THT/IE5

Tubular axial fans with short casing, 400 ºC/2h, and ultra-high efficiency IE5 motor

Tubular axial fans with short casing for operation in fire-risk zones and ultra-high efficiency IE5 F400 motor.

Fan:
- Tubular casing in sheet steel.
- Variable angle impeller made of cast aluminium.
- Certified according to EN 12101-3, F400 classification.
- Airflow direction from motor to impeller.

Motor:
- Class H motors for continuous use (S1) and emergency use (S2). With ball bearings, IP55 protection, and single speed.
- IE5 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum air temperature: Service S1 -25 ºC to +40 ºC continuously, also suitable for hot climates up to 50 ºC. Service S2 400 ºC/2h.

Finish:
- Anti-corrosive finish in polyester resin, polymerised at 190 ºC, after degreasing with phosphate-free nanotechnology treatment.

Available versions:
- THT/CL/IE5: Tubular axial fans with long casing equipped with inspection hatch.

On request:
- Airflow direction from impeller to motor.
- 100% reversible impellers.

Order code

From size 56 to size 90

THT/IE5	–	56	–	4T	–	2	–	F400
THT/IE5: Tubular axial fans with short casing, 400 ºC/2h, and ultra-high efficiency IE5 motor		Impeller diameter in cm		Number of motor poles 4=1500 r/min 50 Hz T = Three-phase		Motor power (HP)		F400: 400 ºC/2h approved

From size 100 to size 125

THT/IE5	–	125	–	4T	/	6	–	30	–	F400
THT/IE5: Tubular axial fans with short casing, 400 ºC/2h, and ultra-high efficiency IE5 motor		Impeller diameter in cm		Number of motor poles 4=1500 r/min 50 Hz	T = Three-phase	Number of blades: 6 blades 9 blades		Motor power (HP)		F400: 400 ºC/2h approved

THT/CL/IE5

Tubular axial fans with long casing, 400 ºC/2h, external terminal box, and ultra-high efficiency IE5 motor

Tubular axial fans with long casing for operation in fire-risk zones and ultra-high efficiency IE5 F400 motor.

Fan:
- Tubular casing in sheet steel with external terminal box (Cable box) and inspection hatch.
- Variable angle impeller made of cast aluminium.
- Certified according to EN 12101-3, F400 classification.
- Airflow direction from motor to impeller.

Motor:
- Class H motors for continuous use (S1) and emergency use (S2). With ball bearings, IP55 protection, and single speed.
- IE5 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum air temperature: Service S1 -25 ºC to +40 ºC continuously, also suitable for hot climates up to 50 ºC. Service S2 400 ºC/2h.

Finish:
- Anti-corrosive finish in polyester resin, polymerised at 190 ºC, after degreasing with phosphate-free nanotechnology treatment.

Available versions:
- THT/IE5: Tubular axial fans with short casing.

On request:
- Airflow direction from impeller to motor.
- 100% reversible impellers.

Order code

From size 40 to size 90

THT/CL/IE5	—	56	—	4T	—	2	—	F400
THT/CL/IE5: Tubular axial fans with long casing, 400 ºC/2h, external terminal box, and ultra-high efficiency IE5 motor		Impeller diameter in cm		Number of motor poles 2=3000 r/min 50 Hz 4=1500 r/min 50 Hz	T = Three-phase	Motor power (HP)		F400: 400 ºC/2h approved

From size 100 to size 125

THT/CL/IE5	—	125	—	4T	/	6	—	30	—	F400
THT/CL/IE5: Tubular axial fans with long casing, 400 ºC/2h, external terminal box, and ultra-high efficiency IE5 motor		Impeller diameter in cm		Number of motor poles 4=1500 r/min 50 Hz	T = Three-phase	Number of blades: 6 blades 9 blades		Motor power (HP)		F400: 400 ºC/2h approved

Technical characteristics

Model[1]	Speed	Maximum admissible current (A)			Installed power	Blade tilt angle	Maximum flow rate	Sound pressure leavel[2] dB (A)	Approx. weight (Kg)	
	(r/min)	230V	400V	690V	(kW)	(º)	(m³/h)	Inlet	THT/IE5	THT/CL/IE5
40-2T-1.5	2985	3.79	2.18		1.10	20	7030	71	-	36
45-2T-2	2990	4.99	2.87		1.50	16	9395	71	-	40
45-2T-3	2990	7.11	4.09		2.20	22	11325	71	-	42
50-2T-3	2990	7.11	4.09		2.20	12	11950	76	-	49
50-4T-1	1495	2.89	1.66		0.75	22	8390	60	-	40
56-4T-1	1495	2.89	1.66		0.75	22	11250	63	42	48
56-4T-1.5	1495	4.12	2.37		1.10	30	13600	63	40	44
56-4T-2	1495	5.34	3.07		1.50	36	15025	64	49	54
63-4T-1	1495	2.89	1.66		0.75	14	15185	67	46	52
63-4T-1.5	1495	4.12	2.37		1.10	20	17795	66	45	51
63-4T-2	1495	5.34	3.07		1.50	24	19275	66	55	61
63-4T-3	1495	7.65	4.40		2.20	32	22150	68	58	68
63-4T-4	1495	10.23	5.88		3.00	38	24240	69	76	86
71-4T-1.5	1495	4.12	2.37		1.10	12	19480	71	52	58
71-4T-2	1495	5.34	3.07		1.50	14	20900	70	62	67
71-4T-3	1495	7.65	4.40		2.20	22	25100	70	65	74
71-4T-4	1495	10.23	5.88		3.00	28	27480	70	82	92
80-4T-3	1495	7.65	4.40		2.20	12	25450	75	73	83
80-4T-4	1495	10.23	5.88		3.00	16	30250	74	90	100
80-4T-5.5	1495		7.78	4.51	4.00	18	32750	73	88	97
90-4T-4	1495	10.23	5.88		3.00	8	33580	79	106	122
90-4T-5.5	1495		7.78	4.51	4.00	12	38880	78	102	120
90-4T-7.5	1495		10.60	6.14	5.50	18	46135	77	138	156
90-4T-10	1495		14.20	8.23	7.50	22	50140	76	157	174
100-4T-7.5	1495		10.60	6.14	5.50	10	46850	82	144	164
100-4T-10	1495		14.20	8.23	7.50	16	57400	79	162	182
100-4T-15	1495		20.20	11.70	11.00	22	66300	79	239	259
100-4T-20	1495		27.10	15.70	15.00	28	76150	80	264	284
100-4T/9-15	1495		20.20	11.70	11.00	18	55340	80	248	268
100-4T/9-20	1495		27.10	15.70	15.00	22	63260	80	273	293
100-4T/9-25	1495		33.00	19.10	18.50	26	70625	80	269	289
100-4T/9-30	1495		39.10	22.70	22.00	30	74845	82	297	317
125-4T/6-20	1495		27.10	15.70	15.00	10	78600	87	344	372
125-4T/6-25	1495		33.00	19.10	18.50	14	92545	86	363	406
125-4T/6-30	1495		39.10	22.70	22.00	16	98830	85	388	431
125-4T/6-40	1495		53.10	29.50	30.00	22	117450	85	449	493
125-4T/9-25	1495		33.00	19.10	18.50	10	79650	87	372	415
125-4T/9-30	1495		39.10	22.70	22.00	12	88280	86	397	440
125-4T/9-40	1495		53.10	29.50	30.00	16	104040	85	458	502

1. The 40, 45 and 50 models only in THT/CL version.
2. Sound pressure level in dB(A) at a distance of 3 m and at maximum flow rate.

Erp. (Energy Related Products)

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

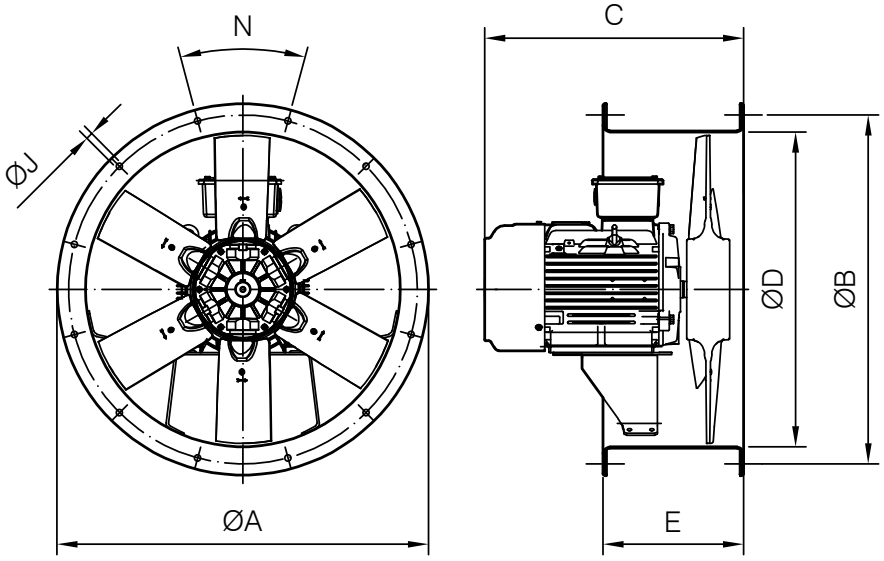
Acoustic characteristics

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
40-2-1.5	47	63	75	83	88	86	82	75
45-2-2	47	60	74	86	87	86	82	74
45-2-3	47	64	74	81	88	86	83	75
50-2-3	58	74	84	91	92	89	88	89
50-4-1	49	61	69	75	75	75	70	62
56-4-1	51	63	72	78	78	78	72	64
56-4-1.5	51	63	72	78	78	78	72	64
56-4-2	52	64	73	79	79	79	73	65
63-4-1	48	64	76	82	84	81	74	66
63-4-1.5	47	63	75	81	83	80	73	65
63-4-2	54	66	75	81	81	81	75	67
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70
71-4-1.5	57	73	80	86	86	86	82	74
71-4-2	56	72	79	85	85	85	81	73
71-4-3	56	72	79	85	85	85	81	73
71-4-4	63	75	79	85	85	86	83	75
80-4-3	55	71	84	91	91	88	82	74
80-4-4	54	70	83	90	90	87	81	73
80-4-5.5	53	69	82	89	89	86	80	72

	63	125	250	500	1000	2000	4000	8000
90-4-4	61	77	88	94	95	93	88	80
90-4-5.5	60	76	87	93	94	92	87	79
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
100-4-7.5	67	83	90	97	98	96	92	84
100-4-10	64	80	87	94	95	93	89	81
100-4-15	71	83	87	93	94	94	91	83
100-4-20	72	84	88	94	95	95	92	84
100-4/9-15	65	81	88	95	96	94	90	82
100-4/9-20	72	84	88	94	95	95	92	84
100-4/9-25	72	84	88	94	95	95	92	84
100-4/9-30	74	86	90	96	97	97	94	86
125-4/6-20	69	85	96	103	104	102	95	87
125-4/6-25	68	84	95	102	103	101	94	86
125-4/6-30	67	83	94	101	102	100	93	85
125-4/6-40	67	83	94	101	102	100	93	85
125-4/9-25	67	81	94	102	104	101	96	88
125-4/9-30	66	80	93	101	103	100	95	87
125-4/9-40	65	79	92	100	102	99	94	86

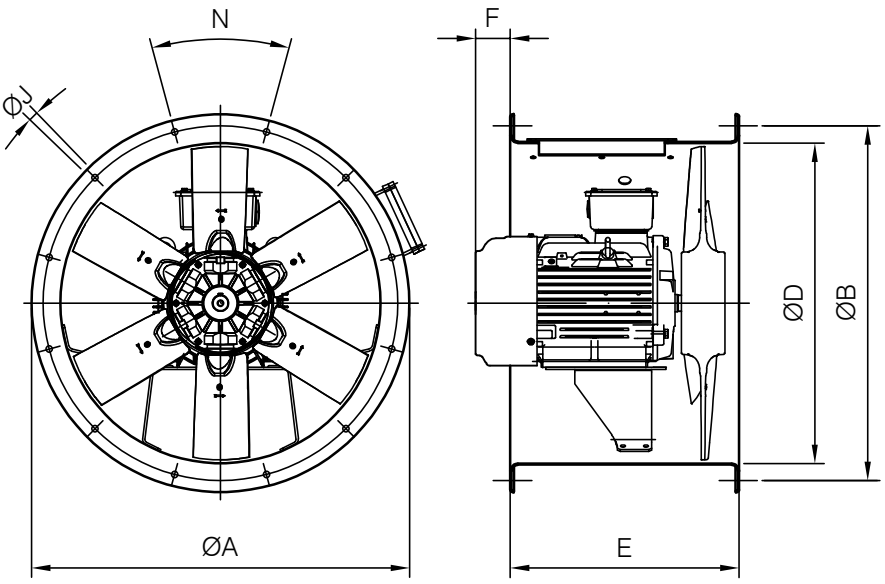
Dimensions mm



	Motor size	ØA	ØB	C	ØD	E	ØJ	N
THT/IE5-56	80	660	620	405	560	250	12	12x30°
THT/IE5-56	90S	660	620	410	560	250	12	12x30°
THT/IE5-56	90L	660	620	450	560	250	12	12x30°
THT/IE5-63	80	730	690	405	640	250	12	12x30°
THT/IE5-63	90S	730	690	410	640	250	12	12x30°
THT/IE5-63	90L	730	690	450	640	250	12	12x30°
THT/IE5-63	100L	730	690	480	640	250	12	12x30°
THT/IE5-71	90S	810	770	410	710	300	12	16x22°30'
THT/IE5-71	90L	810	770	450	710	300	12	16x22°30'
THT/IE5-71	100L	810	770	485	710	300	12	16x22°30'
THT/IE5-80	100L	900	860	510	800	300	12	16x22°30'
THT/IE5-80	112M	900	860	535	800	300	12	16x22°30'
THT/IE5-90	100L	1015	970	520	900	350	15	16x22°30'

	Motor size	ØA	ØB	C	ØD	E	ØJ	N
THT/IE5-90	112M	1015	970	545	900	350	15	16x22°30'
THT/IE5-90	132S	1015	970	550	900	350	15	16x22°30'
THT/IE5-90	132M	1015	970	605	900	350	15	16x22°30'
THT/IE5-100	132S	1115	1070	550	1000	450	15	16x22°30'
THT/IE5-100	132M	1115	1070	605	1000	450	15	16x22°30'
THT/IE5-100	160M	1115	1070	710	1000	450	15	16x22°30'
THT/IE5-100	160L	1115	1070	780	1000	450	15	16x22°30'
THT/IE5-100	180M	1115	1070	765	1000	450	15	16x22°30'
THT/IE5-100	180L	1115	1070	765	1000	450	15	16x22°30'
THT/IE5-125	160L	1365	1320	780	1250	500	15	20x18°
THT/IE5-125	180M	1365	1320	765	1250	500	15	20x18°
THT/IE5-125	180L	1365	1320	765	1250	500	15	20x18°
THT/IE5-125	200L	1365	1320	860	1250	500	15	20x18°

Dimensions mm



	Motor size	ØA	ØB	C	ØD	E	ØJ	N
THT/CL/IE5-40	80	490	450	410	400	5	12	8x45º
THT/CL/IE5-45	80	540	500	460	400	5	12	8x45º
THT/CL/IE5-45	90S	540	500	460	400	10	12	8x45º
THT/CL/IE5-45	90L	540	500	460	400	50	12	8x45º
THT/CL/IE5-50	80	600	560	514	400	5	12	12x30º
THT/CL/IE5-50	90L	600	560	514	400	50	12	12x30º
THT/CL/IE5-56	80	660	620	560	400	5	12	12x30º
THT/CL/IE5-56	90S	660	620	560	400	10	12	12x30º
THT/CL/IE5-56	90L	660	620	560	400	50	12	12x30º
THT/CL/IE5-63	80	730	690	640	400	5	12	12x30º
THT/CL/IE5-63	90S	730	690	640	400	10	12	12x30º
THT/CL/IE5-63	90L	730	690	640	400	50	12	12x30º
THT/CL/IE5-63	100L	730	690	640	500	-	12	12x30º
THT/CL/IE5-71	90S	810	770	710	430	-	12	16x22º30'
THT/CL/IE5-71	90L	810	770	710	430	40	12	16x22º30'
THT/CL/IE5-71	100L	810	770	710	500	5	12	16x22º30'
THT/CL/IE5-80	100L	900	860	800	500	20	12	16x22º30'
THT/CL/IE5-80	112M	900	860	800	500	45	12	16x22º30'
THT/CL/IE5-90	100L	1015	970	900	600	-	15	16x22º30'
THT/CL/IE5-90	112M	1015	970	900	600	-	15	16x22º30'
THT/CL/IE5-90	132S	1015	970	900	600	-	15	16x22º30'
THT/CL/IE5-90	132M	1015	970	900	600	15	15	16x22º30'
THT/CL/IE5-100	132S	1115	1070	1000	600	-	15	16x22º30'
THT/CL/IE5-100	132M	1115	1070	1000	600	15	15	16x22º30'
THT/CL/IE5-100	160M	1115	1070	1000	700	10	15	16x22º30'
THT/CL/IE5-100	160L	1115	1070	1000	700	80	15	16x22º30'
THT/CL/IE5-100	180M	1115	1070	1000	700	65	15	16x22º30'
THT/CL/IE5-100	180L	1115	1070	1000	700	65	15	16x22º30'
THT/CL/IE5-125	160L	1365	1320	1250	700	80	15	20x18º
THT/CL/IE5-125	180M	1365	1320	1250	900	-	15	20x18º
THT/CL/IE5-125	180L	1365	1320	1250	900	-	15	20x18º
THT/CL/IE5-125	200L	1365	1320	1250	900	-	15	20x18º

Motor build sizes depending on power (1 speed)

	0,75	1	1,5	2	3	4	5,5	7,5	10	12	15	20
2T (3000 r/min)	71	80	80	90S	90L	100LB	112M	132S	132S	132MA	160M	160M
4T (1500 r/min)	80	80	90S	90L	100LA	100LB	112M	132S	132M	-	160ML	160L
6T (1000 r/min)	90S	90S	90L	100L	112M	132S	132MA	132MB	160M	-	160L	180ML
8T (750 r/min)	90L	100LA	100L	112M	132S	132M	160MA	160M	160L	-	180L	200MLA

	22	25	30	40	50	60	75	100
2T (3000 r/min)	160L	180M	180L	200L	225S/M	225S/M	250S/M	280S/M
4T (1500 r/min)	-	180M	180L	200L	225S/M	225S/M	250S/M	280S/M
6T (1000 r/min)	-	200MLA	200MLB	225SMB	250S/M	280S/M	280S/M	-
8T (750 r/min)	-	225SMA	225SMB	250SMA	280S/M	280S/M	-	-

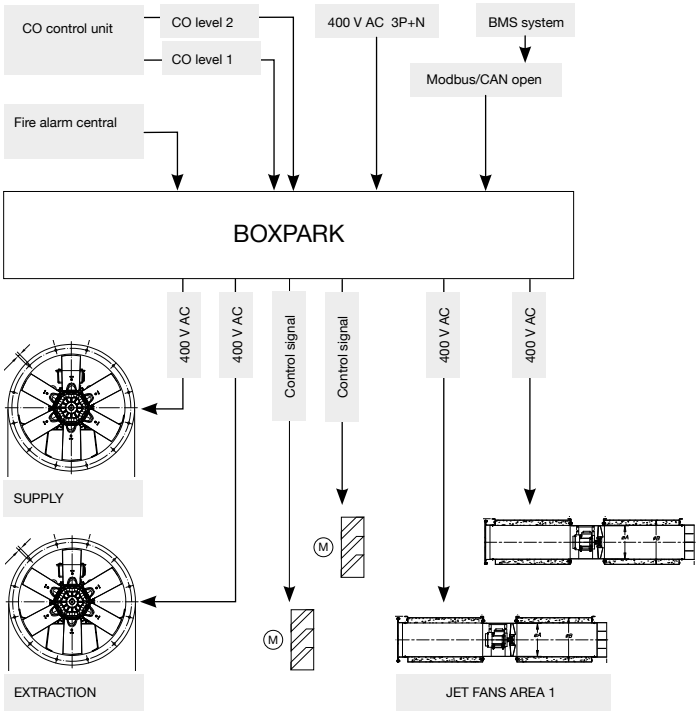
Configuration with BOXPARK

Control panels for car park ventilation systems with triple purpose: daily ventilation, CO concentration control and smoke extraction in case of fire

Control panels in metal enclosure with all the necessary elements for the management and control of fans in car park ventilation systems, whether they are based on duct networks or impulse fans, for the control of CO concentration levels and smoke extraction in case of fire. Customised panels for all power ratings and number of fans according to project requirements.

More information see BOXPARK series.

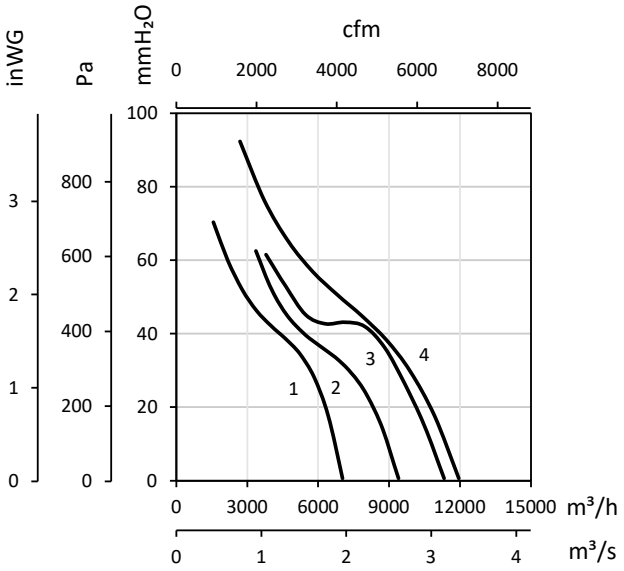
Installation examples with BOXPARK



Characteristic curves

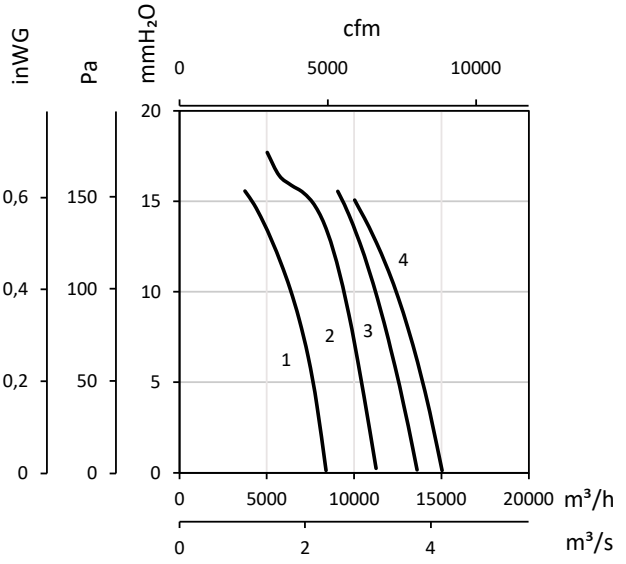
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

2T=3000 r/min



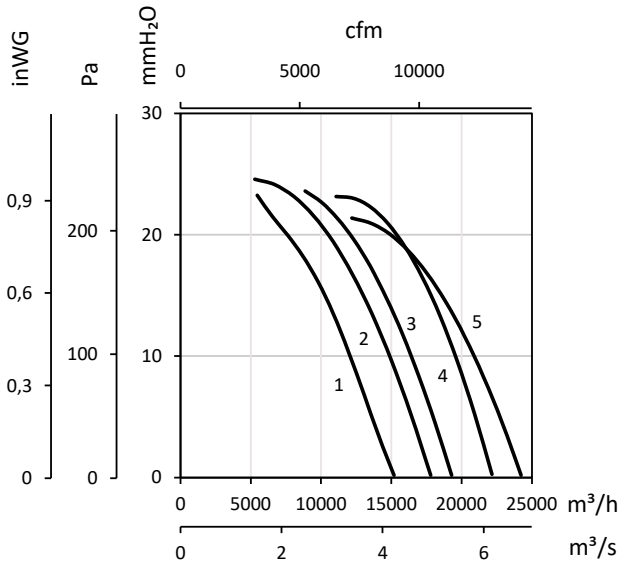
1 : 40-2T-1.5
2 : 45-2T-2
3 : 45-2T-3
4 : 50-2T-3

4T=1500 r/min



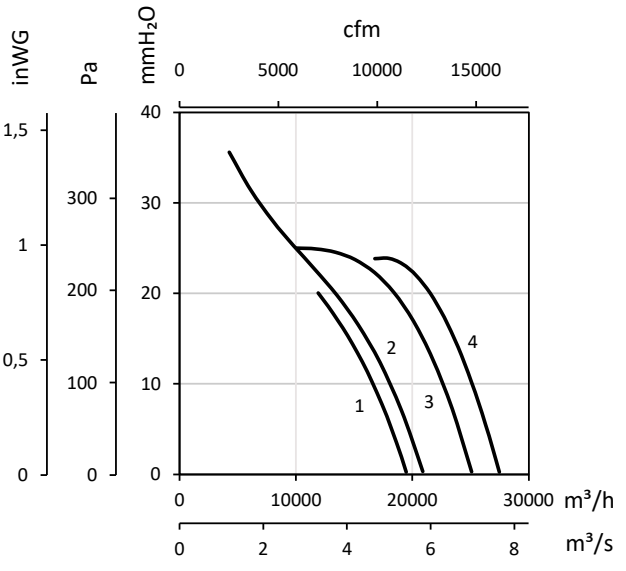
1 : 50-4T-1
2 : 56-4T-1
3 : 56-4T-1.5
4 : 56-4T-2

4T=1500 r/min



1 : 63-4T-1
2 : 63-4T-1.5
3 : 63-4T-2
4 : 63-4T-3
5 : 63-4T-4

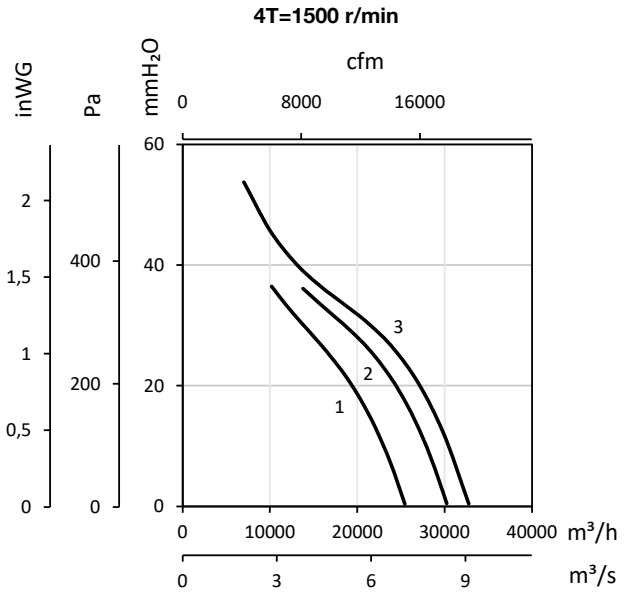
4T=1500 r/min



1 : 71-4T-1.5
2 : 71-4T-2
3 : 71-4T-3
4 : 71-4T-4

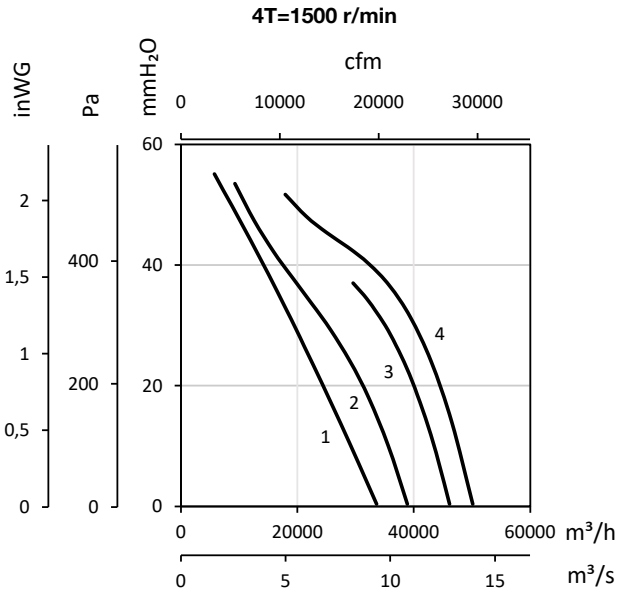
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg



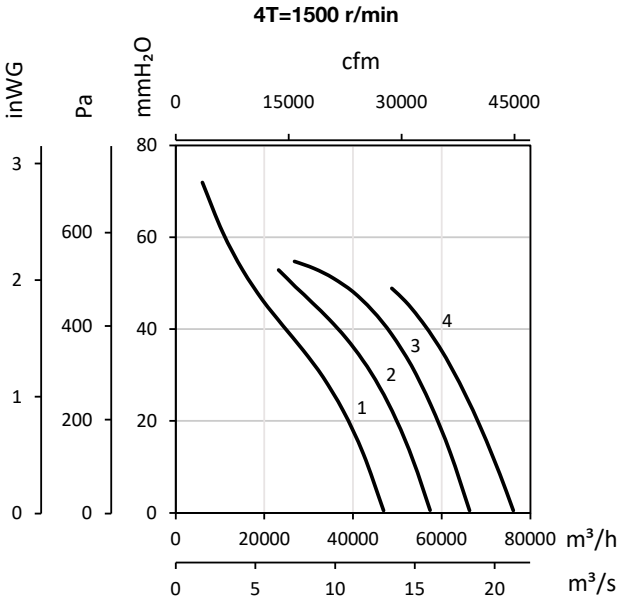
1 : 80-4T-3
2 : 80-4T-4

3 : 80-4T-5.5



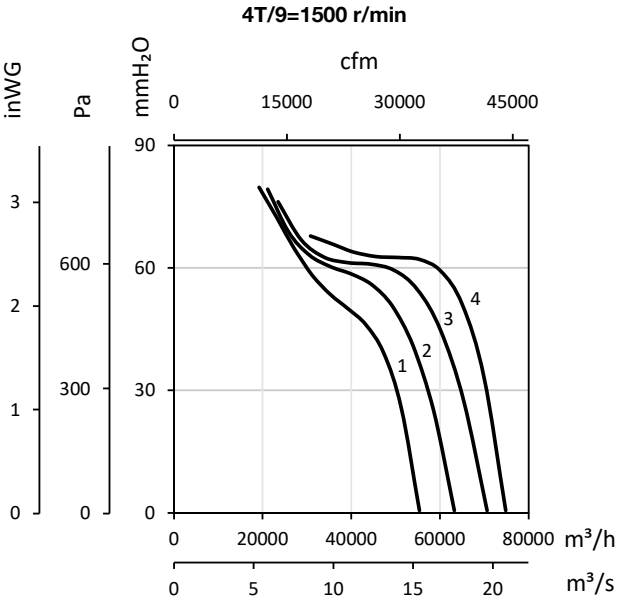
1 : 90-4T-4
2 : 90-4T-5.5

3 : 90-4T-7.5
4 : 90-4T-10



1 : 100-4T-7.5
2 : 100-4T-10

3 : 100-4T-15
4 : 100-4T-20



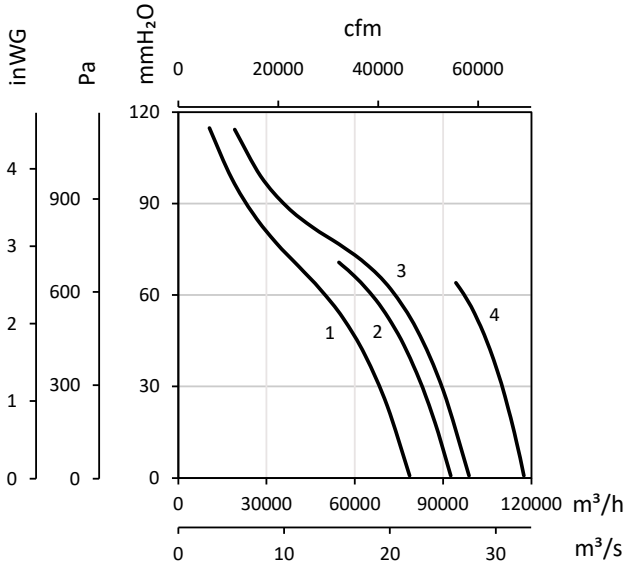
1 : 100-4T/9-15
2 : 100-4T/9-20

3 : 100-4T/9-25
4 : 100-4T/9-30

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

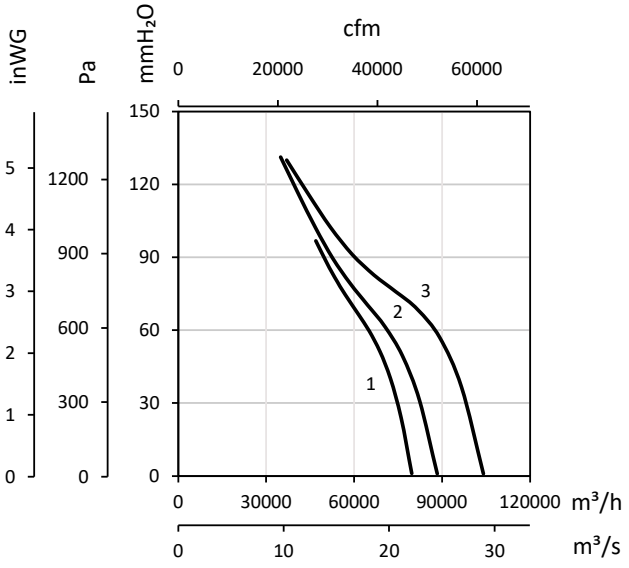
4T/6=1500 r/min



1 : 125-4T/6-20
2 : 125-4T/6-25

3 : 125-4T/6-30
4 : 125-4T/6-40

4T/9=1500 r/min



1 : 125-4T/9-25
2 : 125-4T/9-30

3 : 125-4T/9-40

Accessories