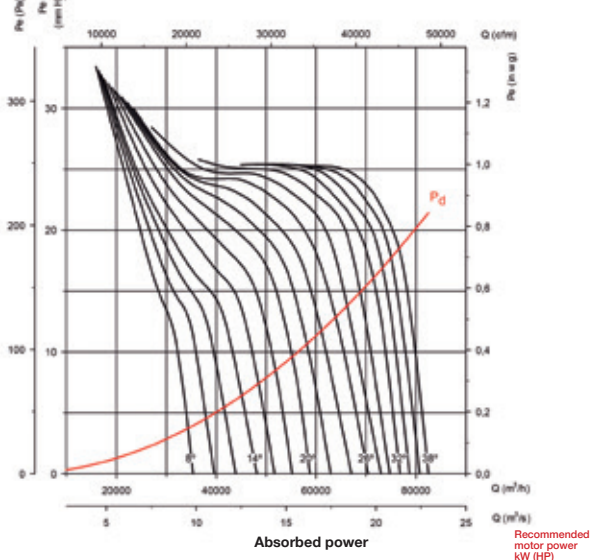


## Characteristic Curves

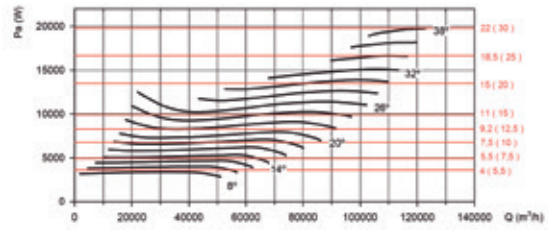
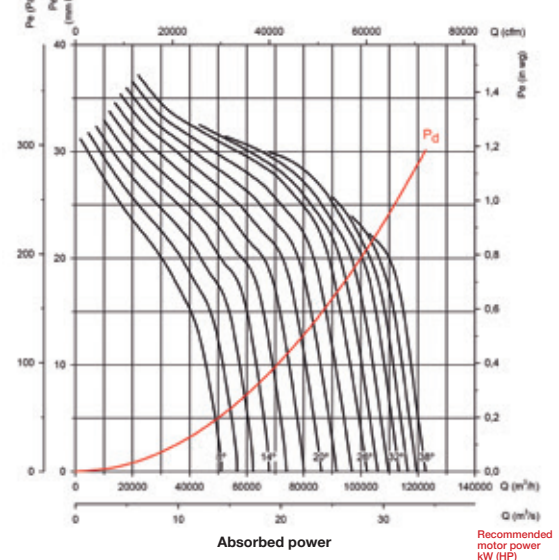
Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg

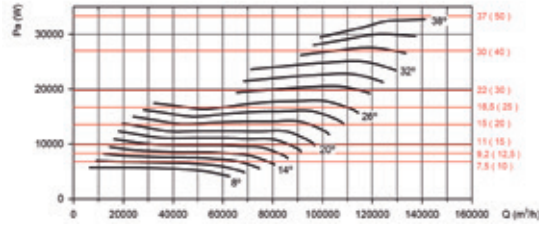
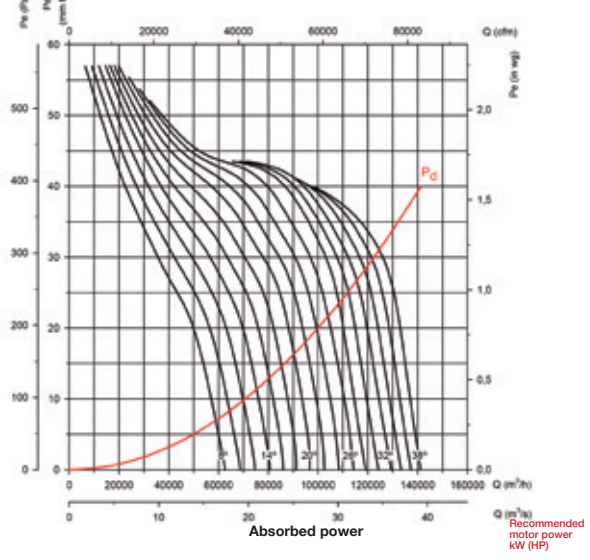
Impeller diameter (cm): 125  
Number of pole: 8  
Number of blades: 9



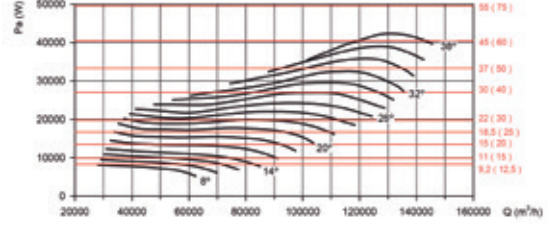
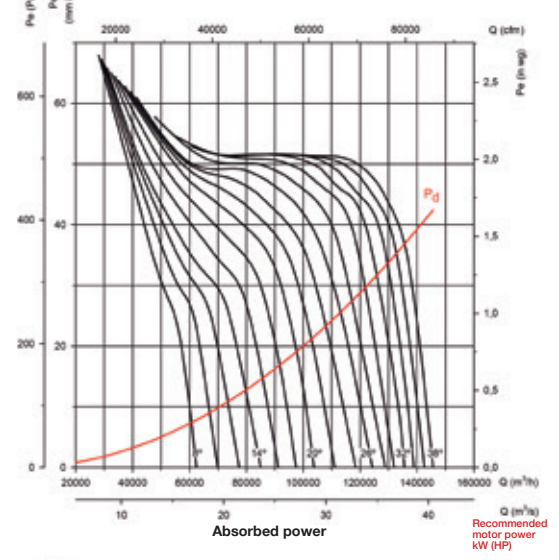
Impeller diameter (cm): 140  
Number of pole: 6  
Number of blades: 3



Impeller diameter (cm): 140  
Number of pole: 6  
Number of blades: 6



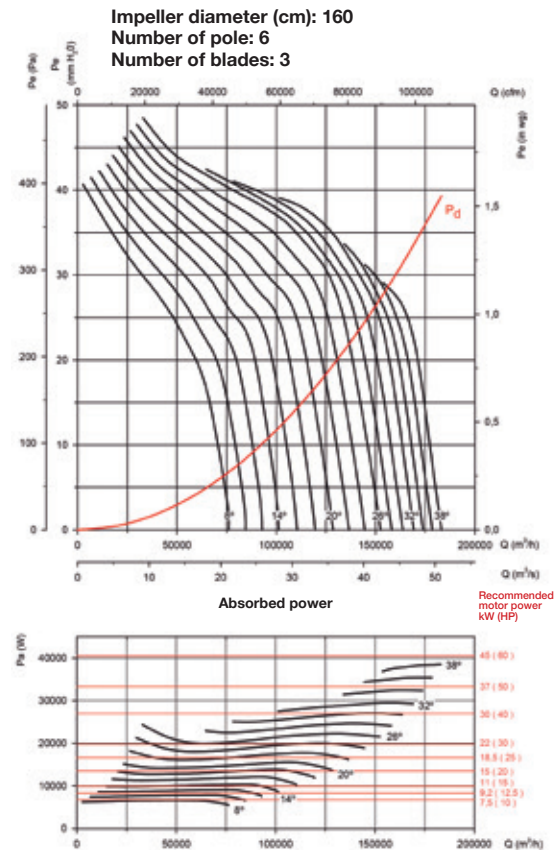
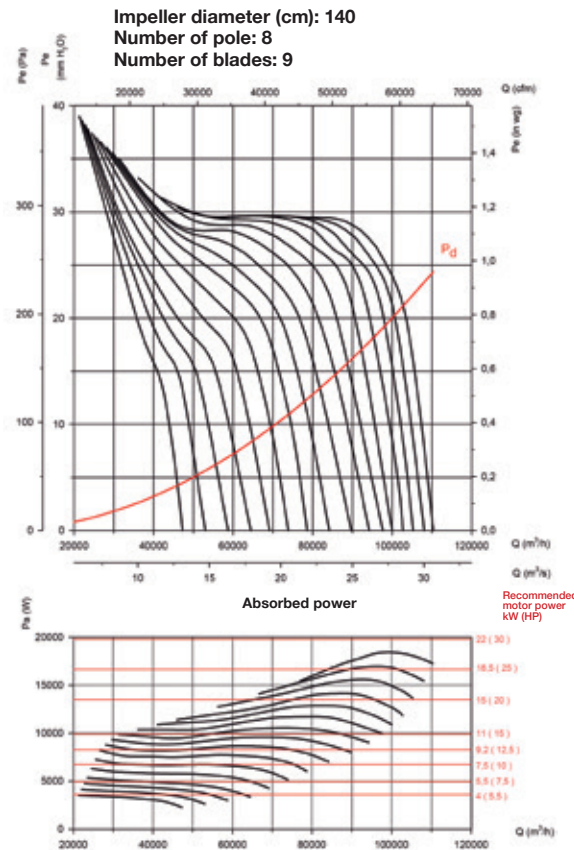
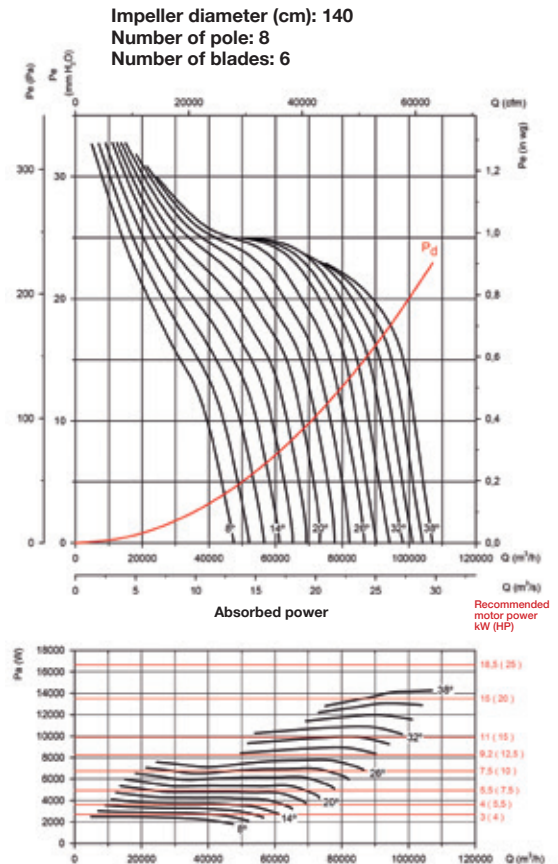
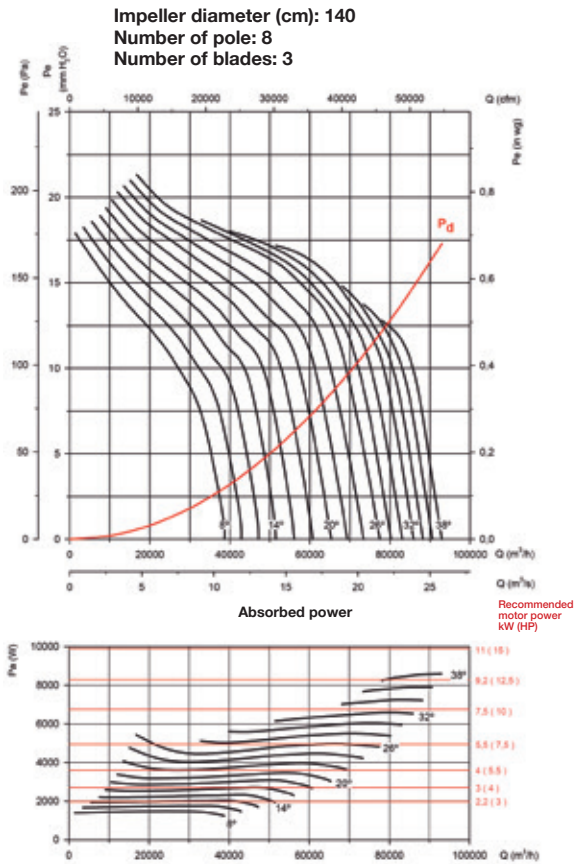
Impeller diameter (cm): 140  
Number of pole: 6  
Number of blades: 9



## Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg

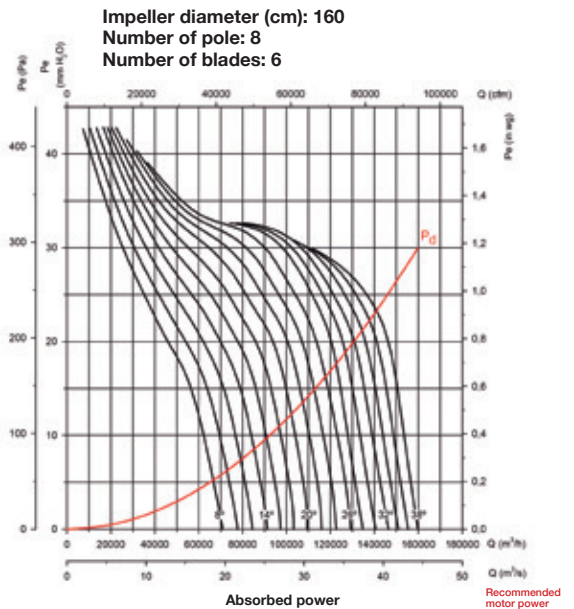
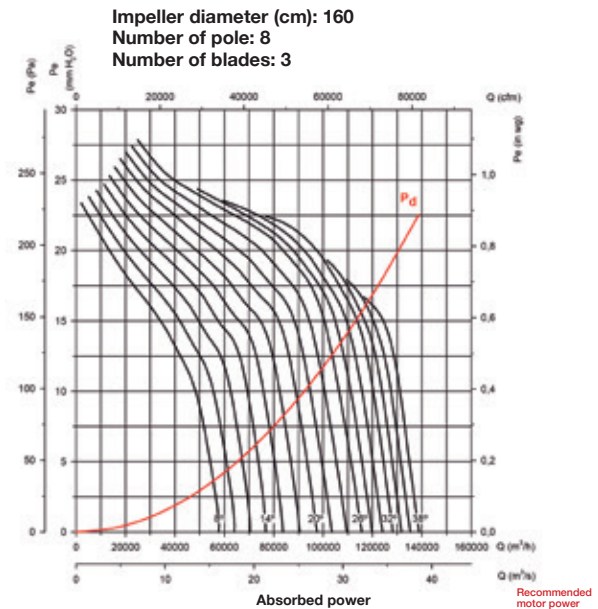
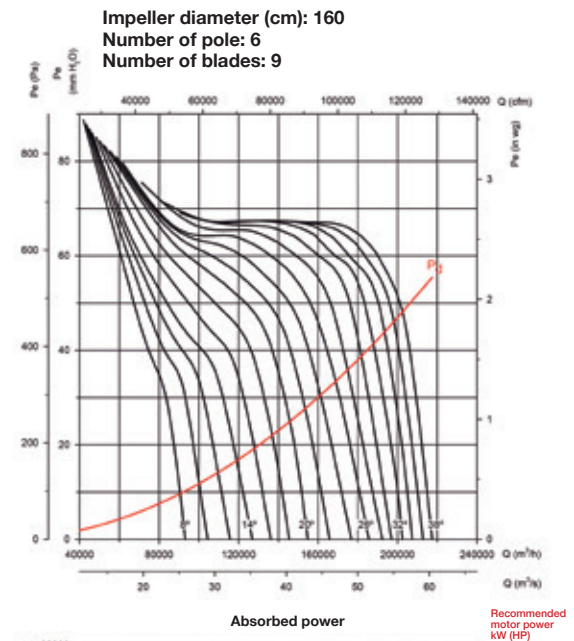
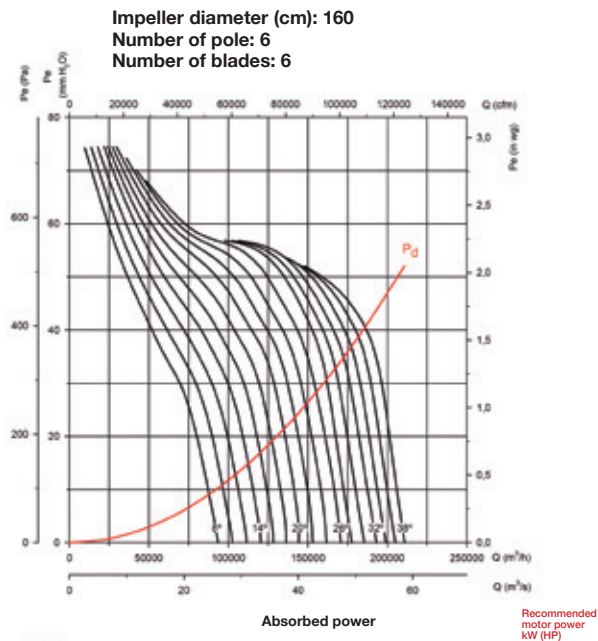




## Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

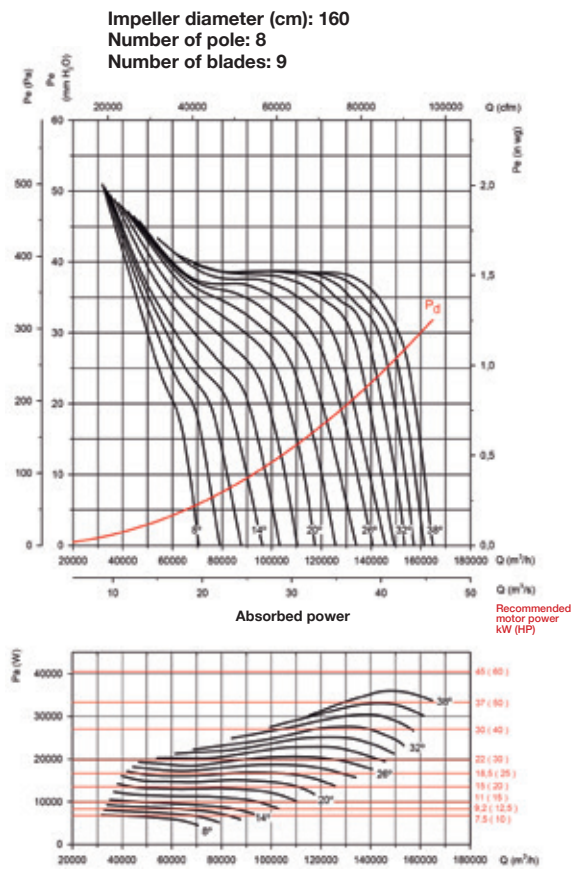
Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg



## Characteristic Curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg



## Accessories

See accessories section.

