

# 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/m<sup>2</sup>·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 °C +50 °C.

**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:**

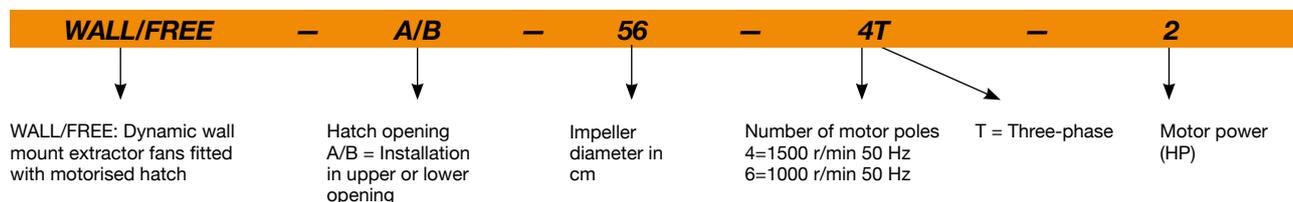
- Anti-corrosive in extruded aluminum.
- RAL 7024M supplied as standard. Any other RAL can be supplied on demand.

**On request:**

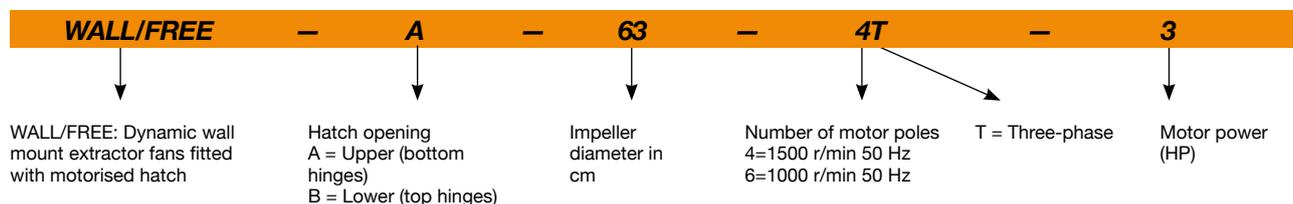
- AA: impeller-motor air direction for air entry to premises.
- Actuator with 24 V DC supply voltage.

## Order code

From size 40 to size 56



From size 63 to size 100





## 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 (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m <sup>3</sup> /h)	Sound pressure level <sup>1</sup> dB (A)		Approx. weight (Kg)
		230V	400V	690V			Inlet	Exhaust	
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

<sup>1</sup> 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 L<sub>w</sub>(A) in dB(A) per Hz frequency band

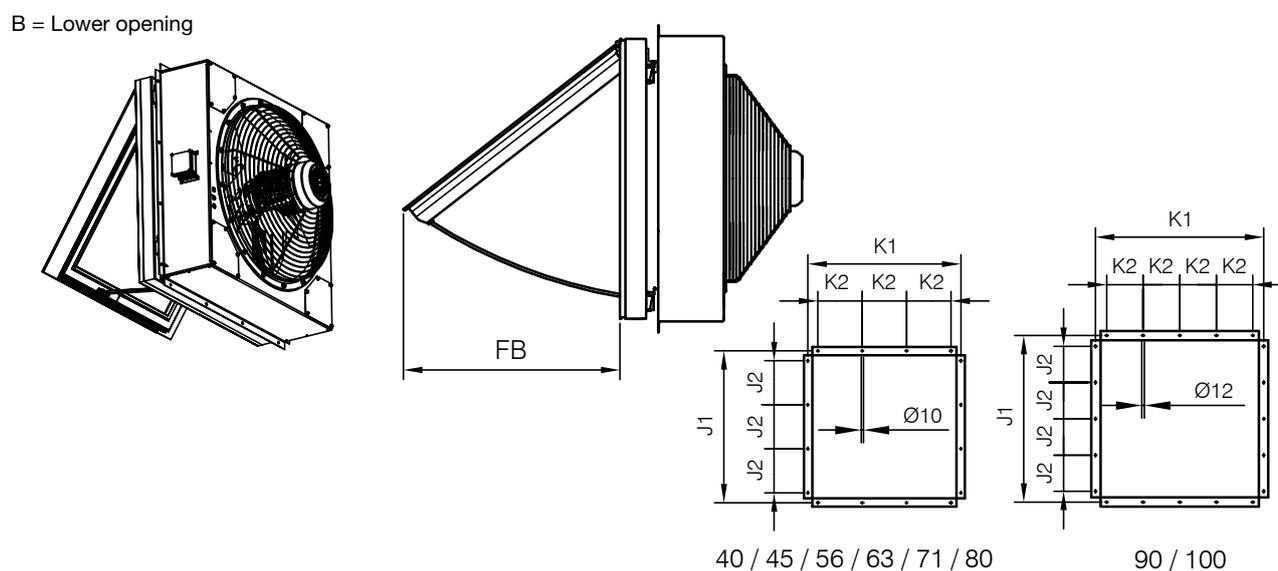
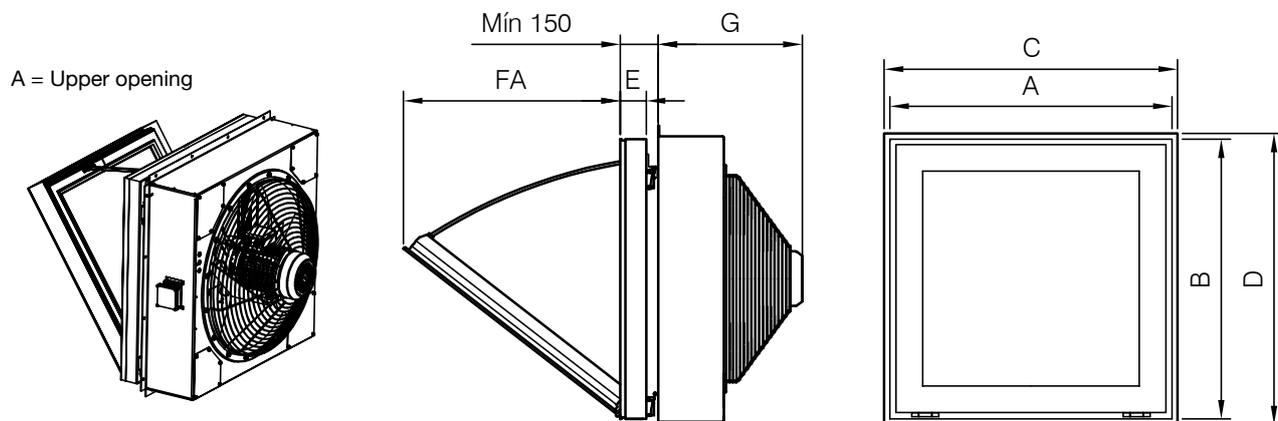
Values measured at inlet with maximum flow rate

	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



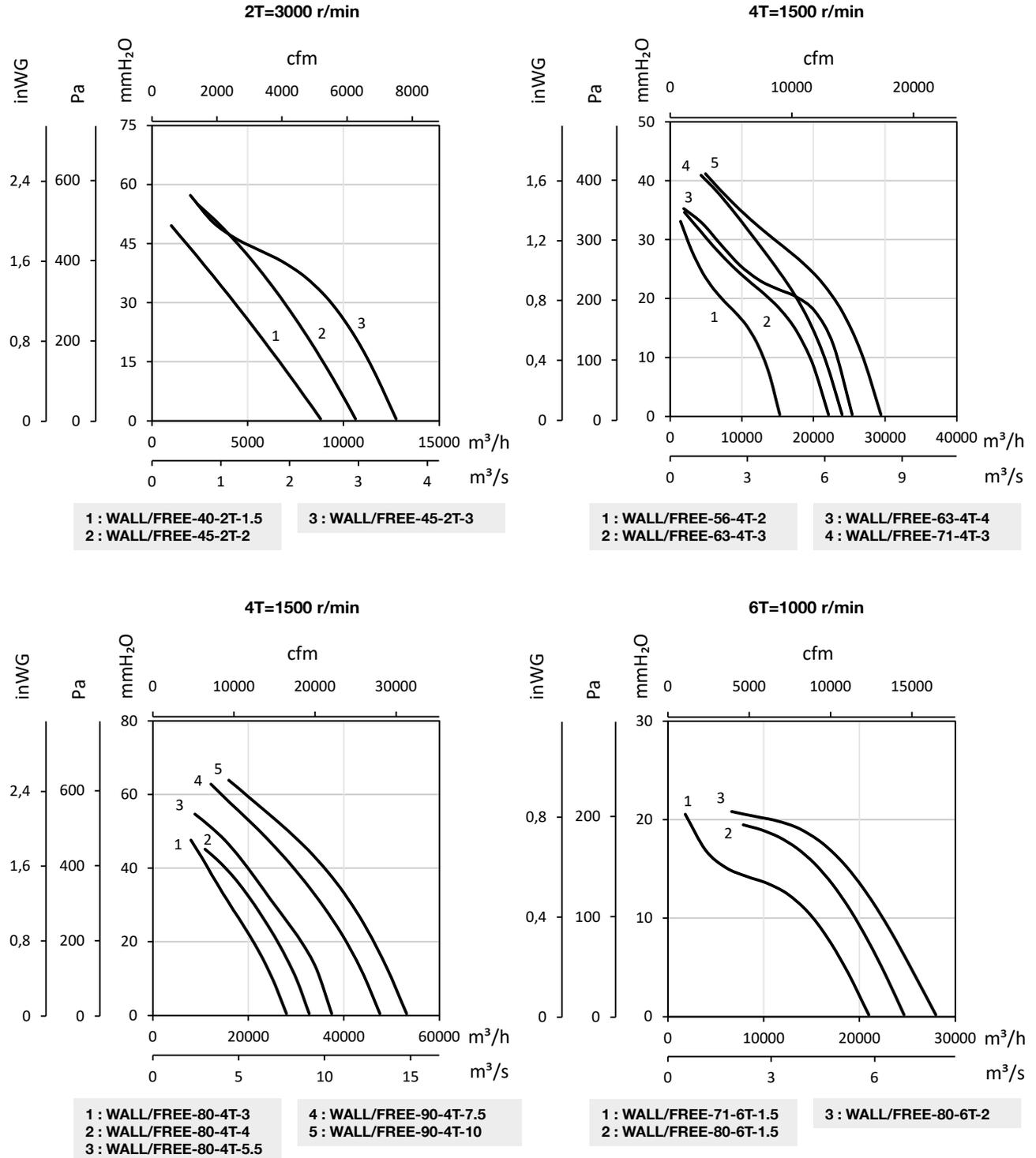
	A	B	C	D	E	FA	FB	G	J1	J2	K1	K2
WALL/FREE-40	640	590	650	600	82	460	460	375	740	200	740	200
WALL/FREE-45	640	590	650	600	82	460	460	400	740	200	740	200
WALL/FREE-56	690	690	700	700	82	551	551	415	830	220	830	220
WALL/FREE-63	990	990	1000	1000	82	875	875	475	1090	300	1090	300
WALL/FREE-71	990	990	1000	1000	82	875	875	500	1090	300	1090	300
WALL/FREE-80	990	990	1000	1000	82	875	875	500	1090	300	1090	300
WALL/FREE-90	1190	1190	1200	1200	82	922	922	525	1310	250	1310	250
WALL/FREE-100	1190	1190	1200	1200	82	922	922	550	1310	250	1310	250

(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 m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

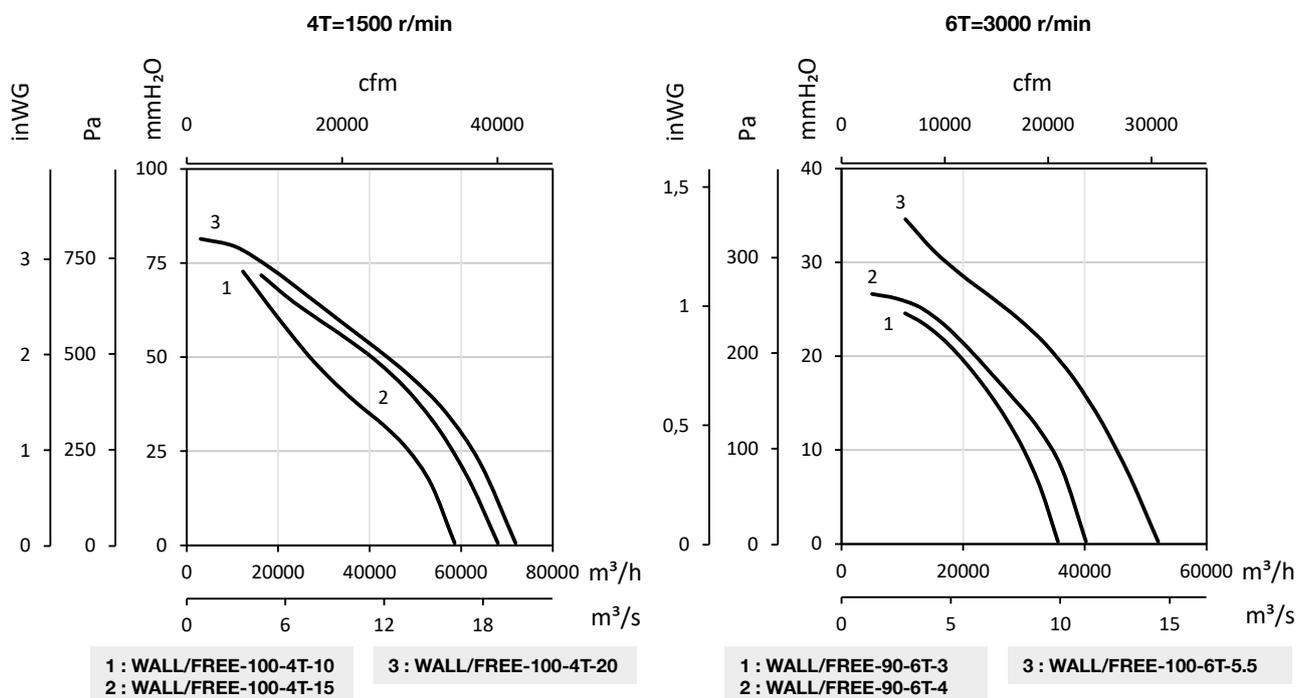
Pe= Static pressure in mm H<sub>2</sub>O, Pa and inWG



## Characteristic curves

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

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



## Accessories



INT



CABLE BOX



VSD3/A-RFT  
- VSD1/A-RFM



AET



RI