

THT/WALL

Dynamic wall mounted extractor fans with motorised hatch, for smoke exhaust in case of fires, 400 °C/2h and 300 °C/2h



Dynamic wall-mount extractor fans with motorised opening system for connection to extract duct. Specially designed for the fast, effective exhaust of harmful smoke and gases in the event of fire. Suitable for installation in industrial buildings, stores or in any other type of building. 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, F300).
- 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: $R_w = 27$ (0;-2) dB.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- IE3 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 temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 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 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	—	A/B	—	56	—	4	T	—	2	—	F400
THT/WALL: Dynamic wall mounted extractor fans with motorised hatch, for smoke exhaust in case of fires, 400 °C/2h and 300 °C/2h		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 6=1000 r/min 50 Hz	T = Three-phase		Motor power (HP)		F300: 300 °C/2h approved F400: 400 °C/2h approved

From size 63 to size 125

THT/WALL	—	A	—	125	—	4	T /	6	—	30	—	F400
THT/WALL: Dynamic wall mounted extractor fans with motorised hatch, for smoke exhaust in case of fires, 400 °C/2h and 300 °C/2h		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	Number of blades: 6 blades 9 blades 12 blades		Motor power (HP)		F300: 300 °C/2h approved 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-40-2T-1 IE3	2850	2.76	1.59		0.75	16	6100	62	62	62
THT/WALL-40-2T-1.5 IE3	2880	3.93	2.26		1.10	20	7040	61	61	63
THT/WALL-45-2T-2 IE3	2880	4.91	2.84		1.50	16	9400	61	61	67
THT/WALL-45-2T-3 IE3	2840	7.14	4.13		2.20	22	11325	61	61	68
THT/WALL-50-2T-4 IE3	2880	9.61	5.52		3.00	16	13860	66	66	84
THT/WALL-50-2T-5.5 IE3	2870		7.20	4.17	4.00	20	15900	66	66	100
THT/WALL-56-2T-5.5 IE3	2870		7.20	4.17	4.00	16	18820	68	68	105
THT/WALL-56-2T-7.5 IE3	2910		10.10	5.80	5.50	22	22510	68	68	107
THT/WALL-56-4T-2 IE3	1440	5.89	3.38		1.50	36	15020	54	54	84
THT/WALL-63-4T-3 IE3	1425	7.86	4.52		2.20	32	22170	58	58	131
THT/WALL-63-4T-4 IE3	1430	11.01	6.33		3.00	38	24240	59	59	132
THT/WALL-63-6T-1 IE3	940	3.36	1.93		0.75	38	15890	48	48	121
THT/WALL-71-4T-3 IE3	1425	7.86	4.52		2.20	22	25100	60	60	124
THT/WALL-71-4T-4 IE3	1430	11.01	6.33		3.00	28	27480	60	60	133
THT/WALL-71-4T-5.5 IE3	1440		7.95	4.61	4.00	38	32250	61	61	143
THT/WALL-71-6T-1.5 IE3	945	4.73	2.72		1.10	34	19930	51	51	123
THT/WALL-80-4T-3 IE3	1425	7.86	4.52		2.20	12	25460	65	65	138
THT/WALL-80-4T-4 IE3	1430	11.01	6.33		3.00	16	30270	64	64	147
THT/WALL-80-4T-5.5 IE3	1440		7.95	4.61	4.00	18	32770	63	63	153
THT/WALL-80-4T-7.5 IE3	1460		10.40	6.04	5.50	26	39640	63	63	154
THT/WALL-80-6T-1.5 IE3	945	4.73	2.72		1.10	18	21470	53	53	137
THT/WALL-80-6T-2 IE3	945	6.25	3.62		1.50	26	25970	54	54	146
THT/WALL-90-4T-7.5 IE3	1460		10.40	6.04	5.50	18	46140	67	67	222
THT/WALL-90-4T-10 IE3	1460		14.20	8.17	7.50	22	50140	66	66	233
THT/WALL-90-4T-15 IE3	1460		20.70	11.99	11.00	30	59390	68	68	242
THT/WALL-90-6T-3 IE3	950	9.78	5.62		2.20	24	34000	56	56	195
THT/WALL-90-6T-4 IE3	970	12.80	6.36		3.00	30	38910	59	59	221
THT/WALL-100-4T-10 IE3	1460		14.20	8.17	7.50	16	57420	69	69	239
THT/WALL-100-4T-15 IE3	1460		20.70	11.99	11.00	22	66300	69	69	292
THT/WALL-100-4T-20 IE3	1460		27.80	16.03	15.00	28	76160	70	70	307
THT/WALL-100-6T-5.5 IE3	970		8.37	4.82	4.00	26	47780	60	60	239
THT/WALL-100-6T-7.5 IE3	970		12.30	7.07	5.50	32	53520	62	62	276
THT/WALL-125-4T/6-20 IE3	1460		27.80	16.03	15.00	10	78600	77	77	462
THT/WALL-125-4T/6-25 IE3	1465		35.40	20.39	18.50	14	92550	76	76	530
THT/WALL-125-4T/6-30 IE3	1470		42.20	24.44	22.00	16	98830	75	75	544
THT/WALL-125-4T/6-40 IE3	1475		53.30	31.02	30.00	22	117450	75	75	625
THT/WALL-125-4T/6-50 IE3	1480		66.40	38.26	37.00	26	131050	75	75	673
THT/WALL-125-4T/9-25 IE3	1465		35.40	20.39	18.50	10	79650	77	77	539
THT/WALL-125-4T/9-30 IE3	1470		42.20	24.44	22.00	12	88290	76	76	553
THT/WALL-125-4T/9-40 IE3	1475		53.30	31.02	30.00	16	104040	75	75	634
THT/WALL-125-4T/9-50 IE3	1480		66.40	38.26	37.00	20	118400	75	75	682
THT/WALL-125-4T/12-30 IE3	1475		42.20	24.44	22.00	10	62900	78	78	569
THT/WALL-125-4T/12-40 IE3	1470		53.30	31.02	30.00	14	79180	77	77	650
THT/WALL-125-4T/12-50 IE3	1480		66.40	38.26	37.00	18	95715	76	76	693
THT/WALL-125-6T/6-5.5 IE3	970		8.37	4.82	4.00	10	51500	67	67	395
THT/WALL-125-6T/6-7.5 IE3	970		12.30	7.07	5.50	14	60640	65	65	402
THT/WALL-125-6T/6-10 IE3	960		15.20	8.83	7.50	20	72650	64	64	427
THT/WALL-125-6T/6-15 IE3	955		22.50	13.07	11.00	26	85850	64	64	457
THT/WALL-125-6T/6-20 IE3	950		29.00	16.78	15.00	30	92850	66	66	530
THT/WALL-125-6T/9-10 IE3	960		15.20	8.83	7.50	14	63490	67	67	436
THT/WALL-125-6T/9-15 IE3	955		22.50	13.07	11.00	20	77550	65	65	466
THT/WALL-125-6T/9-20 IE3	950		29.00	16.78	15.00	26	92950	65	65	539
THT/WALL-125-6T/9-25 IE3	975		36.10	20.77	18.50	32	96500	67	67	569
THT/WALL-125-6T/12-25 IE3	975		36.10	20.77	18.50	28	91680	67	67	579
THT/WALL-125-6T/12-30 IE3	975		42.30	24.35	22.00	32	102050	68	68	621
THT/WALL-125-6T/12-40 IE3	980		56.00	32.50	30.00	38	115950	72	72	739

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	F300 and F400	Class 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

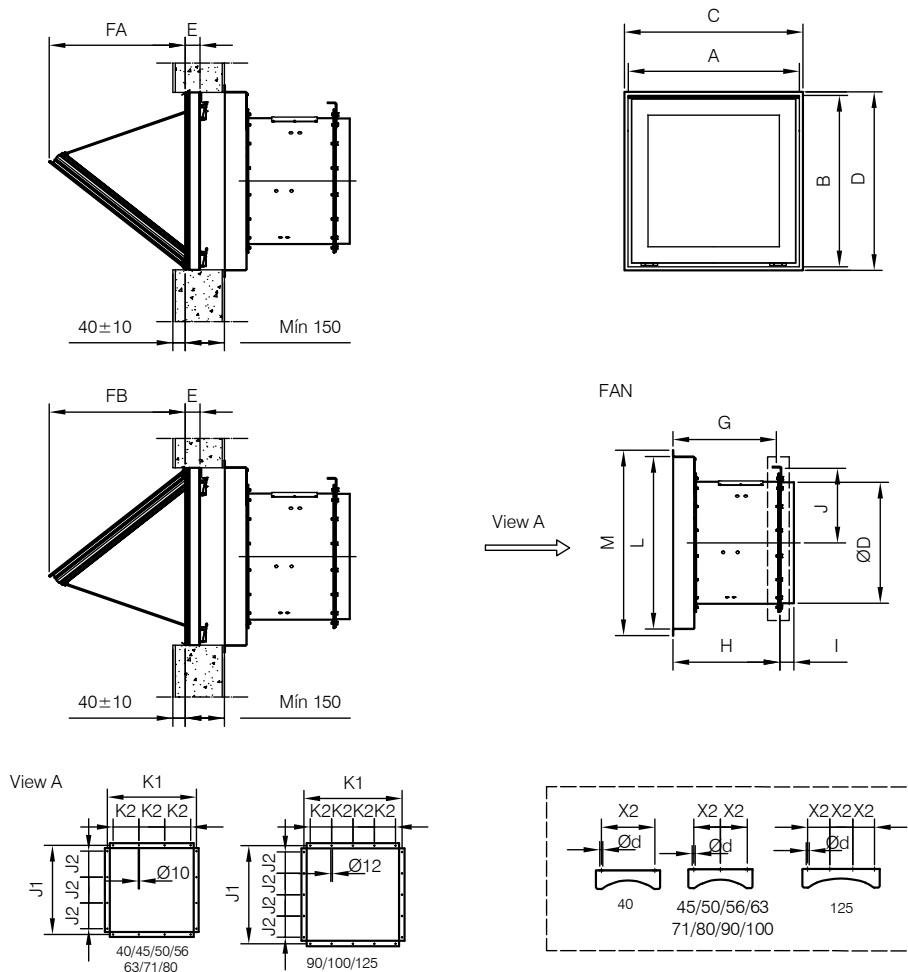
	63	125	250	500	1000	2000	4000	8000
40-2-1	48	64	76	84	89	87	83	76
40-2-1.5	47	63	75	83	88	86	82	75
45-2-2	47	60	74	86	87	86	82	74
45-2-3	47	64	74	81	88	86	83	75
50-2-4	58	74	84	91	92	89	88	89
50-2-5.5	58	74	84	91	92	89	88	89
56-2-5.5	53	66	84	92	94	93	88	81
56-2-7.5	53	66	84	92	94	93	88	81
56-4-2	52	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
63-6-1	49	59	69	73	74	72	65	57
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
71-6-1.5	47	65	74	77	77	72	65	56
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
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
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
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
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
100-6-5.5	57	72	82	85	86	83	75	67
100-6-7.5	59	74	84	87	88	85	77	69
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
125-4/6-50	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
125-4/9-50	65	79	92	100	102	99	94	86
125-6/6-5.5	64	79	89	92	93	90	85	77
125-6/6-7.5	62	77	87	90	91	88	83	75
125-6/6-10	61	76	86	89	90	87	82	74
125-6/6-15	61	76	86	89	90	87	82	74
125-6/6-20	63	78	88	91	92	89	84	76
125-6/9-10	61	76	87	93	94	88	84	77
125-6/9-15	59	74	85	91	92	86	82	75
125-6/9-20	59	74	85	91	92	86	82	75
125-6/9-25	61	76	87	93	94	88	84	77
125-4/12-30	68	82	95	103	105	102	97	89
125-4/12-40	67	81	94	102	104	101	96	88
125-4/12-50	66	80	93	101	103	100	95	87
125-6/12-25	61	76	87	93	94	88	84	77
125-6/12-30	62	77	88	94	95	89	85	78
125-6/12-40	66	81	92	98	99	93	89	82

Values measured at exhaust with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
40-2-1	48	64	76	84	89	87	83	76
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
50-2-4	58	74	84	91	92	89	88	89
50-2-5.5	58	74	84	91	92	89	88	89
56-2-5.5	53	66	84	92	94	93	88	81
56-2-7.5	53	66	84	92	94	93	88	81
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
63-6-1	49	59	69	73	74	72	65	57
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
71-6-1.5	47	65	74	77	77	72	65	56
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
80-6-1.5	53	68	75	78	79	76	70	62
80-6-2	59	69	75	79	80	78	73	65
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
90-6-3	52	67	78	82	82	78	71	63
90-6-4	60	70	80	85	85	82	76	68
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
100-6-5.5	57	72	82	85	86	83	75	67
100-6-7.5	59	74	84	87	88	85	77	69
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
125-4/6-50	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
125-4/9-50	65	79	92	100	102	99	94	86
125-6/6-5.5	64	79	89	92	93	90	85	77
125-6/6-7.5	62	77	87	90	91	88	83	75
125-6/6-10	61	76	86	89	90	87	82	74
125-6/6-15	61	76	86	89	90	87	82	74
125-6/6-20	63	78	88	91	92	89	84	76
125-6/9-10	61	76	87	93	94	88	84	77
125-6/9-15	59	74	85	91	92	86	82	75
125-6/9-20	59	74	85	91	92	86	82	75
125-6/9-25	61	76	87	93	94	88	84	77
125-4/12-30	68	82	95	103	105	102	97	89
125-4/12-40	67	81	94	102	104	101	96	88
125-4/12-50	66	80	93	101	103	100	95	87
125-6/12-25	61	76	87	93	94	88	84	77
125-6/12-30	62	77	88	94	95	89	85	78
125-6/12-40	66	81	92	98	99	93	89	82

Dimensions mm

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



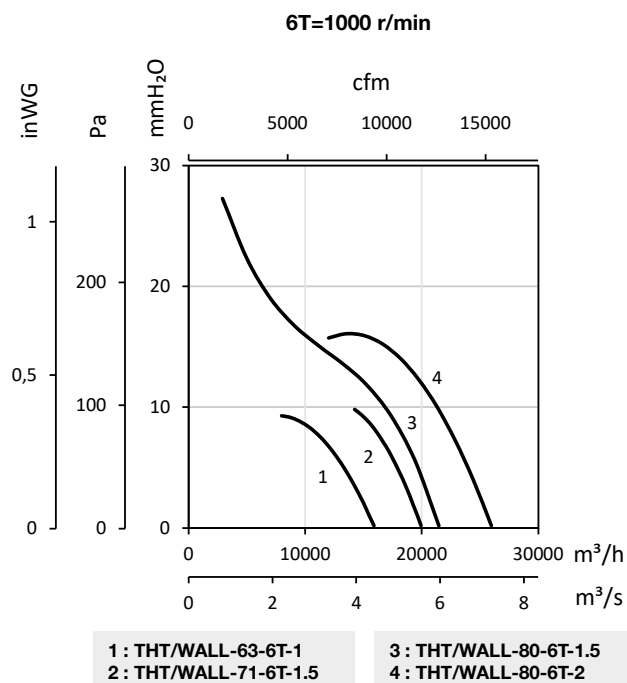
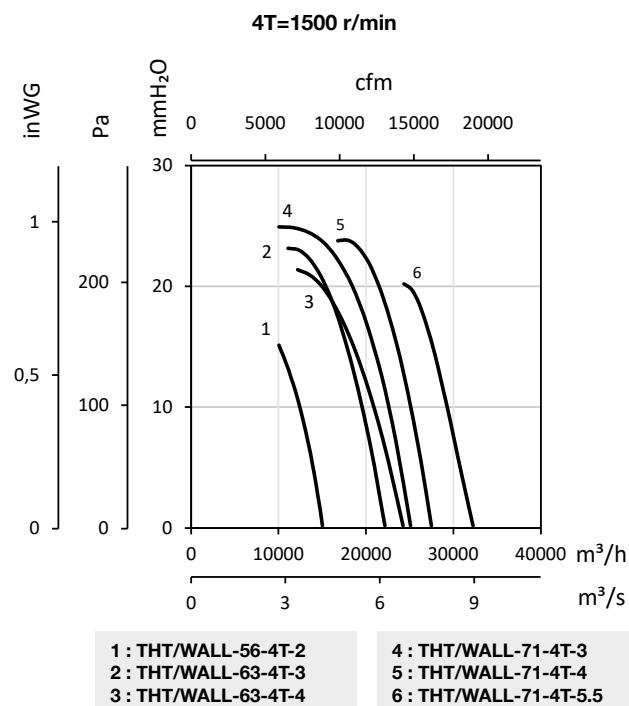
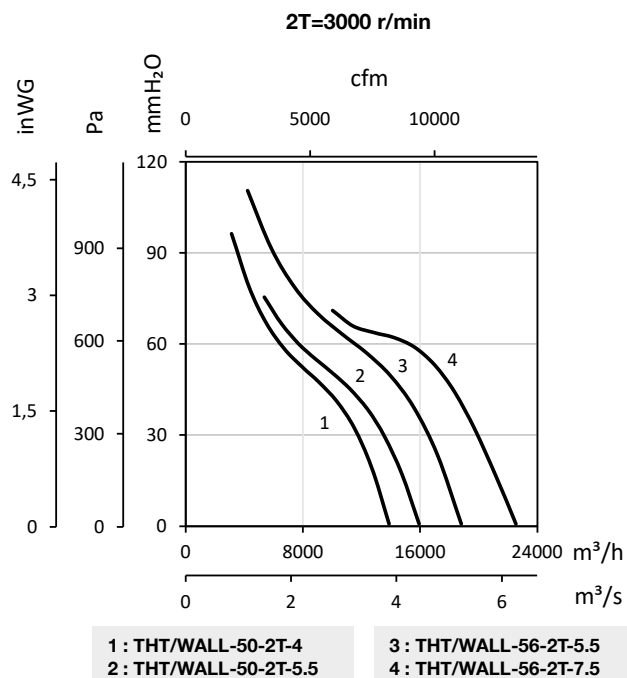
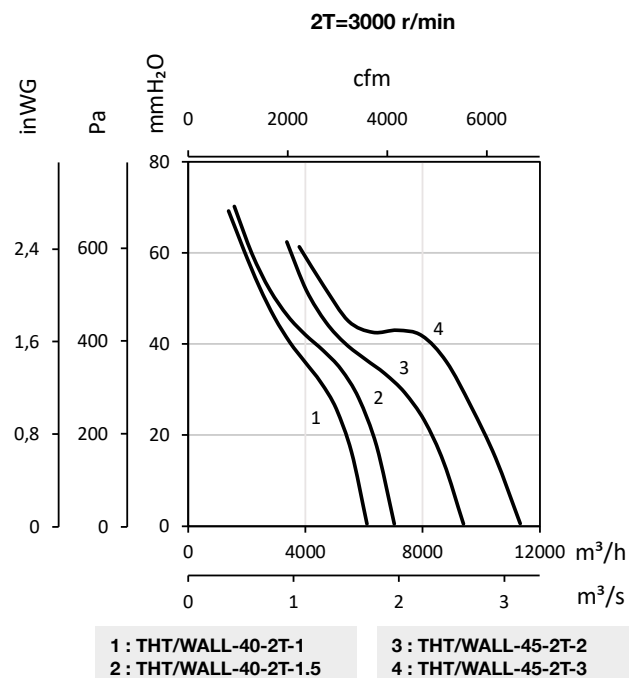
	A	B	C	D	ØD	E	FA	FB	G	H	I	J	J1	J2	K1	K2	L	M	X2	ød
THT/WALL-40	640	590	650	600	400	82	460	460	510	530	80	255	740	200	740	200	600	766	200	10
THT/WALL-45	640	590	650	600	450	82	460	460	510	530	80	280	740	200	740	200	600	766	200	12
THT/WALL-50	690	690	700	700	500	82	551	551	510	530	80	305	830	220	830	220	700	867	200	12
THT/WALL-56	690	690	700	700	560	82	551	551	510	530	80	340	830	220	830	220	700	867	215	13
THT/WALL-56-2T-7.5	690	690	700	700	560	82	551	551	610	630	80	340	830	220	830	220	700	867	215	13
THT/WALL-63	990	990	1000	1000	630	82	875	875	605	630	80	385	1090	300	1090	300	1000	1117	215	13
THT/WALL-63-6T-1	990	990	1000	1000	630	82	875	875	505	530	80	385	1090	300	1090	300	1000	1117	215	13
THT/WALL-71	990	990	1000	1000	710	82	875	875	605	630	80	445	1090	300	1090	300	1000	1117	225	13
THT/WALL-80	990	990	1000	1000	800	82	875	875	605	630	100	490	1090	300	1090	300	1000	1117	280	13
THT/WALL-90	1190	1190	1200	1200	900	82	922	922	705	730	100	550	1310	250	1310	250	1200	1337	280	18
THT/WALL-90-4T-15	1190	1190	1200	1200	900	82	922	922	805	830	100	550	1310	250	1310	250	1200	1337	280	18
THT/WALL-100	1190	1190	1200	1200	1000	82	922	922	705	730	100	600	1310	250	1310	250	1200	1337	280	18
THT/WALL-100-4T-15	1190	1190	1200	1200	1000	82	922	922	805	830	100	600	1310	250	1310	250	1200	1337	280	18
THT/WALL-100-4T-20	1190	1190	1200	1200	1000	82	922	922	805	830	100	600	1310	250	1310	250	1200	1337	280	18
THT/WALL-125	1490	1490	1500	1500	1250	82	1176	955	1025	1050	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-4T/6-20	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-4T/6-50	1490	1490	1500	1500	1250	82	1176	955	1125	1150	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-4T/9-50	1490	1490	1500	1500	1250	82	1176	955	1125	1150	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-4T/12-50	1490	1490	1500	1500	1250	82	1176	955	1125	1150	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/6-5.5	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/6-7.5	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/6-10	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/6-15	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/9-10	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	300	18
THT/WALL-125-6T/9-15	1490	1490	1500	1500	1250	82	1176	955	825	850	100	725	1660	300	1660	300	1500	1687	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

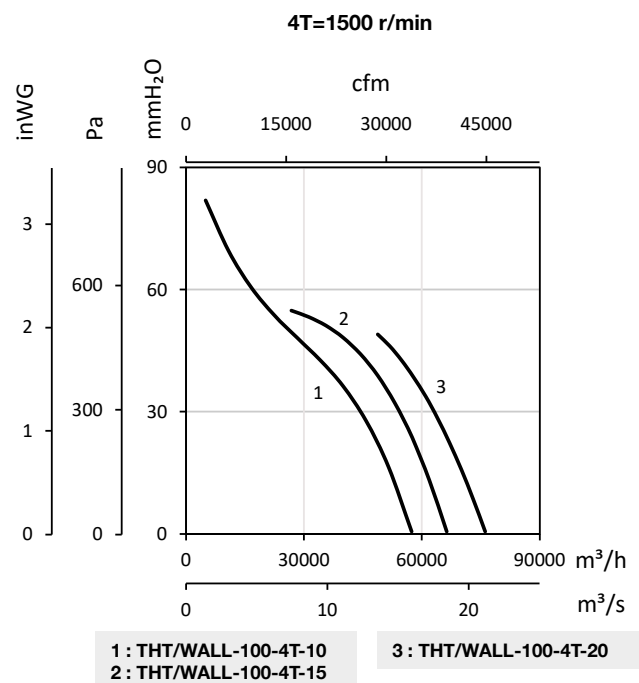
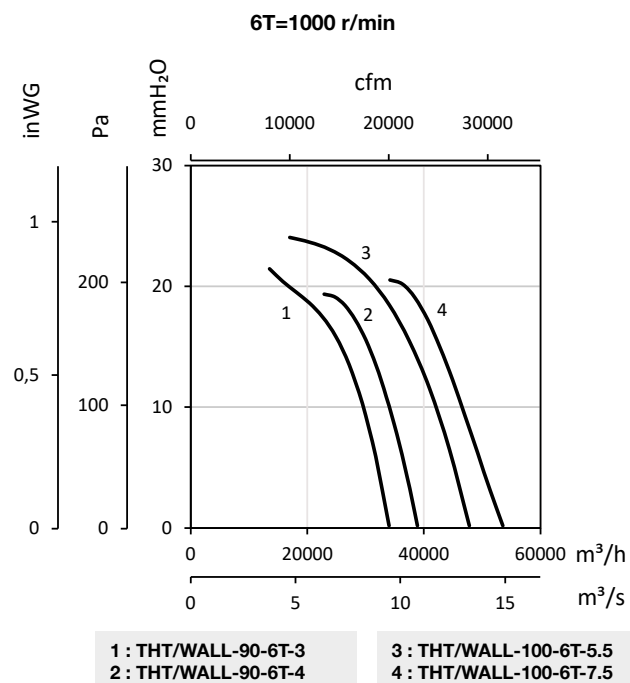
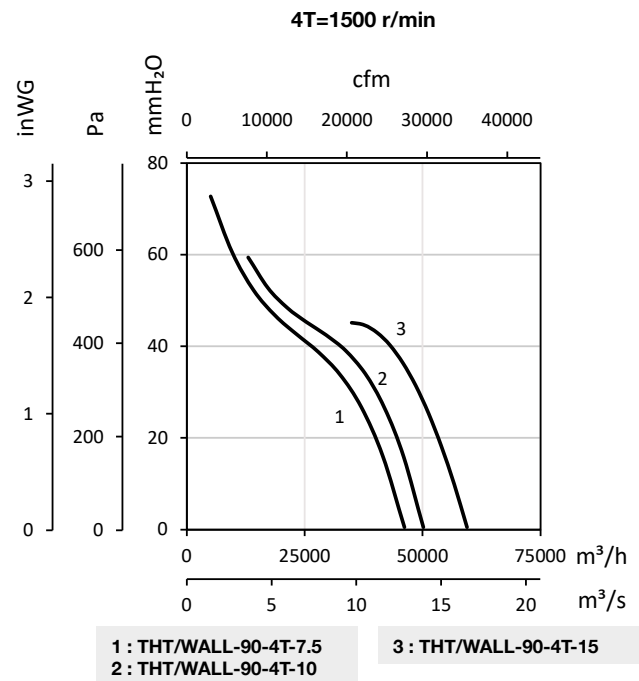
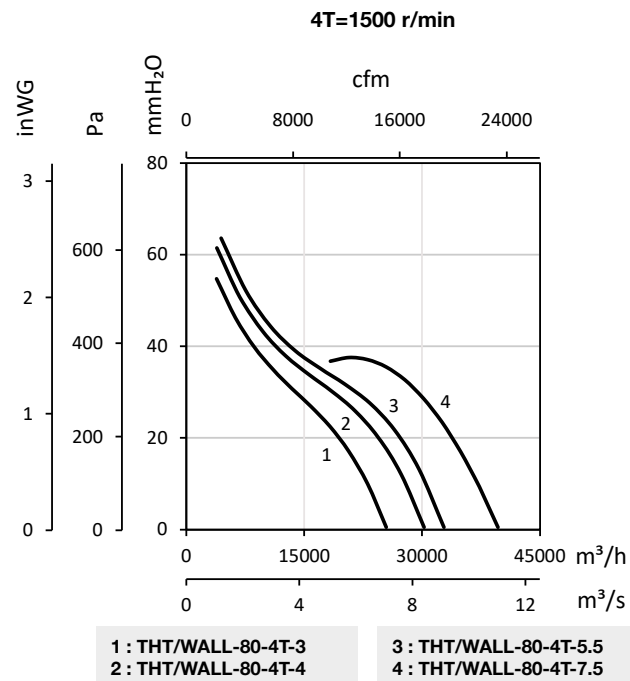
Pe= Static pressure in mm H₂O, Pa and inwg



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

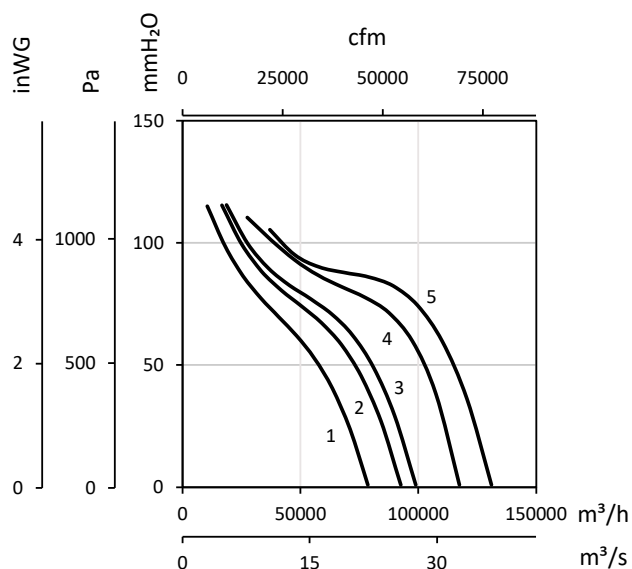


Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

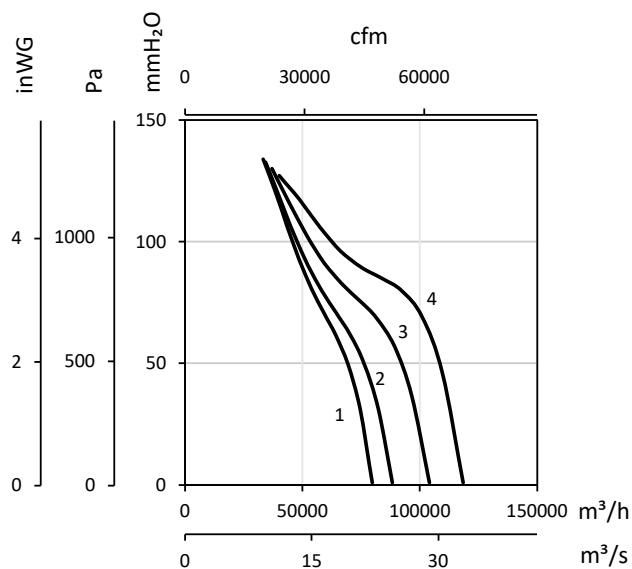
4T/6=1500 r/min



1 : THT/WALL-125-4T/6-20
2 : THT/WALL-125-4T/6-25
3 : THT/WALL-125-4T/6-30

4 : THT/WALL-125-4T/6-40
5 : THT/WALL-125-4T/6-50

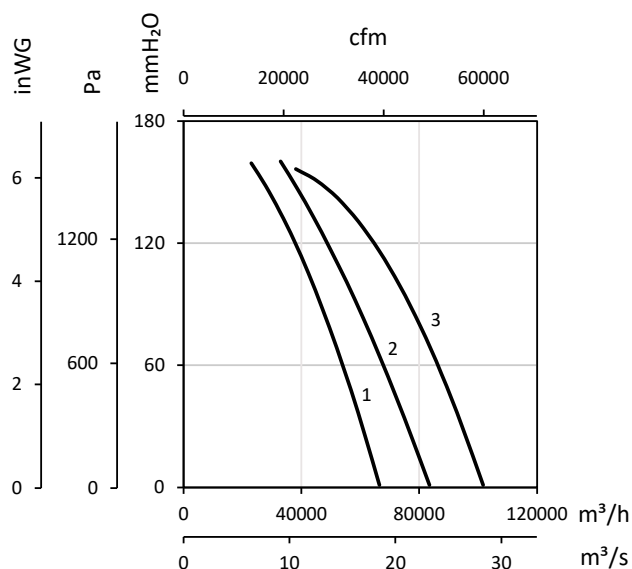
4T/9=1500 r/min



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

3 : THT/WALL-125-4T/9-40
4 : THT/WALL-125-4T/9-50

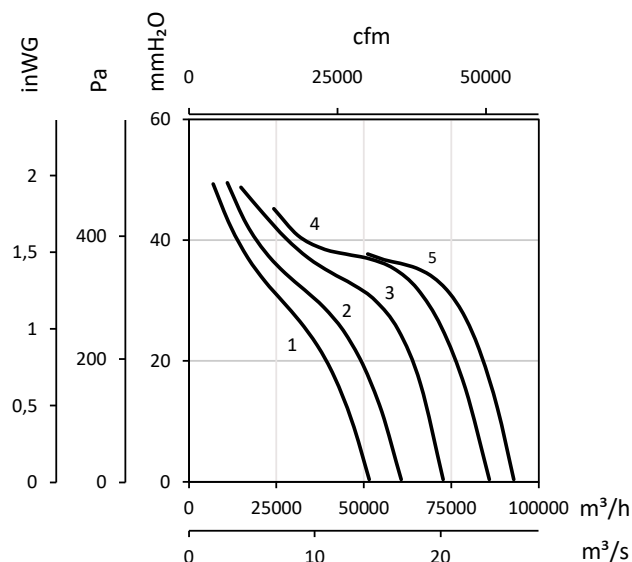
4T/12=1500 r/min



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

3 : THT/WALL-125-4T/12-50

6T/6=1000 r/min



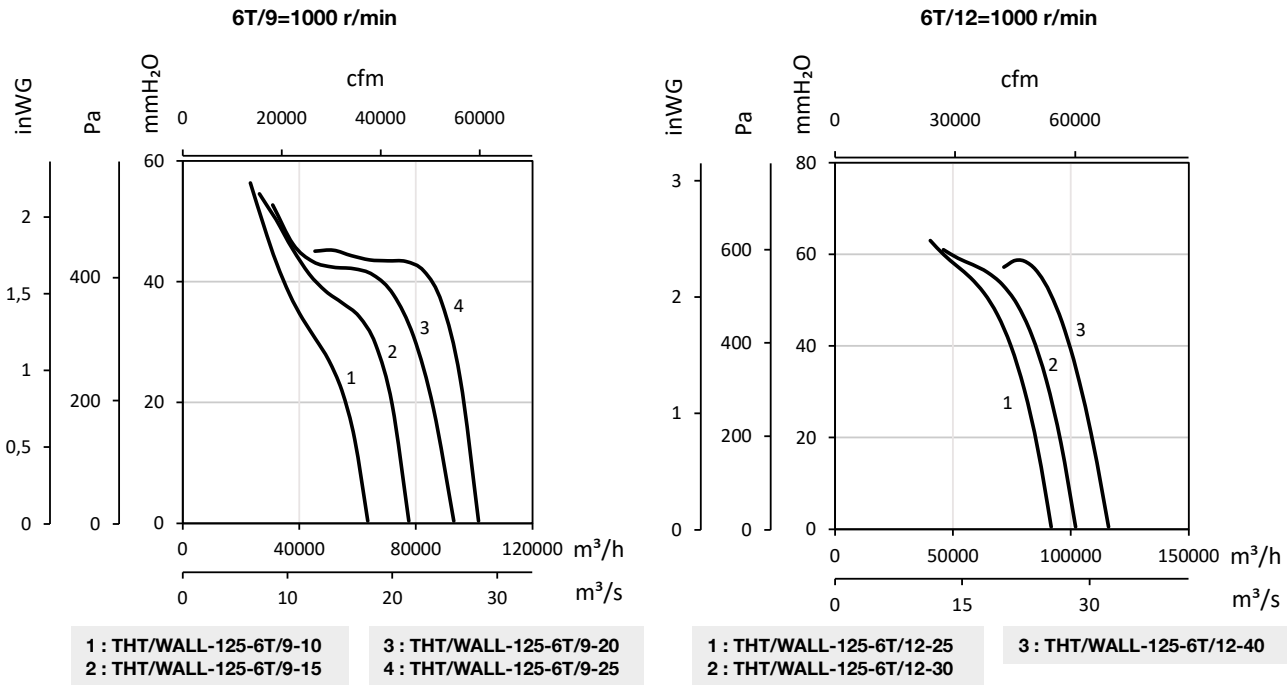
1 : THT/WALL-125-6T/6-5.5
2 : THT/WALL-125-6T/6-7.5
3 : THT/WALL-125-6T/6-10

4 : THT/WALL-125-6T/6-15
5 : THT/WALL-125-6T/6-20

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg



Accessories

