

THT/WALL/IE5

Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 °C/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.
- Certified according to EN 12101-3, F400 classification.
- 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 °C to +40 °C continuously, also suitable for hot climates up to 50 °C. Service S2 400 °C/2h.

Actuator:

- Reliability greater than 20,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.
- Working temperature: -25 °C +60 °C.
- 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 7016 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	4T	2	F400
THT/WALL/IE5: Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 °C/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 °C/2h approved

From size 63 to size 125

THT/WALL/IE5 – A – 125 – 4T / 6 – 30 – F400							
↓	↓	↓	↓	↓	↓	↓	↓
THT/WALL/IE5: Wall-mounted dynamic exhaust fans with motorized hatch, for smoke extraction, 400 °C/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 °C/2h approved

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Blade tilt angle (°)	Maximum flow rate (m³/h)	Sound pressure level¹ dB (A)		Approx. weight (Kg)
		230V	400V	690V				Inlet	Exhaust	
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
	(°C)			(°C)	(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 $L_w(A)$ 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



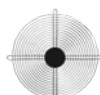
CABLE BOX



VSD3/A-RFT
- VSD1/A-RFM



AET



RT



PV



BTUB



BAC



PS



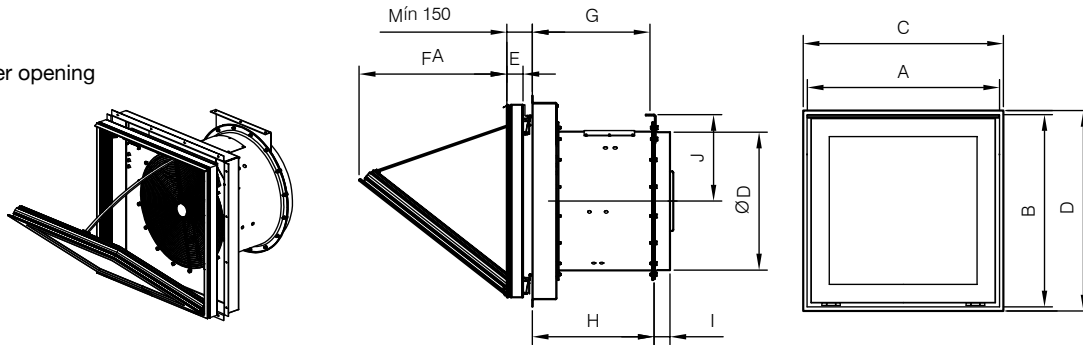
ACE ACE/400



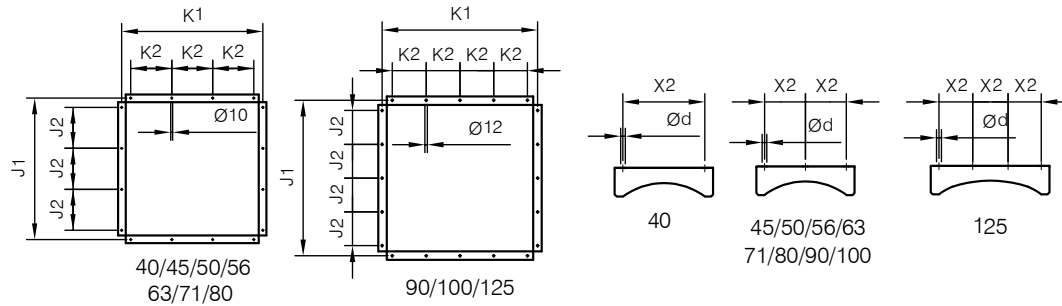
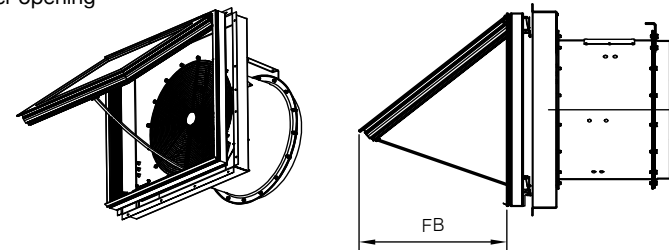
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Dimensions mm

A = Upper opening



B = Lower opening



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

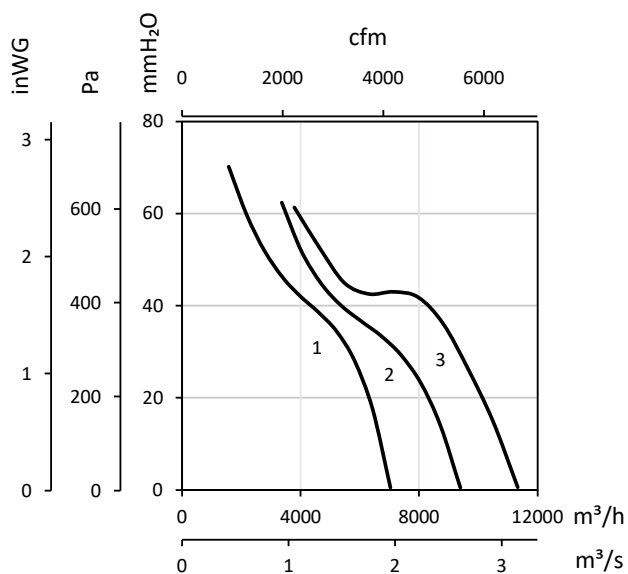
* Recommended nominal tube diameter.
(C x D) Nominal size of the wall opening.
FA is the opening when the hatch is upper opening.
FB is the opening when the hatch is lower opening.

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

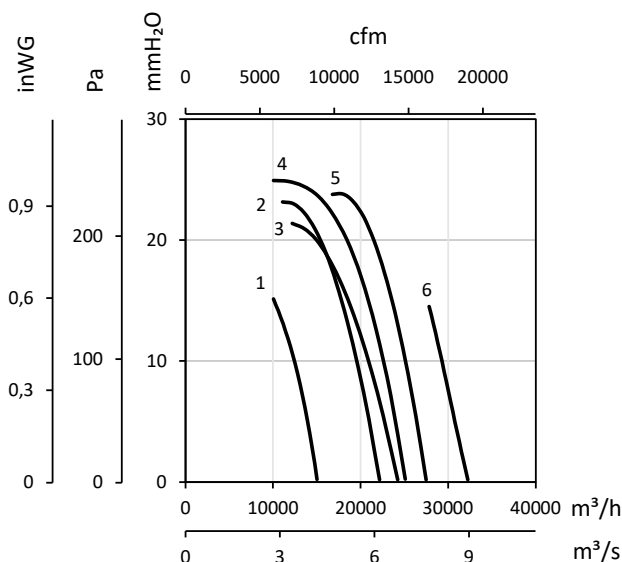
2T=3000 r/min



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

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

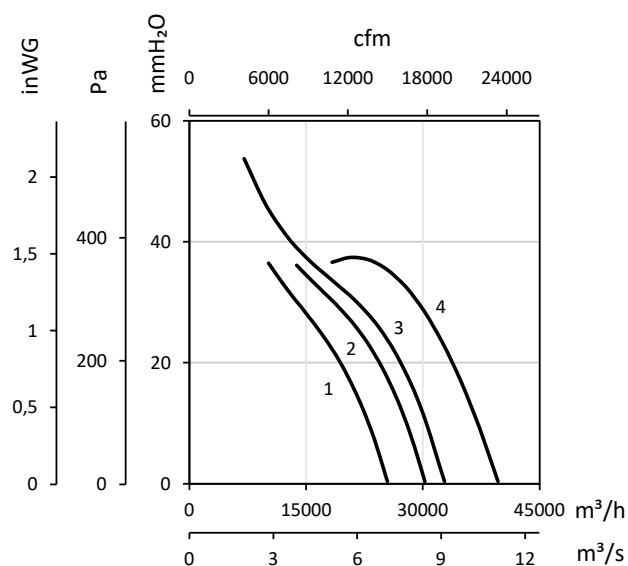
4T=3000 r/min



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

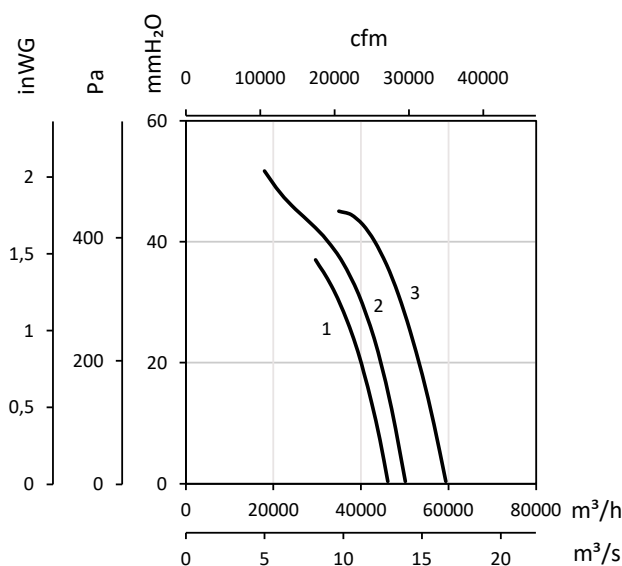
4T=1500 r/min



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 H₂O, Pa and inwg

