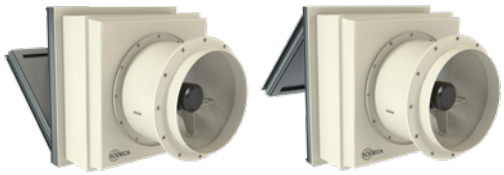
THT/WALL/IE5

Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 ºC/2h, and ultra-high efficiency IE5 motor



Wall-mounted dynamic extractors exhaust fans with motorized hatch and ultra-high efficiency IE5 motor, with option for connection to an extraction duct. Specially designed for fast and effective evacuation of smoke and toxic gases in the event of a fire. Suitable for installation in industrial buildings, commercial facilities, or any other type of construction. Can be used for ambient ventilation.

Fan:
- Helicoidal casing support and fixing flange to allow easy wall anchorage and installation.
- Approved in accordance with standard EN 12101-3, with certification no.: 2797 CPR 840443 (F400).
- Tubular casing in sheet steel with polyester resin anti-corrosive treatment.
- Variable angle impeller made of cast aluminium.
- Shielded power cable with EMC protection.
- Airflow direction from motor to impeller.

Extruded aluminum hatch:
- An extremely robust structure that is able to withstand severe weather changes.
- Designed to ensure watertightness.
- Aluminum profile with thermal bridge break.
- Central ceiling and structure equipped with high performance thermal insulation.
- Thermal resistance of the assembly less than 0.89 W/m²·K.
- Position indicators in both positions (open and closed).
- Upper and lower opening mounting versions.
- Manual opening system.
- Airborne acoustic insulation value according to UNE-EN ISO 10140-2: Rw = 27 (0;-2) dB.

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.

Actuator:
- Reliability greater than 20,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 ºC +60 ºC.
- Protection at the leading edge when closing the hatch.
- The stop in the closed position is regulated by an electronic limit switch.

Hatch finish:
- Anti-corrosive in extruded aluminum.
- RAL 7024M supplied as standard. Any other RAL can be supplied on demand.

On request:
- Actuator with 24 V DC supply voltage.

Order code

From size 40 to size 56

THT/WALL/IE5 — A/B — 56 — 4 T — 2 — F400

THT/WALL/IE5: Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 ºC/2h, and ultra-high efficiency IE5 motor	Hatch opening A/B = Installation in upper or lower opening	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 63 to size 125

THT/WALL/IE5 — A — 125 — 4 T / 6 — 30 — F400

THT/WALL/IE5: Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 ºC/2h, and ultra-high efficiency IE5 motor	Hatch opening A = Upper (bottom hinges) B = Lower (top hinges)	Impeller diameter in cm	Number of motor poles 4=1500 r/min 50 Hz	T = Three-phase	Number of blades: 6 blades 9 blades 12 blades	Motor power (HP)	F400: 400 ºC/2h approved

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Blade tilt angle	Maximum flow rate	Sound pressure level[1] dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(º)	(m^3/h)	Inlet	Exhaust	(Kg)
THT/WALL/IE5-40-2T-1.5	2985	3.79	2.18		1.10	20	7030	61	61	66
THT/WALL/IE5-45-2T-2	2990	4.99	2.87		1.50	16	9395	61	61	69
THT/WALL/IE5-45-2T-3	2990	7.11	4.09		2.20	22	11325	61	61	71
THT/WALL/IE5-56-4T-2	1495	5.34	3.07		1.50	36	15020	54	54	90
THT/WALL/IE5-63-4T-3	1495	7.65	4.40		2.20	32	22165	58	58	135
THT/WALL/IE5-63-4T-4	1495	10.23	5.88		3.00	38	24240	59	59	144
THT/WALL/IE5-71-4T-3	1495	7.65	4.40		2.20	22	25100	60	60	128
THT/WALL/IE5-71-4T-4	1495	10.23	5.88		3.00	28	27480	60	60	146
THT/WALL/IE5-71-4T-5.5	1495		7.78	4.51	4.00	38	32240	61	61	146
THT/WALL/IE5-80-4T-3	1495	7.65	4.40		2.20	12	25450	65	65	142
THT/WALL/IE5-80-4T-4	1495	10.23	5.88		3.00	16	30270	64	64	160
THT/WALL/IE5-80-4T-5.5	1495		7.78	4.51	4.00	18	32765	63	63	156
THT/WALL/IE5-80-4T-7.5	1495		10.60	6.14	5.50	26	39635	63	63	166
THT/WALL/IE5-90-4T-7.5	1495		10.60	6.14	5.50	18	46135	67	67	234
THT/WALL/IE5-90-4T-10	1495		14.20	8.23	7.50	22	50140	66	66	253
THT/WALL/IE5-90-4T-15	1495		20.20	11.70	11.00	30	59390	68	68	286
THT/WALL/IE5-100-4T-10	1495		14.20	8.23	7.50	16	57415	69	69	259
THT/WALL/IE5-100-4T-15	1495		20.20	11.70	11.00	22	66300	69	69	336
THT/WALL/IE5-100-4T-20	1495		27.10	15.70	15.00	28	76155	70	70	361
THT/WALL/IE5-125-4T/6-20	1495		27.10	15.70	15.00	10	78600	77	77	516
THT/WALL/IE5-125-4T/6-25	1495		33.00	19.10	18.50	14	92545	76	76	550
THT/WALL/IE5-125-4T/6-30	1495		39.10	22.70	22.00	16	98830	75	75	575
THT/WALL/IE5-125-4T/6-40	1495		53.10	29.50	30.00	22	117450	75	75	637
THT/WALL/IE5-125-4T/9-25	1495		33.00	19.10	18.50	10	79650	77	77	559
THT/WALL/IE5-125-4T/9-30	1495		39.10	22.70	22.00	12	88280	76	76	584
THT/WALL/IE5-125-4T/9-40	1495		53.10	29.50	30.00	16	104040	75	75	646
THT/WALL/IE5-125-4T/12-30	1495		39.10	22.70	22.00	10	62895	78	78	600
THT/WALL/IE5-125-4T/12-40	1495		53.10	29.50	30.00	14	79180	77	77	662

1 The noise level values are pressures in dB(A) measured at a distance of 10 metres in a free field.

Technical characteristics of the dynamic exhaust system based on standard EN 12101-3

Model	Approval	Motor insulation class	Durability	Temperature room temperature	Wind load
	(ºC)			(ºC)	((Pa))
THT/WALL/IE5	F400	Clase H	RE >20000	-25	WL 200

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
56-4-2	52	64	73	79	79	79	73	65
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70
71-4-3	56	72	79	85	85	85	81	73
71-4-4	63	75	79	85	85	86	83	75
71-4-5.5	64	76	80	86	86	87	84	76
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
80-4-7.5	53	69	82	89	89	86	80	72
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-4-15	60	76	87	93	94	92	87	79
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
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
125-4/12-30	68	82	95	103	105	102	97	89
125-4/12-40	67	81	94	102	104	101	96	88

Values measured at exhaust 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
56-4-2	52	64	73	79	79	79	73	65
63-4-3	56	68	77	83	83	83	77	69
63-4-4	57	69	78	84	84	84	78	70
71-4-3	56	72	79	85	85	85	81	73
71-4-4	63	75	79	85	85	86	83	75
71-4-5.5	64	76	80	86	86	87	84	76
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
80-4-7.5	53	69	82	89	89	86	80	72
90-4-7.5	59	75	86	92	93	91	86	78
90-4-10	58	74	85	91	92	90	85	77
90-4-15	60	76	87	93	94	92	87	79
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
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
125-4/12-30	68	82	95	103	105	102	97	89
125-4/12-40	67	81	94	102	104	101	96	88

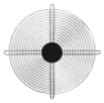
Accessories


INT


IAT


VSD3/A-RFT - VSD1/A-RFM


AET


RT


PV


BTUB


BAC

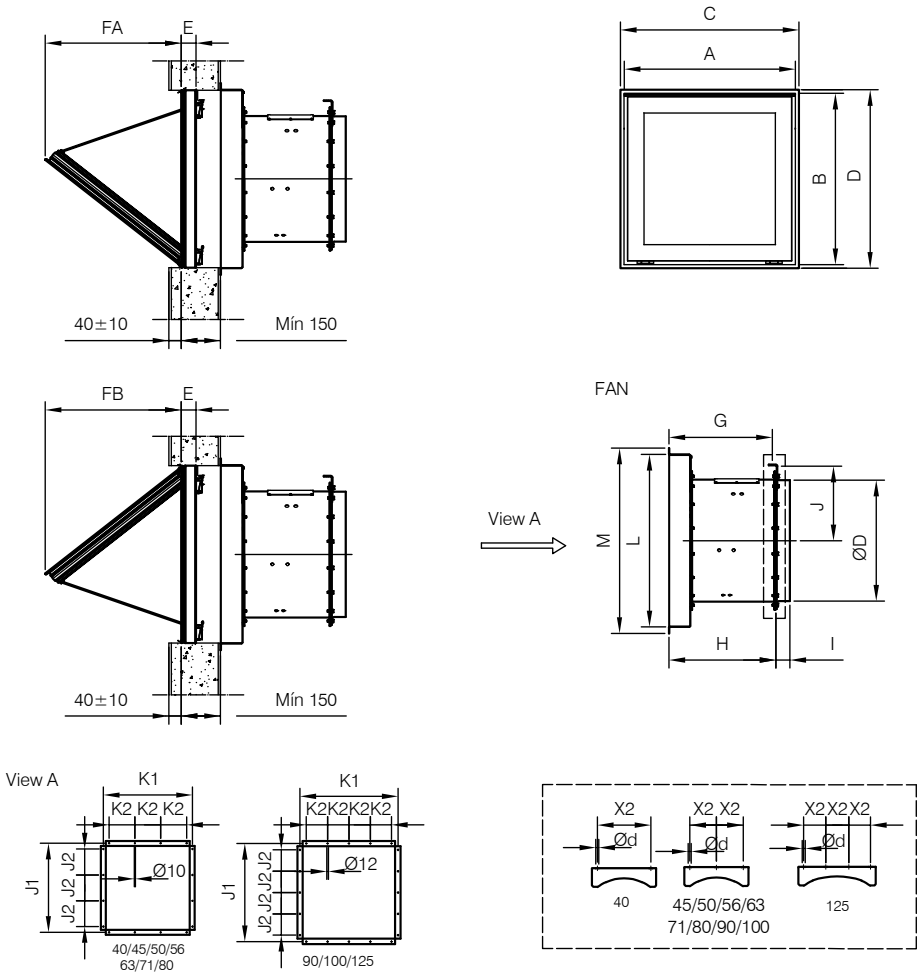

PS


ACE ACE/400


S

Dimensions mm

The hatch and the fan are independent elements and are not connected to each other.



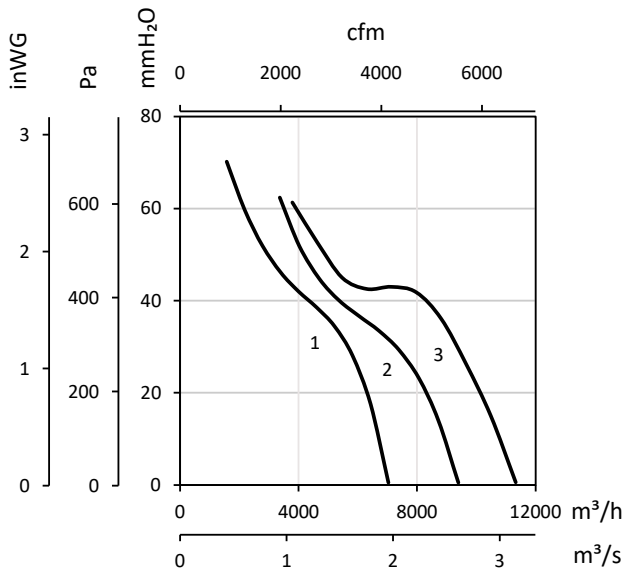
	A	B	C	D	ØD	E	FA	FB	G	H	I	J	J1	J2	K1	K2	L	M	X2	Ød
THT/WALL/IE5-40	640	590	650	600	400	82	460	460	510	530	80	255	740	200	740	200	650	765	200	10
THT/WALL/IE5-45	640	590	650	600	450	82	460	460	510	530	80	280	740	200	740	200	650	765	200	12
THT/WALL/IE5-56-2T	690	690	700	700	560	82	551	551	610	630	80	340	830	220	830	220	745	860	215	13
THT/WALL/IE5-56-4T	690	690	700	700	560	82	551	551	510	530	80	340	830	220	830	220	745	860	215	13
THT/WALL/IE5-63	990	990	1000	1000	630	82	875	875	605	630	80	385	1090	300	1090	300	1005	1120	215	13
THT/WALL/IE5-71	990	990	1000	1000	710	82	875	875	605	630	80	445	1090	300	1090	300	1005	1120	225	13
THT/WALL/IE5-80	990	990	1000	1000	800	82	875	875	605	630	100	490	1090	300	1090	300	1005	1120	280	13
THT/WALL/IE5-90	1190	1190	1200	1200	900	82	922	922	705	730	100	550	1310	250	1310	250	1198	1358	280	18
THT/WALL/IE5-90-4T-15	1190	1190	1200	1200	900	82	922	922	805	830	100	550	1310	250	1310	250	1198	1358	280	18
THT/WALL/IE5-100	1190	1190	1200	1200	1000	82	922	922	705	730	100	600	1310	250	1310	250	1198	1358	280	18
THT/WALL/IE5-100-4T-15	1190	1190	1200	1200	1000	82	922	922	805	830	100	600	1310	250	1310	250	1198	1358	280	18
THT/WALL/IE5-100-4T-20	1190	1190	1200	1200	1000	82	922	922	805	830	100	600	1310	250	1310	250	1198	1358	280	18
THT/WALL/IE5-125	1490	1490	1500	1500	1250	82	1176	955	1025	1050	100	725	1660	300	1660	300	1540	1704	300	18
THT/WALL/IE5-125-4T/6-20	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1540	1704	300	18

ØD: Recommended nominal tube diameter.
C x D: Nominal size of the wall opening.
FA is the opening when the hatch is upper opening.
FB is the opening when the hatch is lower opening.

Characteristic curves

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

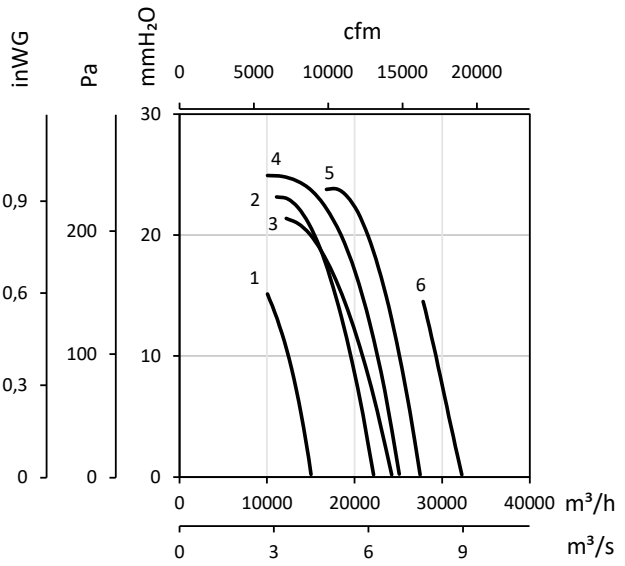
2T=3000 r/min



1 : THT/WALL/IE5-40-2T-1.5
2 : THT/WALL/IE5-45-2T-2

3 : THT/WALL/IE5-45-2T-3

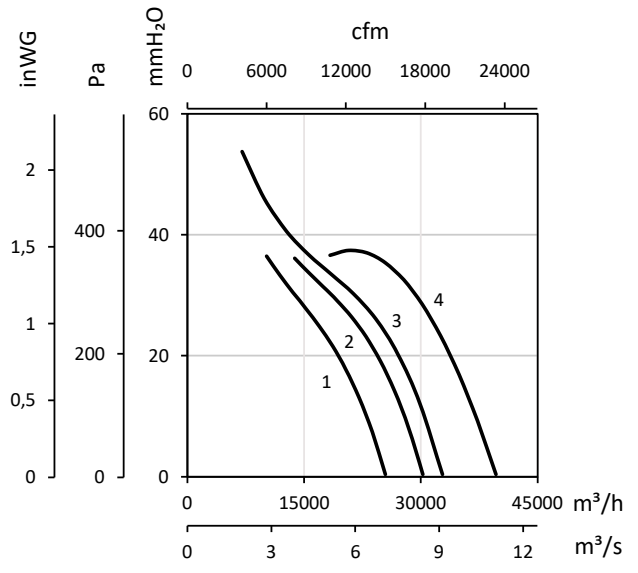
4T=3000 r/min



1 : THT/WALL/IE5-56-4T-2
2 : THT/WALL/IE5-63-4T-3
3 : THT/WALL/IE5-63-4T-4

4 : THT/WALL/IE5-71-4T-3
5 : THT/WALL/IE5-71-4T-4
6 : THT/WALL/IE5-71-4T-5.5

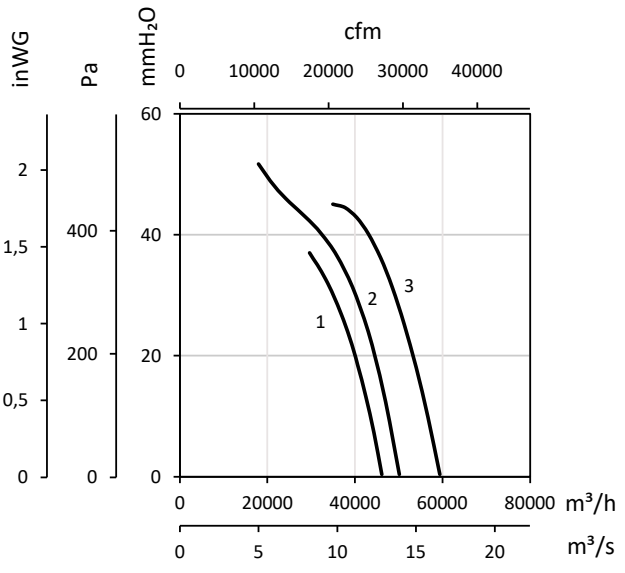
4T=1500 r/min



1 : THT/WALL/IE5-80-4T-3
2 : THT/WALL/IE5-80-4T-4

3 : THT/WALL/IE5-80-4T-5.5
4 : THT/WALL/IE5-80-4T-7.5

4T=1500 r/min



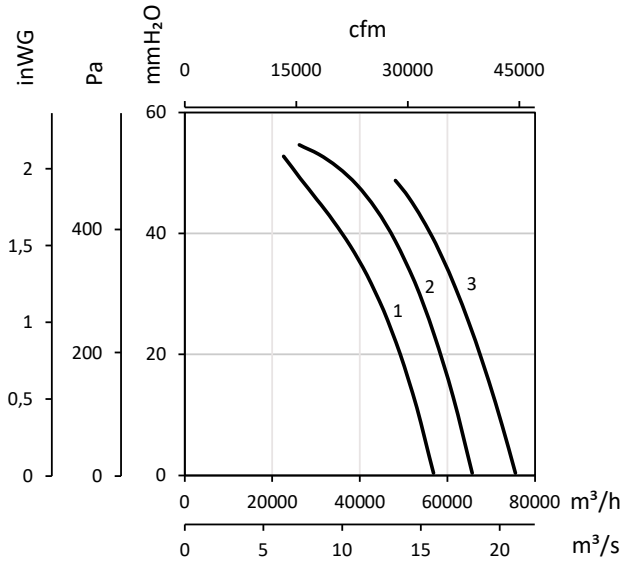
1 : THT/WALL/IE5-90-4T-7.5
2 : THT/WALL/IE5-90-4T-10

3 : THT/WALL/IE5-90-4T-15

Characteristic curves

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

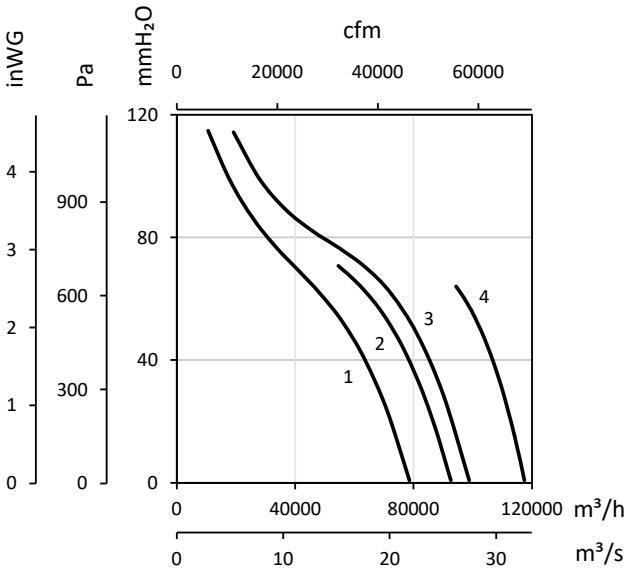
4T=1500 r/min



1 : THT/WALL/IE5-100-4T-10
2 : THT/WALL/IE5-100-4T-15

3 : THT/WALL/IE5-100-4T-20

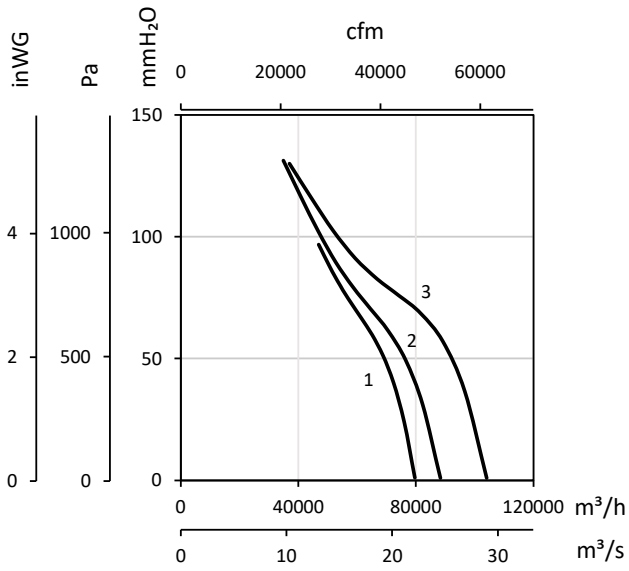
4T/6=1500 r/min



1 : THT/WALL/IE5-125-4T/6-20
2 : THT/WALL/IE5-125-4T/6-25

3 : THT/WALL/IE5-125-4T/6-30
4 : THT/WALL/IE5-125-4T/6-40

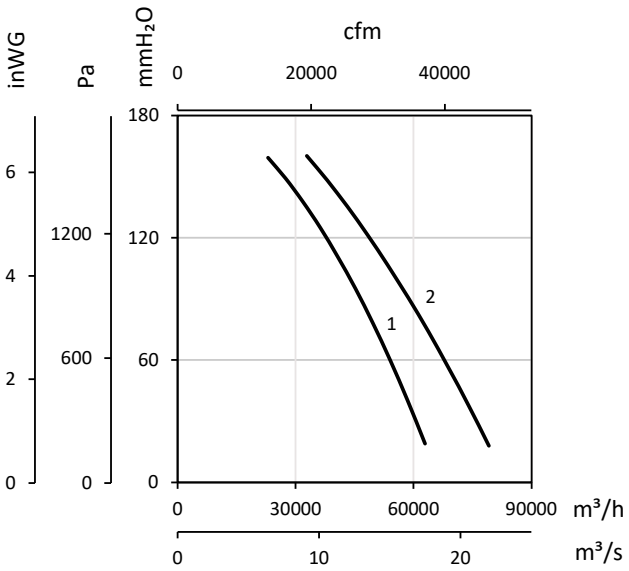
4T/9=1500 r/min



1 : THT/WALL/IE5-125-4T/9-25
2 : THT/WALL/IE5-125-4T/9-30

3 : THT/WALL/IE5-125-4T/9-40

4T=1500 r/min



1 : THT/WALL/IE5-125-4T/12-30
2 : THT/WALL/IE5-125-4T/12-40