WALL/FREE

Dynamic wall mount extractor fans fitted with motorised hatch

Dynamic wall extractor fans with motorised opening system and protective grating for use without extract duct. Suitable for installation in industrial buildings, stores or in any other type of building.

Fan:
- Wall fixing flange for correct and easy installation.
- Support frame in galvanised sheet steel.
- Variable angle impeller made of cast aluminium.
- Airflow direction from motor to impeller.
- Protection grid against contacts according to UNE-EN ISO 12499.

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 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.
- IE3 efficiency motors.
- 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 ºC +50 ºC.

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 7016 supplied as standard. Any other RAL can be supplied on demand.

On request:
- AA: impeller-motor air direction for air entry to premises.
- Actuator with 24 V DC supply voltage.

Order code

From size 40 to size 56

WALL/FREE	–	A/B	–	56	–	4T	–	2
WALL/FREE: Dynamic wall mount extractor fans fitted with motorised hatch		Hatch opening A/B = Installation in upper or lower opening		Impeller diameter in cm		Number of motor poles 4=1500 r/min 50 Hz 6=1000 r/min 50 Hz	T = Three-phase	Motor power (HP)

From size 63 to size 100

WALL/FREE	–	A	–	63	–	4T	–	3
WALL/FREE: Dynamic wall mount extractor fans fitted with motorised hatch		Hatch opening A = Upper (bottom hinges) B = Lower (top hinges)		Impeller diameter in cm		Number of motor poles 4=1500 r/min 50 Hz 6=1000 r/min 50 Hz	T = Three-phase	Motor power (HP)

Erp. (Energy Related Products)

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

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure level[1] dB (A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	Inlet	Exhaust	(Kg)
WALL/FREE-40-2T-1.5 IE3	2830	4.03	2.34		1.10	8805	64	64	55
WALL/FREE-45-2T-2 IE3	2875	5.34	3.07		1.50	10630	67	67	63
WALL/FREE-45-2T-3 IE3	2910	7.32	4.21		2.20	12745	69	69	67
WALL/FREE-56-4T-2 IE3	1440	5.41	3.11		1.50	15290	58	58	69
WALL/FREE-63-4T-3 IE3	1435	7.93	4.56		2.20	22090	61	61	97
WALL/FREE-63-4T-4 IE3	1440	10.70	6.15		3.00	25390	62	62	103
WALL/FREE-71-4T-3 IE3	1435	7.93	4.56		2.20	23970	66	66	100
WALL/FREE-71-4T-4 IE3	1440	10.70	6.15		3.00	29410	67	67	106
WALL/FREE-71-6T-1.5 IE3	945	4.68	2.69		1.10	20965	54	54	98
WALL/FREE-80-4T-3 IE3	1435	7.93	4.56		2.20	27940	67	67	114
WALL/FREE-80-4T-4 IE3	1440	10.70	6.15		3.00	32720	68	68	120
WALL/FREE-80-4T-5.5 IE3	1450	13.90	8.00		4.00	37440	69	69	122
WALL/FREE-80-6T-1.5 IE3	945	4.68	2.69		1.10	24650	57	57	112
WALL/FREE-80-6T-2 IE3	950	6.43	3.70		1.50	27960	58	58	116
WALL/FREE-90-4T-7.5 IE3	1465		10.30	5.97	5.50	47550	77	77	183
WALL/FREE-90-4T-10 IE3	1465		13.90	8.06	7.50	53120	78	78	187
WALL/FREE-90-6T-3 IE3	950	9.08	5.22		2.20	35555	64	64	145
WALL/FREE-90-6T-4 IE3	970	12.00	6.91		3.00	40165	65	65	165
WALL/FREE-100-4T-10 IE3	1465		13.90	8.06	7.50	58560	81	81	194
WALL/FREE-100-4T-15 IE3	1470		20.90	12.10	11.00	68000	82	82	226
WALL/FREE-100-4T-20 IE3	1465		27.90	16.20	15.00	71850	83	83	237
WALL/FREE-100-6T-5.5 IE3	960	15.6	8.99		4.00	52025	72	72	178

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

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

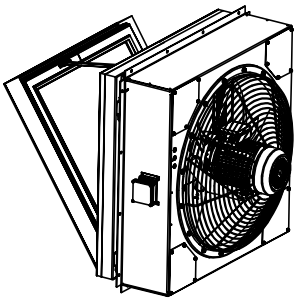
	63	125	250	500	1000	2000	4000	8000
40-2T-1.5	55	70	89	88	89	88	83	74
45-2T-2	51	68	80	88	93	93	89	82
45-2T-3	53	70	82	90	95	95	91	84
56-4T-2	50	70	78	83	85	82	75	64
63-4T-3	53	73	81	86	88	85	78	67
63-4T-4	54	74	82	87	89	86	79	68
71-4T-3	58	78	86	91	93	90	83	72
71-4T-4	59	79	87	92	94	91	84	73
71-6T-1.5	46	66	74	79	81	78	71	60
80-4T-3	59	79	87	92	94	91	84	73
80-4T-4	60	80	88	93	95	92	85	74
80-4T-5.5	61	81	89	94	96	93	86	75
80-6T-1.5	49	69	77	82	84	81	74	63
80-6T-2	50	70	78	83	85	82	75	64
90-4T-7.5	69	90	97	102	105	101	94	83
90-4T-10	70	91	98	103	106	102	95	84
90-6T-3	56	77	84	89	92	88	81	70
90-6T-4	57	78	85	90	93	89	82	71
100-4T-10	73	93	101	106	108	105	98	87
100-4T-15	74	94	102	107	109	106	99	88
100-4T-20	75	95	103	108	110	107	100	89
100-6T-5.5	64	84	92	97	99	96	89	78

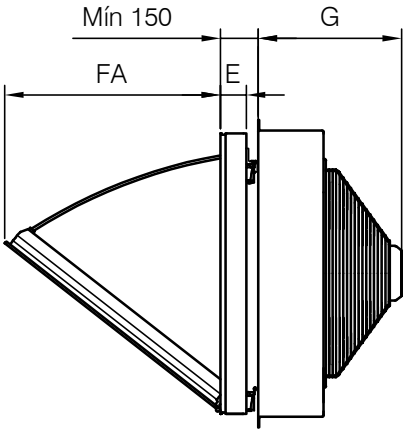
Values measured at exhaust with maximum flow rate

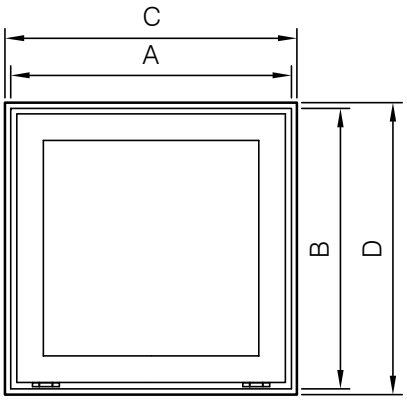
	63	125	250	500	1000	2000	4000	8000
40-2T-1.5	55	70	89	88	89	88	83	74
45-2T-2	58	73	92	91	92	91	86	77
45-2T-3	60	75	94	93	94	93	88	79
56-4T-2	50	70	78	83	85	82	75	64
63-4T-3	53	73	81	86	88	85	78	67
63-4T-4	54	74	82	87	89	86	79	68
71-4T-3	58	78	86	91	93	90	83	72
71-4T-4	59	79	87	92	94	91	84	73
71-6T-1.5	46	66	74	79	81	78	71	60
80-4T-3	59	79	87	92	94	91	84	73
80-4T-4	60	80	88	93	95	92	85	74
80-4T-5.5	61	81	89	94	96	93	86	75
80-6T-1.5	49	69	77	82	84	81	74	63
80-6T-2	50	70	78	83	85	82	75	64
90-4T-7.5	69	90	97	102	105	101	94	83
90-4T-10	70	91	98	103	106	102	95	84
90-6T-3	56	77	84	89	92	88	81	70
90-6T-4	57	78	85	90	93	89	82	71
100-4T-10	73	93	101	106	108	105	98	87
100-4T-15	74	94	102	107	109	106	99	88
100-4T-20	75	95	103	108	110	107	100	89
100-6T-5.5	64	84	92	97	99	96	89	78

Dimensions mm

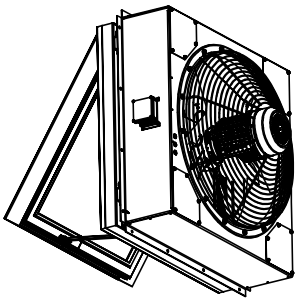
A = Upper opening

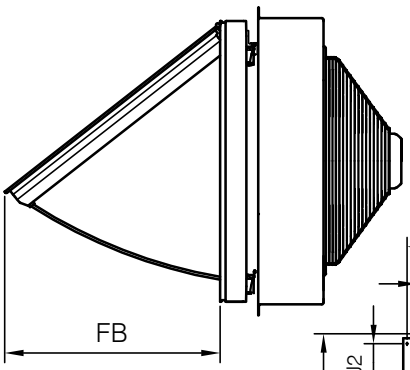


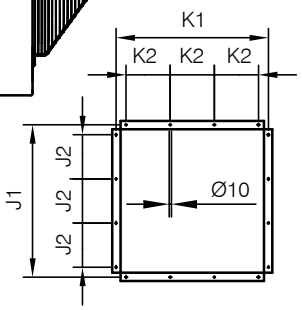




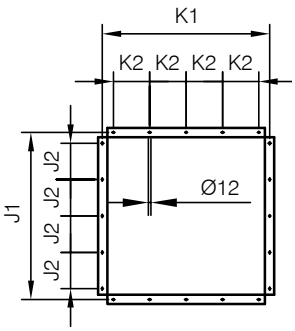
B = Lower opening







40 / 45 / 56 / 63 / 71 / 80



90 / 100

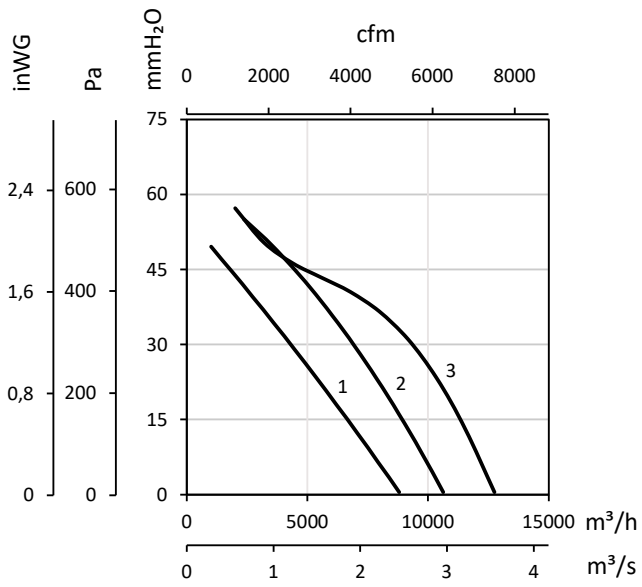
	A	B	C	D	E	FA	FB	G	J1	J2	K1	K2
WALL/FREE-40	640	590	650	600	82	460	460	375	740	200	740	200
WALL/FREE-45	640	590	650	600	82	460	460	400	740	200	740	200
WALL/FREE-56	690	690	700	700	82	551	551	415	830	220	830	220

(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

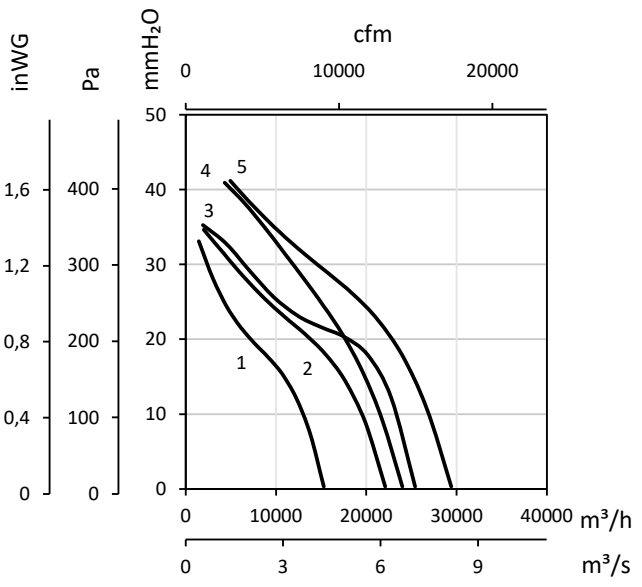
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

2T=3000 r/min



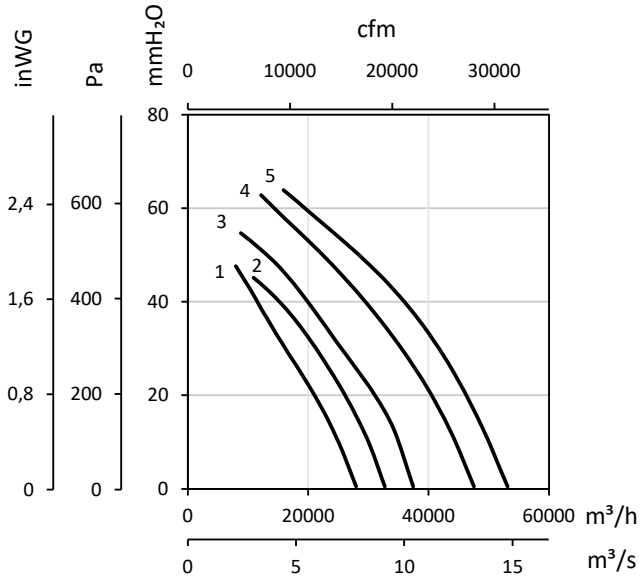
1 : WALL/FREE-40-2T-1.5
2 : WALL/FREE-45-2T-2
3 : WALL/FREE-45-2T-3

4T=1500 r/min



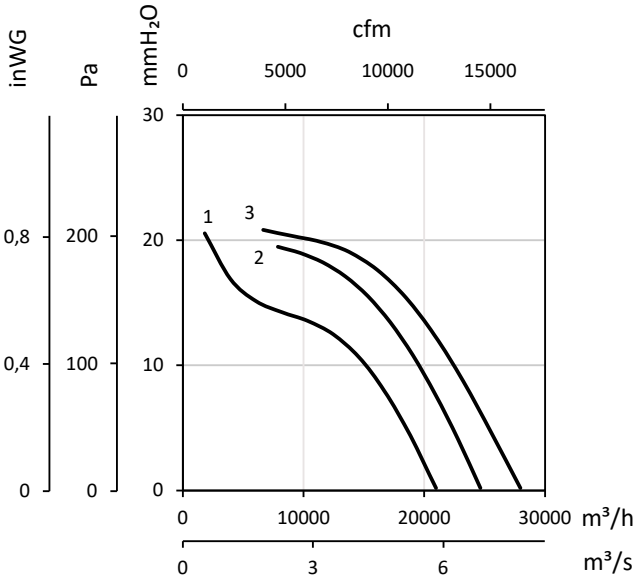
1 : WALL/FREE-56-4T-2
2 : WALL/FREE-63-4T-3
3 : WALL/FREE-63-4T-4
4 : WALL/FREE-71-4T-3

4T=1500 r/min



1 : WALL/FREE-80-4T-3
2 : WALL/FREE-80-4T-4
3 : WALL/FREE-80-4T-5.5
4 : WALL/FREE-90-4T-7.5
5 : WALL/FREE-90-4T-10

6T=1000 r/min

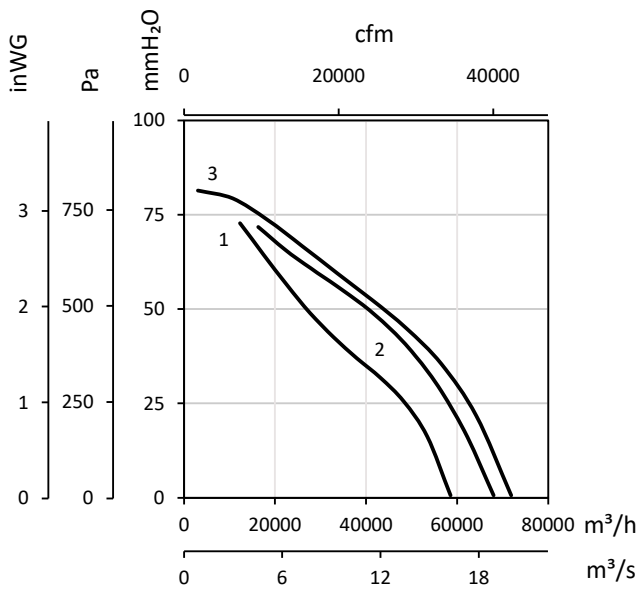


1 : WALL/FREE-71-6T-1.5
2 : WALL/FREE-80-6T-1.5
3 : WALL/FREE-80-6T-2

Characteristic curves

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

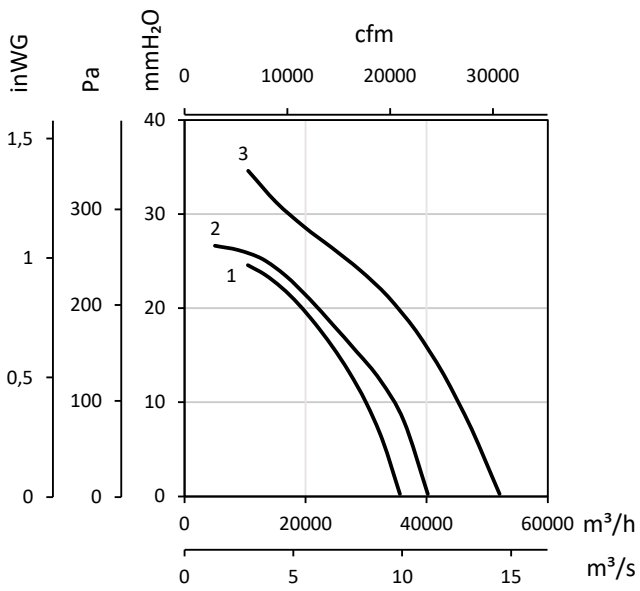
4T=1500 r/min



1 : WALL/FREE-100-4T-10
2 : WALL/FREE-100-4T-15

3 : WALL/FREE-100-4T-20

6T=3000 r/min



1 : WALL/FREE-90-6T-3
2 : WALL/FREE-90-6T-4

3 : WALL/FREE-100-6T-5.5

Accessories


INT


CABLE BOX


VSD3/A-RFT
- VSD1/A-RFM


AET


RI