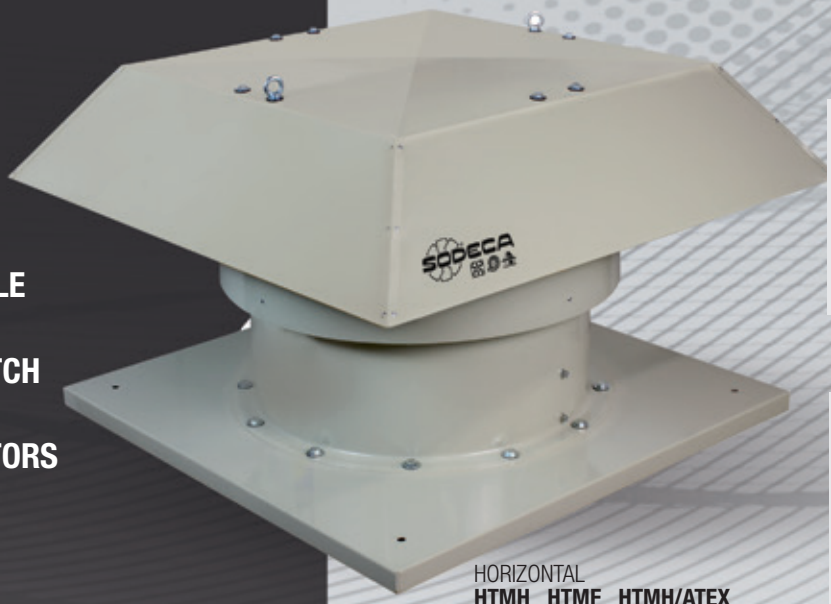
- DESIGNED TO EXTRACT LARGE AIR VOLUMES
- PROTECTIVE GRILLE
- ANTI-RETURN HATCH
- IE3 > 0.75kw MOTORS



HORIZONTAL
HTMH HTMF HTMH/ATEX

VERTICAL
HTMV THT/ROOF HTMV/ATEX

ROOF-MOUNTED AXIAL EXTRACTOR FANS

ROOF-MOUNTED SMOKE EXTRACTOR FANS

F-400

ROOF-MOUNTED ATEX EXTRACTOR FANS FOR EXPLOSIVE ATMOSPHERES

ROOF-MOUNTED
EXTRACTOR FAN SYSTEMS

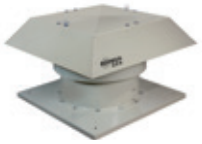
According ErP 2015

SODECA

ROOF-MOUNTED EXTRACTOR FAN SYSTEMS

ROOF-MOUNTED AXIAL EXTRACTOR FANS

HTMH



Roof-mounted multifunctional extractor fans for large flow rates 3

HTMV

Roof-mounted axial extractor fans with vertical air outlet 18

ROOF-MOUNTED SMOKE EXTRACTOR FANS

CERTIFICATE F-400

HTMF

400°C/2h and 300°C/2h roof-mounted multifunctional extractor fans 8

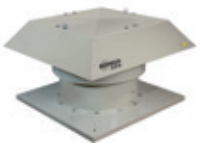
THT/ROOF

400°C/2h and 300°C/2h roof-mounted axial extractor fans with vertical air outlet 22

ROOF-MOUNTED ATEX EXTRACTOR FANS FOR EXPLOSIVE ATMOSPHERES

CERTIFICATE ATEX

HTMH/ATEX



Roof-mounted axial extractor fans with ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking 13

HTMV/ATEX

Roof-mounted axial extractor fans with vertical air outlet, ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking 25

HTMH

Multifunctional extractor fans for large flow rates

According ErP 2015

Roof-mounted multifunctional extractor fans with robust structures for extraction operations with large flow rates

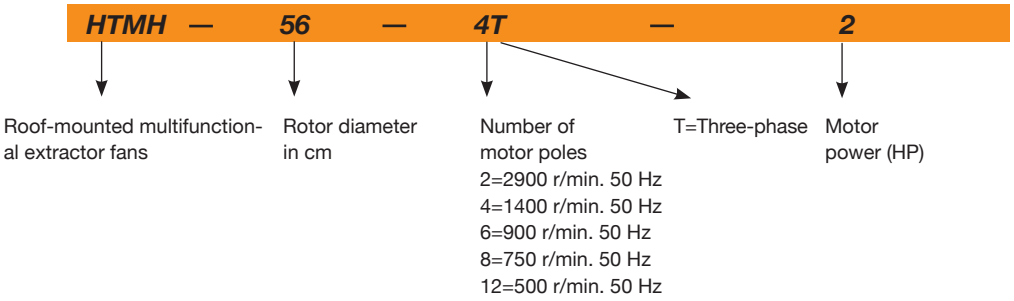
Fan:
- Painted, galvanised sheet steel support base
- Cast aluminium orientable rotors
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499
- Painted, galvanised sheet steel rain cap, with natural air outlet.

Motor:
- IE2 efficiency motors for powers equal to or greater than 0.75kW and lower than 7.5kW, except single-phase, 2-speed and 8-pole.
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings, IP55 protection and with 1 or 2 speeds, depending on model
- Three-phase 230/400V-50Hz (up to 4 kW) and 400/690V-50Hz (powers greater than 4 kW)
- Operating temperature: -25ºC +50ºC

Finish:
- Corrosion-proof finish of polyester resin polymerised at 190ºC, previously degreased with phosphate-free nanotechnological treatment.
- C4H quality surface finish

On request:
- ATEX and 2-speed motors
- Made entirely of stainless steel
- Made of hot-dip galvanised steel
- Marine motors for naval applications, certified for essential service in accordance with different classification entities (BV, DNV, LR)
- CE, NEMA, UL, CSA motors
- C5M quality surface finish
- IE2 and IE3 efficiency motors for all powers.

Order code



Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Aspiration	Discharge	(Kg)
HTMH-56-4T-1	1410	2,83	1,63		0,75	10545	62	59	67
HTMH-56-4T-1.5	1400	4,03	2,32		1,10	11400	63	60	69
HTMH-56-6T-0.75	910	2,59	1,49		0,55	8170	51	49	67
HTMH-63-4T-1.5	1400	4,03	2,32		1,10	13870	65	62	81
HTMH-63-4/8T-1.5	1440 / 710		2,90 / 1,30		1,10 / 0,25	13870 / 6935	65 / 50	62 / 47	79
HTMH-63-4T-2	1440	5,67	3,26		1,50	15485	66	63	87
HTMH-63-4/8T-2	1420 / 700		3,50 / 1,50		1,50 / 0,37	15485 / 7742	66 / 51	63 / 48	80
HTMH-63-4T-3	1435	8,07	4,64		2,20	17955	67	64	96
HTMH-63-4/8T-3	1430 / 710		4,90 / 1,70		2,20 / 0,45	17955 / 8977	67 / 52	64 / 49	86
HTMH-63-6T-0.75	910	2,59	1,49		0,55	10260	56	54	79
HTMH-63-6T-1	925	3,39	1,95		0,75	11305	57	55	84
HTMH-71-4T-2	1440	5,67	3,26		1,50	16150	69	66	93
HTMH-71-4/8T-2	1420 / 700		3,50 / 1,50		1,50 / 0,37	16150 / 8075	69 / 54	66 / 51	86
HTMH-71-4T-3	1435	8,07	4,64		2,20	18430	71	68	101
HTMH-71-4/8T-3	1430 / 710		4,90 / 1,70		2,20 / 0,45	18430 / 9215	71 / 56	68 / 53	91
HTMH-71-4T-4	1420	10,70	6,17		3,00	22610	72	69	104

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	Aspiration	Discharge	(Kg)
HTMH-71-4/8T-4	1430 / 710		6,50 / 2,30		3,00 / 0,60	22610 / 11305	72 / 57	69 / 54	98
HTMH-71-6T-1	925	3,39	1,95		0,75	13205	58	56	90
HTMH-71-6T-1.5	925	4,83	2,78		1,10	16245	59	57	94
HTMH-80-4T-4	1420	10,70	6,17		3,00	27600	73	70	127
HTMH-80-4/8T-4	1430 / 710		6,50 / 2,30		3,00 / 0,60	27600 / 13800	73 / 58	70 / 55	121
HTMH-80-4T-5.5	1440	14,10	8,12		4,00	30176	74	71	136
HTMH-80-4/8T-5.5	1430 / 710		8,20 / 2,90		4,00 / 0,80	30176 / 15088	74 / 59	71 / 56	125
HTMH-80-6T-1.5	925	4,83	2,78		1,10	19412	62	60	117
HTMH-80-6T-2	940	6,45	3,71		1,50	22172	63	61	122
HTMH-80-6T-3	955	10,30	5,94		2,20	24932	64	62	132
HTMH-90-4T-5.5	1440	14,10	8,12		4,00	35052	79	76	158
HTMH-90-4/8T-5.5	1430 / 710		8,20 / 2,90		4,00 / 0,80	35052 / 17526	79 / 64	76 / 61	147
HTMH-90-4T-7.5	1460		10,50	6,09	5,50	38456	81	78	176
HTMH-90-4/8T-7.5	1450 / 720		11,80 / 3,80		5,50 / 1,10	38456 / 19228	81 / 66	78 / 63	166
HTMH-90-4T-10 IE3	1465		13,90	8,06	7,50	41308	82	79	194
HTMH-90-4/8T-9	1460 / 725		15,30 / 5,40		7,50 / 1,50	41308 / 20654	82 / 67	79 / 64	175
HTMH-90-6T-3	955	10,30	5,94		2,20	29256	68	66	154
HTMH-90-6/12T-3	940 / 470		5,60 / 2,20		2,20 / 0,37	29256 / 14628	68 / 53	66 / 51	148
HTMH-90-6T-4	960	12,70	7,30		3,00	32016	69	67	177
HTMH-90-6/12T-4	960 / 480		9,00 / 3,50		3,00 / 0,55	32016 / 16008	69 / 54	67 / 52	166
HTMH-90-8T-1	705	4,68	2,70		0,75	17020	61	60	139
HTMH-90-8T-2	705	7,10	4,10		1,50	19596	63	62	150
HTMH-100-4T-7.5	1460		10,50	6,09	5,50	40756	84	81	200
HTMH-100-4/8T-7.5	1450 / 720		11,80 / 3,80		5,50 / 1,10	40756 / 20378	84 / 69	81 / 66	190
HTMH-100-4T-10 IE3	1465		13,90	8,06	7,50	47564	85	82	218
HTMH-100-4/8T-9	1460 / 725		15,30 / 5,40		7,50 / 1,50	44528 / 22264	84 / 69	81 / 66	199
HTMH-100-4T-15 IE3	1470		20,90	12,10	11,00	51336	86	83	253
HTMH-100-6T-3	955	10,30	5,94		2,20	32476	74	72	178
HTMH-100-6/12T-3	940 / 470		5,60 / 2,20		2,20 / 0,37	32476 / 16238	74 / 59	72 / 57	172
HTMH-100-6T-4	960	12,70	7,30		3,00	35420	75	73	201
HTMH-100-6T-5.5	960	16,50	9,46		4,00	40020	76	74	208
HTMH-100-6/12T-5.5	970 / 480		11,00 / 4,00		4,00 / 0,65	40020 / 20010	76 / 61	74 / 59	200
HTMH-125-4T/3-10 IE3	1465		13,90	8,06	7,50	55250	75	72	337
HTMH-125-4T/3-15 IE3	1470		21,40	12,40	11,00	72150	76	73	382
HTMH-125-4T/3-20 IE3	1465		28,70	16,60	15,00	83120	78	75	377
HTMH-125-4T/6-15 IE3	1470		21,40	12,40	11,00	66800	76	73	398
HTMH-125-4T/6-20 IE3	1465		28,70	16,60	15,00	72900	76	73	393
HTMH-125-4T/9-20 IE3	1465		28,70	16,60	15,00	76310	75	72	408
HTMH-125-6T/6-5.5	960	16,50	9,46		4,00	47760	63	61	343
HTMH-125-6T/6-7.5	960		12,80	7,42	5,50	55600	63	61	347
HTMH-125-6T/6-10 IE3	970		14,80	8,58	7,50	66170	65	63	369
HTMH-125-6T/6-15 IE3	970		22,00	12,80	11,00	76380	67	65	399
HTMH-125-6T/9-7.5	960		12,80	7,42	5,50	50000	64	62	362
HTMH-125-6T/9-10 IE3	970		14,80	8,58	7,50	59340	64	62	384
HTMH-125-6T/9-15 IE3	970		22,00	12,80	11,00	71890	67	65	414
HTMH-125-6T/9-20 IE3	975		28,00	16,20	15,00	83660	70	68	467
HTMH-125-8T/6-4	705	12,82	7,40		3,00	47510	56	55	328
HTMH-125-8T/6-5.5	710	16,11	9,30		4,00	52770	58	57	345
HTMH-125-8T/6-7.5	710		12,00	7,20	5,50	60410	60	59	361
HTMH-125-8T/6-10	725		16,00	9,50	7,50	66030	61	60	389
HTMH-125-8T/9-5.5	710	16,11	9,30		4,00	51330	58	57	360
HTMH-125-8T/9-7.5	710		12,00	7,20	5,50	54480	61	60	376
HTMH-125-8T/9-10	725		16,00	9,50	7,50	65660	63	62	404
HTMH-125-8T/9-15	720		24,00	13,80	11,00	73870	64	63	426

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

Noise power spectrum Lw(A) in dB(A) frequency band in [Hz]

Values taken during aspiration with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	46	67	74	79	82	78	71	60
56-4-1,5	47	68	75	80	83	79	72	61
56-6-0,75	35	56	63	68	71	67	60	49
63-4-1,5	49	70	77	82	85	81	74	63
63-4-2	50	71	78	83	86	82	75	64
63-4-3	51	72	79	84	87	83	76	65
63-6-0,75	40	61	68	73	76	72	65	54
63-6-1	41	62	69	74	77	73	66	55
63-8-1,5	34	55	62	67	70	66	59	48
63-8-2	35	56	63	68	71	67	60	49
63-8-3	36	57	64	69	72	68	61	50
71-4-2	53	74	81	86	89	85	78	67
71-4-3	55	76	83	88	91	87	80	69
71-4-4	56	77	84	89	92	88	81	70
71-6-1	42	63	70	75	78	74	67	56
71-6-1,5	43	64	71	76	79	75	68	57
71-8-2	38	59	66	71	74	70	63	52
71-8-3	40	61	68	73	76	72	65	54
71-8-4	41	62	69	74	77	73	66	55
80-4-4	57	78	85	90	93	89	82	71
80-4-5,5	58	79	86	91	94	90	83	72
80-6-1,5	46	67	74	79	82	78	71	60
80-6-2	47	68	75	80	83	79	72	61
80-6-3	48	69	76	81	84	80	73	62
80-8-4	42	63	70	75	78	74	67	56
80-8-5,5	43	64	71	76	79	75	68	57
90-4-5,5	63	84	91	96	99	95	88	77
90-4-7,5	65	86	93	98	101	97	90	79
90-4-9	66	87	94	99	102	98	91	80
90-4-10	66	87	94	99	102	98	91	80
90-6-3	52	73	80	85	88	84	77	66
90-6-4	53	74	81	86	89	85	78	67
90-8-1	45	66	73	78	81	77	70	59
90-8-2	47	68	75	80	83	79	72	61
90-8-5,5	48	69	76	81	84	80	73	62
90-8-7,5	50	71	78	83	86	82	75	64
90-8-9	51	72	79	84	87	83	76	65
90-12-3	37	58	65	70	73	69	62	51
90-12-4	38	59	66	71	74	70	63	52
100-4-7,5	68	89	96	101	104	100	93	82
100-4-9	68	89	96	101	104	100	93	82
100-4-10	69	90	97	102	105	101	94	83
100-4-15	70	91	98	103	106	102	95	84
100-6-3	58	79	86	91	94	90	83	72
100-6-4	59	80	87	92	95	91	84	73
100-6-5,5	60	81	88	93	96	92	85	74
100-8-7,5	53	74	81	86	89	85	78	67
100-8-9	53	74	81	86	89	85	78	67
100-12-3	43	64	71	76	79	75	68	57
100-12-5,5	45	66	73	78	81	77	70	59
125-4T/3-10	66	73	84	94	95	90	82	78
125-4T/3-15	67	74	85	95	96	91	83	79
125-4T/3-20	69	76	87	97	98	93	85	81
125-4T/6-15	63	72	87	94	97	91	85	81
125-4T/6-20	63	72	87	94	97	91	85	81
125-4T/9-20	62	71	87	93	95	89	84	80
125-6T/6-5,5	56	66	78	81	83	79	68	64
125-6T/6-7,5	56	66	78	81	83	79	68	64
125-6T/6-10	58	68	80	83	85	81	70	66
125-6T/6-15	60	70	82	85	87	83	72	68
125-6T/9-7,5	54	65	79	83	83	81	70	66
125-6T/9-10	54	65	79	83	83	81	70	66
125-6T/9-15	57	68	82	86	86	84	73	69
125-6T/9-20	60	71	85	89	89	87	76	72
125-8T/6-4	50	59	70	75	75	69	58	54
125-8T/6-5,5	52	61	72	77	77	71	60	56
125-8T/6-7,5	54	63	74	79	79	73	62	58
125-8T/6-10	55	64	75	80	80	74	63	59
125-8T/9-5,5	49	61	70	76	78	72	61	57
125-8T/9-7,5	52	64	73	79	81	75	64	60
125-8T/9-10	54	66	75	81	83	77	66	62
125-8T/9-15	55	67	76	82	84	78	67	63

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	43	64	71	76	79	75	68	57
56-4-1,5	44	65	72	77	80	76	69	58
56-6-0,75	33	54	61	66	69	65	58	47
63-4-1,5	46	67	74	79	82	78	71	60
63-4-2	47	68	75	80	83	79	72	61
63-4-3	48	69	76	81	84	80	73	62
63-6-0,75	38	59	66	71	74	70	63	52
63-6-1	39	60	67	72	75	71	64	53
63-8-1,5	31	52	59	64	67	63	56	45
63-8-2	32	53	60	65	68	64	57	46
63-8-3	33	54	61	66	69	65	58	47
71-4-2	50	71	78	83	86	82	75	64
71-4-3	52	73	80	85	88	84	77	66
71-4-4	53	74	81	86	89	85	78	67
71-6-1	40	61	68	73	76	72	65	54
71-6-1,5	41	62	69	74	77	73	66	55
71-8-2	35	56	63	68	71	67	60	49
71-8-3	37	58	65	70	73	69	62	51
71-8-4	38	59	66	71	74	70	63	52
80-4-4	54	75	82	87	90	86	79	68
80-4-5,5	55	76	83	88	91	87	80	69
80-6-1,5	44	65	72	77	80	76	69	58
80-6-2	45	66	73	78	81	77	70	59
80-6-3	46	67	74	79	82	78	71	60
80-8-4	39	60	67	72	75	71	64	53
80-8-5,5	40	61	68	73	76	72	65	54
90-4-5,5	60	81	88	93	96	92	85	74
90-4-7,5	62	83	90	95	98	94	87	76
90-4-9	63	84	91	96	99	95	88	77
90-4-10	63	84	91	96	99	95	88	77
90-6-3	50	71	78	83	86	82	75	64
90-6-4	51	72	79	84	87	83	76	65
90-8-1	44	65	72	77	80	76	69	58
90-8-2	46	67	74	79	82	78	71	60
90-8-5,5	45	66	73	78	81	77	70	59
90-8-7,5	47	68	75	80	83	79	72	61
90-8-9	48	69	76	81	84	80	73	62
90-12-3	35	56	63	68	71	67	60	49
90-12-4	36	57	64	69	72	68	61	50
100-4-7,5	65	86	93	98	101	97	90	79
100-4-9	65	86	93	98	101	97	90	79
100-4-10	66	87	94	99	102	98	91	80
100-4-15	67	88	95	100	103	99	92	81
100-6-3	56	77	84	89	92	88	81	70
100-6-4	57	78	85	90	93	89	82	71
100-6-5,5	58	79	86	91	94	90	83	72
100-8-7,5	50	71	78	83	86	82	75	64
100-8-9	50	71	78	83	86	82	75	64
100-12-3	41	62	69	74	77	73	66	55
100-12-5,5	43	64	71	76	79	75	68	57
125-4T/3-10	63	70	81	91	92	87	79	75
125-4T/3-15	64	71	82	92	93	88	80	76
125-4T/3-20	66	73	84	94	95	90	82	78
125-4T/6-15	60	69	84	91	94	88	82	78
125-4T/6-20	60	69	84	91	94	88	82	78
125-4T/9-20	59	68	84	90	92	86	81	77
125-6T/6-5,5	54	64	76	79	81	77	66	62
125-6T/6-7,5	54	64	76	79	81	77	66	62
125-6T/6-10	56	66	78	81	83	79	68	64
125-6T/6-15	58	68	80	83	85	81	70	66
125-6T/9-7,5	52	63	77	81	81	79	68	64
125-6T/9-10	52	63	77	81	81	79	68	64
125-6T/9-15	55	66	80	84	84	82	71	67
125-6T/9-20	58	69	83	87	87	85	74	70
125-8T/6-4	49	58	69	74	74	68	57	53
125-8T/6-5,5	51	60	71	76	76	70	59	55
125-8T/6-7,5	53	62	73	78	78	72	61	57
125-8T/6-10	54	63	74	79	79	73	62	58
125-8T/9-5,5	48	60	69	75	77	71	60	56
125-8T/9-7,5	51	63	72	78	80	74	63	59
125-8T/9-10	53	65	74	80	82	76	65	61
125-8T/9-15	54	66	75	81	83	77	66	62

Erp. Best efficiency point (BEP) characteristics

MC	Measurement category	**ηe[%]**	Efficiency
EC	Efficiency category	**N**	Efficiency grade
	S Static	**[kW]**	Electric power
	T Total	**[m³/h]**	Flow rate
VSD	Variable speed drive	**[mmH$_2$O]**	Static or total pressure (based on EC)
SR	Specific ratio	**[RPM]**	Speed

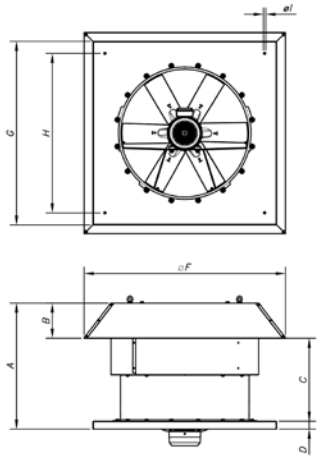
Model	MC	EC	VSD	SR	ηe[%]	N	[kW]	[m3/h]	[mmH$_2$O]	[RPM]
HTMH-56-4T-1	C	S	NO	1.00	35.4%	42.1	0.85	7901	14.07	1418
HTMH-56-4T-1.5	B	T	NO	1.00	48.5%	54.4	1.16	11340	18.14	1414
HTMH-56-6T-0.75	B	T	NO	1.00	42.7%	50.8	0.52	9212	8.77	934
HTMH-63-4T-1.5	C	S	NO	1.00	48.2%	54.3	1.11	10387	18.88	1418
HTMH-63-4/8T-1.5	C	S	NO	1.00	41.3%	46.8	1.38	10605	19.68	1447
HTMH-63-4T-2	C	S	NO	1.00	42.4%	47.6	1.54	12016	20.00	1449
HTMH-63-4/8T-2	C	S	NO	1.00	37.2%	42.1	1.70	11892	19.59	1434
HTMH-63-4T-3	B	T	NO	1.00	62.4%	66.6	2.19	19423	25.86	1446
HTMH-63-4/8T-3	B	T	NO	1.00	56.0%	59.9	2.42	19373	25.73	1442
HTMH-63-6T-0.75	B	T	NO	1.00	56.1%	64.1	0.55	11393	9.86	937
HTMH-63-6T-1	B	T	NO	1.00	54.9%	61.8	0.80	13916	11.57	939
HTMH-71-4T-2	C	S	NO	1.00	48.5%	53.8	1.49	13409	19.84	1450
HTMH-71-4/8T-2	C	S	NO	1.00	42.6%	47.5	1.65	13275	19.45	1436
HTMH-71-4T-3	C	S	NO	1.00	44.7%	48.9	2.16	16356	21.67	1446
HTMH-71-4/8T-3	C	S	NO	1.00	40.1%	44.0	2.39	16314	21.56	1443
HTMH-71-4T-4	B	T	NO	1.00	68.4%	71.8	2.87	23676	30.48	1434
HTMH-71-4/8T-4	B	T	NO	1.00	61.6%	64.8	3.24	23797	30.80	1441
HTMH-71-6T-1	B	T	NO	1.00	62.4%	69.3	0.82	14945	12.60	938
HTMH-71-6T-1.5	B	T	NO	1.00	59.2%	65.1	1.15	18001	13.88	939
HTMH-80-4T-4	C	S	NO	1.00	46.9%	50.1	3.22	20108	27.62	1426
HTMH-80-4/8T-4	C	S	NO	1.00	42.3%	45.1	3.64	20222	27.93	1434
HTMH-80-4T-5.5	C	S	NO	1.00	45.5%	47.7	4.55	23694	32.11	1441
HTMH-80-4/8T-5.5	C	S	NO	1.00	43.3%	45.4	4.70	23552	31.72	1432
HTMH-80-6T-1.5	C	S	NO	1.00	38.9%	44.4	1.36	15261	12.68	928
HTMH-80-6T-2	B	T	NO	1.00	61.3%	65.9	1.85	24165	17.21	941
HTMH-80-6T-3	B	T	NO	1.00	64.9%	68.9	2.29	26615	20.53	961
HTMH-90-4T-5.5	C	S	NO	1.00	51.0%	53.2	4.50	27512	30.65	1441
HTMH-90-4/8T-5.5	C	S	NO	1.00	48.6%	50.7	4.64	27348	30.28	1433
HTMH-90-4T-7.5	C	S	NO	1.00	47.8%	49.1	6.35	31725	35.17	1459
HTMH-90-4/8T-7.5	C	S	NO	1.00	43.0%	44.0	6.93	31525	34.73	1450
HTMH-90-4T-10 IE3	C	S	NO	1.01	46.3%	47.0	7.81	35188	37.75	1466
HTMH-90-4/8T-9	C	S	NO	1.00	43.0%	43.6	7.86	33548	36.97	1462
HTMH-90-6T-3	C	S	NO	1.00	42.8%	46.8	2.40	23147	16.33	959
HTMH-90-6/12T-3	C	S	NO	1.00	37.5%	41.2	2.64	22863	15.94	947
HTMH-90-6T-4	B	T	NO	1.00	63.7%	66.9	3.21	32972	22.77	964
HTMH-90-6/12T-4	B	T	NO	1.00	55.3%	58.1	3.70	32972	22.77	964
HTMH-90-8T-1	C	S	NO	1.00	36.4%	42.7	1.04	15838	8.76	708
HTMH-90-8T-2	B	T	NO	1.00	58.5%	63.9	1.40	24325	12.38	718
HTMH-100-4T-7.5	C	S	NO	1.00	50.5%	51.7	6.31	33024	35.42	1460
HTMH-100-4/8T-7.5	C	S	NO	1.00	45.4%	46.4	6.89	32817	34.98	1450
HTMH-100-4T-10 IE3	C	S	NO	1.00	49.0%	49.6	8.18	37734	39.02	1465
HTMH-100-4/8T-9	C	S	NO	1.00	45.8%	46.4	7.93	35548	37.50	1462
HTMH-100-4T-15 IE3	C	S	NO	1.01	44.9%	44.8	11.93	44732	43.97	1470
HTMH-100-6T-3	C	S	NO	1.00	45.4%	49.2	2.51	24808	16.87	957
HTMH-100-6/12T-3	C	S	NO	1.00	39.8%	43.3	2.75	24492	16.44	945
HTMH-100-6T-4	C	S	NO	1.00	41.1%	43.8	3.72	29458	19.07	958
HTMH-100-6T-5.5	B	T	NO	1.00	61.3%	63.3	4.86	44005	24.89	959
HTMH-100-6/12T-5.5	B	T	NO	1.00	56.5%	58.2	5.44	44437	25.38	968
HTMH-125-4T/3-10 IE3	C	S	NO	1.00	52.3%	53.2	7.59	41511	35.13	1468
HTMH-125-4T/3-15 IE3	C	S	NO	1.01	56.1%	56.0	11.80	57655	42.19	1471

Erp. Best efficiency point (BEP) characteristics

Model	MC	EC	VSD	SR	ηe[%]	N	[kW]	[m3/h]	[mmH$_2$O]	[RPM]
HTMH-125-4T/3-20 IE3	C	S	NO	1.01	55.2%	54.9	15.29	67316	46.06	1472
HTMH-125-4T/6-15 IE3	C	S	NO	1.01	57.8%	57.8	11.81	48508	51.71	1471
HTMH-125-4T/6-20 IE3	C	S	NO	1.01	56.9%	56.7	14.20	52757	56.25	1474
HTMH-125-4T/9-20 IE3	C	S	NO	1.01	70.4%	70.1	17.44	37304	120.90	1474
HTMH-125-6T/6-5.5	C	S	NO	1.00	53.1%	55.5	4.28	34565	24.14	972
HTMH-125-6T/6-7.5	C	S	NO	1.00	54.7%	56.3	5.53	41832	26.55	974
HTMH-125-6T/6-10 IE3	C	S	NO	1.00	55.2%	55.9	7.84	53067	29.95	972
HTMH-125-6T/6-15 IE3	C	S	NO	1.00	51.2%	51.2	11.09	61349	34.01	972
HTMH-125-6T/9-7.5	C	S	NO	1.00	57.2%	58.8	5.67	36967	32.26	973
HTMH-125-6T/9-10 IE3	C	S	NO	1.00	55.1%	56.2	6.74	48390	28.19	976
HTMH-125-6T/9-15 IE3	C	S	NO	1.00	50.9%	50.9	11.00	61885	33.25	973
HTMH-125-6T/9-20 IE3	C	S	NO	1.01	49.7%	49.5	15.00	69606	39.35	968
HTMH-125-8T/6-4	C	S	NO	1.00	47.4%	50.3	3.53	38680	15.89	709
HTMH-125-8T/6-5.5	C	S	NO	1.00	46.8%	49.1	4.42	42659	17.80	715
HTMH-125-8T/6-7.5	C	S	NO	1.00	45.5%	47.0	5.87	50667	19.37	727
HTMH-125-8T/6-10	B	T	NO	1.00	65.4%	66.1	7.79	65294	28.66	727
HTMH-125-8T/9-5.5	C	S	NO	1.00	44.6%	46.7	4.79	43462	18.07	712
HTMH-125-8T/9-7.5	C	S	NO	1.00	46.5%	48.0	5.75	48507	20.26	728
HTMH-125-8T/9-10	C	S	NO	1.00	45.9%	46.7	7.65	55731	23.16	728
HTMH-125-8T/9-15	B	T	NO	1.00	67.6%	67.6	10.90	72088	37.51	728

Data on the best efficiency point of the internal fan

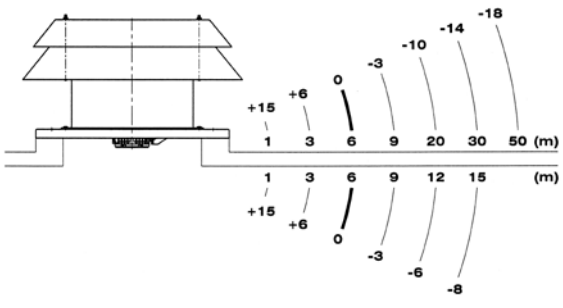
Dimensions mm



Model	A	B	C	D	F	G	H	I
HTMH-56	650	185	465	40	960	900	750	14
HTMH-63	680	215	465	40	1092	1000	850	14
HTMH-71	760	195	565	40	1120	1000	850	14
HTMH-80	790	215	575	50	1252	1150	1000	14
HTMH-90	910	232	678	50	1380	1150	1000	14
HTMH-100	1055	252	803	50	1527	1250	1100	14
HTMH-125	1170	310	859	50	1802	1600	1450	17

Sound pressure validation depending on distance

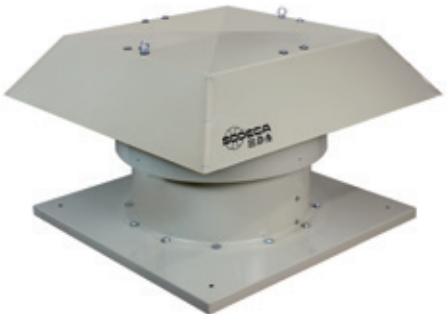
The noise level may vary depending on the roof or tile structure.



Accessories

INT AET VSD3/A-RFT VSD1/A-RFM RT

HTMF



400ºC/2h (F-400) and 300ºC/2h (F-300) rated roof-mounted multifunctional extractor fans

400ºC/2h rated roof-mounted multifunctional extractor fans for work in fire risk zones, designed for smoke extraction in industrial or similar buildings

Fan:
- Painted, galvanised sheet steel support base
- Cast aluminium orientable rotors
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499
- Painted, galvanised sheet steel rain cap, with natural air outlet. Approved based on standard EN 12101-3:2002/AC:2006, with certificate no. 0370-CPR-0544

Motor:
- Class H motors, S1 continuous operation and S2 emergency use, with ball bearings, IP55 protection and with 1 or 2 speeds, depending on model
- Three-phase 230/400V-50Hz (up to 3kW) and 400/690V-50Hz (powers greater than 3kW)
- Maximum temperature of air to be carried: S1 continuous operation -20ºC +40ºC, S2 operation 300ºC/2h, 400ºC/2h

Finish:
- Corrosion-proof finish of polyester resin polymerised at 190ºC, previously degreased with phosphate-free nanotechnological treatment.

Order code

HTMF — 56 — 4T — T — 2 — F-400

- **HTMF**: 400ºC/2h and 300ºC/2h roof-mounted multifunctional extractor fans
- **56**: Rotor diameter in cm
- **4T**: Number of motor poles
  2=2900 r/min. 50 Hz
  4=1400 r/min. 50 Hz
  6=900 r/min. 50 Hz
  8=750 r/min. 50 Hz
  12=500 r/min. 50 Hz
- **T**: T=Three-phase
- **2**: Maximum power (HP)
- **F-400**: F-300: Approval. Tested for 300ºC/2h
  F-400: Approval 400ºC/2h

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A) 230V	400V	690V	Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure (1) level dB(A) Aspiration	Discharge	Approx. weight (Kg)
HTMF-56-4T-1	1430	3,80	2,20		0,75	10545	62	59	65
HTMF-56-4T-1,5	1420	4,70	2,70		1,10	11400	63	60	71
HTMF-56-4/8T-1,5	1440 / 710		2,90 / 1,40		1,10 / 0,25	11400 / 5700	63 / 48	60 / 45	75
HTMF-56-6T-0,75	930	3,30	1,90		0,55	8170	51	49	64
HTMF-63-4T-1,5	1420	4,70	2,70		1,10	13870	65	62	83
HTMF-63-4/8T-1,5	1440 / 710		2,90 / 1,40		1,10 / 0,25	13870 / 6935	65 / 50	62 / 47	87
HTMF-63-4T-2	1425	6,60	3,80		1,50	15485	66	63	85
HTMF-63-4/8T-2	1415 / 715		3,60 / 1,50		1,50 / 0,30	15485 / 7742	66 / 51	63 / 48	90
HTMF-63-4T-3	1435	9,20	5,30		2,20	17955	67	64	90
HTMF-63-4/8T-3	1415 / 715		5,20 / 1,90		2,20 / 0,45	17955 / 8977	67 / 52	64 / 49	103
HTMF-63-6T-0,75	930	3,30	1,90		0,55	10260	56	54	76
HTMF-63-6T-1	940	4,40	2,60		0,75	11305	57	55	85
HTMF-71-4T-2	1425	6,60	3,80		1,50	16150	69	66	90
HTMF-71-4/8T-2	1415 / 715		3,60 / 1,50		1,50 / 0,30	16150 / 8075	69 / 54	66 / 51	96
HTMF-71-4T-3	1435	9,20	5,30		2,20	18430	71	68	96
HTMF-71-4/8T-3	1415 / 715		5,20 / 1,90		2,20 / 0,45	18430 / 9215	71 / 56	68 / 53	109
HTMF-71-4T-4	1430	11,40	6,60		3,00	22610	72	69	100
HTMF-71-4/8T-4	1420 / 705		6,90 / 2,30		3,00 / 0,60	22610 / 11305	72 / 57	69 / 54	111

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A) 230V	400V	690V	Installed power (kW)	Maximum flow rate (m^3/h)	Sound pressure (1) level dB(A) Aspiration	Discharge	Approx. weight (Kg)
HTMF-71-6T-1	940	4,40	2,60		0,75	13205	58	56	90
HTMF-71-6T-1,5	945	6,40	3,70		1,10	16245	59	57	92
HTMF-80-4T-4	1430	11,40	6,60		3,00	27600	73	70	123
HTMF-80-4/8T-4	1420 / 705		6,90 / 2,30		3,00 / 0,60	27600 / 13800	73 / 58	70 / 55	134
HTMF-80-4T-5,5	1440		8,40	4,85	4,00	30176	74	71	134
HTMF-80-4/8T-5,5	1450 / 720		9,40 / 3,50		4,00 / 0,80	30176 / 15088	74 / 59	71 / 56	138
HTMF-80-6T-1,5	945	6,40	3,70		1,10	19412	62	60	115
HTMF-80-6T-2	945	7,40	4,30		1,50	22172	63	61	120
HTMF-80-6T-3	950	10,30	5,90		2,20	24932	64	62	134
HTMF-80-8T-1	710	4,80	2,80		0,75	16376	61	60	132
HTMF-90-4T-5,5	1440		8,40	4,85	4,00	35052	79	76	156
HTMF-90-4/8T-5,5	1450 / 720		9,40 / 3,50		4,00 / 0,80	35052 / 17526	79 / 64	76 / 61	160
HTMF-90-4T-7,5	1430		11,50	6,64	5,50	38456	81	78	161
HTMF-90-4/8T-7,5	1455 / 725		12,80 / 4,60		5,50 / 1,10	38456 / 19228	81 / 66	78 / 63	207
HTMF-90-4T-10	1460		17,70	10,22	7,50	41308	82	79	225
HTMF-90-4/8T-9	1455 / 725		15,50 / 5,50		6,70 / 1,50	41308 / 20654	82 / 67	79 / 64	215
HTMF-90-6T-3	950	10,30	5,90		2,20	29256	68	66	156
HTMF-90-6/12T-3	940 / 470		5,60 / 2,20		2,20 / 0,37	29256 / 14628	68 / 53	66 / 51	161
HTMF-90-6T-4	945	15,00	8,70		3,00	32016	69	67	164
HTMF-90-6/12T-4	970 / 475		8,90 / 3,50		3,00 / 0,55	32016 / 16008	69 / 54	67 / 52	188
HTMF-90-8T-1	710	4,80	2,80		0,75	17020	61	60	154
HTMF-90-8T-2	700	9,00	5,20		1,50	19596	63	62	158
HTMF-100-4T-7,5	1430		11,50	6,64	5,50	40756	84	81	185
HTMF-100-4/8T-7,5	1455 / 725		12,80 / 4,60		5,50 / 1,10	40756 / 20378	84 / 69	81 / 66	231
HTMF-100-4T-10	1460		17,70	10,22	7,50	47564	85	82	249
HTMF-100-4/8T-9	1455 / 725		15,50 / 5,50		6,70 / 1,50	44528 / 22264	84 / 69	81 / 66	239
HTMF-100-4T-15	1455		23,00	13,28	11,00	51336	86	83	268
HTMF-100-4/8T-14	1470 / 725		23,20 / 8,70		11,00 / 2,80	48300 / 24150	85 / 70	82 / 67	280
HTMF-100-6T-3	950	10,30	5,90		2,20	32476	74	72	180
HTMF-100-6/12T-3	940 / 470		5,60 / 2,20		2,20 / 0,37	32476 / 16238	74 / 59	72 / 57	185
HTMF-100-6T-4	945	15,00	8,70		3,00	35420	75	73	188
HTMF-100-6/12T-4	970 / 475		8,90 / 3,50		3,00 / 0,55	35420 / 17710	75 / 60	73 / 58	212
HTMF-100-6T-5,5	970		11,00	6,35	4,00	40020	76	74	212
HTMF-100-6/12T-5,5	970 / 480		11,30 / 4,20		4,00 / 0,65	40020 / 20010	76 / 61	74 / 59	239
HTMF-100-8T-3	705	13,20	7,60		2,20	26404	69	68	189
HTMF-100-8T-4	710	15,60	9,00		3,00	28704	70	69	249
HTMF-THT-125-4T/3-10	1460		13,90	8,06	7,50	55250	75	72	333
HTMF-THT-125-4T/3-15	1470		20,90	12,10	11,00	72150	76	73	372
HTMF-THT-125-4T/3-20	1465		27,90	16,20	15,00	83120	78	75	394
HTMF-THT-125-4T/6-15	1470		20,90	12,10	11,00	66800	76	73	388
HTMF-THT-125-4T/6-20	1465		27,90	16,20	15,00	72900	76	73	410
HTMF-THT-125-4T/9-20	1465		27,90	16,20	15,00	76310	75	72	425
HTMF-THT-125-6T/6-5,5	970		11,00	6,35	4,00	47760	63	61	347
HTMF-THT-125-6T/6-7,5	970		14,00	8,08	5,50	55600	63	61	384
HTMF-THT-125-6T/6-10	975		14,80	8,58	7,50	66170	65	63	393
HTMF-THT-125-6T/6-15	975		21,90	12,70	11,00	76380	67	65	415
HTMF-THT-125-6T/9-7,5	970		14,00	8,08	5,50	50000	64	62	399
HTMF-THT-125-6T/9-10	975		14,80	8,58	7,50	59340	64	62	408
HTMF-THT-125-6T/9-15	975		21,90	12,70	11,00	71890	67	65	430
HTMF-THT-125-6T/9-20	975		28,20	16,30	15,00	83660	70	68	475
HTMF-THT-125-8T/6-4	710	15,60	9,00		3,00	47510	56	55	384
HTMF-THT-125-8T/6-5,5	710		13,00	7,51	4,00	52770	58	57	404
HTMF-THT-125-8T/6-7,5	710		15,10	8,72	5,50	60410	60	59	416
HTMF-THT-125-8T/6-10	715		20,60	11,89	7,50	66030	61	60	424
HTMF-THT-125-8T/9-5,5	710		13,00	7,51	4,00	51330	58	57	419
HTMF-THT-125-8T/9-7,5	710		15,10	8,72	5,50	54480	61	60	431
HTMF-THT-125-8T/9-10	715		20,60	11,89	7,50	65660	63	62	439
HTMF-THT-125-8T/9-15	725		21,70	12,53	11,00	73870	64	63	445

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Erp. Best efficiency point (BEP) characteristics

MC	Measurement category	**ηe[%]**	Efficiency
EC	Efficiency category	**N**	Efficiency grade
	S Static	**[kW]**	Electric power
	T Total	**[m³/h]**	Flow rate
VSD	Variable speed drive	**[mmH$_2$O]**	Static or total pressure (based on EC)
SR	Specific ratio	**[RPM]**	Speed

Model	MC	EC	VSD	SR	ηe[%]	N	(kW)	(m³/h)	(mmH$_2$O)	(RPM)
HTMF-56-4T-1	C	S	NO	1.00	35.4%	38.2	0.85	7901	14,07	1443
HTMF-56-4T-1.5	B	T	NO	1.00	48.5%	49.7	1.16	11340	18,14	1438
HTMF-56-4/8T-1.5	B	T	NO	1.00	44.9%	46.9	1.33	11588	18,94	1449
HTMF-56-6T-0.75	B	T	NO	1.00	42.7%	45.4	0.52	9212	8,77	955
HTMF-63-4T-1.5	C	S	NO	1.00	48.2%	49.6	1.11	10387	18,88	1440
HTMF-4-4/8T-1.5	C	S	NO	1.00	41.3%	46.6	1.38	10605	19,68	1447
HTMF-63-4T-2	C	S	NO	1.00	42.4%	41.9	1.54	12016	20,00	1444
HTMF-4-4/8T-2	C	S	NO	1.00	37.2%	41.7	1.70	11892	19,59	1430
HTMF-63-4T-3	B	T	NO	1.00	62.4%	62.1	2.19	19423	25,86	1450
HTMF-63-4/8T-3	B	T	NO	1.00	56.0%	58.2	2.42	19373	25,73	1432
HTMF-63-6T-0.75	B	T	NO	1.00	56.1%	58.6	0.55	11393	9,86	956
HTMF-63-6T-1	B	T	NO	1.00	54.9%	55.3	0.80	13916	11,57	957
HTMF-71-4T-2	C	S	NO	1.00	48.5%	47.3	1.49	13409	19,84	1446
HTMF-71-4/8T-2	C	S	NO	1.00	42.6%	47.1	1.65	13275	19,45	1433
HTMF-71-4T-3	C	S	NO	1.00	44.7%	45.7	2.16	16356	21,67	1450
HTMF-71-4/8T-3	C	S	NO	1.00	40.1%	42.8	2.39	16314	21,56	1433
HTMF-71-4T-4	B	T	NO	1.00	68.4%	66.3	2.87	23676	30,48	1447
HTMF-71-4/8T-4	B	T	NO	1.00	61.6%	65.2	3.24	23797	30,80	1433
HTMF-71-6T-1	B	T	NO	1.00	62.4%	61.1	0.82	14945	12,60	957
HTMF-71-6T-1.5	B	T	NO	1.00	59.2%	59.1	1.15	18001	13,88	960
HTMF-80-4T-4	C	S	NO	1.00	46.9%	46.2	3.22	20108	27,62	1441
HTMF-80-4/8T-4	C	S	NO	1.00	42.3%	45.4	3.64	20222	27,93	1424
HTMF-80-4T-5.5	C	S	NO	1.00	45.5%	45.1	4.55	23694	32,11	1444
HTMF-80-4/8T-5.5	C	S	NO	1.00	43.3%	40.8	4.70	23552	31,72	1457
HTMF-80-6T-1.5	C	S	NO	1.00	38.9%	40.4	1.36	15261	12,68	953
HTMF-80-6T-2	B	T	NO	1.00	61.3%	61.4	1.85	24165	17,21	950
HTMF-80-6T-3	B	T	NO	1.00	64.9%	63.5	2.29	26615	20,53	960
HTMF-80-8T-1	B	T	NO	1.00	51.2%	56.4	1.13	18865	11,24	710
HTMF-90-4T-5.5	C	S	NO	1.00	51.0%	50.3	4.50	27512	30,65	1445
HTMF-90-4/8T-5.5	C	S	NO	1.00	48.6%	45.5	4.64	27348	30,28	1457
HTMF-90-4T-7.5	C	S	NO	1.00	47.8%	45.3	6.35	31725	35,17	1435
HTMF-90-4/8T-7.5	C	S	NO	1.00	43.0%	40.2	6.93	31525	34,73	1459
HTMF-90-4T-10	C	S	NO	1.01	45.4%	38.4	7.97	35188	37,75	1469
HTMF-90-4/8T-9	C	S	NO	1.00	43.0%	39.2	7.86	33548	36,97	1461
HTMF-90-6T-3	C	S	NO	1.00	42.8%	43.2	2.40	23147	16,33	958
HTMF-90-6/12T-3	C	S	NO	1.00	37.5%	41.4	2.64	22863	15,94	947
HTMF-90-6T-4	B	T	NO	1.00	63.7%	58.5	3.21	32972	22,77	957
HTMF-90-6/12T-4	B	T	NO	1.00	55.3%	57.4	3.70	32972	22,77	973
HTMF-90-8T-1	C	S	NO	1.00	36.4%	42.1	1.04	15838	8,76	713
HTMF-90-8T-2	B	T	NO	1.00	58.5%	55.4	1.40	24325	12,38	720
HTMF-100-4T-7.5	C	S	NO	1.00	50.5%	47.7	6.31	33024	35,42	1435
HTMF-100-4/8T-7.5	C	S	NO	1.00	45.4%	42.3	6.89	32817	34,98	1459
HTMF-100-4T-10	C	S	NO	1.00	48.1%	38.9	8.33	37734	39,02	1468
HTMF-100-4/8T-9	C	S	NO	1.00	45.8%	41.8	7.93	35548	37,50	1461
HTMF-100-4T-15	C	S	NO	1.01	44.1%	40.6	12.15	44732	43,97	1459
HTMF-100-4/8T-14	C	S	NO	1.01	39.0%	40.9	14.13	45164	44,82	1468
HTMF-100-6T-3	C	S	NO	1.00	45.4%	45.4	2.51	24808	16,87	956
HTMF-100-6/12T-3	C	S	NO	1.00	39.8%	43.6	2.75	24492	16,44	944
HTMF-100-6T-4	C	S	NO	1.00	41.1%	38.5	3.72	29458	19,07	950
HTMF-100-6/12T-4	C	S	NO	1.00	35.7%	38.1	4.29	29458	19,07	969
HTMF-100-6T-5.5	B	T	NO	1.00	61.3%	57.5	4.86	44005	24,89	972
HTMF-100-6/12T-5.5	B	T	NO	1.00	56.5%	55.4	5.44	44437	25,38	970
HTMF-100-8T-3	B	T	NO	1.00	52.5%	55.1	2.67	33957	15,20	710
HTMF-100-8T-4	B	T	NO	1.00	54.2%	55.3	2.77	41581	13,28	722
HTMF-THT-125-4T/3-10	C	S	NO	1.00	52.3%	53.2	7.59	41511	35.13	1468
HTMF-THT-125-4T/3-15	C	S	NO	1.01	56.1%	56.0	11.80	57655	42.19	1471
HTMF-THT-125-4T/3-20	C	S	NO	1.01	55.2%	54.9	15.29	67316	46.06	1472
HTMF-THT-125-4T/6-15	C	S	NO	1.01	57.8%	57.8	11.81	48508	51.71	1471
HTMF-THT-125-4T/6-20	C	S	NO	1.01	56.9%	56.7	14.20	52757	56.25	1474

Erp. Best efficiency point (BEP) characteristics

Model	MC	EC	VSD	SR	ηe[%]	N	(kW)	(m^3/h)	(mmH_2O)	(RPM)
HTMF-THT-125-4T/9-20	C	S	NO	1.01	70.4%	70.1	17.44	37304	120.90	1474
HTMF-THT-125-6T/6-5.5	C	S	NO	1.00	53.1%	55.5	4.28	34565	24.14	972
HTMF-THT-125-6T/6-7.5	C	S	NO	1.00	54.7%	56.3	5.53	41832	26.55	974
HTMF-THT-125-6T/6-10	C	S	NO	1.00	55.2%	55.9	7.84	53067	29.95	972
HTMF-THT-125-6T/6-15	C	S	NO	1.00	51.2%	51.2	11.09	61349	34.01	972
HTMF-THT-125-6T/9-7.5	C	S	NO	1.00	57.2%	58.8	5.67	36967	32.26	973
HTMF-THT-125-6T/9-10	C	S	NO	1.00	55.1%	56.2	6.74	48390	28.19	976
HTMF-THT-125-6T/9-15	C	S	NO	1.00	50.9%	50.9	11.00	61885	33.25	973
HTMF-THT-125-6T/9-20	C	S	NO	1.01	49.7%	49.5	15.00	69606	39.35	968
HTMF-THT-125-8T/6-4	C	S	NO	1.00	47.4%	50.3	3.53	38680	15.89	709
HTMF-THT-125-8T/6-5.5	C	S	NO	1.00	46.8%	49.1	4.42	42659	17.80	715
HTMF-THT-125-8T/6-7.5	C	S	NO	1.00	45.5%	47.0	5.87	50667	19.37	727
HTMF-THT-125-8T/6-10	B	T	NO	1.00	65.4%	66.1	7.79	65294	28.66	727
HTMF-THT-125-8T/9-5.5	C	S	NO	1.00	44.6%	46.7	4.79	43462	18.07	712
HTMF-THT-125-8T/9-7.5	C	S	NO	1.00	46.5%	48.0	5.75	48507	20.26	728
HTMF-THT-125-8T/9-10	C	S	NO	1.00	45.9%	46.7	7.65	55731	23.16	728
HTMF-THT-125-8T/9-15	B	T	NO	1.00	67.6%	67.6	10.90	72088	37.51	728

Internal fan data

Acoustic characteristics

Values taken during aspiration with maximum flow rate

Noise power spectrum Lw(A) in dB(A) per Hz frequency band.

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	46	67	74	79	82	78	71	60
56-4-1.5	47	68	75	80	83	79	72	61
56-6-0.75	35	56	63	68	71	67	60	49
56-8-1.5	32	53	60	65	68	64	57	46
63-4-1.5	49	70	77	82	85	81	74	63
63-4-2	50	71	78	83	86	82	75	64
63-4-3	51	72	79	84	87	83	76	65
63-6-0.75	40	61	68	73	76	72	65	54
63-6-1	41	62	69	74	77	73	66	55
63-8-1.5	34	55	62	67	70	66	59	48
63-8-2	35	56	63	68	71	67	60	49
63-8-3	36	57	64	69	72	68	61	50
71-4-2	53	74	81	86	89	85	78	67
71-4-3	55	76	83	88	91	87	80	69
71-4-4	56	77	84	89	92	88	81	70
71-6-1	42	63	70	75	78	74	67	56
71-6-1.5	43	64	71	76	79	75	68	57
71-8-2	38	59	66	71	74	70	63	52
71-8-3	40	61	68	73	76	72	65	54
71-8-4	41	62	69	74	77	73	66	55
80-4-4	57	78	85	90	93	89	82	71
80-4-5.5	58	79	86	91	94	90	83	72
80-6-1.5	46	67	74	79	82	78	71	60
80-6-2	47	68	75	80	83	79	72	61
80-6-3	48	69	76	81	84	80	73	62
80-8-1	45	66	73	78	81	77	70	59
80-8-4	42	63	70	75	78	74	67	56
80-8-5.5	43	64	71	76	79	75	68	57
90-4-5.5	63	84	91	96	99	95	88	77
90-4-7.5	65	86	93	98	101	97	90	79
90-4-9	66	87	94	99	102	98	91	80
90-4-10	66	87	94	99	102	98	91	80
90-6-3	52	73	80	85	88	84	77	66
90-6-4	53	74	81	86	89	85	78	67
90-8-1	45	66	73	78	81	77	70	59
90-8-2	47	68	75	80	83	79	72	61
90-8-5.5	48	69	76	81	84	80	73	62
90-8-7.5	50	71	78	83	86	82	75	64
90-8-9	51	72	79	84	87	83	76	65

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	43	64	71	76	79	75	68	57
56-4-1.5	44	65	72	77	80	76	69	58
56-6-0.75	33	54	61	66	69	65	58	47
56-8-1.5	29	50	57	62	65	61	54	43
63-4-1.5	46	67	74	79	82	78	71	60
63-4-2	47	68	75	80	83	79	72	61
63-4-3	48	69	76	81	84	80	73	62
63-6-0.75	38	59	66	71	74	70	63	52
63-6-1	39	60	67	72	75	71	64	53
63-8-1.5	31	52	59	64	67	63	56	45
63-8-2	32	53	60	65	68	64	57	46
63-8-3	33	54	61	66	69	65	58	47
71-4-2	50	71	78	83	86	82	75	64
71-4-3	52	73	80	85	88	84	77	66
71-4-4	53	74	81	86	89	85	78	67
71-6-1	40	61	68	73	76	72	65	54
71-6-1.5	41	62	69	74	77	73	66	55
71-8-2	35	56	63	68	71	67	60	49
71-8-3	37	58	65	70	73	69	62	51
71-8-4	38	59	66	71	74	70	63	52
80-4-4	54	75	82	87	90	86	79	68
80-4-5.5	55	76	83	88	91	87	80	69
80-6-1.5	44	65	72	77	80	76	69	58
80-6-2	45	66	73	78	81	77	70	59
80-6-3	46	67	74	79	82	78	71	60
80-8-1	44	65	72	77	80	76	69	58
80-8-4	39	60	67	72	75	71	64	53
80-8-5.5	40	61	68	73	76	72	65	54
90-4-5.5	60	81	88	93	96	92	85	74
90-4-7.5	62	83	90	95	98	94	87	76
90-4-9	63	84	91	96	99	95	88	77
90-4-10	63	84	91	96	99	95	88	77
90-6-3	50	71	78	83	86	82	75	64
90-6-4	51	72	79	84	87	83	76	65
90-8-1	44	65	72	77	80	76	69	58
90-8-2	46	67	74	79	82	78	71	60
90-8-5.5	45	66	73	78	81	77	70	59
90-8-7.5	47	68	75	80	83	79	72	61
90-8-9	48	69	76	81	84	80	73	62

Acoustic characteristics

Values taken during aspiration with maximum flow rate

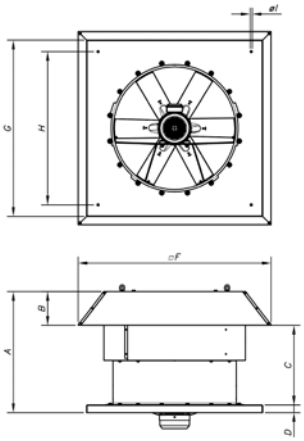
Values taken during discharge with maximum flow rate

Noise power spectrum Lw(A) in dB(A) per Hz frequency band.

Model	63	125	250	500	1000	2000	4000	8000
90-12-3	37	58	65	70	73	69	62	51
90-12-4	38	59	66	71	74	70	63	52
100-4-7.5	68	89	96	101	104	100	93	82
100-4-9	68	89	96	101	104	100	93	82
100-4-10	69	90	97	102	105	101	94	83
100-4-14	69	90	97	102	105	101	94	83
100-4-15	70	91	98	103	106	102	95	84
100-6-3	58	79	86	91	94	90	83	72
100-6-4	59	80	87	92	95	91	84	73
100-6-5.5	60	81	88	93	96	92	85	74
100-8-3	53	74	81	86	89	85	78	67
100-8-4	54	75	82	87	90	86	79	68
100-8-7.5	53	74	81	86	89	85	78	67
100-8-9	53	74	81	86	89	85	78	67
100-8-14	54	75	82	87	90	86	79	68
100-12-3	43	64	71	76	79	75	68	57
100-12-4	44	65	72	77	80	76	69	58
100-12-5.5	45	66	73	78	81	77	70	59
125-4T/3-10	66	73	84	94	95	90	82	78
125-4T/3-15	67	74	85	95	96	91	83	79
125-4T/3-20	69	76	87	97	98	93	85	81
125-4T/6-15	63	72	87	94	97	91	85	81
125-4T/6-20	63	72	87	94	97	91	85	81
125-4T/9-20	62	71	87	93	95	89	84	80
125-6T/6-5,5	56	66	78	81	83	79	68	64
125-6T/6-7,5	56	66	78	81	83	79	68	64
125-6T/6-10	58	68	80	83	85	81	70	66
125-6T/6-15	60	70	82	85	87	83	72	68
125-6T/9-7.5	54	65	79	83	83	81	70	66
125-6T/9-10	54	65	79	83	83	81	70	66
125-6T/9-15	57	68	82	86	86	84	73	69
125-6T/9-20	60	71	85	89	89	87	76	72
125-8T/6-4	50	59	70	75	75	69	58	54
125-8T/6-5.5	52	61	72	77	77	71	60	56
125-8T/6-7.5	54	63	74	79	79	73	62	58
125-8T/6-10	55	64	75	80	80	74	63	59
125-8T/9-5.5	49	61	70	76	78	72	61	57
125-8T/9-7.5	52	64	73	79	81	75	64	60
125-8T/9-10	54	66	75	81	83	77	66	62
125-8T/9-15	55	67	76	82	84	78	67	63

Model	63	125	250	500	1000	2000	4000	8000
90-12-3	35	56	63	68	71	67	60	49
90-12-4	36	57	64	69	72	68	61	50
100-4-7.5	65	86	93	98	101	97	90	79
100-4-9	65	86	93	98	101	97	90	79
100-4-10	66	87	94	99	102	98	91	80
100-4-14	66	87	94	99	102	98	91	80
100-4-15	67	88	95	100	103	99	92	81
100-6-3	56	77	84	89	92	88	81	70
100-6-4	57	78	85	90	93	89	82	71
100-6-5.5	58	79	86	91	94	90	83	72
100-8-3	52	73	80	85	88	84	77	66
100-8-4	53	74	81	86	89	85	78	67
100-8-7.5	50	71	78	83	86	82	75	64
100-8-9	50	71	78	83	86	82	75	64
100-8-14	51	72	79	84	87	83	76	65
100-12-3	41	62	69	74	77	73	66	55
100-12-4	42	63	70	75	78	74	67	56
100-12-5.5	43	64	71	76	79	75	68	57
125-4T/3-10	63	70	81	91	92	87	79	75
125-4T/3-15	64	71	82	92	93	88	80	76
125-4T/3-20	66	73	84	94	95	90	82	78
125-4T/6-15	60	69	84	91	94	88	82	78
125-4T/6-20	60	69	84	91	94	88	82	78
125-4T/9-20	59	68	84	90	92	86	81	77
125-6T/6-5,5	54	64	76	79	81	77	66	62
125-6T/6-7.5	54	64	76	79	81	77	66	62
125-6T/6-10	56	66	78	81	83	79	68	64
125-6T/6-15	58	68	80	83	85	81	70	66
125-6T/9-7.5	52	63	77	81	81	79	68	64
125-6T/9-10	52	63	77	81	81	79	68	64
125-6T/9-15	55	66	80	84	84	82	71	67
125-6T/9-20	58	69	83	87	87	85	74	70
125-8T/6-4	49	58	69	74	74	68	57	53
125-8T/6-5.5	51	60	71	76	76	70	59	55
125-8T/6-7.5	53	62	73	78	78	72	61	57
125-8T/6-10	54	63	74	79	79	73	62	58
125-8T/9-5.5	48	60	69	75	77	71	60	56
125-8T/9-7.5	51	63	72	78	80	74	63	59
125-8T/9-10	53	65	74	80	82	76	65	61
125-8T/9-15	54	66	75	81	83	77	66	62

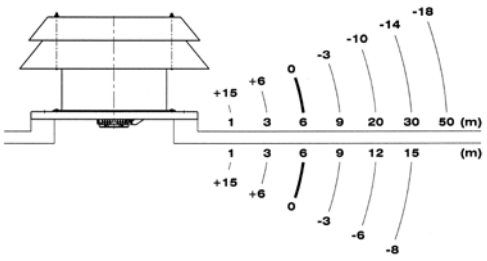
Dimensions mm



	A	B	C	D	F	G	H	I
HTMF-56	650	185	465	40	960	900	750	14
HTMF-63	680	215	465	40	1092	1000	850	14
HTMF-71	760	195	565	40	1120	1000	850	14
HTMF-80	790	215	575	50	1252	1150	1000	14
HTMF-90	910	232	678	50	1380	1150	1000	14
HTMF-100	1055	252	803	50	1527	1250	1100	14
HTMF-125	1170	310	859	50	1802	1600	1450	17

Sound pressure validation depending on distance

The noise level may vary depending on the roof or tile structure.



Accessories

See accessories section

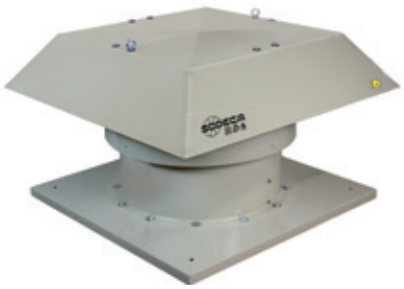
ROOF-MOUNTED ATEX EXTRACTOR FANS

HTMH/ATEX

Roof-mounted multifunctional extractor fans for large flow rates with ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking

exempt ErP

Ex "e" marking: CE Ex II 2G Ex e
Ex "d" marking: CE Ex II 2G Ex d
Ex tc marking: CE Ex II 3D Ex tc
Ex tb marking: CE Ex II 2D Ex tb
Notified Body: L.O.M.
Identification no.:
LOM03ATEX0157



Robust multifunctional extractor fans for large extraction operation with large flow rates and with ATEX Certification, CEE ExII2G Ex explosion-proof and CEE ExII2G Ex d, Ex tc, or Ex tb non-sparking motor for working in explosive atmospheres containing dust or gas.

Fan:
- Painted, galvanised sheet steel support base
- Cast aluminium orientable rotors
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499
- Painted, galvanised sheet steel rain cap, with natural air outlet

Motor:
- ATEX-certified, Ex e explosion-proof, Ex d, Ex tc or Ex tb non-sparking class F motors with ball bearings
- Single-phase 220230V-50Hz and three-phase 230-240V/380400V-50Hz (up to 4 kW) and 400/690V-50Hz (powers greater than 4 kW)
- Operating temperature: -20ºC +40ºC

Finish:
- ATEX corrosion-proof, with non-ferric paint finish of polyester resin polymerised at 190ºC, previously degreased with phosphate-free nanotechnological treatment.

On request:
- Made entirely of stainless steel
- Made of hot-dip galvanised steel
- Motors with built-in PTC
- Special windings for different voltages and frequencies
- ATEX construction for different categories
- Extractor fans with 2-speed motors
- Single-phase, Ex d non-sparking motors

Order code

HTMH/ATEX — 56 — 4T — 2 — Ex-e

- **HTMH/ATEX**: Roof-mounted multifunctional extractor fans
  Marking:
  CE Ex II 2G c
  CE Ex II 2D c
  CE Ex II 3D c
- **56**: Rotor diameter in cm
- **4T**: Number of motor poles
  4=1400 r/min. 50 Hz
  6=900 r/min. 50 Hz
- **2**: T=Three-phase
- **Ex-e**: Motor power (HP)
  Ex-e marking:
  CE Ex II 2G Ex e IIB T3
  Ex "d" marking:
  CE Ex II 2G Ex d IIB T5
  Ex tc marking:
  CE Ex II 3D Ex tc
  Ex tb marking:
  CE Ex II 2D Ex tb

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Aspiration	Discharge	(Kg)
HTMH/ATEX-56-4T-1	1410	3.81	2.20		0.75	10545	62	59	63
HTMH/ATEX-56-4T-1.5	1410	5.20	3.00		1.10	11400	63	60	65
HTMH/ATEX-56-6T-0.75	930	3.46	2.00		0.55	8170	51	49	63
HTMH/ATEX-63-4T-1.5	1410	5.20	3.00		1.10	13870	65	62	77
HTMH/ATEX-63-4T-2	1400	6.93	4.00		1.50	15485	66	63	80
HTMH/ATEX-63-4T-3	1410	9.01	5.20		2.20	17955	67	64	86
HTMH/ATEX-63-6T-0.75	930	3.46	2.00		0.55	10260	56	54	75
HTMH/ATEX-63-6T-1	930	4.16	2.40		0.75	11305	57	55	77
HTMH/ATEX-71-4T-2	1400	6.93	4.00		1.50	16150	69	66	85
HTMH/ATEX-71-4T-3	1410	9.01	5.20		2.20	18430	71	68	92
HTMH/ATEX-71-4T-4	1440	12.30	7.10		3.00	22610	72	69	95
HTMH/ATEX-71-6T-1	930	4.16	2.40		0.75	13205	58	56	82
HTMH/ATEX-71-6T-1.5	910	5.89	3.40		1.10	16245	59	57	86
HTMH/ATEX-80-4T-4	1440	12.30	7.10		3.00	27600	73	70	118
HTMH/ATEX-80-4T-5.5	1450	15.76	9.10		4.00	30176	74	71	124
HTMH/ATEX-80-6T-1.5	910	5.89	3.40		1.10	19412	62	60	109

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Aspiration	Discharge	(Kg)
HTMH/ATEX-80-6T-2	940	7.62	4.40		1.50	22172	63	61	113
HTMH/ATEX-80-6T-3	940	9.35	5.40		2.20	24932	64	62	119
HTMH/ATEX-90-4T-5.5	1450	15.76	9.10		4.00	35052	79	76	147
HTMH/ATEX-90-4T-7.5	1440		12.00	6.93	5.50	38456	81	78	151
HTMH/ATEX-90-4T-10	1448		16.30	9.41	7.50	41308	82	79	163
HTMH/ATEX-90-6T-3	940	9.35	5.40		2.20	29256	68	66	142
HTMH/ATEX-90-6T-4	945	14.72	8.50		3.00	32016	69	67	153
HTMH/ATEX-100-4T-7.5	1440		12.00	6.93	5.50	40756	84	81	175
HTMH/ATEX-100-4T-10	1448		16.30	9.41	7.50	47564	85	82	187
HTMH/ATEX-100-4T-15	1460		23.80	13.74	11.00	51336	86	83	249
HTMH/ATEX-100-6T-3	940	9.35	5.40		2.20	32476	74	72	166
HTMH/ATEX-100-6T-4	945	14.72	8.50		3.00	35420	75	73	176
HTMH/ATEX-100-6T-5.5	950	18.88	10.90		4.00	40020	76	74	185
HTMH/ATEX-125-4T/3-10	1448		16.30	9.41	7.50	55250	75	72	271
HTMH/ATEX-125-4T/3-15	1460		23.80	13.74	11.00	72150	76	73	353
HTMH/ATEX-125-4T/3-20	1450		30.60	17.67	15.00	83120	78	75	377
HTMH/ATEX-125-4T/6-15	1460		23.80	13.74	11.00	66800	76	73	357
HTMH/ATEX-125-4T/6-20	1450		30.60	17.67	15.00	72900	76	73	393
HTMH/ATEX-125-4T/9-20	1450		30.60	17.67	15.00	76310	75	72	408
HTMH/ATEX-125-6T/6-5.5	950	18.88	10.90		4.00	47760	63	61	320
HTMH/ATEX-125-6T/6-7.5	950		14.00	8.08	5.50	55600	63	61	330
HTMH/ATEX-125-6T/6-10	965		16.40	9.47	7.50	66170	65	63	313
HTMH/ATEX-125-6T/6-15	965		23.30	13.45	11.00	76380	67	65	389
HTMH/ATEX-125-6T/9-7.5	950		14.00	8.08	5.50	50000	64	62	345
HTMH/ATEX-125-6T/9-10	965		16.40	9.47	7.50	59340	64	62	328
HTMH/ATEX-125-6T/9-15	965		23.30	13.45	11.00	71890	67	65	404
HTMH/ATEX-125-6T/9-20	972		29.70	17.10	15.00	83660	70	68	621

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

Noise power spectrum Lw(A) in dB(A) per Hz frequency band

Values taken during aspiration with 2/3 maximum flow rate (2/3Qmax)

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	46	67	74	79	82	78	71	60
56-4-1,5	47	68	75	80	83	79	72	61
56-6-0,75	35	56	63	68	71	67	60	49
63-4-1,5	49	70	77	82	85	81	74	63
63-4-2	50	71	78	83	86	82	75	64
63-4-3	51	72	79	84	87	83	76	65
63-6-0,75	40	61	68	73	76	72	65	54
63-6-1	41	62	69	74	77	73	66	55
71-4-2	53	74	81	86	89	85	78	67
71-4-3	55	76	83	88	91	87	80	69
71-4-4	56	77	84	89	92	88	81	70
71-6-1	42	63	70	75	78	74	67	56
71-6-1,5	43	64	71	76	79	75	68	57
80-4-4	57	78	85	90	93	89	82	71
80-4-5,5	58	79	86	91	94	90	83	72
80-6-1,5	46	67	74	79	82	78	71	60
80-6-2	47	68	75	80	83	79	72	61
80-6-3	48	69	76	81	84	80	73	62
90-4-5,5	63	84	91	96	99	95	88	77
90-4-7,5	65	86	93	98	101	97	90	79
90-4-9	66	87	94	99	102	98	91	80
90-4-10	66	87	94	99	102	98	91	80
90-6-3	52	73	80	85	88	84	77	66
90-6-4	53	74	81	86	89	85	78	67
100-4-7,5	68	89	96	101	104	100	93	82
100-4-9	68	89	96	101	104	100	93	82
100-4-10	69	90	97	102	105	101	94	83
100-4-14	69	90	97	102	105	101	94	83
100-4-15	70	91	98	103	106	102	95	84
100-6-3	58	79	86	91	94	90	83	72
100-6-4	59	80	87	92	95	91	84	73
100-6-5,5	60	81	88	93	96	92	85	74
125-4T/3-10	66	73	84	94	95	90	82	78
125-4T/3-15	67	74	85	95	96	91	83	79
125-4T/3-20	69	76	87	97	98	93	85	81

Values taken during discharge with 2/3 maximum flow rate (2/3Qmax)

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	43	64	71	76	79	75	68	57
56-4-1,5	44	65	72	77	80	76	69	58
56-6-0,75	33	54	61	66	69	65	58	47
63-4-1,5	46	67	74	79	82	78	71	60
63-4-2	47	68	75	80	83	79	72	61
63-4-3	48	69	76	81	84	80	73	62
63-6-0,75	38	59	66	71	74	70	63	52
63-6-1	39	60	67	72	75	71	64	53
71-4-2	50	71	78	83	86	82	75	64
71-4-3	52	73	80	85	88	84	77	66
71-4-4	53	74	81	86	89	85	78	67
71-6-1	40	61	68	73	76	72	65	54
71-6-1,5	41	62	69	74	77	73	66	55
80-4-4	54	75	82	87	90	86	79	68
80-4-5,5	55	76	83	88	91	87	80	69
80-6-1,5	44	65	72	77	80	76	69	58
80-6-2	45	66	73	78	81	77	70	59
80-6-3	46	67	74	79	82	78	71	60
90-4-5,5	60	81	88	93	96	92	85	74
90-4-7,5	62	83	90	95	98	94	87	76
90-4-9	63	84	91	96	99	95	88	77
90-4-10	63	84	91	96	99	95	88	77
90-6-3	50	71	78	83	86	82	75	64
90-6-4	51	72	79	84	87	83	76	65
100-4-7,5	65	86	93	98	101	97	90	79
100-4-9	65	86	93	98	101	97	90	79
100-4-10	66	87	94	99	102	98	91	80
100-4-14	66	87	94	99	102	98	91	80
100-4-15	67	88	95	100	103	99	92	81
100-6-3	56	77	84	89	92	88	81	70
100-6-4	57	78	85	90	93	89	82	71
100-6-5,5	58	79	86	91	94	90	83	72
125-4T/3-10	63	70	81	91	92	87	79	75
125-4T/3-15	64	71	82	92	93	88	80	76
125-4T/3-20	66	73	84	94	95	90	82	78

Acoustic characteristics

Noise power spectrum Lw(A) in dB(A) per Hz frequency band

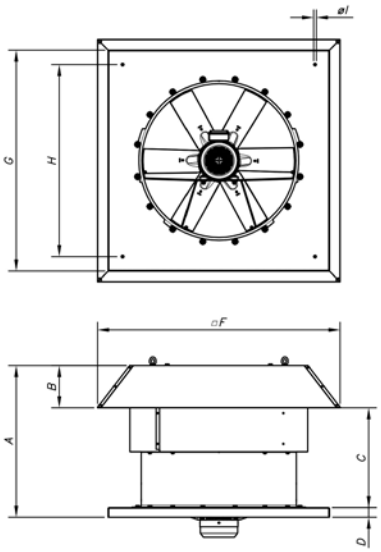
Values taken during aspiration with 2/3 maximum flow rate (2/3Qmax)

Model	63	125	250	500	1000	2000	4000	8000
125-4T/6-15	63	72	87	94	97	91	85	81
125-4T/6-20	63	72	87	94	97	91	85	81
125-4T/9-20	62	71	87	93	95	89	84	80
125-6T/6-5,5	56	66	78	81	83	79	68	64
125-6T/6-7,5	56	66	78	81	83	79	68	64
125-6T/6-10	58	68	80	83	85	81	70	66
125-6T/6-15	60	70	82	85	87	83	72	68
125-6T/9-7,5	54	65	79	83	83	81	70	66
125-6T/9-10	54	65	79	83	83	81	70	66
125-6T/9-15	57	68	82	86	86	84	73	69
125-6T/9-20	60	71	85	89	89	87	76	72

Values taken during discharge with 2/3 maximum flow rate (2/3Qmax)

Model	63	125	250	500	1000	2000	4000	8000
125-4T/6-15	60	69	84	91	94	88	82	78
125-4T/6-20	60	69	84	91	94	88	82	78
125-4T/9-20	59	68	84	90	92	86	81	77
125-6T/6-5,5	54	64	76	79	81	77	66	62
125-6T/6-7,5	54	64	76	79	81	77	66	62
125-6T/6-10	56	66	78	81	83	79	68	64
125-6T/6-15	58	68	80	83	85	81	70	66
125-6T/9-7,5	52	63	77	81	81	79	68	64
125-6T/9-10	52	63	77	81	81	79	68	64
125-6T/9-15	55	66	80	84	84	82	71	67
125-6T/9-20	58	69	83	87	87	85	74	70

Dimensions mm



Model	A	B	C	D	F	G	H	I
HTMH/ATEX-56	650	185	465	40	960	900	750	14
HTMH/ATEX -63	680	215	465	40	1092	1000	850	14
HTMH/ATEX -71	760	195	565	40	1120	1000	850	14
HTMH/ATEX -80	790	215	575	50	1252	1150	1000	14
HTMH/ATEX -90	910	232	678	50	1380	1150	1000	14
HTMH/ATEX-100	1055	252	803	50	1527	1250	1100	14
HTMH/ATEX-125	1170	310	859	50	1802	1600	1450	17

Accessories


INT


AET


VSD3/A-RFT
VSD1/A-RFM


RT

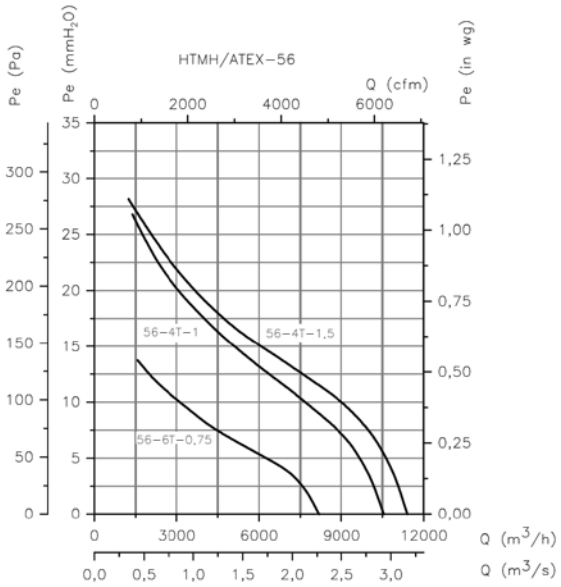

MS

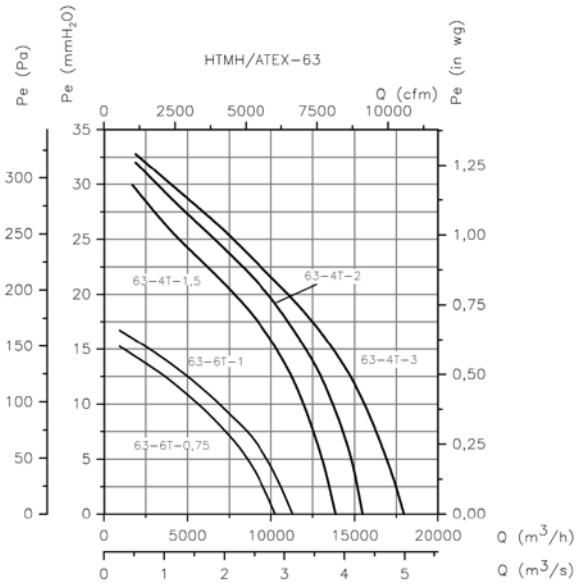

PA

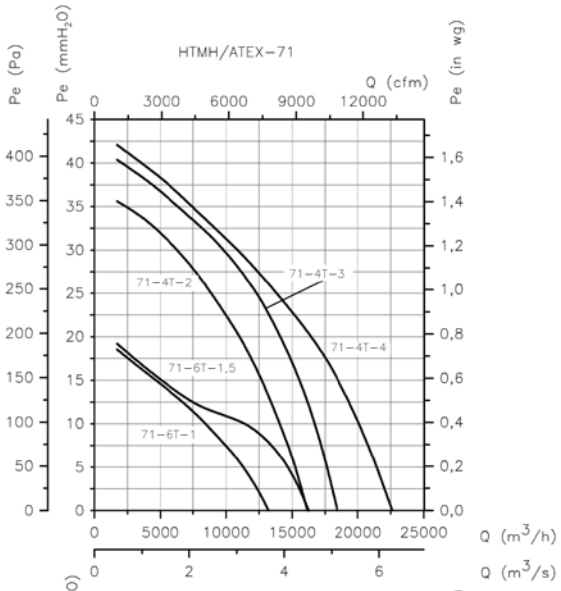

INT/ATEX

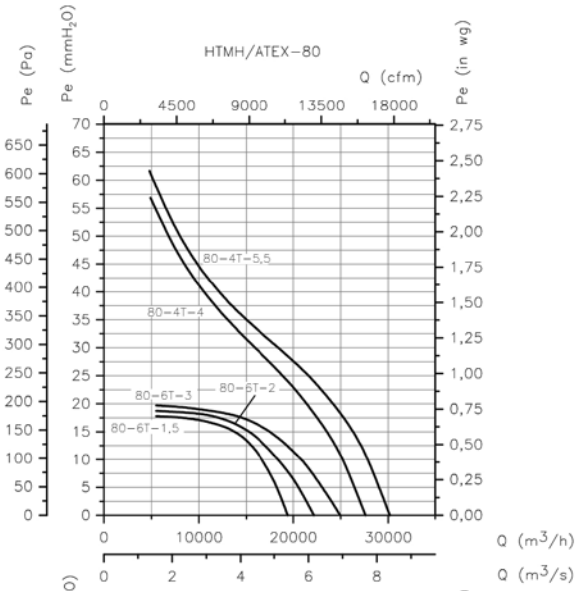
Characteristic curves

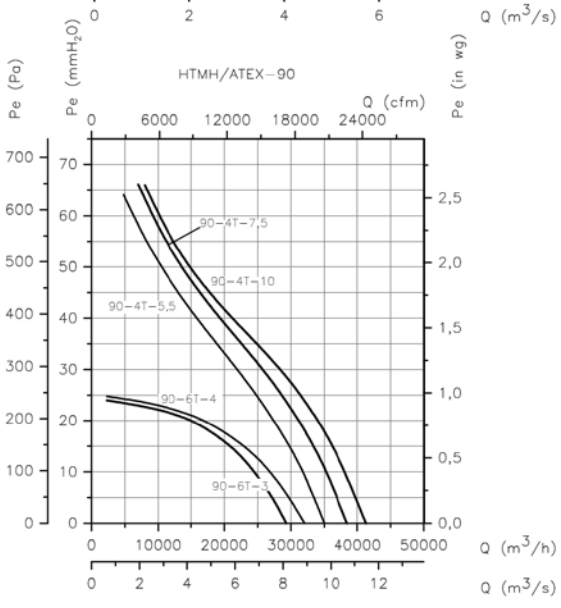
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

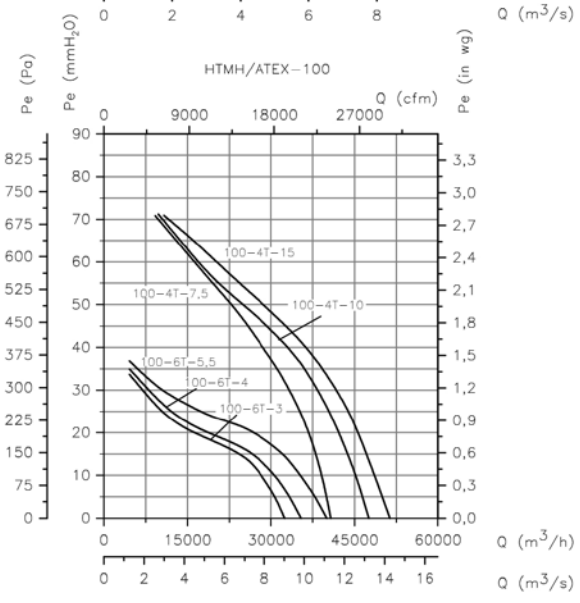






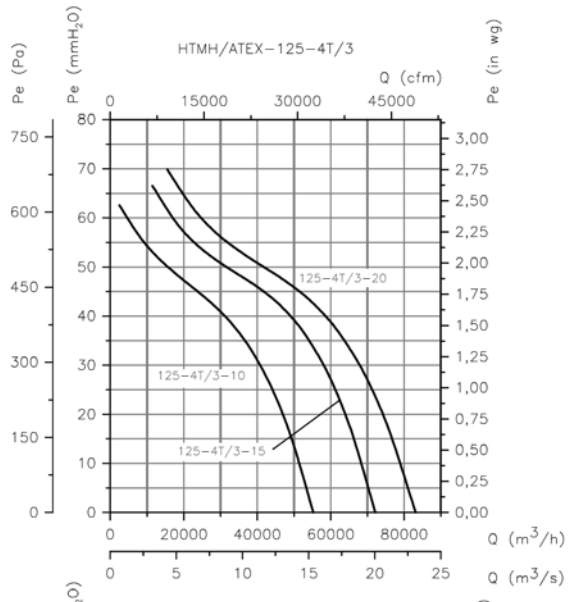


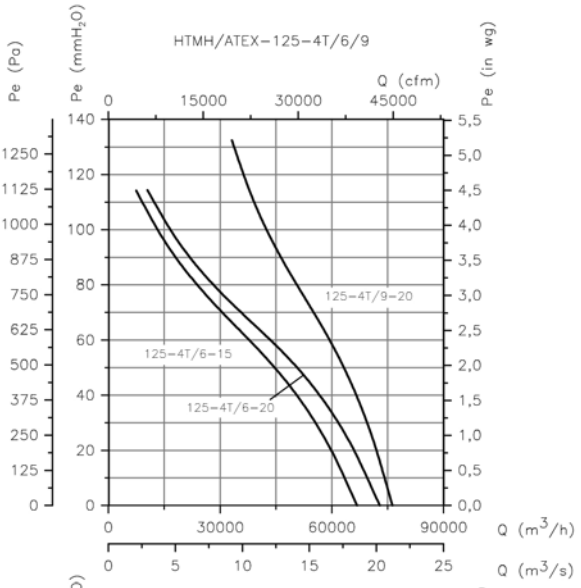


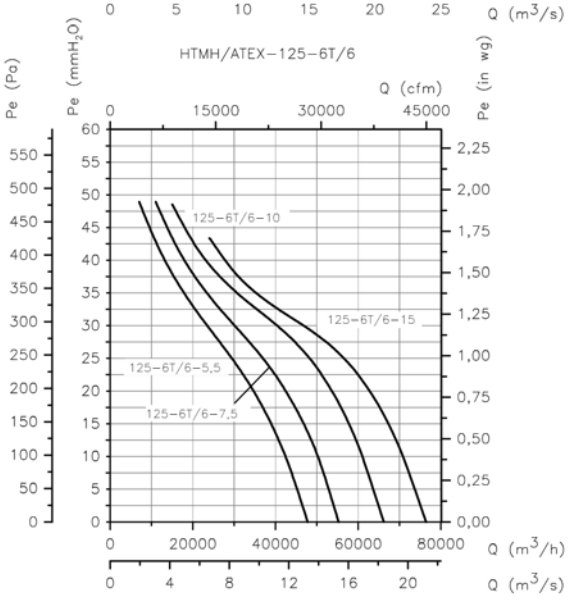


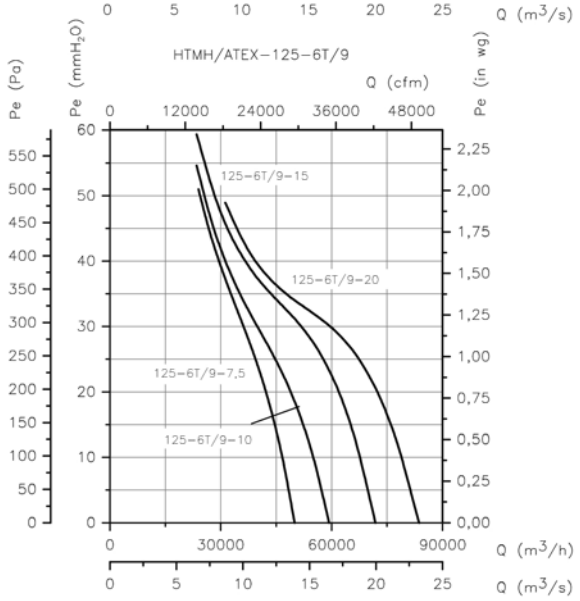
Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.









HTMV

Roof-mounted axial extractor fans with vertical air outlet

Roof-mounted axial extractor fans with vertical air outlet, designed for extracting large air volumes in industrial or similar premises.

Fan:
- Galvanised sheet steel support base with corrosion-proof treatment.
- Cast aluminium orientable rotors.
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499.
- Anti-return hatch in aluminium sheet metal to prevent the entry of water when the fan is not operating.
- Motor-rotor airflow direction.

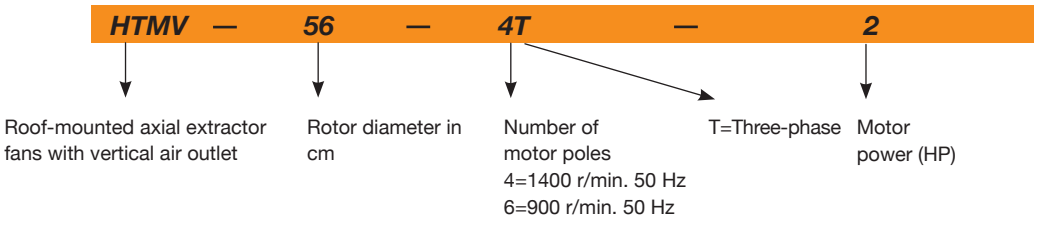
Motor:
- Class F motors with ball bearings and IP55 protection
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole
- Three-phase 230/400V.-50Hz (up to 4 kW) and 400/690V.-50Hz (powers greater than 4 kW)
- Maximum temperature of air to be carried: -20ºC +40ºC

Finish:
- Corrosion-proof finish of polyester resin polymerised at 190º C, previously degreased with phosphate-free nanotechnological treatment

On request:
- Extractor fans with 2-speed motors
- 2 and 8-pole fans depending on diameter
- Special windings for different voltages and frequencies
- Made entirely of stainless steel
- Made of hot-dip galvanised steel

Order code

From size 56 to size 100



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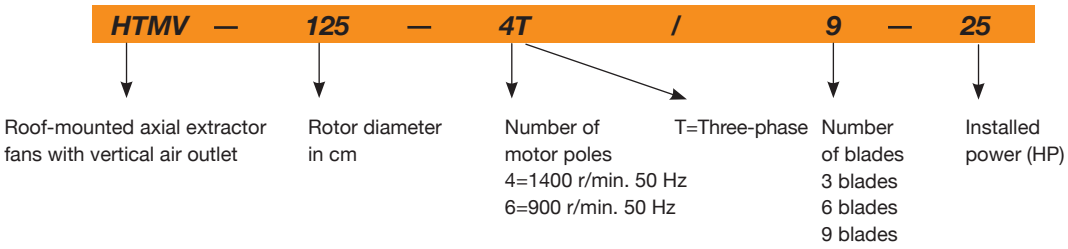


Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	Aspiration	Discharge	(Kg)
HTMV-56-4T-1 IE3	1420	2.82	1.62		0.75	11250	63	58	61
HTMV-56-4T-1.5 IE3	1455	4.07	2.34		1.1	13600	64	59	60
HTMV-56-4T-2 IE3	1440	5.41	3.11		1.5	15050	65	60	71
HTMV-56-6T-0.75	900	2.99	1.73		0.55	10150	52	48	60
HTMV-63-4T-1.5 IE3	1455	4.07	2.34		1.1	17800	63	59	69
HTMV-63-4T-2 IE3	1440	5.41	3.11		1.5	19300	63	59	81

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	Aspiration	Discharge	(Kg)
HTMV-63-4T-3 IE3	1435	7.93	4.56		2.2	22150	65	61	83
HTMV-63-4T-4 IE3	1440	10.7	6.15		3	24250	66	62	93
HTMV-63-6T-0.75	900	2.99	1.73		0.55	13600	55	51	70
HTMV-63-6T-1 IE3	940	3.36	1.93		0.75	15900	57	53	72
HTMV-71-4T-2 IE3	1440	5.41	3.11		1.5	20900	68	64	88
HTMV-71-4T-3 IE3	1435	7.93	4.56		2.2	25100	67	63	90
HTMV-71-4T-4 IE3	1440	10.7	6.15		3	27500	68	64	100
HTMV-71-6T-0.75	900	2.99	1.73		0.55	16100	56	53	77
HTMV-71-6T-1 IE3	940	3.36	1.93		0.75	17300	57	53	79
HTMV-71-6T-1.5 IE3	945	4.68	2.69		1.1	19950	58	54	90
HTMV-80-4T-4 IE3	1440	10.7	6.15		3	30250	71	67	122
HTMV-80-4T-5.5 IE3	1450	13.9	8		4	32750	71	67	125
HTMV-80-6T-1.5 IE3	945	4.68	2.69		1.1	21450	61	57	112
HTMV-80-6T-2 IE3	950	6.43	3.7		1.5	25950	62	58	120
HTMV-80-6T-3 IE3	950	9.08	5.22		2.2	29950	63	59	122
HTMV-90-4T-5.5 IE3	1450	13.9	8		4	38900	75	71	138
HTMV-90-4T-7.5 IE3	1465		10.3	5.97	5.5	46150	74	70	185
HTMV-90-4T-10 IE3	1465		13.9	8.06	7.5	50150	73	69	141
HTMV-90-6T-2 IE3	950	6.43	3.7		1.5	28800	64	60	133
HTMV-90-6T-3 IE3	950	9.08	5.22		2.2	34000	65	60	136
HTMV-90-6T-4 IE3	970	12	6.91		3	38900	66	62	172
HTMV-100-4T-7.5 IE3	1465		10.3	5.97	5.5	46850	79	75	196
HTMV-100-4T-10 IE3	1465		13.9	8.06	7.5	57400	77	73	152
HTMV-100-4T-15 IE3	1470		21.4	12.4	11	66300	76	72	231
HTMV-100-4T-20 IE3	1465		28.7	16.6	15	76150	78	74	222
HTMV-100-6T-3 IE3	950	9.08	5.22		2.2	37600	67	64	148
HTMV-100-6T-4 IE3	970	12	6.91		3	41150	67	62	184
HTMV-100-6T-5.5 IE3	960	15.6	8.99		4	47800	68	64	177
HTMV-125-4T/3-25 IE3	1470		33.6	19.5	18.5	98350	81	76	428
HTMV-125-4T/3-30 IE3	1475		40.6	23.5	22	110350	82	77	443
HTMV-125-4T/3-40 IE3	1480		55.9	32.4	30	125000	83	78	489
HTMV-125-4T/6-25 IE3	1470		33.6	19.5	18.5	92550	80	75	437
HTMV-125-4T/6-30 IE3	1475		40.6	23.5	22	98850	80	75	452
HTMV-125-4T/6-40 IE3	1480		55.9	32.4	30	117450	82	77	497
HTMV-125-4T/6-50 IE3	1480		69.2	40.1	37	131050	83	78	537
HTMV-125-4T/9-25 IE3	1470		33.6	19.5	18.5	79650	78	73	446
HTMV-125-4T/9-30 IE3	1475		40.6	23.5	22	88300	79	74	461
HTMV-125-4T/9-40 IE3	1480		55.9	32.4	30	104050	81	76	506
HTMV-125-4T/9-50 IE3	1480		69.2	40.1	37	118400	83	78	546
HTMV-125-6T/3-4 IE3	970	12	6.91		3	46750	70	65	280
HTMV-125-6T/3-5.5 IE3	960	15.6	8.99		4	55400	70	66	273
HTMV-125-6T/3-7.5 IE3	970		11.2	6.49	5.5	68400	71	67	251
HTMV-125-6T/3-10 IE3	970		14.8	8.58	7.5	79150	73	69	270
HTMV-125-6T/3-15 IE3	970		22	12.8	11	87150	74	70	323
HTMV-125-6T/3-20 IE3	975		28	16.2	15	91650	75	71	429
HTMV-125-6T/6-5.5 IE3	960	15.6	8.99		4	51500	66	62	282
HTMV-125-6T/6-7.5 IE3	970		11.2	6.49	5.5	60650	66	62	260
HTMV-125-6T/6-10 IE3	970		14.8	8.58	7.5	72650	68	64	279
HTMV-125-6T/6-15 IE3	970		22	12.8	11	85850	70	66	332
HTMV-125-6T/6-20 IE3	975		28	16.2	15	92850	71	67	438
HTMV-125-6T/9-10 IE3	970		14.8	8.58	7.5	63500	68	64	288
HTMV-125-6T/9-15 IE3	970		22	12.8	11	77550	71	67	341
HTMV-125-6T/9-20 IE3	975		28	16.2	15	92950	74	70	447

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

The indicated values are determined by measuring the pressure and noise level in dB(A) obtained in a free field at a distance of 6 m.

Noise power spectrum Lw(A) in dB(A) frequency band in [Hz]

Values taken during aspiration with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	48	68	76	81	83	80	73	62
56-4-1,5	49	69	77	82	84	81	74	63
56-4-2	50	70	78	83	85	82	75	64
56-6-0,75	37	57	65	70	72	69	62	51
63-4-1,5	48	68	76	81	83	80	73	65
63-4-2	52	68	76	81	83	80	73	66
63-4-3	53	70	78	83	85	82	77	67
63-4-4	54	71	79	84	86	83	78	68
63-6-0,75	42	60	68	73	75	72	65	56
63-6-1	43	62	70	75	77	74	67	57
71-4-2	53	73	81	86	88	85	78	70
71-4-3	58	72	80	85	87	84	77	71
71-4-4	59	73	81	86	88	85	78	72
71-6-0,75	44	63	72	74	76	73	66	55
71-6-1	45	65	73	75	77	74	67	56
71-6-1,5	46	66	71	76	78	75	68	57
80-4-4	56	76	84	89	91	88	81	74
80-4-5,5	56	76	84	89	91	88	81	74
80-6-1,5	49	66	74	79	81	78	71	60
80-6-2	50	67	75	80	82	79	72	61
80-6-3	51	68	76	81	83	80	73	62
90-4-5,5	60	81	88	93	96	92	85	74
90-4-7,5	59	80	87	92	95	91	84	73
90-4-10	58	79	86	91	94	90	83	72
90-6-2	49	70	77	82	85	81	74	63
90-6-3	56	70	77	82	85	81	74	63
90-6-4	57	72	79	84	87	83	76	65
100-4-7,5	64	84	92	97	99	96	89	78
100-4-10	62	82	90	95	97	94	87	76
100-4-15	61	81	89	94	96	93	86	75
100-4-20	63	83	91	96	98	95	88	77
100-6-3	61	72	80	85	87	84	77	66
100-6-4	64	72	80	85	87	84	77	66
100-6-5,5	64	73	81	86	88	85	78	67
125-4/3-25	73	79	91	101	101	97	89	85
125-4/3-30	74	80	92	102	102	98	90	86
125-4/3-40	75	81	93	103	103	99	91	87
125-4/6-25	68	76	92	99	101	96	90	86
125-4/6-30	68	76	92	99	101	96	90	86
125-4/6-40	70	78	94	101	103	98	92	88
125-4/6-50	71	79	95	102	104	99	93	89
125-4/9-25	66	74	91	97	98	93	88	84
125-4/9-30	67	75	92	98	99	94	89	85
125-4/9-40	69	77	94	100	101	96	91	87
125-4/9-50	71	79	96	102	103	98	93	89
125-6/3-4	66	74	86	90	88	83	74	70
125-6/3-5.5	66	74	86	90	88	83	74	70
125-6/3-7.5	67	75	87	91	89	84	75	71
125-6/3-10	69	77	89	93	91	86	77	73
125-6/3-15	70	78	90	94	92	87	78	74
125-6/3-20	71	79	91	95	93	88	79	75
125-6/6-5.5	60	69	82	85	86	83	72	68
125-6/6-7.5	60	69	82	85	86	83	72	68
125-6/6-10	62	71	84	87	88	85	74	70
125-6/6-15	64	73	86	89	90	87	76	72
125-6/6-20	65	74	87	90	91	88	77	73
125-6/9-10	58	68	83	87	86	85	74	70
125-6/9-15	61	71	86	90	89	88	77	73
125-6/9-20	64	74	89	93	92	91	80	76

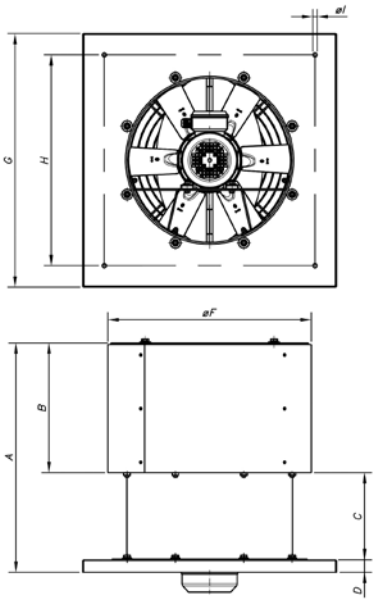
Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
56-4-1	43	63	71	76	78	75	68	57
56-4-1,5	44	64	72	77	79	76	69	58
56-4-2	45	65	73	78	80	77	70	59
56-6-0,75	33	53	61	66	68	65	58	47
63-4-1,5	44	64	72	77	79	76	69	60
63-4-2	47	64	72	77	79	76	69	61
63-4-3	48	66	74	79	81	78	73	62
63-4-4	49	67	75	80	82	79	74	63
63-6-0,75	38	56	64	69	71	68	61	52
63-6-1	39	58	66	71	73	70	63	53
71-4-2	49	69	77	82	84	81	74	65
71-4-3	53	68	76	81	83	80	73	67
71-4-4	54	69	77	82	84	81	74	68
71-6-0,75	40	60	68	71	73	70	63	52
71-6-1	41	61	69	71	73	70	63	52
71-6-1,5	42	62	67	72	74	71	64	53
80-4-4	52	72	80	85	87	84	77	69
80-4-5,5	52	72	80	85	87	84	77	70
80-6-1,5	45	62	70	75	77	74	67	56
80-6-2	46	63	71	76	78	75	68	57
80-6-3	47	64	72	77	79	76	69	58
90-4-5,5	56	77	84	89	92	88	81	70
90-4-7,5	55	76	83	88	91	87	80	69
90-4-10	54	75	82	87	90	86	79	68
90-6-2	45	66	73	78	81	77	70	59
90-6-3	52	66	73	78	81	77	70	59
90-6-4	53	68	75	80	83	79	72	61
100-4-7,5	60	80	88	93	95	92	85	74
100-4-10	58	78	86	91	93	90	83	72
100-4-15	57	77	85	90	92	89	82	71
100-4-20	59	79	87	92	94	91	84	73
100-6-3	58	69	77	82	84	81	74	63
100-6-4	59	67	75	80	82	79	72	61
100-6-5,5	60	69	77	82	84	81	74	63
125-4/3-25	68	74	86	96	96	92	84	80
125-4/3-30	69	75	87	97	97	93	85	81
125-4/3-40	70	76	88	98	98	94	86	82
125-4/6-25	63	71	87	94	96	91	85	81
125-4/6-30	63	71	87	94	96	91	85	81
125-4/6-40	65	73	89	96	98	93	87	83
125-4/6-50	66	74	90	97	99	94	88	84
125-4/9-25	61	69	86	92	93	88	83	79
125-4/9-30	62	70	87	93	94	89	84	80
125-4/9-40	64	72	89	95	96	91	86	82
125-4/9-50	66	74	91	97	98	93	88	84
125-6/3-4	61	69	81	85	83	78	69	65
125-6/3-5.5	62	70	82	86	84	79	70	66
125-6/3-7.5	63	71	83	87	85	80	71	67
125-6/3-10	65	73	85	89	87	82	73	69
125-6/3-15	66	74	86	90	88	83	74	70
125-6/3-20	67	75	87	91	89	84	75	71
125-6/6-5.5	56	65	78	81	82	79	68	64
125-6/6-7.5	56	65	78	81	82	79	68	64
125-6/6-10	58	67	80	83	84	81	70	66
125-6/6-15	60	69	82	85	86	83	72	68
125-6/6-20	61	70	83	86	87	84	73	69
125-6/9-10	54	64	79	83	82	81	70	66
125-6/9-15	57	67	82	86	85	84	73	69
125-6/9-20	60	70	85	89	88	87	76	72

Erp. Best efficiency point (BEP) characteristics

See THT/ROOF series

Dimensions mm



Model	A	B	C	D	ØF	G	H	ØI
HTMV-56	770	438	244	40	686	900	750	14
HTMV-63	810	475	244	40	753	1000	850	14
HTMV-71	890	510	292	40	833	1000	850	14
HTMV-80	950	555.5	292	50	923	1150	1000	14
HTMV-90	1040	611	338	40	1031	1150	1000	14
HTMV-100	1197	659	438	50	1128	1250	1100	14
HTMV-125	1373	785.5	488	50	1376	1600	1450	17

Characteristic curves

See THT/ROOF series

Accessories

See accessories section

INT AET VSD RT PA MS

THT/ROOF

400ºC/2h and 300ºC/2h roof-mounted axial extractor fans with vertical air outlet

Roof-mounted axial extractor fans with vertical air outlet, for work in fire risk zones, designed for smoke extraction in industrial or similar buildings.

Fan:
- Galvanised sheet steel support base with anti-corrosive treatment.
- Cast aluminium orientable rotors.
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499.
- Anti-return hatch in aluminium sheet metal to prevent the entry of water when the fan is not operating.
- Approved in accordance with standard EN 12101-3. With 0370-CPR-0305 (F400) and 0370-CPR-0973 (F300) certificates.
- Motor-rotor airflow direction.

Motor:
- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings and class IP55 protection.
- Three-phase 230/400V.-50Hz. (up to 3 kW) and 400/690V.-50Hz. (powers greater than 3 kW)
- Maximum temperature of air to be carried: S1 continuous operation -20ºC +40ºC. S2 operation, 300ºC/2h, 400ºC/2h

Finish:
- Anti-corrosive finish of polyester resin polymerised at 190ºC, previously degreased with phosphate-free nanotechnological treatment.

On request:
- Extractor fans with 2-speed motors.
- 2 and 8-pole fans depending on diameter.

Order code

From size 40 to size 100

THT/ROOF — 56 — 4T — 2 — F400

- ***THT/ROOF***: THT/ROOF: 400ºC/2h and 300ºC/2h roof-mounted axial extractor fans with vertical air outlet
- ***56***: Rotor diameter in cm
- ***4T***: Number of motor poles T: Three-phase
- ***2***: Motor power (c.v.)
- ***F400***: F-300: Approval. Tested for 300ºC/2h. F400: Approval 400ºC/2h

Size 120

THT/ROOF — 125 — 4T/9 — 24 — F400

- ***THT/ROOF***: THT/ROOF: 400ºC/2h and 300ºC/2h roof-mounted axial extractor fans with vertical air outlet
- ***125***: Rotor diameter in cm
- ***4T***: Number of motor poles T: Three-phase
- ***9***: Number of blades 3 blades 6 blades 9 blades
- ***24***: Motor power (c.v.)
- ***F400***: F-300: Approval. Tested for 300ºC/2h. F400: Approval 400ºC/2h

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Angle inclination blades	Maximum flow rate	Sound pressure level dB(A)(1)		Approx. weight
	(r/min)	230V	400V	690V	(W)	(º)	(m3/h)	Aspiration	Discharge	(Kg)
THT/ROOF-40-4T-0.75	1420	2.90	1.70		0.55	32	4800	51	46	39
THT/ROOF-40-6T-0.75	930	3.30	1.90		0.55	32	3150	40	36	44
THT/ROOF-45-4T-0.75	1420	2.90	1.70		0.55	36	7450	55	50	42
THT/ROOF-45-6T-0.75	930	3.30	1.90		0.55	30	4450	42	38	47
THT/ROOF-50-4T-1	1430	3.80	2.20		0.75	28	9750	59	54	51
THT/ROOF-50-6T-0.75	930	3.30	1.90		0.55	32	7000	47	43	54
THT/ROOF-56-4T-1	1430	3.80	2.20		0.75	22	11250	63	58	58

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Angle inclination blades	Maximum flow rate	Sound pressure level dB(A)(1)		Approx. weight
	(r/min)	230V	400V	690V	(W)	(º)	(m^3/h)	Aspiration	Discharge	(Kg)
THT/ROOF-56-4T-1.5	1420	4.70	2.70		1.10	30	13600	64	59	58
THT/ROOF-56-4T-2	1425	6.60	3.80		1.50	36	15050	65	60	61
THT/ROOF-56-6T-0.75	930	3.30	1.90		0.55	38	10150	52	48	57
THT/ROOF-63-4T-1.5	1420	4.70	2.70		1.10	20	17800	63	59	67
THT/ROOF-63-4T-2	1425	6.60	3.80		1.50	24	19300	63	59	71
THT/ROOF-63-4T-3	1435	9.20	5.30		2.20	32	22150	65	61	76
THT/ROOF-63-4T-4	1430	11.40	6.60		3.00	38	24250	66	62	85
THT/ROOF-63-6T-0.75	930	3.30	1.90		0.55	28	13600	55	51	67
THT/ROOF-63-6T-1	940	4.40	2.60		0.75	38	15900	57	53	70
THT/ROOF-71-4T-2	1425	6.60	3.80		1.50	14	20900	68	64	78
THT/ROOF-71-4T-3	1435	9.20	5.30		2.20	22	25100	67	63	83
THT/ROOF-71-4T-4	1430	11.40	6.60		3.00	28	27500	68	64	92
THT/ROOF-71-6T-0.75	930	3.30	1.90		0.55	20	16100	56	53	74
THT/ROOF-71-6T-1	940	4.40	2.60		0.75	26	17300	57	53	77
THT/ROOF-71-6T-1.5	945	6.40	3.70		1.10	34	19950	58	54	83
THT/ROOF-80-4T-4	1430	11.40	6.60		3.00	16	30250	71	67	114
THT/ROOF-80-4T-5.5	1440		8.40	4.85	4.00	18	32750	71	67	121
THT/ROOF-80-6T-1.5	945	6.40	3.70		1.10	18	21450	61	57	105
THT/ROOF-80-6T-2	945	7.40	4.30		1.50	26	25950	62	58	114
THT/ROOF-80-6T-3	950	10.30	5.90		2.20	32	29950	63	59	120
THT/ROOF-90-4T-5.5	1440		8.40	4.85	4.00	12	38900	75	71	134
THT/ROOF-90-4T-7.5	1430		11.50	6.64	5.50	18	46150	74	70	161
THT/ROOF-90-4T-10	1460		17.70	10.22	7.50	22	50150	73	69	172
THT/ROOF-90-6T-2	945	7.40	4.30		1.50	16	28800	64	60	127
THT/ROOF-90-6T-3	950	10.30	5.90		2.20	24	34000	65	60	134
THT/ROOF-90-6T-4	945	15.00	8.70		3.00	30	38900	66	62	159
THT/ROOF-100-4T-7.5	1430		11.50	6.64	5.50	10	46850	79	75	172
THT/ROOF-100-4T-10	1460		17.70	10.22	7.50	16	57400	77	73	183
THT/ROOF-100-4T-15	1455		23.00	13.28	11.00	22	66300	76	72	236
THT/ROOF-100-4T-20	1460		29.00	16.74	15.00	28	76150	78	74	251
THT/ROOF-100-6T-3	950	10.30	5.90		2.20	16	37600	67	64	146
THT/ROOF-100-6T-4	945	15.00	8.70		3.00	20	41150	67	62	171
THT/ROOF-100-6T-5.5	970		11.00	6.35	4.00	26	47800	68	64	183
THT/ROOF-125-4T/3-25	1465		37.00	21.36	18.50	20	98350	81	76	404
THT/ROOF-125-4T/3-30	1470		42.00	24.25	22.00	24	110350	82	77	418
THT/ROOF-125-4T/3-40	1475		58.00	33.49	30.00	30	125000	83	78	499
THT/ROOF-125-4T/6-25	1465		37.00	21.36	18.50	14	92550	80	75	413
THT/ROOF-125-4T/6-30	1470		42.00	24.25	22.00	16	98850	80	75	427
THT/ROOF-125-4T/6-40	1475		58.00	33.49	30.00	22	117450	82	77	507
THT/ROOF-125-4T/6-50	1480		73.00	42.15	37.00	26	131050	83	78	543
THT/ROOF-125-4T/9-25	1465		37.00	21.36	18.50	10	79650	78	73	422
THT/ROOF-125-4T/9-30	1470		42.00	24.25	22.00	12	88300	79	74	436
THT/ROOF-125-4T/9-40	1475		58.00	33.49	30.00	16	104050	81	76	516
THT/ROOF-125-4T/9-50	1480		73.00	42.15	37.00	20	118400	83	78	552
THT/ROOF-125-6T/3-4	945	15.00	8.70		3.00	12	46750	70	65	267
THT/ROOF-125-6T/3-5.5	970		11.00	6.35	4.00	16	55400	70	66	279
THT/ROOF-125-6T/3-7.5	970		14.00	8.08	5.50	22	68400	71	67	286
THT/ROOF-125-6T/3-10	960		18.60	10.74	7.50	28	79150	73	69	316
THT/ROOF-125-6T/3-15	955		26.00	15.01	11.00	34	87150	74	70	346
THT/ROOF-125-6T/3-20	950		35.50	20.50	15.00	38	91650	75	71	404
THT/ROOF-125-6T/6-5.5	970		11.00	6.35	4.00	10	51500	66	62	288
THT/ROOF-125-6T/6-7.5	970		14.00	8.08	5.50	14	60650	66	62	295
THT/ROOF-125-6T/6-10	960		18.60	10.74	7.50	20	72650	68	64	325
THT/ROOF-125-6T/6-15	955		26.00	15.01	11.00	26	85850	70	66	355
THT/ROOF-125-6T/6-20	950		35.50	20.50	15.00	30	92850	71	67	413
THT/ROOF-125-6T/9-10	960		18.60	10.74	7.50	14	63500	68	64	334
THT/ROOF-125-6T/9-15	955		26.00	15.01	11.00	20	77550	71	67	364
THT/ROOF-125-6T/9-20	950		35.50	20.50	15.00	26	92950	74	70	422

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

Noise power spectrum Lw(A) in dB(A) per Hz frequency band.

Values taken during aspiration with maximum flow rate

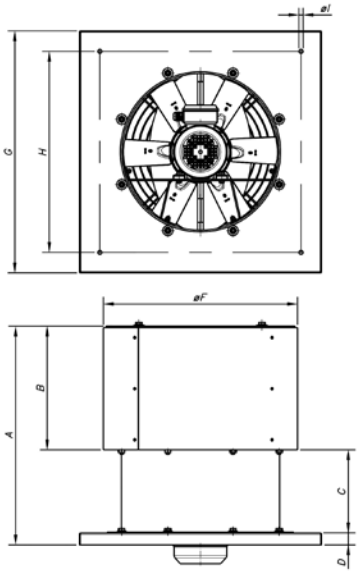
Model	63	125	250	500	1000	2000	4000	8000
40-4-0.75	36	57	64	69	72	68	61	50
40-6-0,75	25	46	53	58	61	57	50	39
45-4-0,75	40	61	68	73	76	72	65	54
45-6-0,75	27	48	55	60	63	59	52	41
50-4-1	44	64	72	77	79	76	69	58
50-6-0,75	32	52	60	65	67	64	57	46
56-4-1	48	68	76	81	83	80	73	62
56-4-1,5	49	69	77	82	84	81	74	63
56-4-2	50	70	78	83	85	82	75	64
56-6-0,75	37	57	65	70	72	69	62	51
63-4-1,5	48	68	76	81	83	80	73	65
63-4-2	52	68	76	81	83	80	73	66
63-4-3	53	70	78	83	85	82	77	67
63-4-4	54	71	79	84	86	83	78	68
63-6-0,75	42	60	68	73	75	72	65	56
63-6-1	43	62	70	75	77	74	67	57
71-4-2	53	73	81	86	88	85	78	70
71-4-3	58	72	80	85	87	84	77	71
71-4-4	59	73	81	86	88	85	78	72
71-6-0,75	44	63	72	74	76	73	66	55
71-6-1	45	65	73	75	77	74	67	56
71-6-1,5	46	66	71	76	78	75	68	57
80-4-4	56	76	84	89	91	88	81	74
80-4-5,5	56	76	84	89	91	88	81	74
80-6-1,5	49	66	74	79	81	78	71	60
80-6-2	50	67	75	80	82	79	72	61
80-6-3	51	68	76	81	83	80	73	62
90-4-5,5	60	81	88	93	96	92	85	74
90-4-7,5	59	80	87	92	95	91	84	73
90-4-10	58	79	86	91	94	90	83	72
90-6-2	49	70	77	82	85	81	74	63
90-6-3	56	70	77	82	85	81	74	63
90-6-4	57	72	79	84	87	83	76	65
100-4-7,5	64	84	92	97	99	96	89	78
100-4-10	62	82	90	95	97	94	87	76
100-4-15	61	81	89	94	96	93	86	75
100-4-20	63	83	91	96	98	95	88	77
100-6-3	61	72	80	85	87	84	77	66
100-6-4	64	72	80	85	87	84	77	66
100-6-5,5	64	73	81	86	88	85	78	67
125-4/3-25	73	79	91	101	101	97	89	85
125-4/3-30	74	80	92	102	102	98	90	86
125-4/3-40	75	81	93	103	103	99	91	87
125-4/6-25	68	76	92	99	101	96	90	86
125-4/6-30	68	76	92	99	101	96	90	86
125-4/6-40	70	78	94	101	103	98	92	88
125-4/6-50	71	79	95	102	104	99	93	89
125-4/9-25	66	74	91	97	98	93	88	84
125-4/9-30	67	75	92	98	99	94	89	85
125-4/9-40	69	77	94	100	101	96	91	87
125-4/9-50	71	79	96	102	103	98	93	89
125-6/3-4	66	74	86	90	88	83	74	70
125-6/3-5.5	66	74	86	90	88	83	74	70
125-6/3-7.5	67	75	87	91	89	84	75	71
125-6/3-10	69	77	89	93	91	86	77	73
125-6/3-15	70	78	90	94	92	87	78	74
125-6/3-20	71	79	91	95	93	88	79	75
125-6/6-5.5	60	69	82	85	86	83	72	68
125-6/6-7.5	60	69	82	85	86	83	72	68
125-6/6-10	62	71	84	87	88	85	74	70
125-6/6-15	64	73	86	89	90	87	76	72
125-6/6-20	65	74	87	90	91	88	77	73
125-6/9-10	58	68	83	87	86	85	74	70
125-6/9-15	61	71	86	90	89	88	77	73
125-6/9-20	64	74	89	93	92	91	80	76

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
40-4-0,75	31	52	59	64	67	63	56	45
40-6-0,75	21	42	49	54	57	53	46	35
45-4-0,75	35	56	63	68	71	67	60	49
45-6-0,75	23	44	51	56	59	55	48	37
50-4-1	39	59	67	72	74	71	64	53
50-6-0,75	28	48	56	61	63	60	53	42
56-4-1	43	63	71	76	78	75	68	57
56-4-1,5	44	64	72	77	79	76	69	58
56-4-2	45	65	73	78	80	77	70	59
56-6-0,75	33	53	61	66	68	65	58	47
63-4-1,5	44	64	72	77	79	76	69	60
63-4-2	47	64	72	77	79	76	69	61
63-4-3	48	66	74	79	81	78	73	62
63-4-4	49	67	75	80	82	79	74	63
63-6-0,75	38	56	64	69	71	68	61	52
63-6-1	39	58	66	71	73	70	63	53
71-4-2	49	69	77	82	84	81	74	65
71-4-3	53	68	76	81	83	80	73	67
71-4-4	54	69	77	82	84	81	74	68
71-6-0,75	40	60	68	71	73	70	63	52
71-6-1	41	61	69	71	73	70	63	52
71-6-1,5	42	62	67	72	74	71	64	53
80-4-4	52	72	80	85	87	84	77	69
80-4-5,5	52	72	80	85	87	84	77	70
80-6-1,5	45	62	70	75	77	74	67	56
80-6-2	46	63	71	76	78	75	68	57
80-6-3	47	64	72	77	79	76	69	58
90-4-5,5	56	77	84	89	92	88	81	70
90-4-7,5	55	76	83	88	91	87	80	69
90-4-10	54	75	82	87	90	86	79	68
90-6-2	45	66	73	78	81	77	70	59
90-6-3	52	66	73	78	81	77	70	59
90-6-4	53	68	75	80	83	79	72	61
100-4-7,5	60	80	88	93	95	92	85	74
100-4-10	58	78	86	91	93	90	83	72
100-4-15	57	77	85	90	92	89	82	71
100-4-20	59	79	87	92	94	91	84	73
100-6-3	58	69	77	82	84	81	74	63
100-6-4	59	67	75	80	82	79	72	61
100-6-5,5	60	69	77	82	84	81	74	63
125-4/3-25	68	74	86	96	96	92	84	80
125-4/3-30	69	75	87	97	97	93	85	81
125-4/3-40	70	76	88	98	98	94	86	82
125-4/6-25	63	71	87	94	96	91	85	81
125-4/6-30	63	71	87	94	96	91	85	81
125-4/6-40	65	73	89	96	98	93	87	83
125-4/6-50	66	74	90	97	99	94	88	84
125-4/9-25	61	69	86	92	93	88	83	79
125-4/9-30	62	70	87	93	94	89	84	80
125-4/9-40	64	72	89	95	96	91	86	82
125-4/9-50	66	74	91	97	98	93	88	84
125-6/3-4	61	69	81	85	83	78	69	65
125-6/3-5.5	62	70	82	86	84	79	70	66
125-6/3-7.5	63	71	83	87	85	80	71	67
125-6/3-10	65	73	85	89	87	82	73	69
125-6/3-15	66	74	86	90	88	83	74	70
125-6/3-20	67	75	87	91	89	84	75	71
125-6/6-5.5	56	65	78	81	82	79	68	64
125-6/6-7.5	56	65	78	81	82	79	68	64
125-6/6-10	58	67	80	83	84	81	70	66
125-6/6-15	60	69	82	85	86	83	72	68
125-6/6-20	61	70	83	86	87	84	73	69
125-6/9-10	54	64	79	83	82	81	70	66
125-6/9-15	57	67	82	86	85	84	73	69
125-6/9-20	60	70	85	89	88	87	76	72

Dimensions mm

Model	A	B	C	D	ØF	G	H	ØI
THT/ROOF-40	690	360	244	35	519	630	530	12
THT/ROOF-45	700	374	244	35	569	710	590	12
THT/ROOF-50	740	412	244	35	626	900	750	12
THT/ROOF-56	770	438	244	40	686	900	750	14
THT/ROOF-63	810	475	244	40	753	1000	850	14
THT/ROOF-71	890	510	292	40	833	1000	850	14
THT/ROOF-80	950	555.5	292	50	923	1150	1000	14
THT/ROOF-90	1040	611	338	40	1031	1150	1000	14
THT/ROOF-100	1197	659	438	50	1128	1250	1100	14
THT/ROOF-125	1373	785.5	488	50	1376	1600	1450	17



ROOF-MOUNTED ATEX EXTRACTOR FANS

HTMV/ATEX

Roof-mounted axial extractor fans with vertical air outlet, ATEX certified and optional Ex e, Ex d, Ex tc and Ex tb marking

exempt ErP

Ex "e" marking: CE Ex II 2G Ex e
Ex "d" marking: CE Ex II 2G Ex d
Ex tc marking: CE Ex II 3D Ex tc
Ex tb marking: CE Ex II 2D Ex tb
Notified Body: L.O.M.
Identification no.:
LOM03ATEX0157

Roof-mounted axial extractor fans with vertical air outlet and aluminium rain cap, ATEX Certification, with CEE ExII2G Ex e explosion-proof, CEE ExII2G Ex d, Ex tc, or Ex tb non-sparking motor for working in explosive atmospheres containing dust or gas.

Fan:
- Galvanised sheet steel support base with corrosion-proof treatment
- Cast aluminium orientable rotors
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499
- Anti-return hatch in aluminium sheet metal to prevent the entry of water when the fan is not operating
- Motor-rotor airflow direction

Motor:
- ATEX-certified, Ex e explosion-proof, Ex d, Ex tc and Ex tb non-sparking class F motors with ball bearings
- Three-phase 230/400V.-50Hz (up to 4 kW) and 400/690V.-50Hz (powers greater than 4 kW)
- Maximum temperature of air to be carried: -20°C +40°C

Finish:
- ATEX corrosion-proof, with non-ferric paint finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment

On request:
- Made entirely of stainless steel
- Made of hot-dip galvanised steel
- Motors with built-in PTC
- Special windings for different voltages and frequencies
- ATEX construction for different categories
- Extractor fans with 2-speed motors
- Single-phase, Ex d non-sparking motors

Order code

From size 40 to size 100

HTMV/ATEX — 56 — 4T — 2 — Ex-e

- **56** — Rotor diameter in cm
- **4T** — Number of motor poles
- **T=Three-phase**
- **2** — Motor power (HP)
- **Ex-e** — Roof-mounted axial extractor fans with vertical air outlet

Marking:
CE Ex **II 2G c**
CE Ex **II 2D c**
CE Ex **II 3D c**

Ex-e: marking:
CE Ex II 2G Ex e IIB T3
Ex "d" marking:
CE Ex II 2G Ex d IIB T5
Ex tc marking:
CE Ex II 3D Ex tc
Ex tb marking:
CE Ex II 2D Ex tb

Size 125

HTMV/ATEX — 125 — 4T / 9 — 25 Ex-e

- **125** — Rotor diameter in cm
- **4T** — Number of motor poles
- **T=Three-phase**
- **9** — Number of blades
  3 blades
  6 blades
  9 blades
- **25** — Motor power (HP)
- **Ex-e** — Roof-mounted axial extractor fans with vertical air outlet

Marking:
CE Ex **II 2G c**
CE Ex **II 2D c**
CE Ex **II 3D c**

Ex-e: marking:
CE Ex II 2G Ex e IIB T3
Ex "d" marking:
CE Ex II 2G Ex d IIB T5
Ex tc marking:
CE Ex II 3D Ex tc
Ex tb marking:
CE Ex II 2D Ex tb

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Aspiration	Discharge	(Kg)
HTMV/ATEX-40-4T-0.75	1410	2.94	1.7		0.55	4800	51	46	36
HTMV/ATEX-40-6T-0.75	930	3.46	2		0.55	3150	40	36	43
HTMV/ATEX-45-4T-0.75	1410	2.94	1.7		0.55	7450	55	50	39
HTMV/ATEX-45-6T-0.75	930	3.46	2		0.55	4450	42	38	46
HTMV/ATEX-50-4T-1	1410	3.81	2.2		0.75	9750	59	54	49
HTMV/ATEX-50-6T-0.75	930	3.46	2		0.55	7000	47	43	53
HTMV/ATEX-56-4T-1	1410	3.81	2.2		0.75	11250	63	58	56
HTMV/ATEX-56-4T-1.5	1410	5.2	3		1.10	13600	64	59	52
HTMV/ATEX-56-4T-2	1400	6.93	4		1.50	15050	65	60	56
HTMV/ATEX-56-6T-0.75	930	3.46	2		0.55	10150	52	48	56
HTMV/ATEX-63-4T-1.5	1410	5.2	3		1.10	17800	63	59	61
HTMV/ATEX-63-4T-2	1400	6.93	4		1.50	19300	63	59	66
HTMV/ATEX-63-4T-3	1410	9.01	5.2		2.20	22150	65	61	72
HTMV/ATEX-63-4T-4	1440	12.3	7.1		3.00	24250	66	62	80
HTMV/ATEX-63-6T-0.75	930	3.46	2		0.55	13600	55	51	66
HTMV/ATEX-63-6T-1	930	4.16	2.4		0.75	15900	57	53	62
HTMV/ATEX-71-4T-2	1400	6.93	4		1.50	20900	68	64	73
HTMV/ATEX-71-4T-3	1410	9.01	5.2		2.20	25100	67	63	79
HTMV/ATEX-71-4T-4	1440	12.3	7.1		3.00	27500	68	64	87
HTMV/ATEX-71-6T-0.75	930	3.46	2		0.55	16100	56	53	73
HTMV/ATEX-71-6T-1	930	4.16	2.4		0.75	17300	57	53	69
HTMV/ATEX-71-6T-1.5	910	5.89	3.4		1.10	19950	58	54	77
HTMV/ATEX-80-4T-4	1440	12.3	7.1		3.00	30250	71	67	109
HTMV/ATEX-80-4T-5.5	1450	15.76	9.1		4.00	32750	71	67	112
HTMV/ATEX-80-6T-1.5	910	5.89	3.4		1.10	21450	61	57	99
HTMV/ATEX-80-6T-2	940	7.62	4.4		1.50	25950	62	58	107
HTMV/ATEX-80-6T-3	940	9.35	5.4		2.20	29950	63	59	105
HTMV/ATEX-90-4T-5.5	1450	15.76	9.1		4.00	38900	75	71	125
HTMV/ATEX-90-4T-7.5	1440		12	6.93	5.50	46150	74	70	151
HTMV/ATEX-90-4T-10	1448		16.3	9.41	7.50	50150	73	69	110
HTMV/ATEX-90-6T-2	940	7.62	4.4		1.50	28800	64	60	120
HTMV/ATEX-90-6T-3	940	9.35	5.4		2.20	34000	65	60	119
HTMV/ATEX-90-6T-4	945	14.72	8.5		3.00	38900	66	62	147
HTMV/ATEX-100-4T-7.5	1440		12	6.93	5.50	46850	79	75	162
HTMV/ATEX-100-4T-10	1448		16.3	9.41	7.50	57400	77	73	121
HTMV/ATEX-100-4T-15	1460		23.8	13.74	11.00	66300	76	72	217
HTMV/ATEX-100-4T-20	1450		30.6	17.67	15.00	76150	78	74	234
HTMV/ATEX-100-6T-3	940	9.35	5.4		2.20	37600	67	64	131
HTMV/ATEX-100-6T-4	945	14.72	8.5		3.00	41150	67	62	159
HTMV/ATEX-100-6T-5.5	950	18.88	10.9		4.00	47800	68	64	156
HTMV/ATEX-125-4T/3-25	1474		35.7	20.6	18.50	98350	81	76	546
HTMV/ATEX-125-4T/3-30	1465		42	24	22.00	110350	82	77	424
HTMV/ATEX-125-4T/3-40	1471		55	31.8	30.00	125000	83	78	579
HTMV/ATEX-125-4T/6-25	1474		35.7	20.6	18.50	92550	80	75	555
HTMV/ATEX-125-4T/6-30	1465		42	24	22.00	98850	80	75	433
HTMV/ATEX-125-4T/6-40	1471		55	31.8	30.00	117450	82	77	587
HTMV/ATEX-125-4T/6-50	1480		69	39.9	37.00	131050	83	78	643
HTMV/ATEX-125-4T/9-25	1474		35.7	20.6	18.50	79650	78	73	564
HTMV/ATEX-125-4T/9-30	1465		42	24	22.00	88300	79	74	442
HTMV/ATEX-125-4T/9-40	1471		55	31.8	30.00	104050	81	76	596
HTMV/ATEX-125-4T/9-50	1480		69	39.9	37.00	118400	83	78	652
HTMV/ATEX-125-6T/3-4	945	14.72	8.5		3.00	46750	70	65	255
HTMV/ATEX-125-6T/3-5.5	950	18.88	10.9		4.00	55400	70	66	252
HTMV/ATEX-125-6T/3-7.5	950		14	8.08	5.50	68400	71	67	233
HTMV/ATEX-125-6T/3-10	965		16.4	9.47	7.50	79150	73	69	236
HTMV/ATEX-125-6T/3-15	965		23.3	13.45	11.00	87150	74	70	320
HTMV/ATEX-125-6T/3-20	972		29.7	17.1	15.00	91650	75	71	550
HTMV/ATEX-125-6T/6-5.5	950	18.88	10.9		4.00	51500	66	62	261
HTMV/ATEX-125-6T/6-7.5	950		14	8.08	5.50	60650	66	62	242

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure (1) level dB(A)		Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Aspiration	Discharge	(Kg)
HTMV/ATEX-125-6T/6-10	965		16.4	9.47	7.50	72650	68	64	245
HTMV/ATEX-125-6T/6-15	965		23.3	13.45	11.00	85850	70	66	329
HTMV/ATEX-125-6T/6-20	972		29.7	17.1	15.00	92850	71	67	559
HTMV/ATEX-125-6T/9-10	965		16.4	9.47	7.50	63500	68	64	254
HTMV/ATEX-125-6T/9-15	965		23.3	13.45	11.00	77550	71	67	338
HTMV/ATEX-125-6T/9-20	972		29.7	17.1	15.00	92950	74	70	568

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

The indicated values are determined by measuring the pressure and noise level and noise level in dB(A) obtained in a free field at a distance of 6 m.

Noise power spectrum Lw(A) in dB(A) frequency band in [Hz]

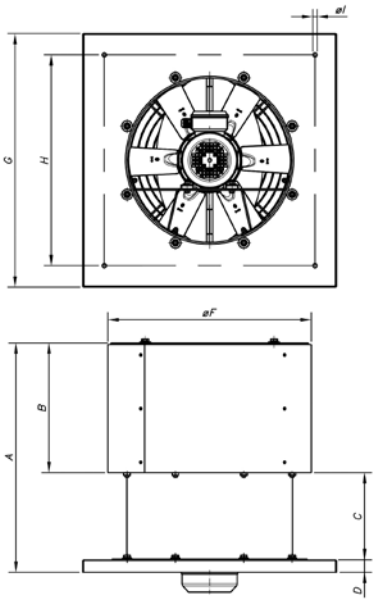
Values taken during aspiration with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
40-4-0,75	36	57	64	69	72	68	61	50
40-6-0,75	25	46	53	58	61	57	50	39
45-4-0,75	40	61	68	73	76	72	65	54
45-6-0,75	27	48	55	60	63	59	52	41
50-4-1	44	64	72	77	79	76	69	58
50-6-0,75	32	52	60	65	67	64	57	46
56-4-1	48	68	76	81	83	80	73	62
56-4-1,5	49	69	77	82	84	81	74	63
56-4-2	50	70	78	83	85	82	75	64
56-6-0,75	37	57	65	70	72	69	62	51
63-4-1,5	48	68	76	81	83	80	73	65
63-4-2	52	68	76	81	83	80	73	66
63-4-3	53	70	78	83	85	82	77	67
63-4-4	54	71	79	84	86	83	78	68
63-6-0,75	42	60	68	73	75	72	65	56
63-6-1	43	62	70	75	77	74	67	57
71-4-2	53	73	81	86	88	85	78	70
71-4-3	58	72	80	85	87	84	77	71
71-4-4	59	73	81	86	88	85	78	72
71-6-0,75	44	63	72	74	76	73	66	55
71-6-1	45	65	73	75	77	74	67	56
71-6-1,5	46	66	71	76	78	75	68	57
80-4-4	56	76	84	89	91	88	81	74
80-4-5,5	56	76	84	89	91	88	81	74
80-6-1,5	49	66	74	79	81	78	71	60
80-6-2	50	67	75	80	82	79	72	61
80-6-3	51	68	76	81	83	80	73	62
90-4-5,5	60	81	88	93	96	92	85	74
90-4-7,5	59	80	87	92	95	91	84	73
90-4-10	58	79	86	91	94	90	83	72
90-6-2	49	70	77	82	85	81	74	63
90-6-3	56	70	77	82	85	81	74	63
90-6-4	57	72	79	84	87	83	76	65
100-4-7,5	64	84	92	97	99	96	89	78
100-4-10	62	82	90	95	97	94	87	76
100-4-15	61	81	89	94	96	93	86	75
100-4-20	63	83	91	96	98	95	88	77
100-6-3	61	72	80	85	87	84	77	66
100-6-4	64	72	80	85	87	84	77	66
100-6-5,5	64	73	81	86	88	85	78	67
125-4/3-25	73	79	91	101	101	97	89	85
125-4/3-30	74	80	92	102	102	98	90	86
125-4/3-40	75	81	93	103	103	99	91	87
125-4/6-25	68	76	92	99	101	96	90	86
125-4/6-30	68	76	92	99	101	96	90	86
125-4/6-40	70	78	94	101	103	98	92	88
125-4/6-50	71	79	95	102	104	99	93	89
125-4/9-25	66	74	91	97	98	93	88	84
125-4/9-30	67	75	92	98	99	94	89	85
125-4/9-40	69	77	94	100	101	96	91	87
125-4/9-50	71	79	96	102	103	98	93	89
125-6/3-4	66	74	86	90	88	83	74	70
125-6/3-5.5	66	74	86	90	88	83	74	70
125-6/3-7.5	67	75	87	91	89	84	75	71
125-6/3-10	69	77	89	93	91	86	77	73
125-6/3-15	70	78	90	94	92	87	78	74
125-6/3-20	71	79	91	95	93	88	79	75
125-6/6-5.5	60	69	82	85	86	83	72	68
125-6/6-7.5	60	69	82	85	86	83	72	68
125-6/6-10	62	71	84	87	88	85	74	70
125-6/6-15	64	73	86	89	90	87	76	72
125-6/6-20	65	74	87	90	91	88	77	73
125-6/9-10	58	68	83	87	86	85	74	70
125-6/9-15	61	71	86	90	89	88	77	73
125-6/9-20	64	74	89	93	92	91	80	76

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
40-4-0,75	31	52	59	64	67	63	56	45
40-6-0,75	21	42	49	54	57	53	46	35
45-4-0,75	35	56	63	68	71	67	60	49
45-6-0,75	23	44	51	56	59	55	48	37
50-4-1	39	59	67	72	74	71	64	53
50-6-0,75	28	48	56	61	63	60	53	42
56-4-1	43	63	71	76	78	75	68	57
56-4-1,5	44	64	72	77	79	76	69	58
56-4-2	45	65	73	78	80	77	70	59
56-6-0,75	33	53	61	66	68	65	58	47
63-4-1,5	44	64	72	77	79	76	69	60
63-4-2	47	64	72	77	79	76	69	61
63-4-3	48	66	74	79	81	78	73	62
63-4-4	49	67	75	80	82	79	74	63
63-6-0,75	38	56	64	69	71	68	61	52
63-6-1	39	58	66	71	73	70	63	53
71-4-2	49	69	77	82	84	81	74	65
71-4-3	53	68	76	81	83	80	73	67
71-4-4	54	69	77	82	84	81	74	68
71-6-0,75	40	60	68	71	73	70	63	52
71-6-1	41	61	69	71	73	70	63	52
71-6-1,5	42	62	67	72	74	71	64	53
80-4-4	52	72	80	85	87	84	77	69
80-4-5,5	52	72	80	85	87	84	77	70
80-6-1,5	45	62	70	75	77	74	67	56
80-6-2	46	63	71	76	78	75	68	57
80-6-3	47	64	72	77	79	76	69	58
90-4-5,5	56	77	84	89	92	88	81	70
90-4-7,5	55	76	83	88	91	87	80	69
90-4-10	54	75	82	87	90	86	79	68
90-6-2	45	66	73	78	81	77	70	59
90-6-3	52	66	73	78	81	77	70	59
90-6-4	53	68	75	80	83	79	72	61
100-4-7,5	60	80	88	93	95	92	85	74
100-4-10	58	78	86	91	93	90	83	72
100-4-15	57	77	85	90	92	89	82	71
100-4-20	59	79	87	92	94	91	84	73
100-6-3	58	69	77	82	84	81	74	63
100-6-4	59	67	75	80	82	79	72	61
100-6-5,5	60	69	77	82	84	81	74	63
125-4/3-25	68	74	86	96	96	92	84	80
125-4/3-30	69	75	87	97	97	93	85	81
125-4/3-40	70	76	88	98	98	94	86	82
125-4/6-25	63	71	87	94	96	91	85	81
125-4/6-30	63	71	87	94	96	91	85	81
125-4/6-40	65	73	89	96	98	93	87	83
125-4/6-50	66	74	90	97	99	94	88	84
125-4/9-25	61	69	86	92	93	88	83	79
125-4/9-30	62	70	87	93	94	89	84	80
125-4/9-40	64	72	89	95	96	91	86	82
125-4/9-50	66	74	91	97	98	93	88	84
125-6/3-4	61	69	81	85	83	78	69	65
125-6/3-5.5	62	70	82	86	84	79	70	66
125-6/3-7.5	63	71	83	87	85	80	71	67
125-6/3-10	65	73	85	89	87	82	73	69
125-6/3-15	66	74	86	90	88	83	74	70
125-6/3-20	67	75	87	91	89	84	75	71
125-6/6-5.5	56	65	78	81	82	79	68	64
125-6/6-7.5	56	65	78	81	82	79	68	64
125-6/6-10	58	67	80	83	84	81	70	66
125-6/6-15	60	69	82	85	86	83	72	68
125-6/6-20	61	70	83	86	87	84	73	69
125-6/9-10	54	64	79	83	82	81	70	66
125-6/9-15	57	67	82	86	85	84	73	69
125-6/9-20	60	70	85	89	88	87	76	72

Dimensions mm



Model	A	B	C	D	ØF	G	H	ØI
HTMV/ATEX-40	690	360	244	35	519	630	530	12
HTMV/ATEX-45	700	374	244	35	569	710	590	12
HTMV/ATEX-50	740	412	244	35	626	900	750	12
HTMV/ATEX-56	770	438	244	40	686	900	750	14
HTMV/ATEX-63	810	475	244	40	753	1000	850	14
HTMV/ATEX-71	890	510	292	40	833	1000	850	14
HTMV/ATEX-80	950	555.5	292	50	923	1150	1000	14
HTMV/ATEX-90	1040	611	338	40	1031	1150	1000	14
HTMV/ATEX-100	1197	659	438	50	1128	1250	1100	14
HTMV/ATEX-125	1373	785.5	488	50	1376	1600	1450	17

Characteristic curves

See THT/ROOF series

Accessories

See accessories section


INT


AET


VSD


B


PA


MS

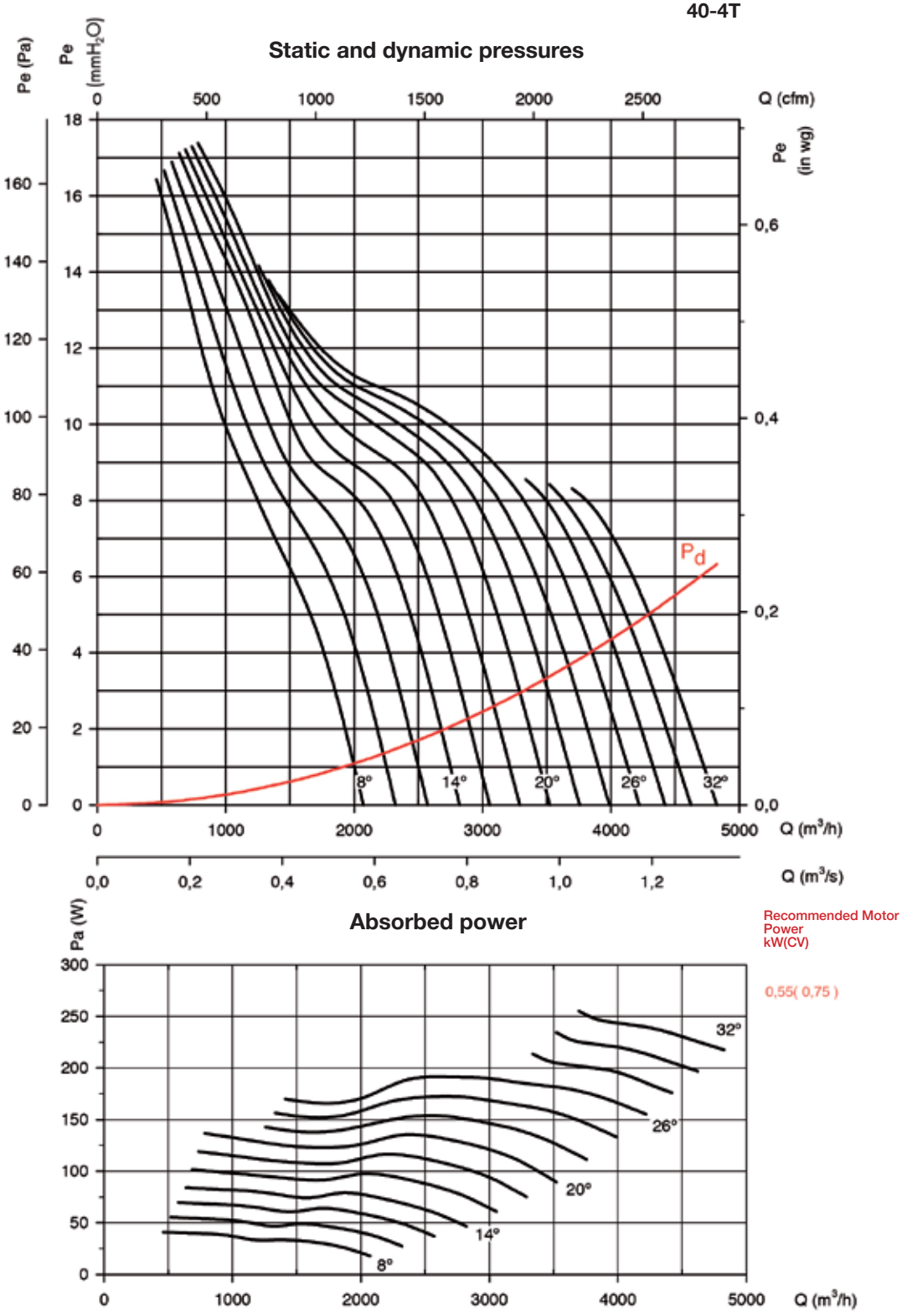

S


INT/ATEX

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

40-4T



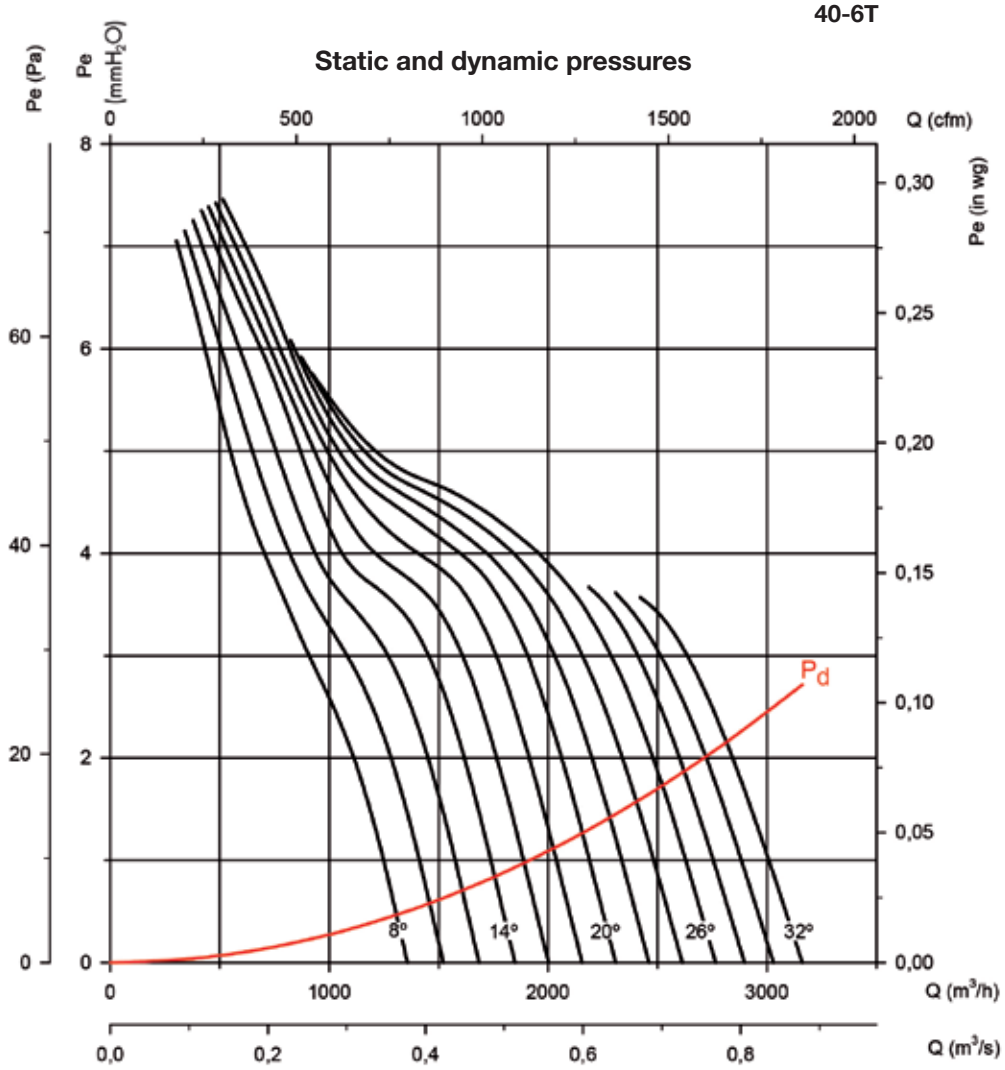
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

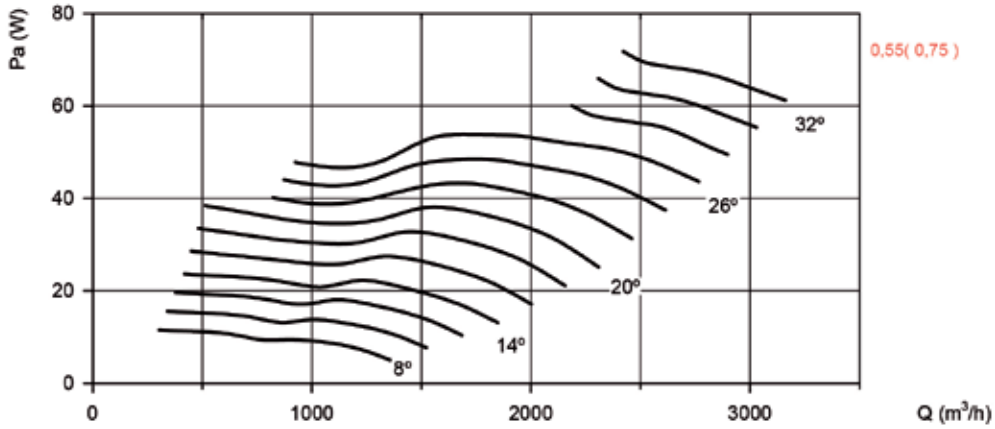
40-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



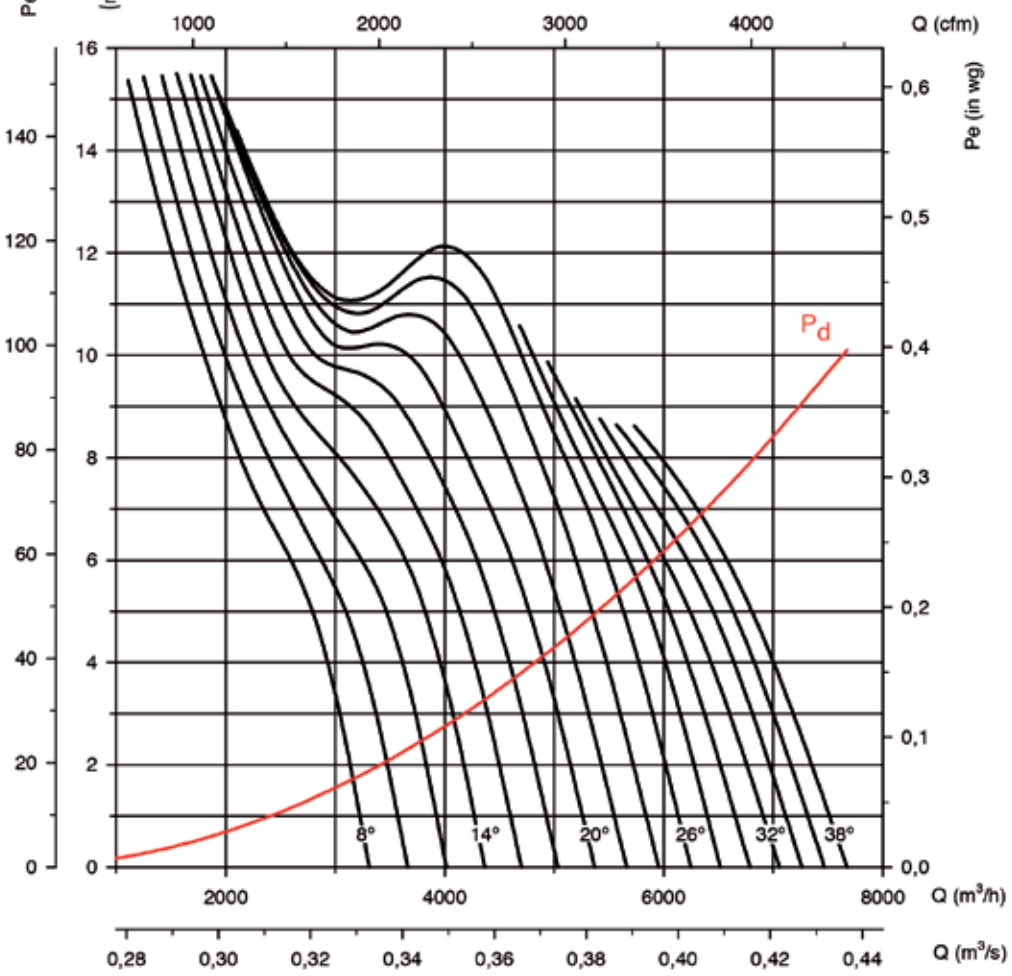
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

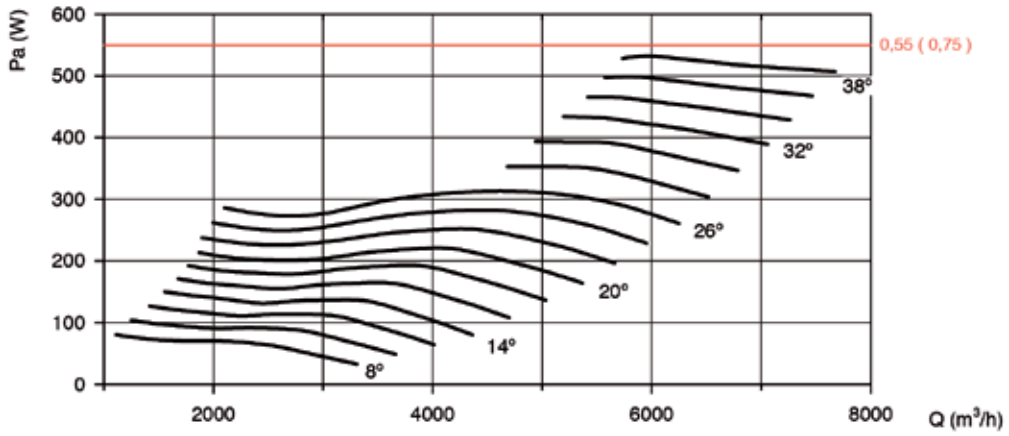
45-4T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



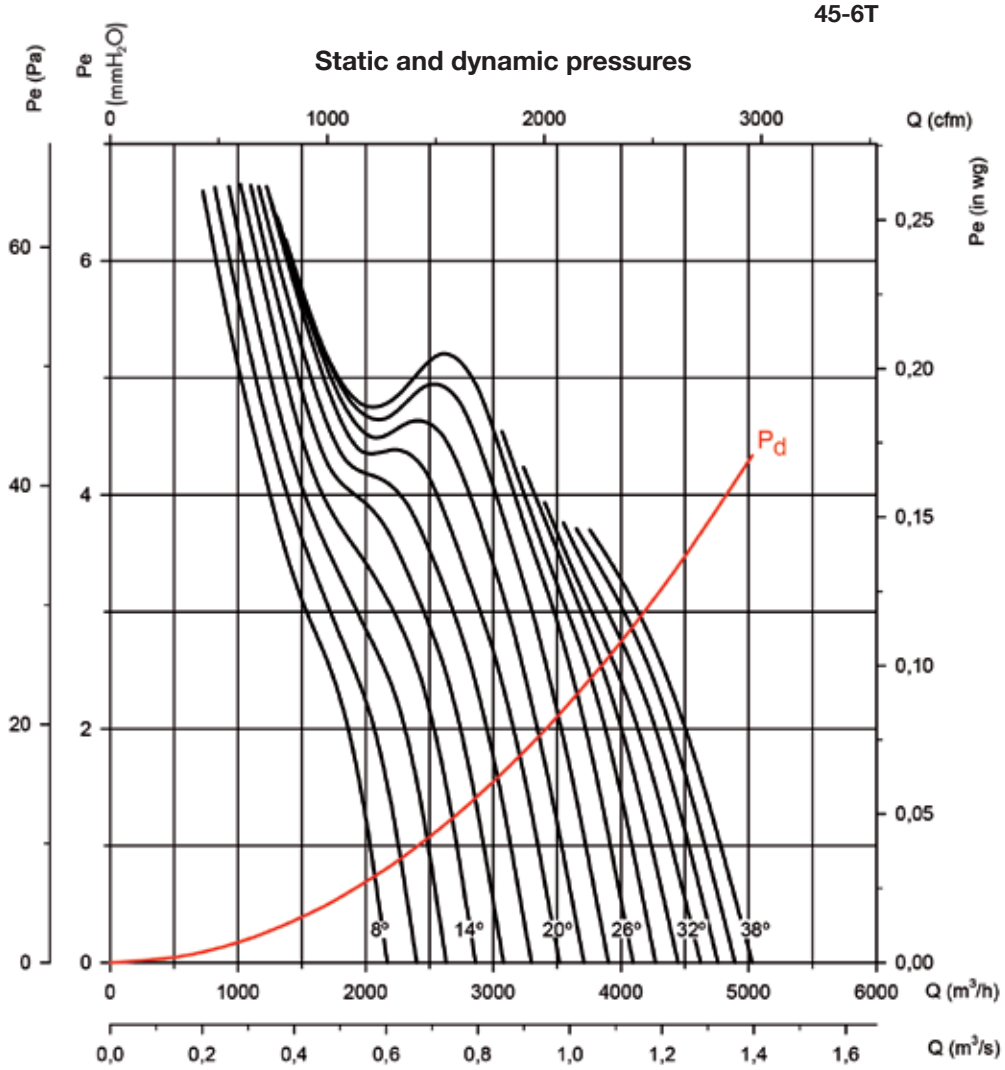
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

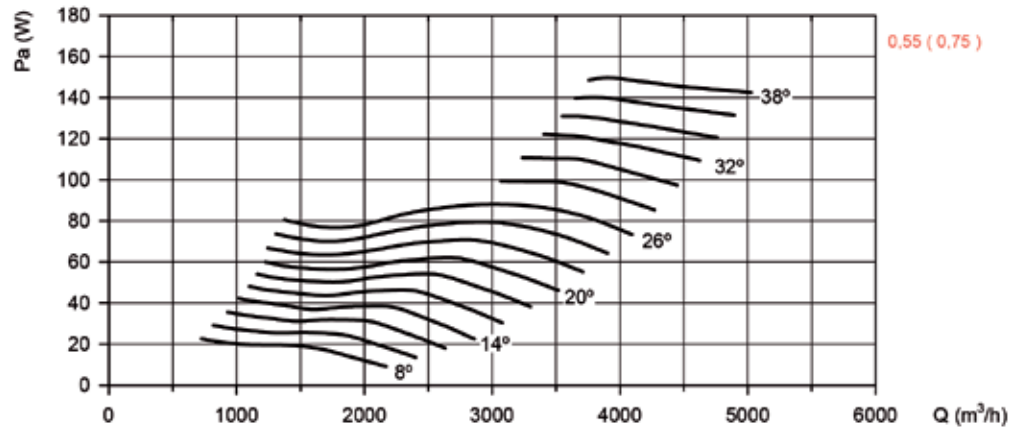
45-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



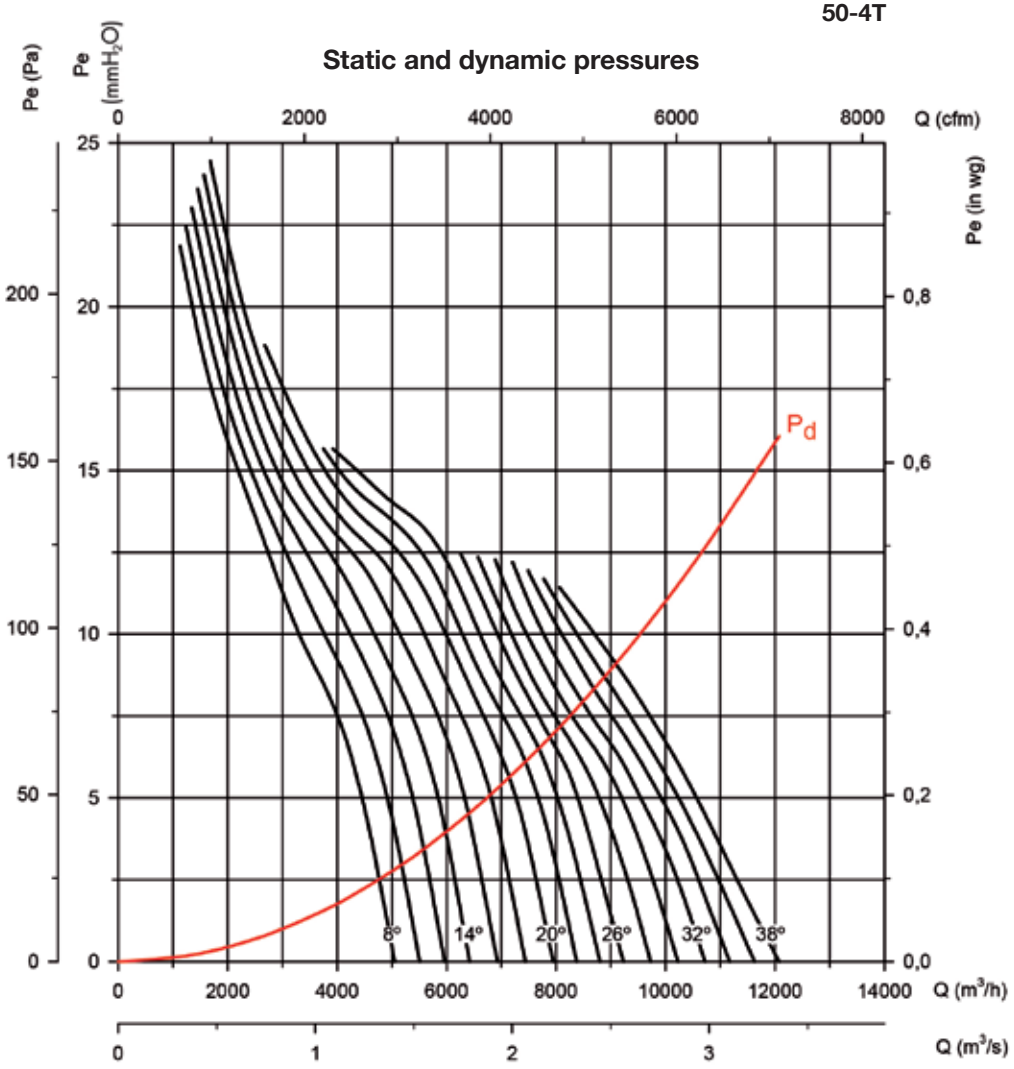
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

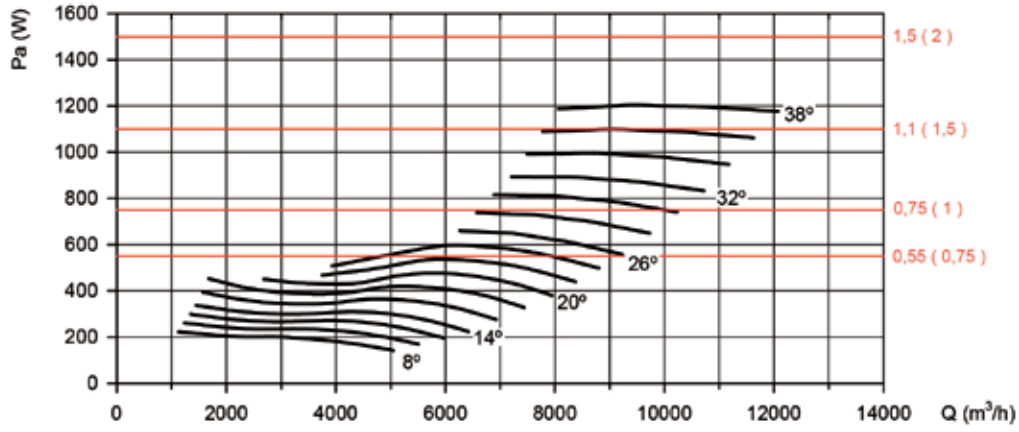
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

50-4T

Static and dynamic pressures



Absorbed power

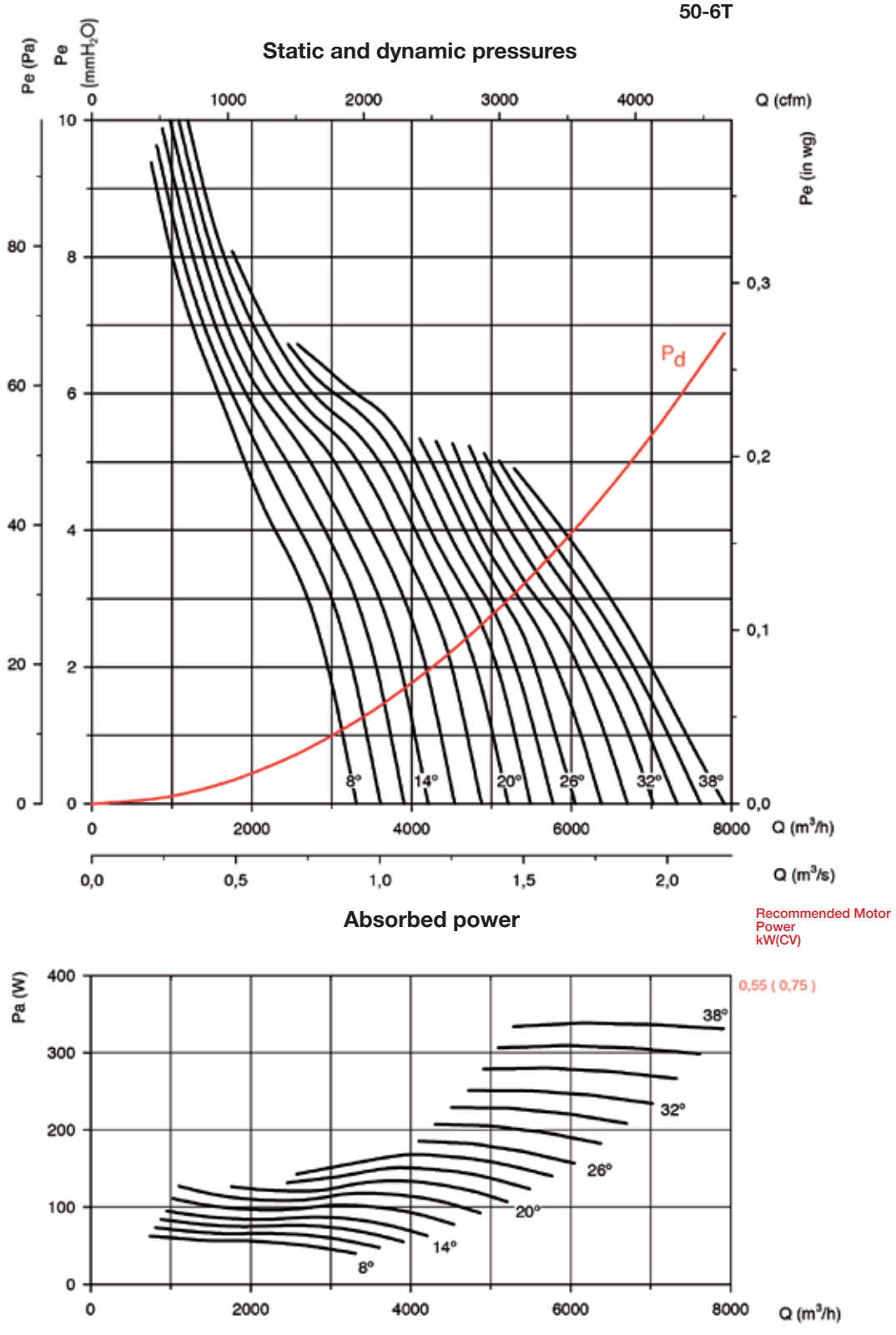


Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

50-6T

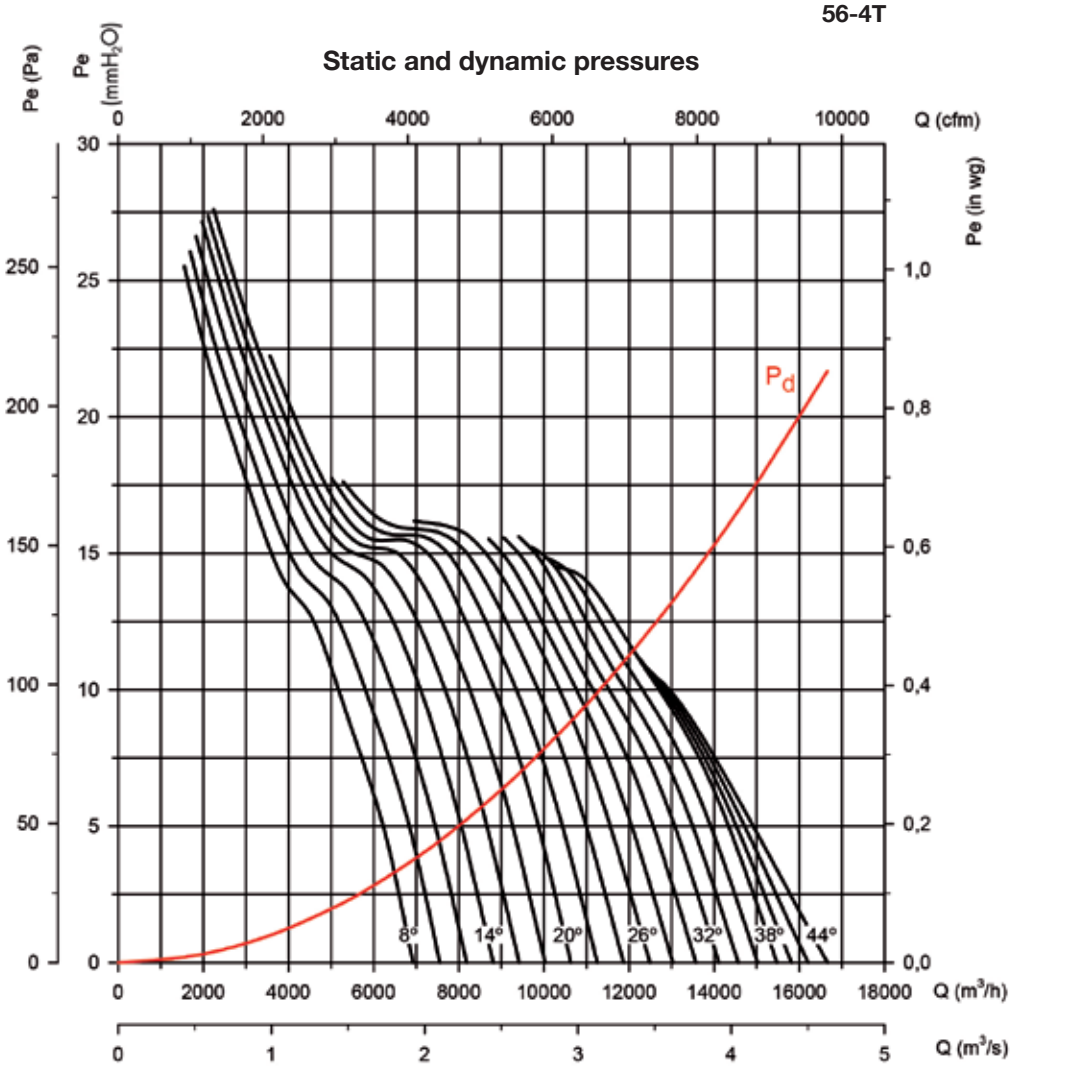


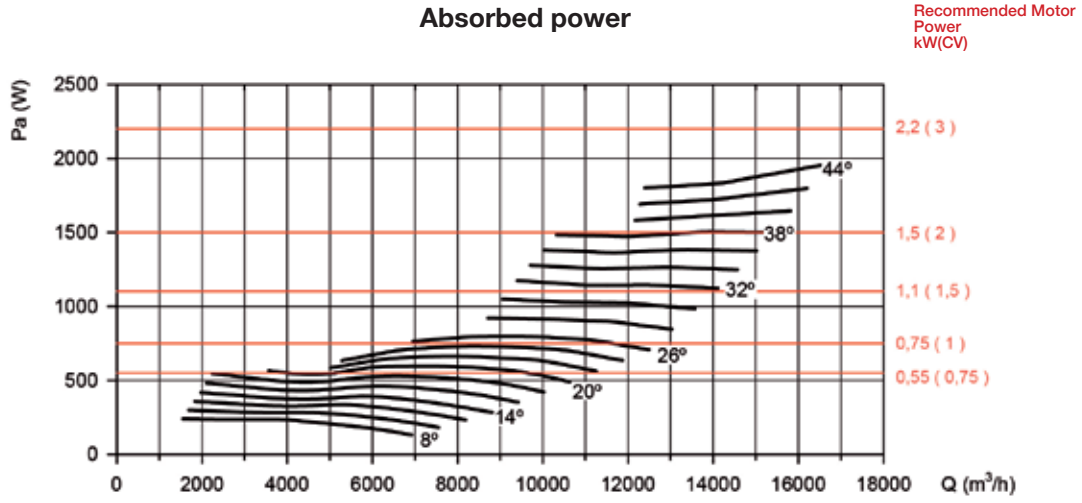
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

56-4T





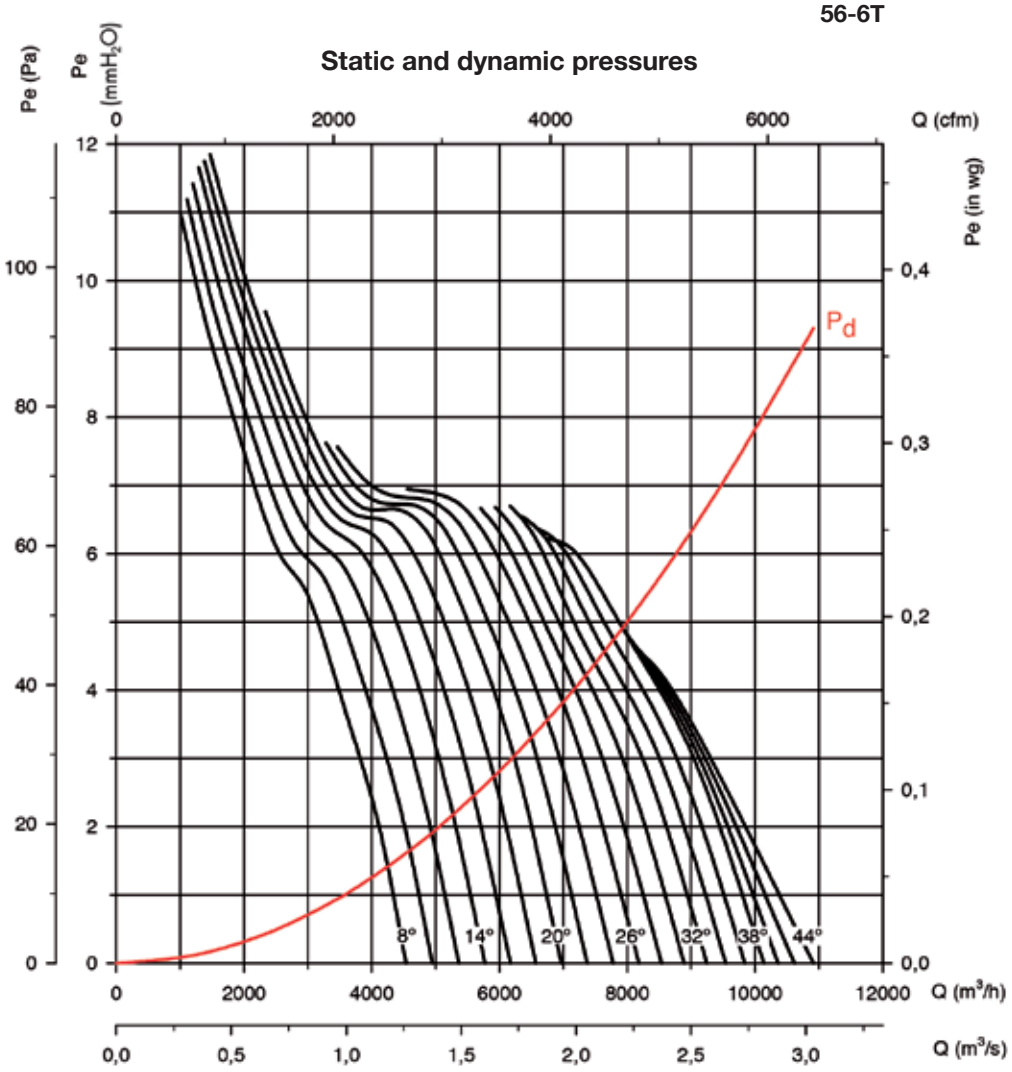
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

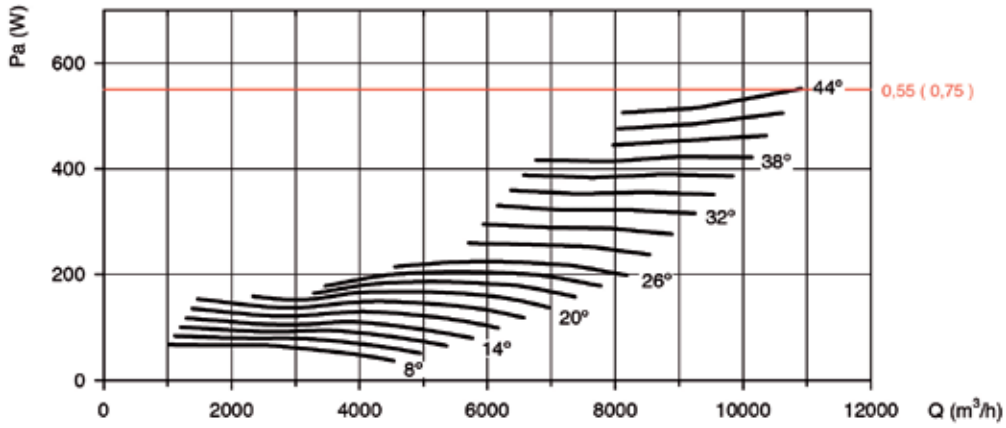
56-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



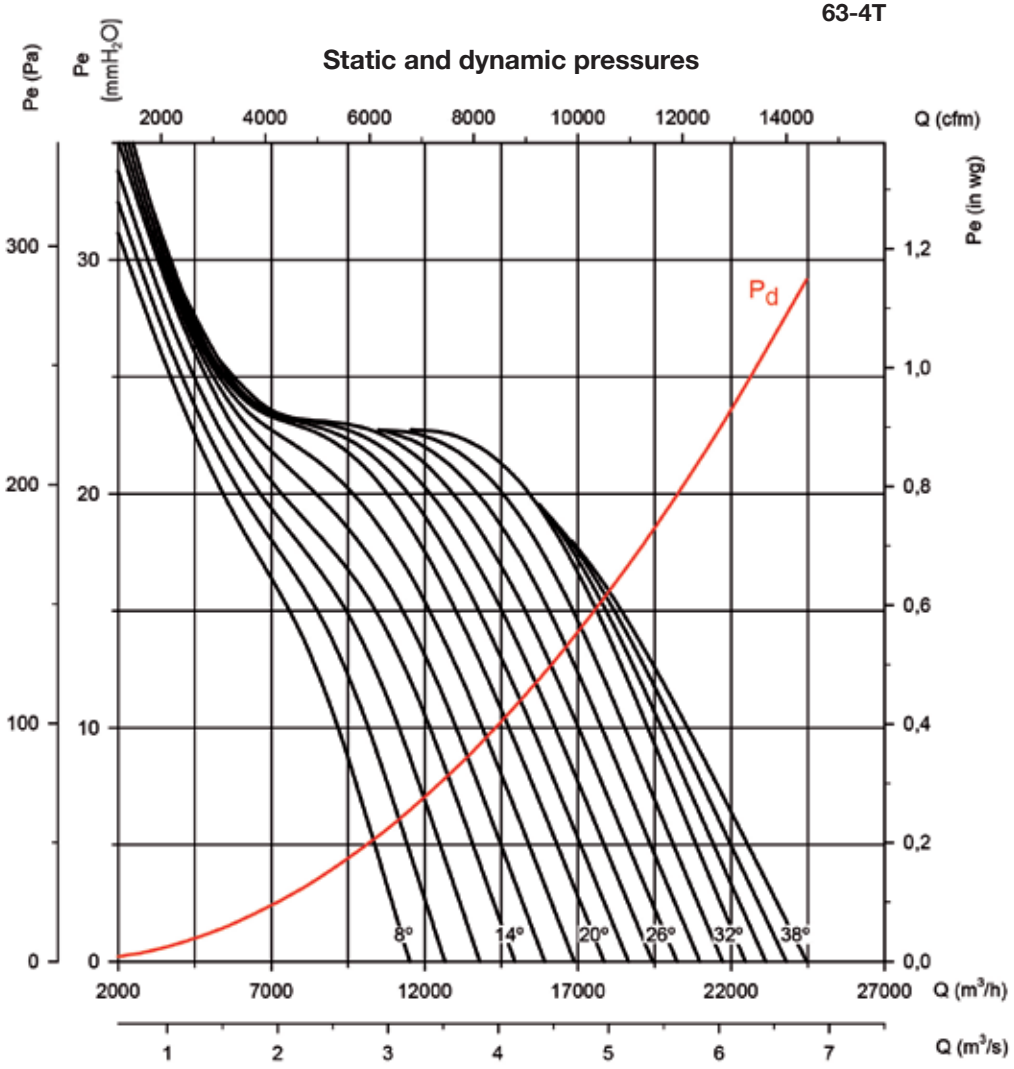
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

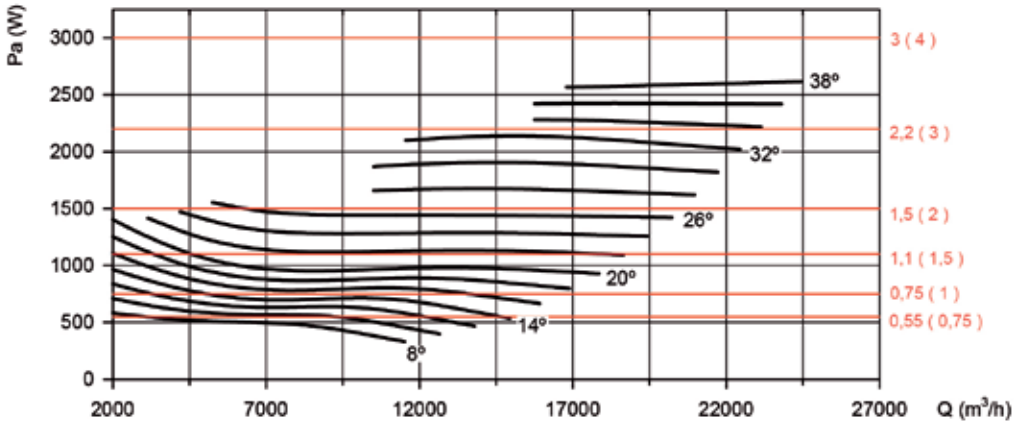
63-4T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



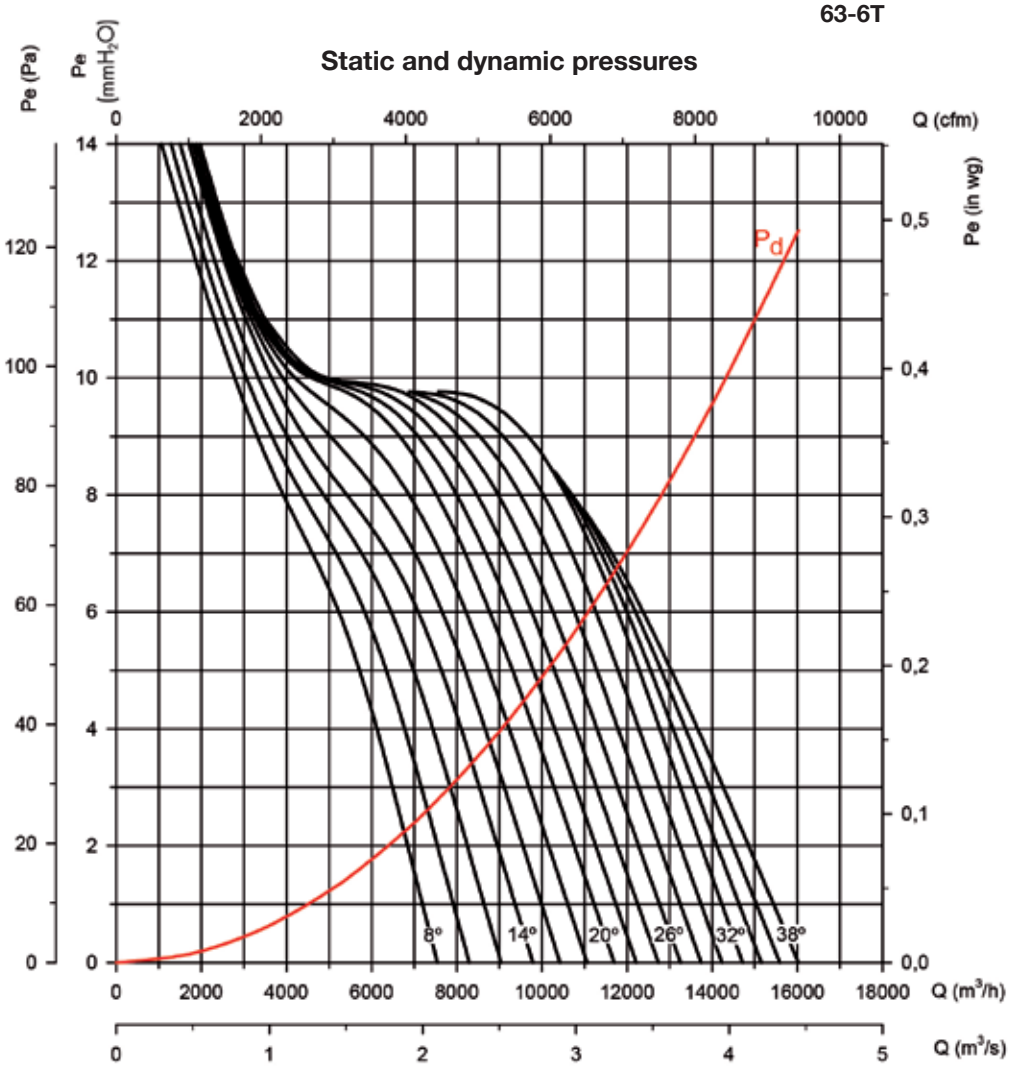
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

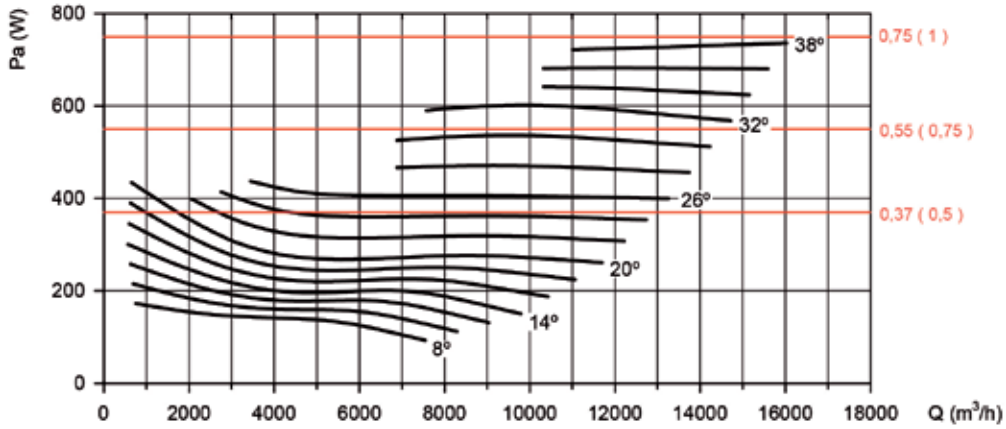
63-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



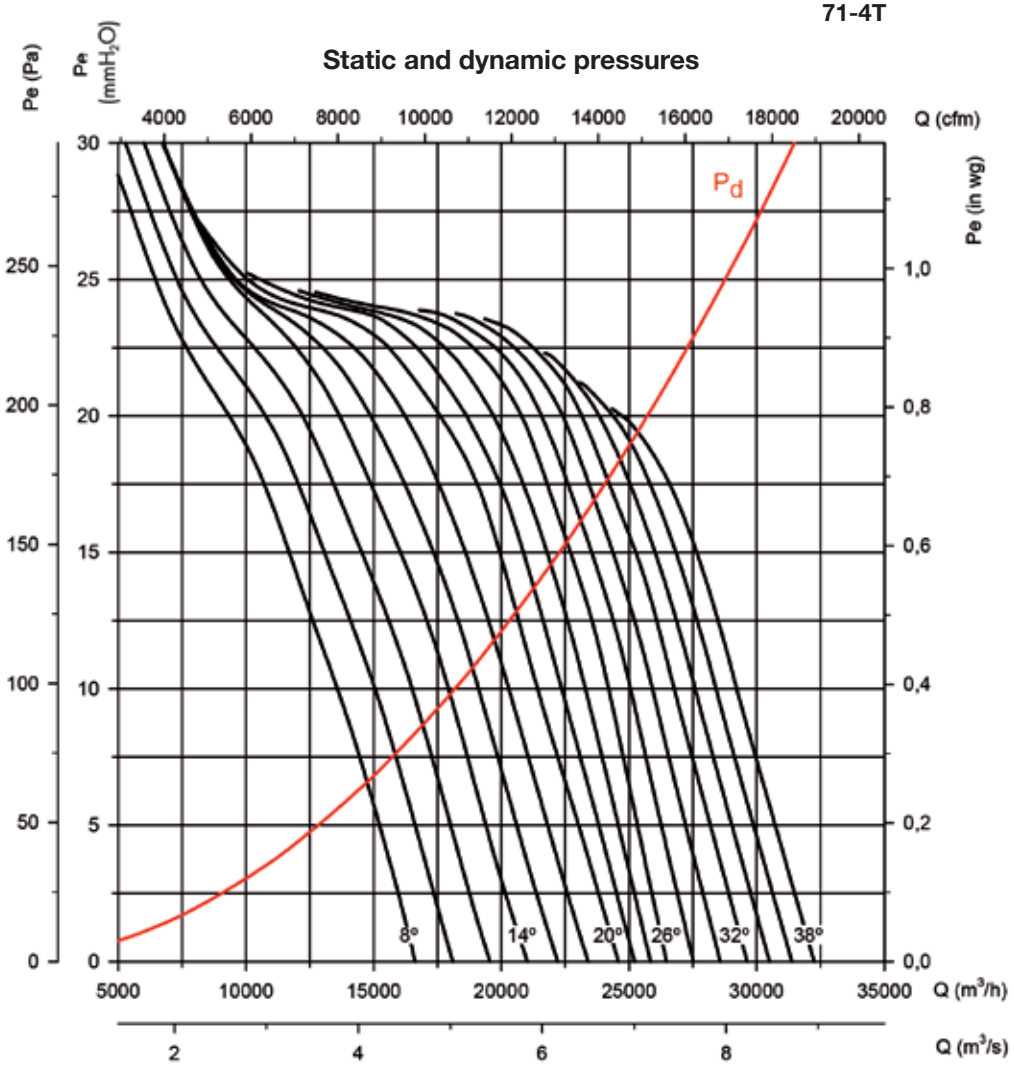
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

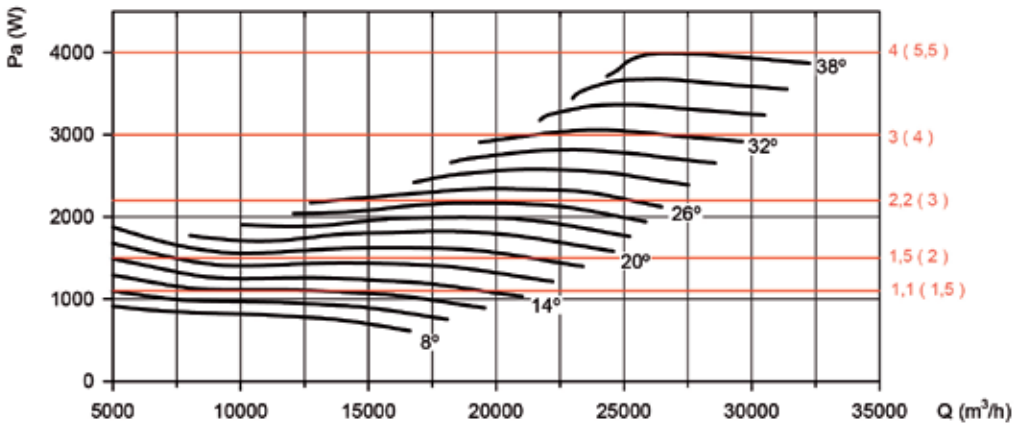
71-4T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



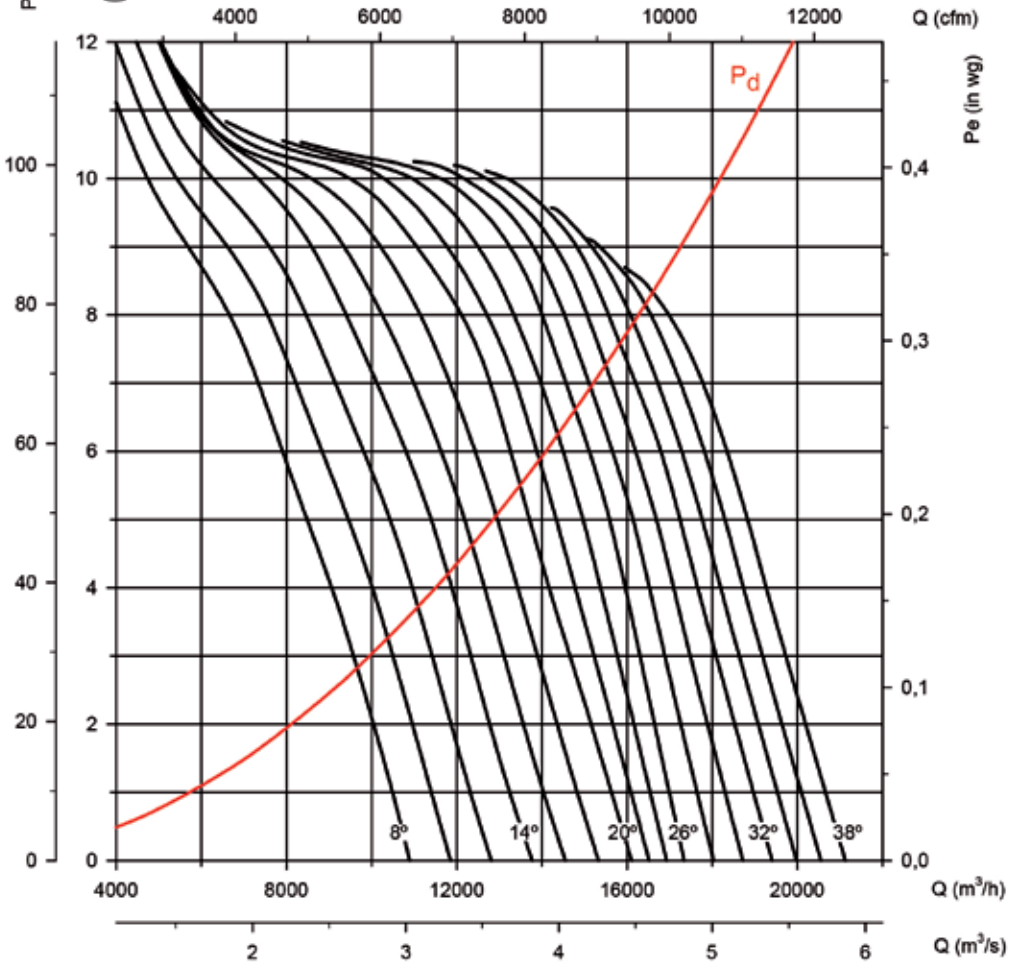
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

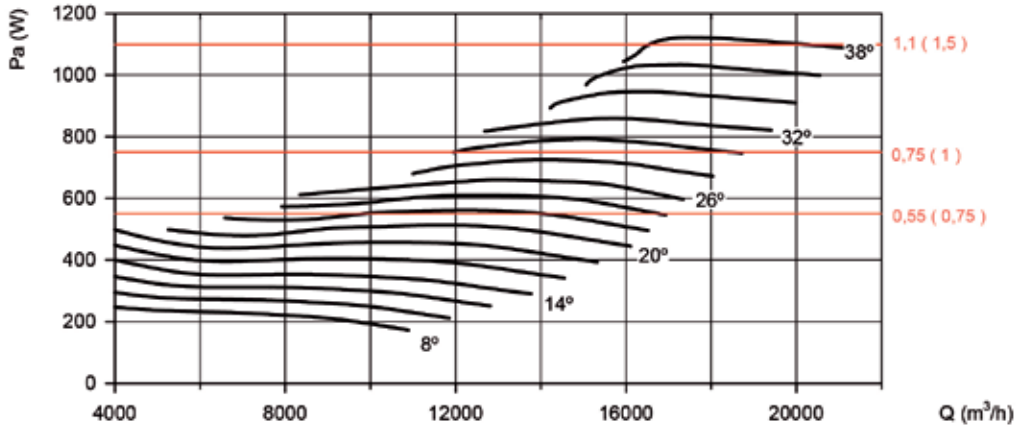
71-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



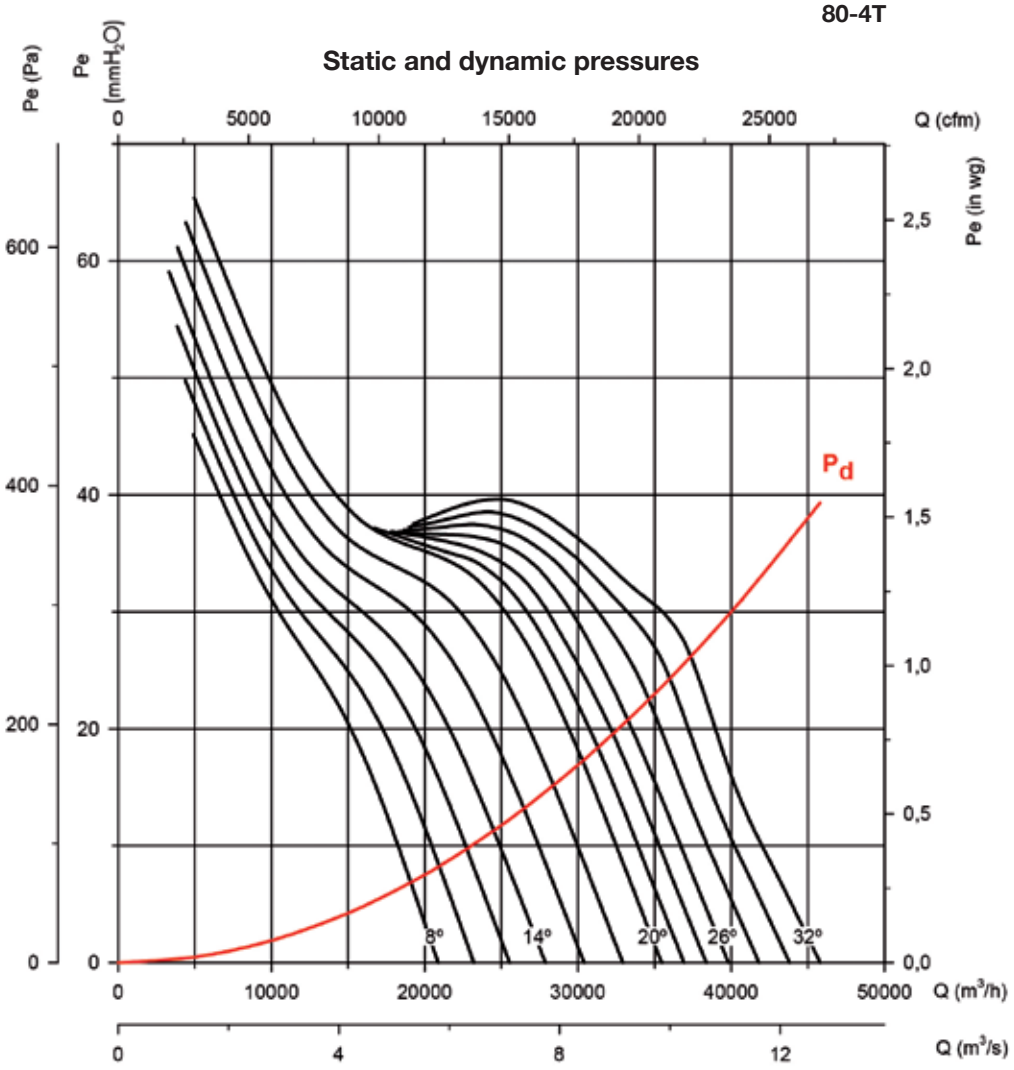
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

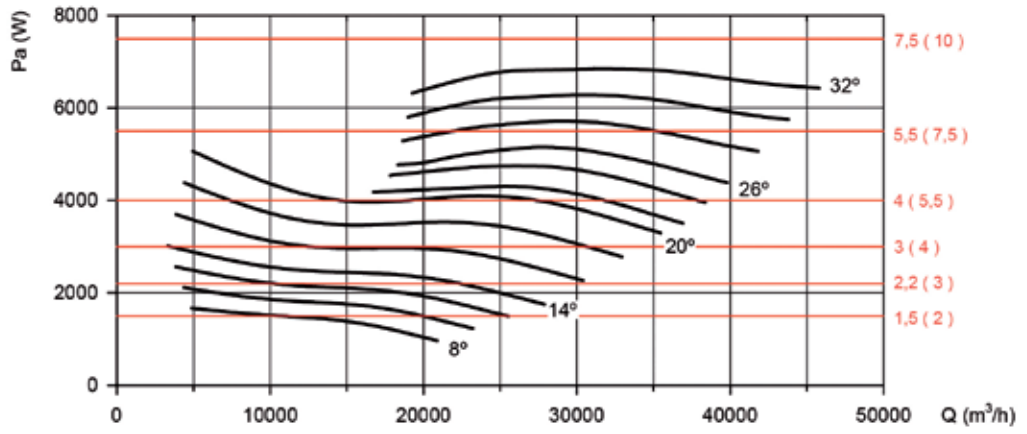
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

80-4T

Static and dynamic pressures



Absorbed power



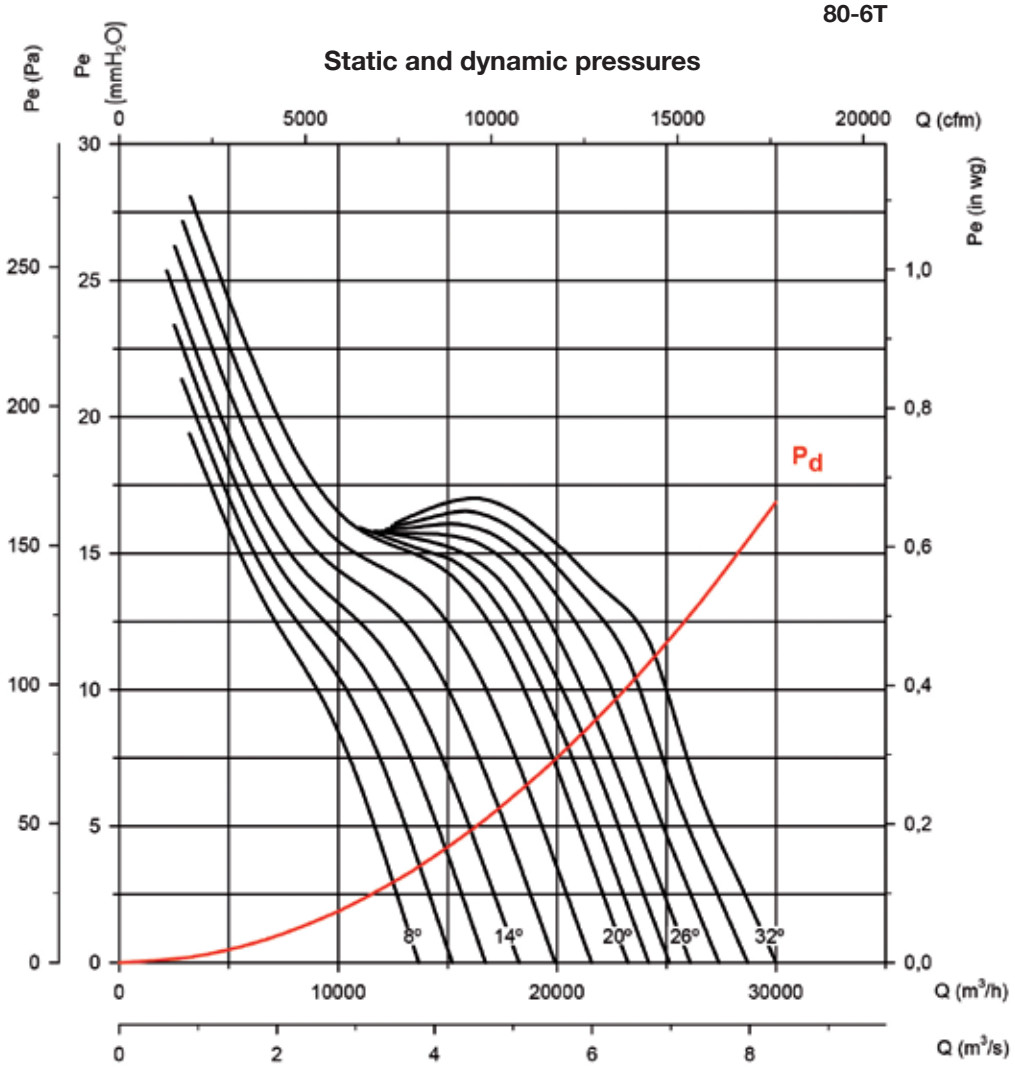
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

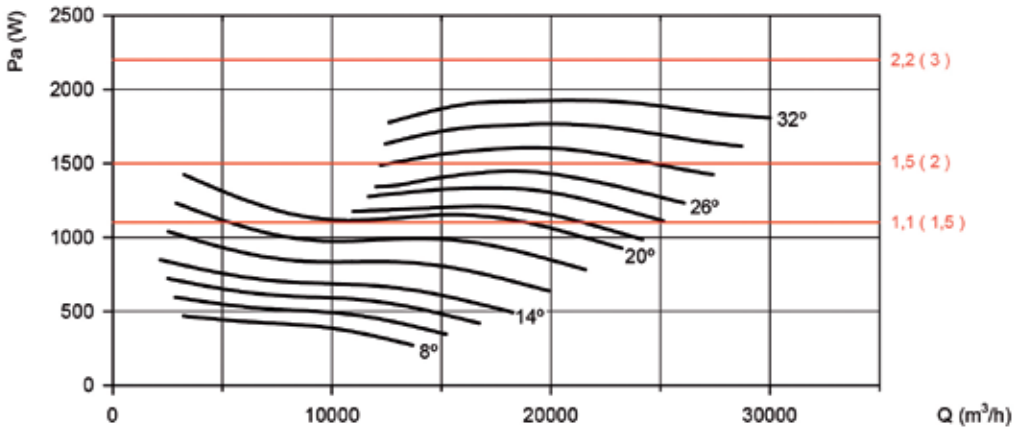
80-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)

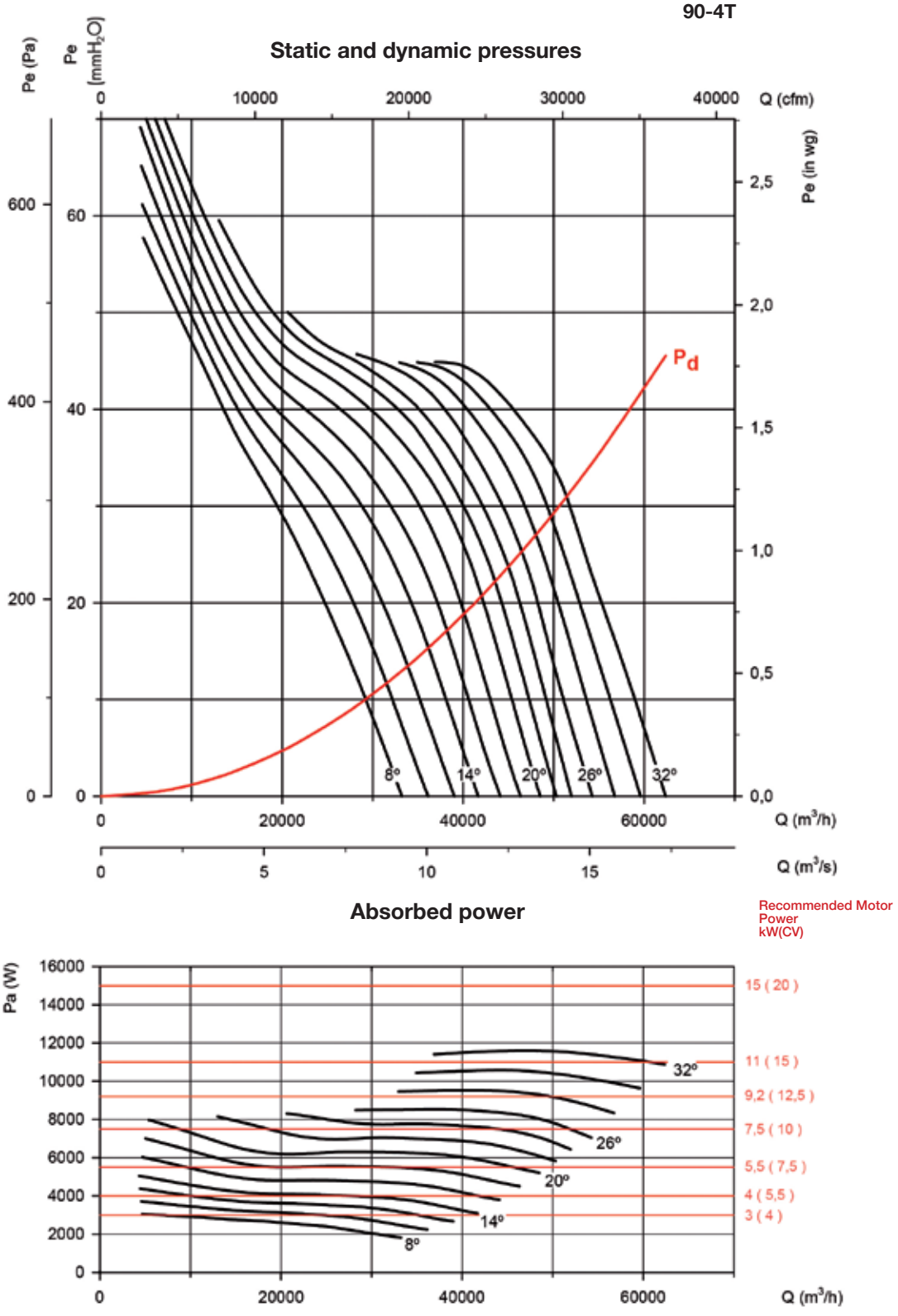


Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

90-4T



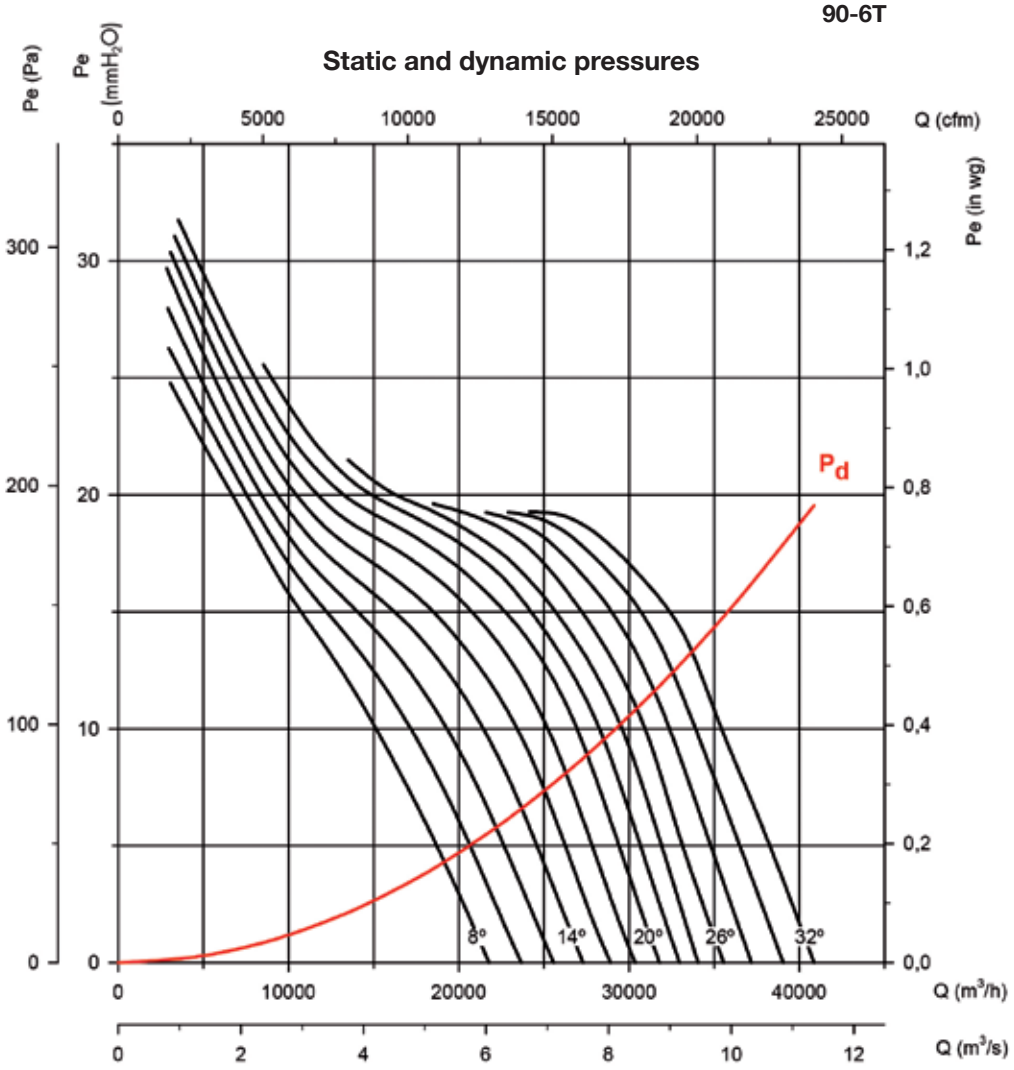
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

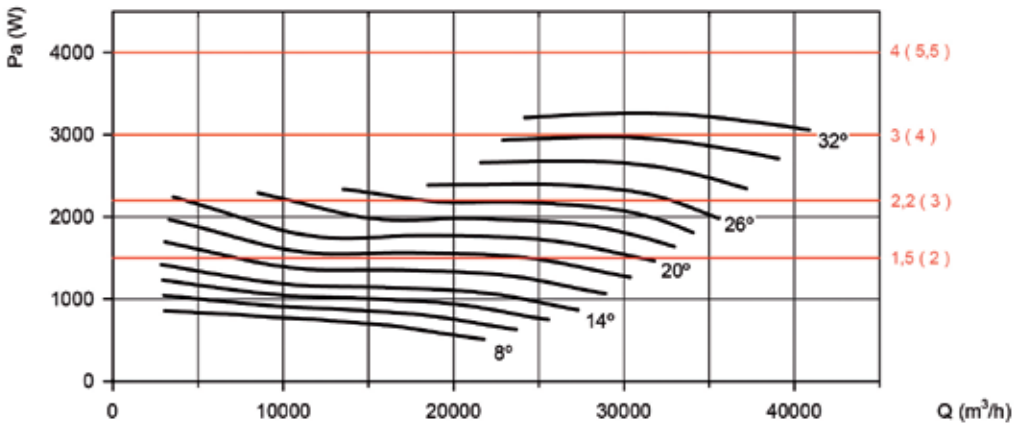
90-6T

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



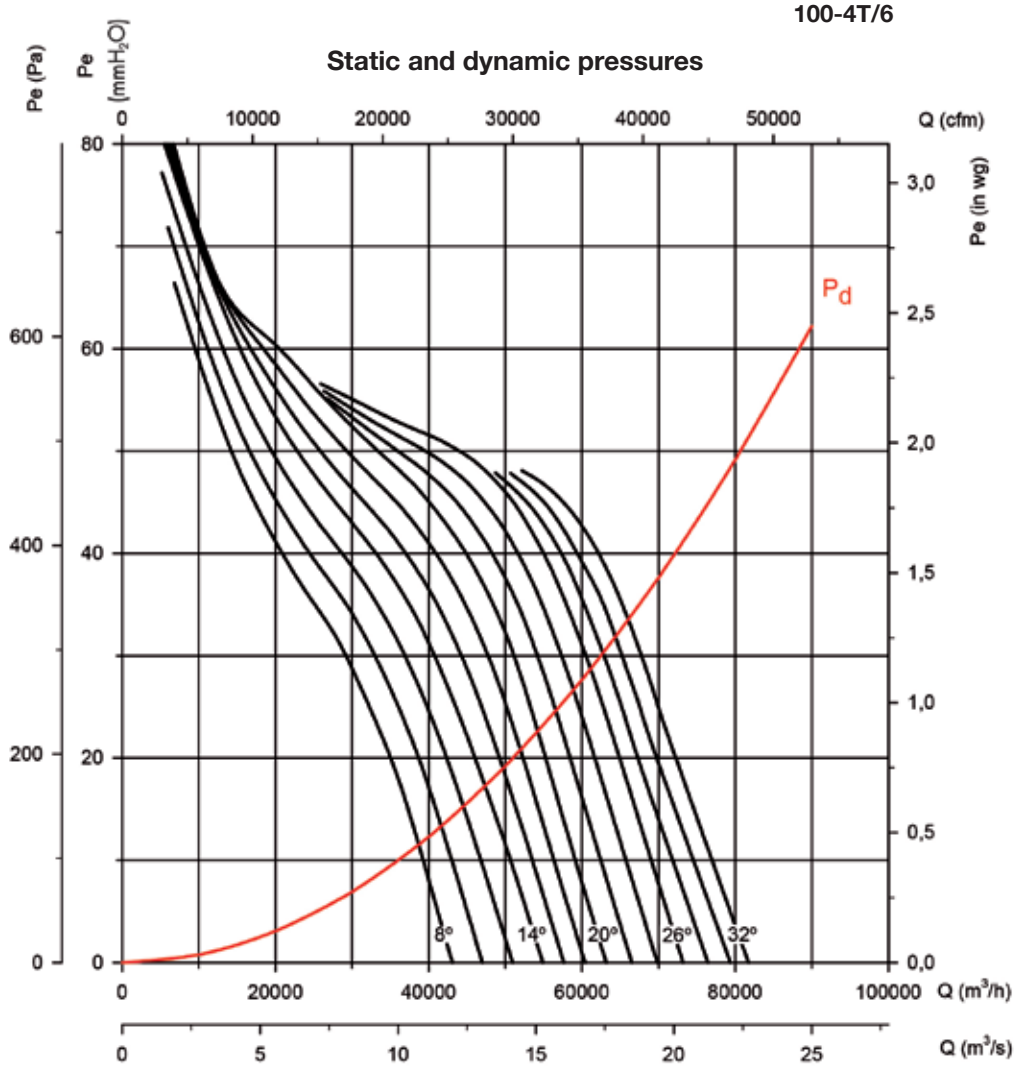
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

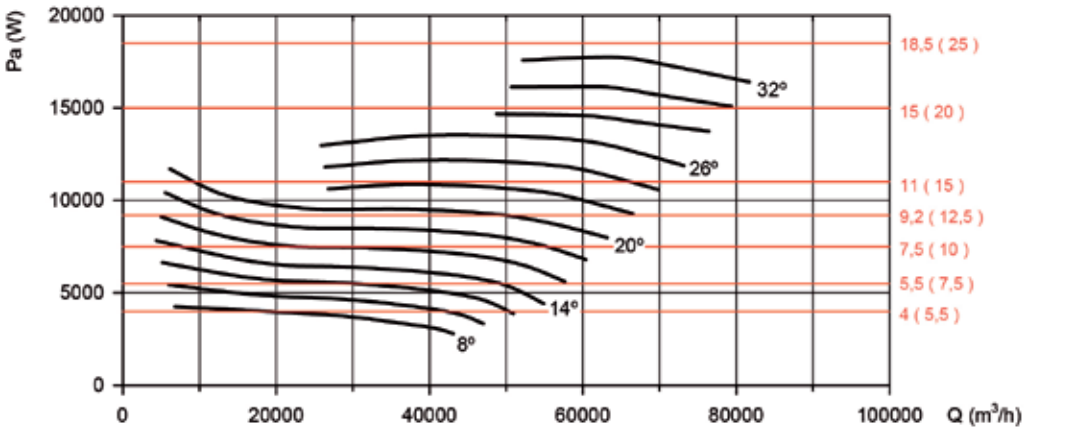
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

100-4T/6

Static and dynamic pressures



Absorbed power



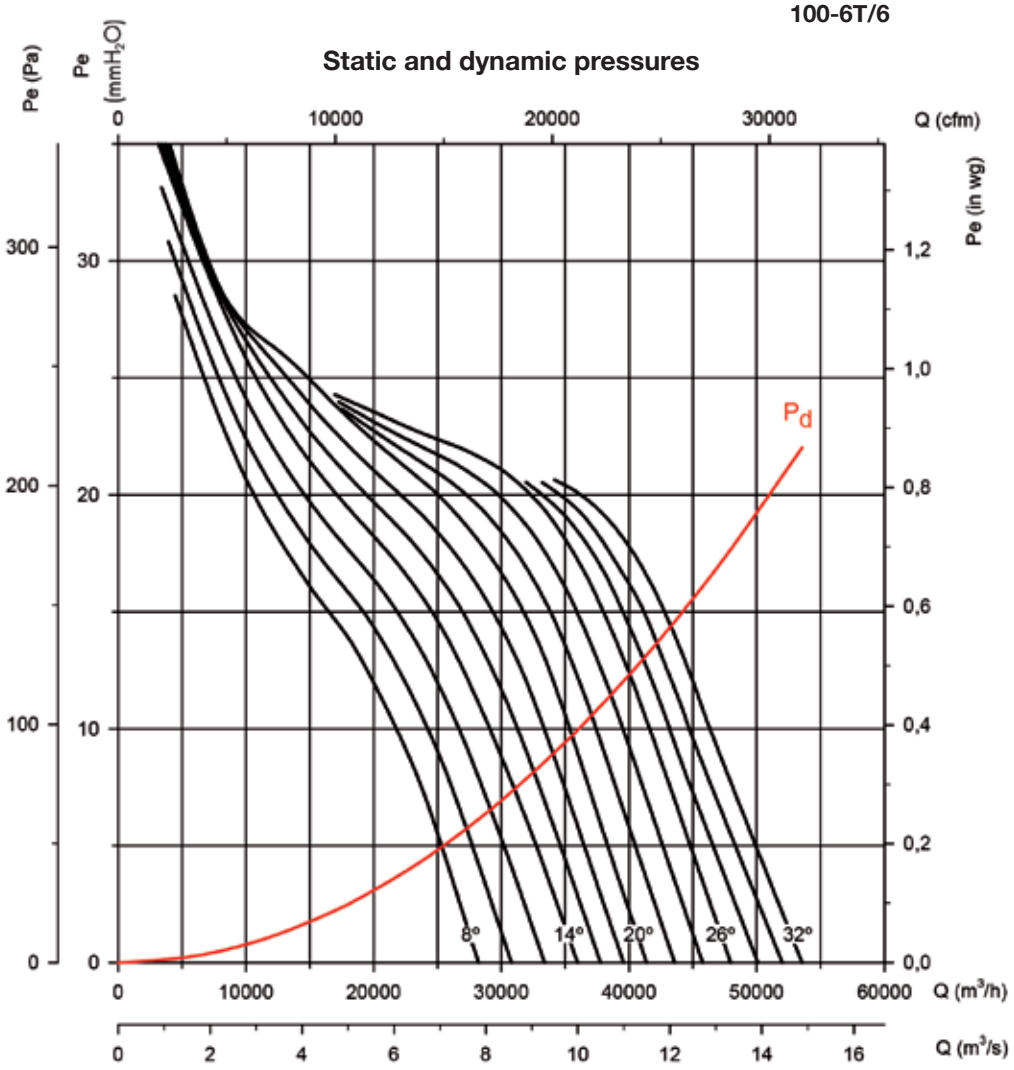
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

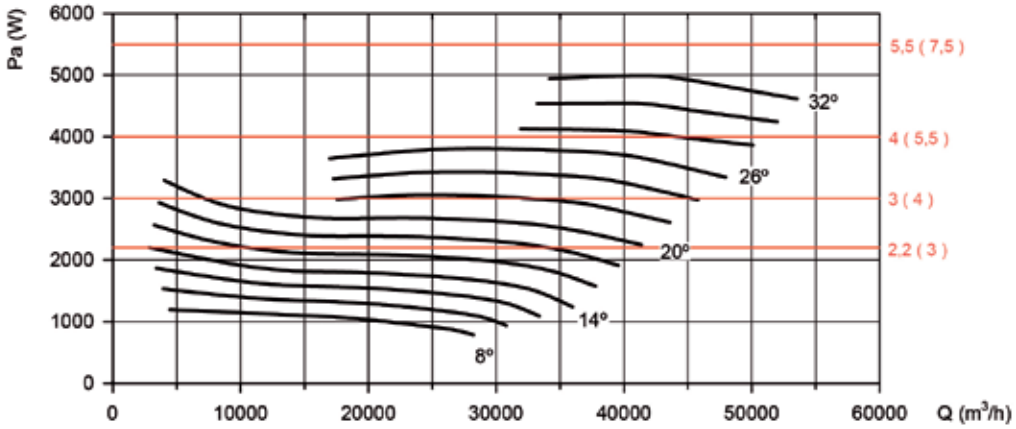
100-6T/6

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



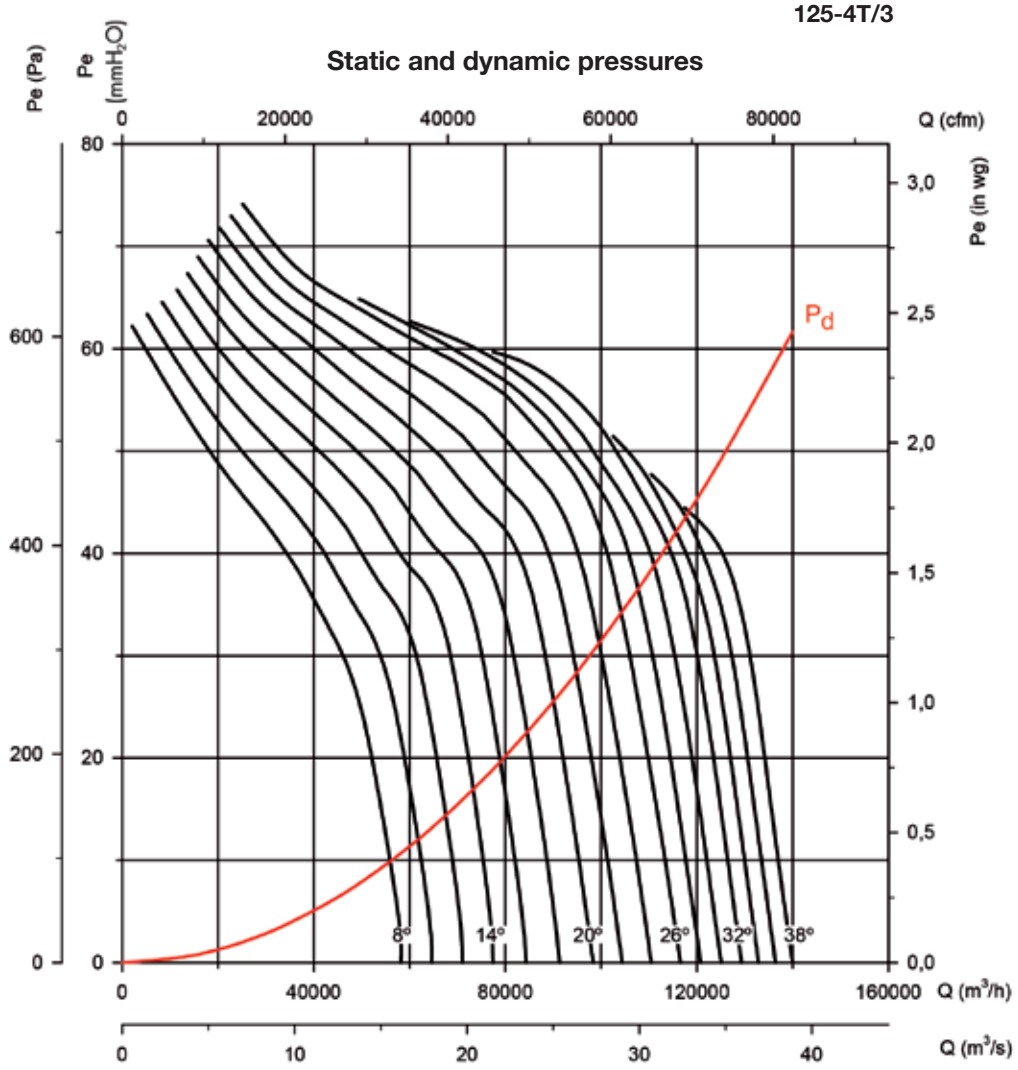
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

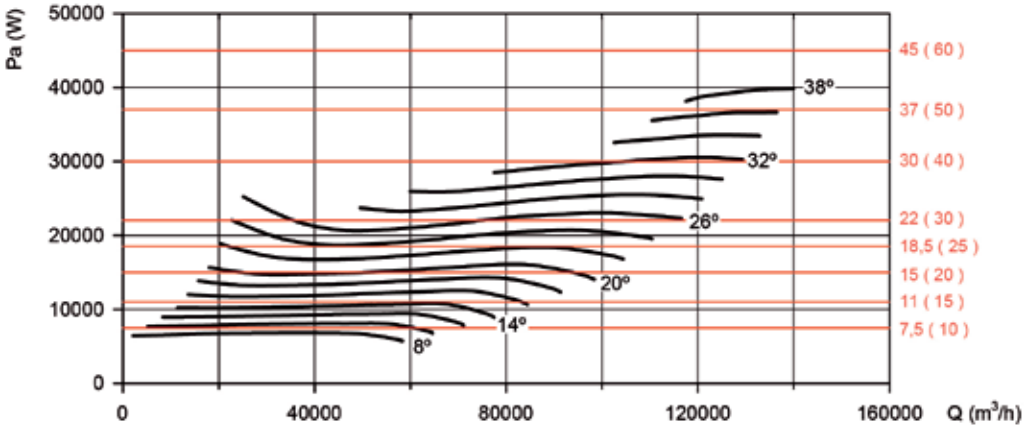
125-4T/3

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)

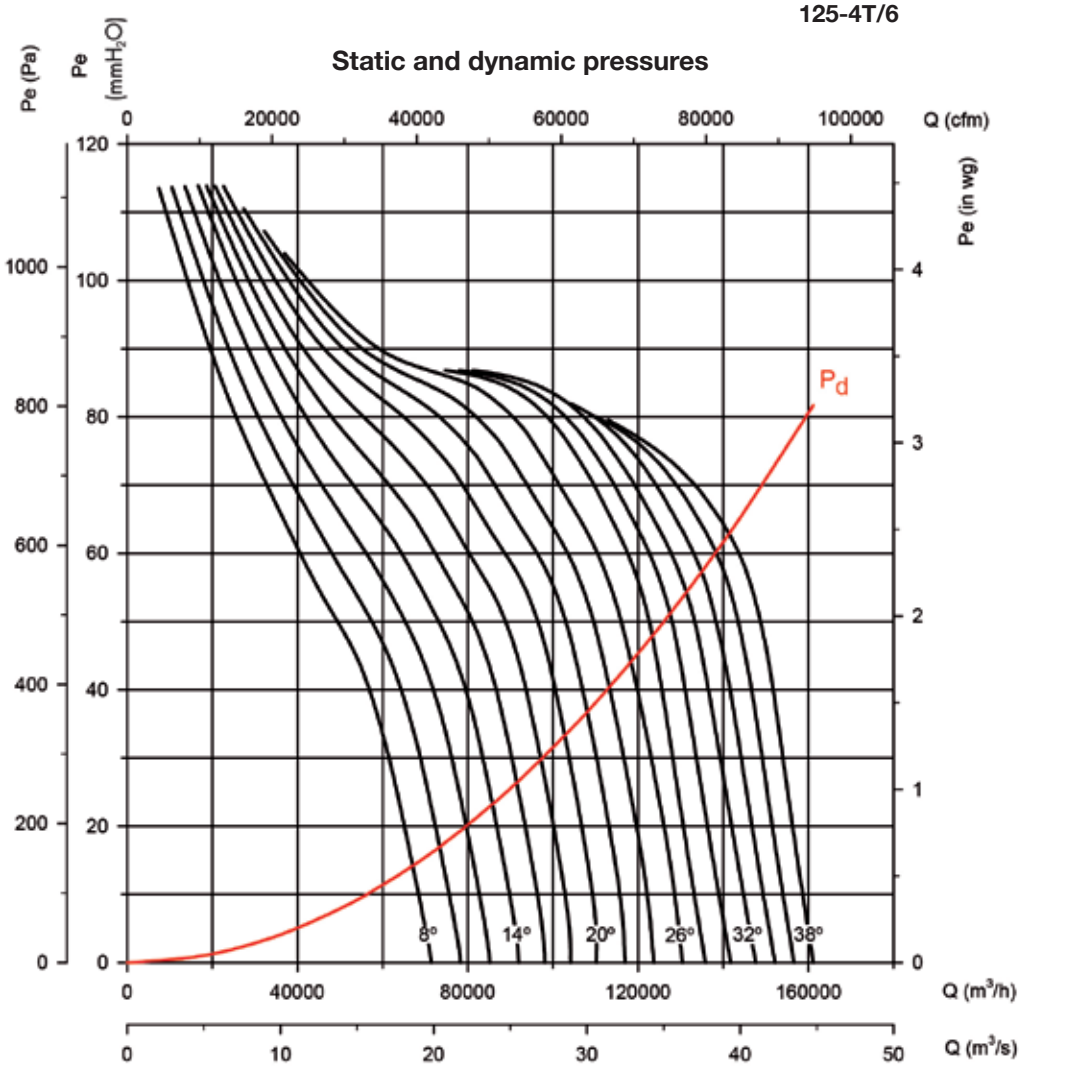


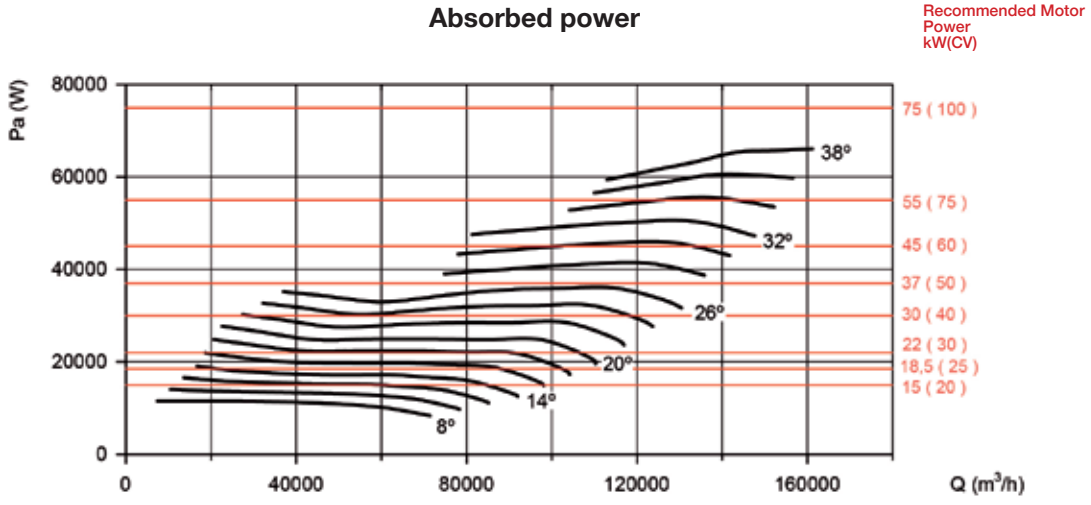
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

125-4T/6



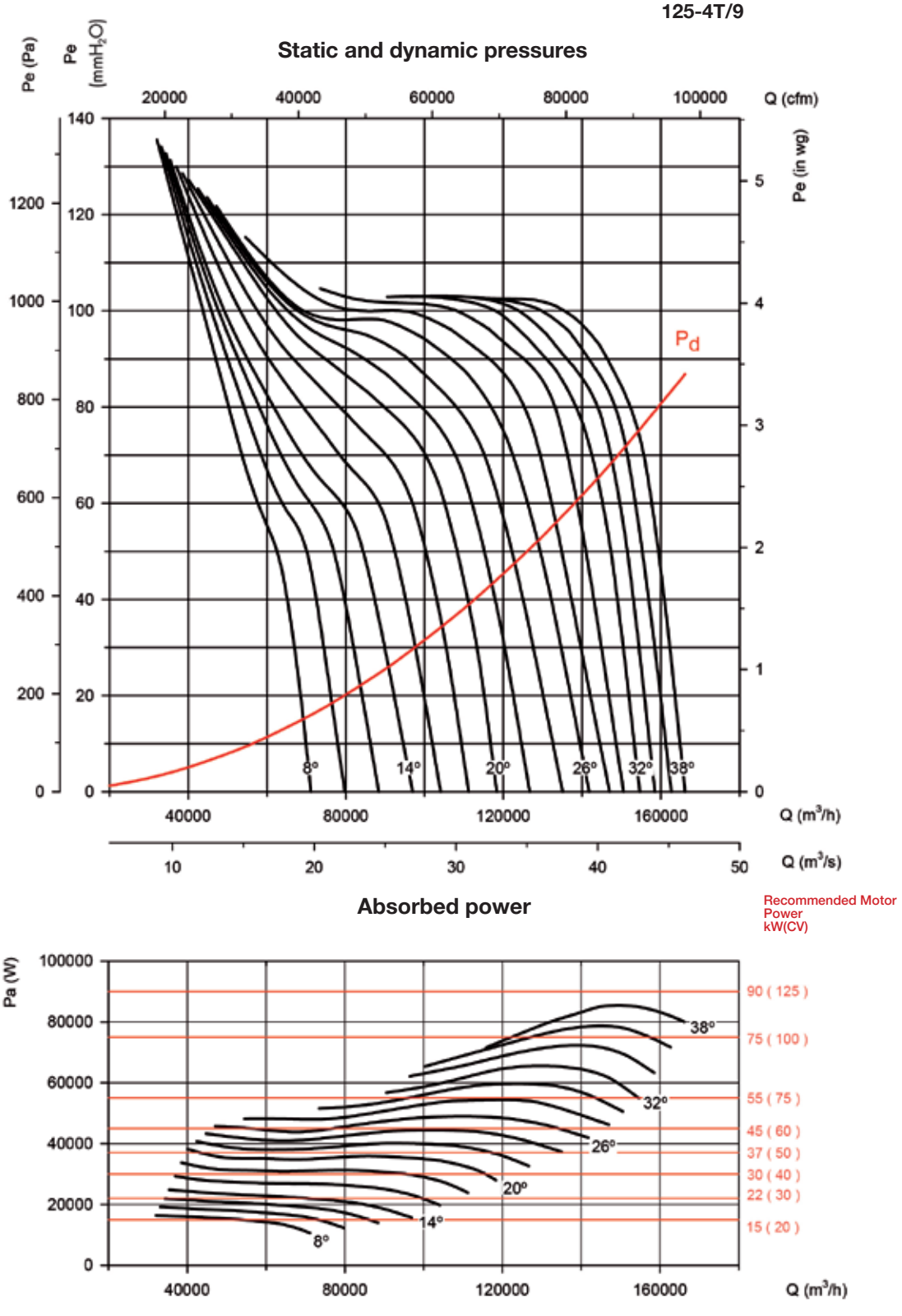


Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

125-4T/9

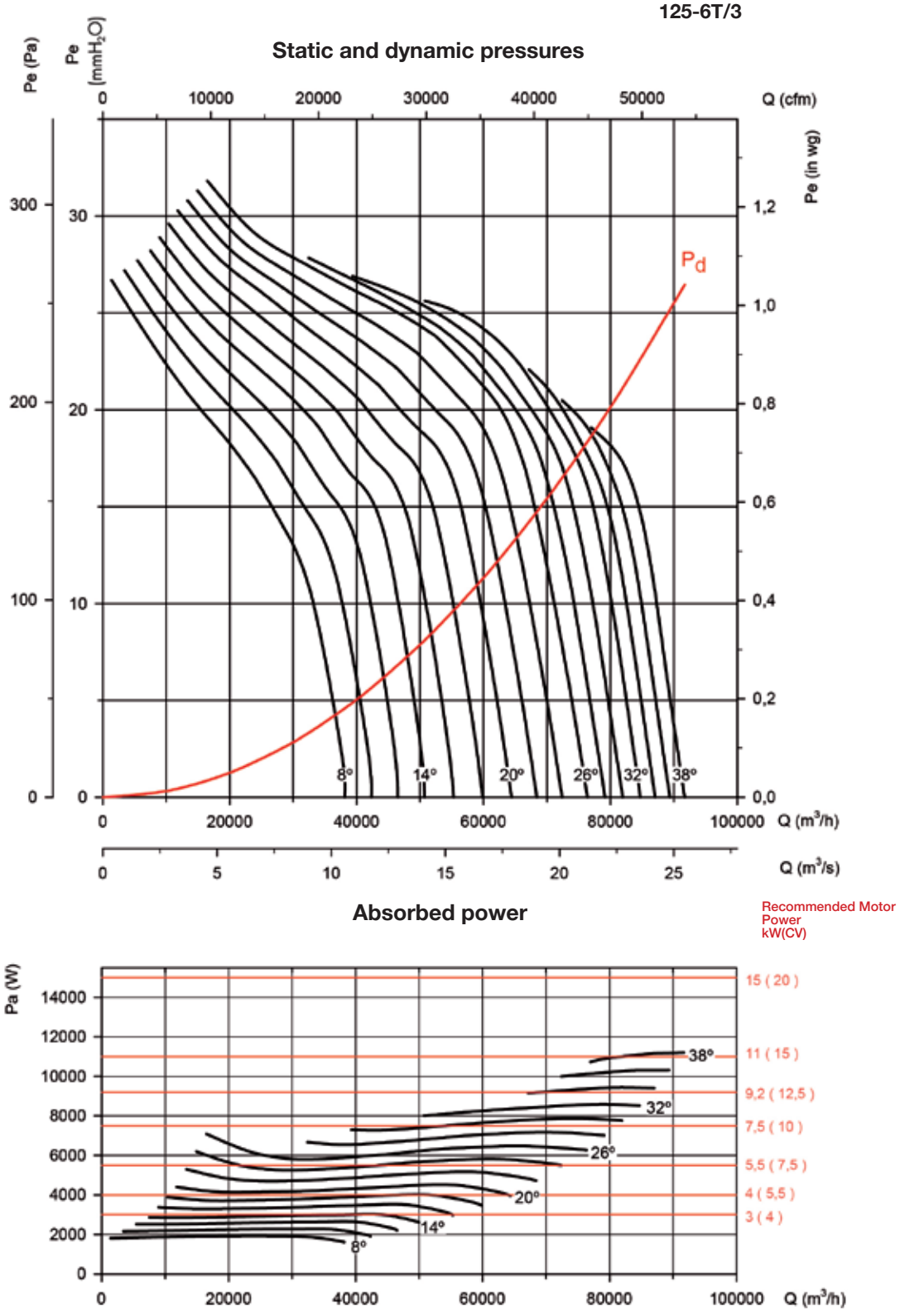


Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

125-6T/3



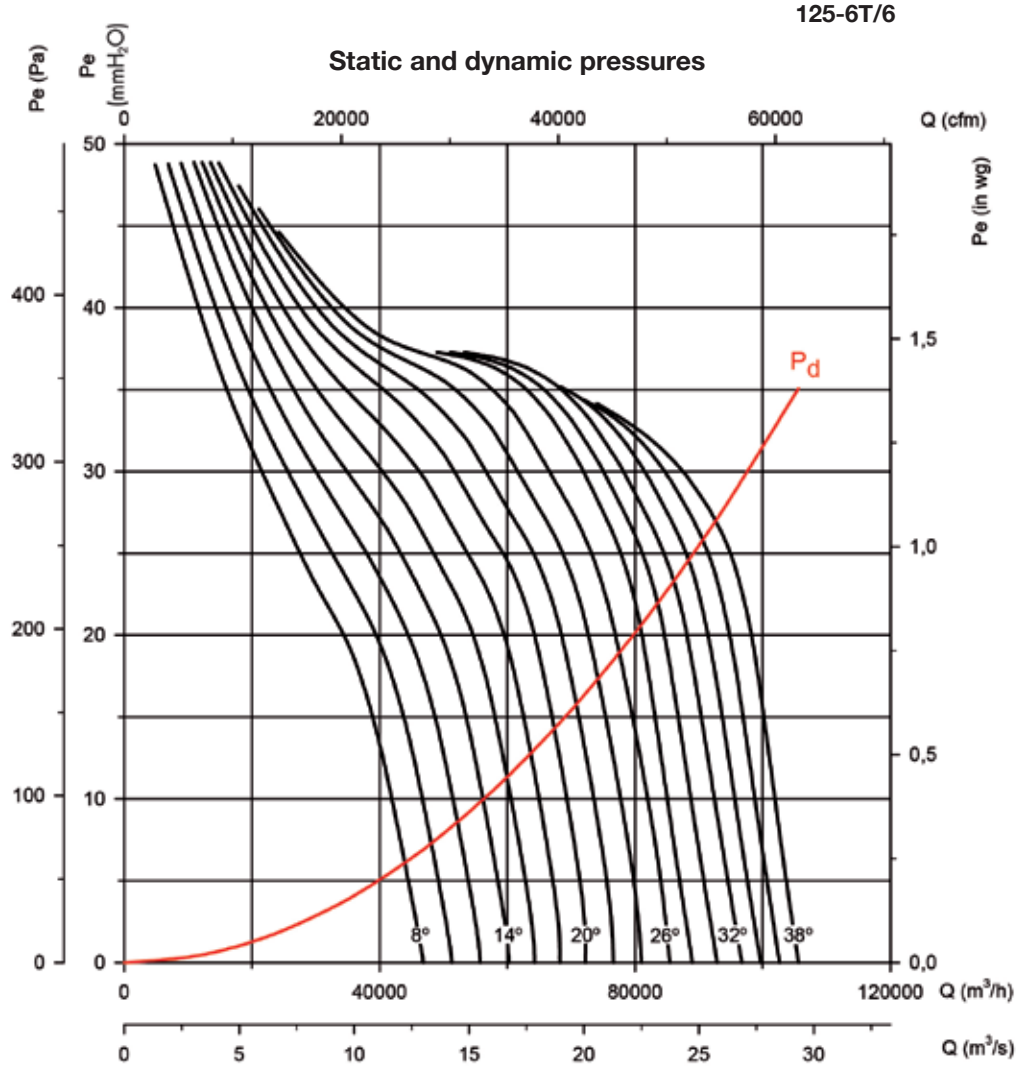
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

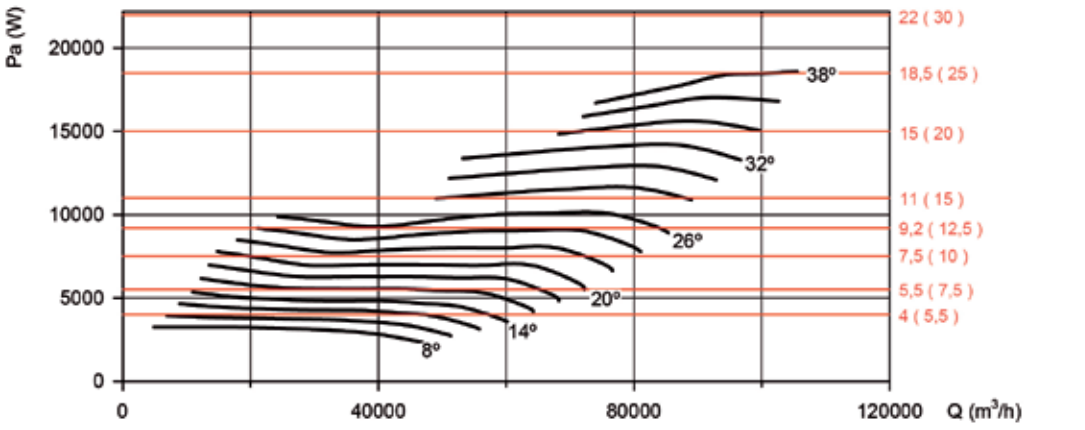
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

125-6T/6

Static and dynamic pressures



Absorbed power



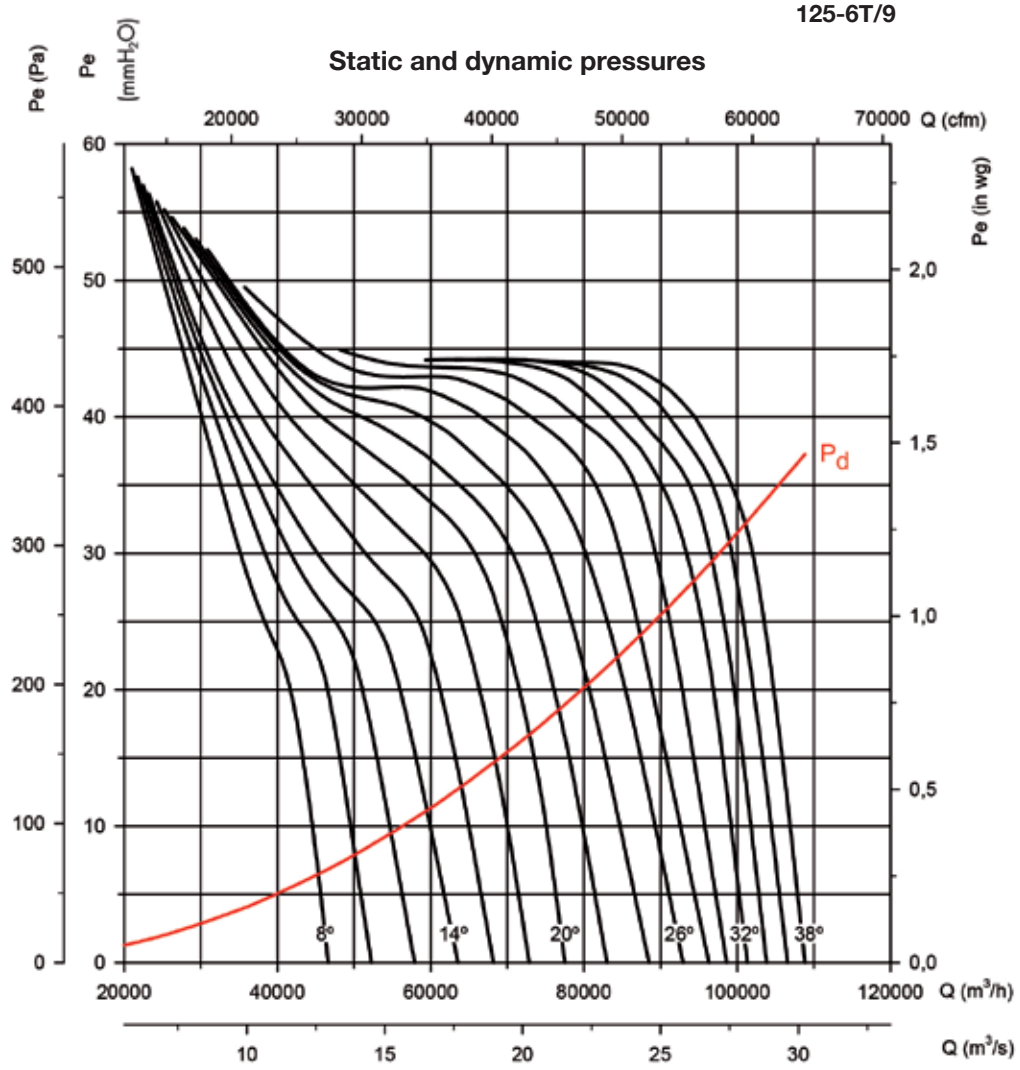
Consult best efficiency point (BEP) characteristics at the end of the series.

Characteristic curves

Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mmH_2O, Pa and inwg.

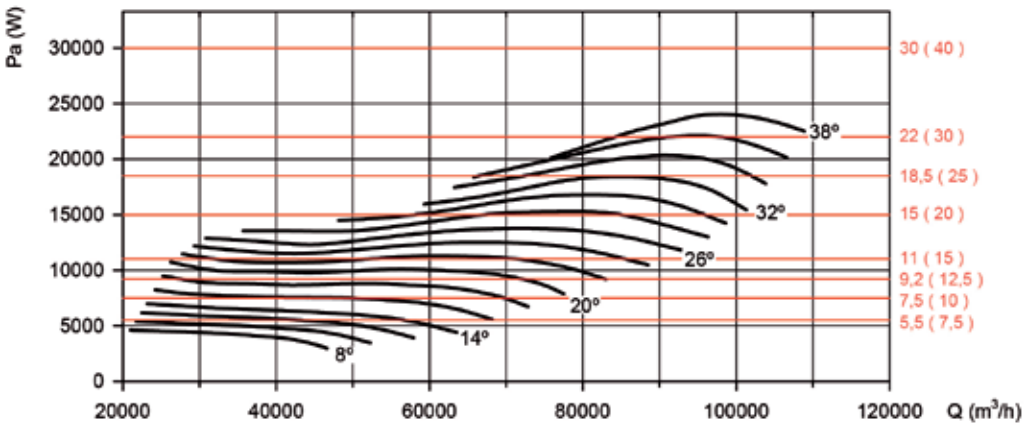
125-6T/9

Static and dynamic pressures



Absorbed power

Recommended Motor Power kW(CV)



Consult best efficiency point (BEP) characteristics at the end of the series.

Erp. Best efficiency point (BEP) characteristics

∢ [º]	Blade angle of inclination in degrees	**SR**	Specific ratio
PN	Nominal motor power in kW	**ηe[%]**	Efficiency
MC	Measurement category	**N**	Efficiency grade
EC	Efficiency category	**[kW]**	Electric power
	S Static	**[m³/h]**	Flow rate
	T Total	**[mmH$_2$O]**	Static or total pressure (based on EC)
VSD	Variable speed drive	**[RPM]**	Speed

40-4T

∢ [º]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.042	1284	7.84	1495
10	0.55	A	S	-	-	-	-	0.061	1339	9.01	1493
12	0.55	A	S	-	-	-	-	0.079	1425	9.60	1491
14	0.55	A	S	-	-	-	-	0.097	1571	9.97	1489
16	0.55	A	S	-	-	-	-	0.120	2210	8.05	1486
18	0.55	A	S	NO	1.00	38.0%	49.6	0.144	2386	8.43	1484
20	0.55	A	S	NO	1.00	36.1%	47.3	0.169	2564	8.71	1481
22	0.55	A	S	NO	1.00	33.5%	44.3	0.196	2758	8.76	1478
24	0.55	A	S	NO	1.00	32.3%	42.8	0.218	2939	8.80	1475
26	0.55	A	S	NO	1.00	31.0%	41.3	0.242	3099	8.91	1473
28	0.55	A	S	NO	1.00	29.1%	39.0	0.270	3337	8.65	1469
30	0.55	A	S	NO	1.00	27.3%	37.0	0.297	3522	8.47	1466
32	0.55	B	T	NO	1.00	41.3%	50.9	0.309	4129	11.36	1465

40-6T

∢ [º]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.012	841	3.37	999
10	0.55	A	S	-	-	-	-	0.018	877	3.87	999
12	0.55	A	S	-	-	-	-	0.023	934	4.12	998
14	0.55	A	S	-	-	-	-	0.028	1029	4.28	998
16	0.55	A	S	-	-	-	-	0.035	1448	3.45	997
18	0.55	A	S	-	-	-	-	0.042	1563	3.62	997
20	0.55	A	S	-	-	-	-	0.049	1680	3.74	996
22	0.55	A	S	-	-	-	-	0.057	1807	3.76	995
24	0.55	A	S	-	-	-	-	0.064	1895	3.85	995
26	0.55	A	S	-	-	-	-	0.071	1987	3.92	994
28	0.55	A	S	-	-	-	-	0.078	2186	3.71	994
30	0.55	A	S	-	-	-	-	0.086	2308	3.63	993
32	0.55	B	T	-	-	-	-	0.094	2422	3.61	992

45-4T

∢ [º]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.083	2341	7.26	1491
10	0.55	A	S	-	-	-	-	0.116	2338	8.40	1487
12	0.55	A	S	NO	1.00	40.9%	52.5	0.144	2742	7.89	1484
14	0.55	A	S	NO	1.00	38.6%	49.7	0.172	3175	7.67	1480
16	0.55	A	S	NO	1.00	36.5%	47.1	0.207	3401	8.17	1476
18	0.55	A	S	NO	1.00	35.0%	45.2	0.243	3635	8.60	1472
20	0.55	A	S	NO	1.00	34.9%	44.7	0.281	3947	9.14	1468
22	0.55	A	S	NO	1.00	34.4%	43.9	0.319	4027	10.01	1464
24	0.55	A	S	NO	1.00	34.2%	43.3	0.364	4316	10.59	1459
26	0.55	A	S	NO	1.00	33.8%	42.6	0.403	4312	11.62	1454
28	0.55	A	S	NO	1.00	29.3%	37.8	0.452	4685	10.37	1449
30	0.55	B	T	NO	1.00	40.3%	48.6	0.491	5825	12.48	1444
32	0.55	B	T	NO	1.00	39.0%	47.1	0.531	6243	12.19	1440
34	0.55	B	T	NO	1.00	38.8%	46.7	0.574	6470	12.66	1435
36	0.55	B	T	NO	1.00	38.5%	46.2	0.618	6694	13.06	1430
38	0.55	B	T	NO	1.00	38.2%	45.6	0.661	6877	13.48	1425

Erp. Best efficiency point (BEP) characteristics

45-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.024	1534	3.12	998
10	0.55	A	S	-	-	-	-	0.034	1532	3.61	997
12	0.55	A	S	-	-	-	-	0.042	1797	3.39	997
14	0.55	A	S	-	-	-	-	0.050	2080	3.29	996
16	0.55	A	S	-	-	-	-	0.060	2228	3.51	995
18	0.55	A	S	-	-	-	-	0.070	2382	3.69	994
20	0.55	A	S	-	-	-	-	0.081	2586	3.92	993
22	0.55	A	S	-	-	-	-	0.092	2644	4.41	992
24	0.55	A	S	-	-	-	-	0.105	2760	4.72	991
26	0.55	A	S	-	-	-	-	0.116	2826	4.97	990
28	0.55	A	S	NO	1.00	28.5%	40.4	0.131	3069	4.45	989
30	0.55	B	T	NO	1.00	39.2%	50.9	0.142	3816	5.36	988
32	0.55	B	T	NO	1.00	37.9%	49.4	0.154	4090	5.23	987
34	0.55	B	T	NO	1.00	37.8%	49.0	0.166	4239	5.43	986
36	0.55	B	T	NO	1.00	37.5%	48.5	0.179	4386	5.60	985
38	0.55	B	T	NO	1.00	37.1%	48.0	0.191	4506	5.79	984

50-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	NO	1.00	37.8%	48.0	0.243	3441	9.81	1472
10	0.55	A	S	NO	1.00	35.6%	45.3	0.296	3638	10.65	1466
12	0.55	A	S	NO	1.00	34.6%	43.8	0.344	4006	10.89	1461
14	0.55	A	S	NO	1.00	33.7%	42.6	0.392	4352	11.13	1456
16	0.55	A	S	NO	1.00	31.7%	40.2	0.459	4609	11.60	1448
18	0.55	A	S	NO	1.00	30.2%	38.3	0.525	4858	11.97	1440
20	0.55	A	S	NO	1.00	28.8%	36.6	0.591	4953	12.61	1433
22	0.55	A	S	NO	1.00	27.9%	35.5	0.634	4545	14.31	1428
24	0.55	B	T	NO	1.00	39.5%	46.8	0.703	7915	12.90	1420
26	0.75	B	T	NO	1.00	40.9%	48.0	0.753	8466	13.35	1444
28	0.75	B	T	NO	1.00	40.0%	46.8	0.854	9080	13.83	1437
30	1.1	B	T	NO	1.00	40.8%	47.3	0.939	9654	14.58	1458
32	1.1	B	T	NO	1.00	40.9%	47.1	1.041	10296	15.21	1454
34	1.1	B	T	NO	1.00	40.8%	46.8	1.161	11232	15.50	1448
36	1.1	B	T	NO	1.00	40.6%	46.2	1.302	11647	16.67	1442
38	1.5	B	T	NO	1.00	41.2%	46.6	1.420	12048	17.84	1453

50-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.070	2255	4.21	994
10	0.55	A	S	-	-	-	-	0.086	2383	4.57	993
12	0.55	A	S	-	-	-	-	0.099	2624	4.67	992
14	0.55	A	S	-	-	-	-	0.113	2851	4.78	991
16	0.55	A	S	NO	1.00	30.8%	42.7	0.133	3020	4.98	989
18	0.55	A	S	NO	1.00	29.4%	40.9	0.152	3183	5.14	987
20	0.55	A	S	NO	1.00	28.0%	39.2	0.171	3245	5.41	986
22	0.55	A	S	NO	1.00	27.1%	38.1	0.183	2978	6.14	985
24	0.55	B	T	NO	1.00	38.5%	49.2	0.203	5186	5.54	983
26	0.55	B	T	NO	1.00	39.0%	49.4	0.222	5547	5.73	982
28	0.55	B	T	NO	1.00	38.1%	48.2	0.252	5949	5.93	979
30	0.55	B	T	NO	1.00	38.0%	47.8	0.283	6325	6.26	977
32	0.55	B	T	NO	1.00	38.1%	47.6	0.314	6745	6.53	974
34	0.55	B	T	NO	1.00	38.1%	47.3	0.350	7359	6.65	971
36	0.55	B	T	NO	1.00	37.8%	46.7	0.393	7631	7.16	967
38	0.55	B	T	NO	1.00	37.8%	46.4	0.436	7894	7.66	964

Erp. Best efficiency point (BEP) characteristics

56-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	NO	1.00	55.1%	65.1	0.266	4923	10.96	1470
10	0.55	A	S	NO	1.00	50.4%	59.7	0.335	5339	11.62	1462
12	0.55	A	S	NO	1.00	46.5%	55.2	0.417	5557	12.82	1453
14	0.55	A	S	NO	1.00	44.6%	52.9	0.488	5989	13.35	1445
16	0.55	A	S	NO	1.00	41.2%	49.0	0.579	6448	13.58	1434
18	0.55	A	S	NO	1.00	38.5%	45.9	0.674	7092	13.45	1424
20	0.75	A	S	NO	1.00	39.1%	46.2	0.755	7489	14.49	1444
22	0.75	A	S	NO	1.00	37.2%	44.1	0.837	7959	14.38	1438
24	0.75	A	S	NO	1.00	35.2%	41.8	0.919	8079	14.71	1432
26	1.1	A	S	NO	1.00	35.6%	42.0	0.977	8459	15.12	1457
28	1.1	B	T	NO	1.00	50.5%	56.6	1.106	11138	18.42	1451
30	1.1	B	T	NO	1.00	48.1%	53.8	1.255	11629	19.08	1444
32	1.5	B	T	NO	1.00	47.3%	52.7	1.380	12299	19.49	1454
34	1.5	B	T	NO	1.00	46.1%	51.3	1.525	12869	20.07	1450
36	1.5	B	T	NO	1.00	45.6%	50.5	1.670	13581	20.60	1445
38	2.2	B	T	NO	1.00	45.9%	50.7	1.780	14043	21.38	1456
40	2.2	B	T	NO	1.00	44.1%	48.7	1.926	14576	21.42	1452
42	2.2	B	T	NO	1.00	42.7%	47.0	2.089	15246	21.49	1448
44	2.2	B	T	NO	1.00	42.0%	46.0	2.308	16393	21.70	1442

56-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	A	S	-	-	-	-	0.077	3225	4.70	994
10	0.55	A	S	-	-	-	-	0.097	3498	4.99	992
12	0.55	A	S	-	-	-	-	0.121	3641	5.50	990
14	0.55	A	S	NO	1.00	43.4%	55.1	0.141	3924	5.73	988
16	0.55	A	S	NO	1.00	40.1%	51.3	0.167	4225	5.83	986
18	0.55	A	S	NO	1.00	37.5%	48.3	0.195	4646	5.77	984
20	0.55	A	S	NO	1.00	37.3%	47.7	0.223	4907	6.22	982
22	0.55	A	S	NO	1.00	35.5%	45.7	0.247	5214	6.17	980
24	0.55	A	S	NO	1.00	33.6%	43.5	0.271	5293	6.31	978
26	0.55	A	S	NO	1.00	33.2%	42.9	0.295	5542	6.49	976
28	0.55	B	T	NO	1.00	47.1%	56.4	0.334	7298	7.91	972
30	0.55	B	T	NO	1.00	44.8%	53.8	0.379	7619	8.19	969
32	0.55	B	T	NO	1.00	43.4%	52.0	0.423	8058	8.37	965
34	0.55	B	T	NO	1.00	42.3%	50.7	0.468	8431	8.61	961
36	0.55	B	T	NO	1.00	41.9%	50.1	0.512	9069	8.70	958
38	0.55	B	T	NO	1.00	41.5%	49.5	0.557	9368	9.07	954
40	0.55	B	T	NO	1.00	39.7%	47.4	0.602	9550	9.20	950
42	0.55	B	T	NO	1.00	38.4%	45.9	0.653	9989	9.22	946
44	0.55	B	T	NO	1.00	37.8%	45.0	0.721	10740	9.32	940

63-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	0.55	C	S	NO	1.00	49.4%	57.1	0.605	7675	14.31	1431
10	0.75	C	S	NO	1.00	48.9%	56.2	0.695	7963	15.67	1448
12	0.75	C	S	NO	1.00	50.0%	57.0	0.781	8606	16.66	1442
14	0.75	C	S	NO	1.00	49.8%	56.5	0.868	9291	17.07	1436
16	1.1	C	S	NO	1.00	48.2%	54.6	0.966	9692	17.64	1457
18	1.1	C	S	NO	1.00	48.0%	54.1	1.078	10219	18.59	1452
20	1.1	C	S	NO	1.00	47.9%	53.7	1.193	10625	19.76	1447
22	1.5	C	S	NO	1.00	45.0%	50.5	1.360	11327	19.86	1455
24	1.5	C	S	NO	1.00	42.3%	47.4	1.551	12026	20.03	1449
26	1.5	C	S	NO	1.00	40.3%	45.1	1.748	12561	20.60	1442
28	2.2	B	T	NO	1.00	64.2%	68.7	1.953	18581	24.78	1451
30	2.2	B	T	NO	1.00	62.7%	66.9	2.201	19481	26.02	1445
32	2.2	B	T	NO	1.00	61.9%	65.8	2.447	20324	27.38	1439
34	3	B	T	NO	1.00	61.8%	65.5	2.610	21482	27.57	1448
36	3	B	T	NO	1.00	61.7%	65.2	2.810	22995	27.71	1444
38	3	B	T	NO	1.00	62.6%	65.9	3.020	24239	28.64	1440

Erp. Best efficiency point (BEP) characteristics

63-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH₂O]	[RPM]
8	0.55	C	S	NO	1.00	48.1%	59.2	0.175	5028	6.14	986
10	0.55	C	S	NO	1.00	46.6%	57.3	0.205	5217	6.73	983
12	0.55	C	S	NO	1.00	47.6%	58.0	0.231	5639	7.15	981
14	0.55	C	S	NO	1.00	47.4%	57.5	0.256	6087	7.33	979
16	0.55	C	S	NO	1.00	44.9%	54.6	0.291	6350	7.57	976
18	0.55	C	S	NO	1.00	44.7%	54.1	0.325	6695	7.98	973
20	0.55	C	S	NO	1.00	44.6%	53.8	0.360	6961	8.48	970
22	0.55	C	S	NO	1.00	41.3%	50.0	0.417	7421	8.53	965
24	0.55	C	S	NO	1.00	38.8%	47.1	0.476	7879	8.60	961
26	0.55	C	S	NO	1.00	36.9%	45.0	0.536	8230	8.84	956
28	0.55	B	T	NO	1.00	57.7%	65.4	0.611	12174	10.64	949
30	0.55	B	T	NO	1.00	56.4%	63.7	0.688	12764	11.17	943
32	0.75	B	T	NO	1.00	57.3%	64.5	0.743	13316	11.75	954
34	0.75	B	T	NO	1.00	56.4%	63.3	0.804	14075	11.84	950
36	0.75	B	T	NO	1.00	56.4%	63.1	0.865	15066	11.90	946
38	0.75	B	T	NO	1.00	57.1%	63.7	0.930	15880	12.29	942

71-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH₂O]	[RPM]
8	1.1	C	S	NO	1.00	50.2%	56.5	0.999	10244	17.99	1456
10	1.1	C	S	NO	1.00	48.7%	54.5	1.172	11274	18.59	1448
12	1.1	C	S	NO	1.00	47.9%	53.4	1.346	12330	19.20	1440
14	1.5	C	S	NO	1.00	48.4%	53.6	1.495	13405	19.83	1450
16	1.5	C	S	NO	1.00	45.8%	50.6	1.717	14522	19.88	1443
18	2.2	C	S	NO	1.00	45.2%	49.8	1.906	15360	20.62	1452
20	2.2	C	S	NO	1.00	44.8%	49.1	2.168	16397	21.78	1446
22	2.2	C	S	NO	1.00	42.8%	46.8	2.369	17056	21.84	1441
24	2.2	C	S	NO	1.00	42.2%	45.9	2.566	17819	22.30	1436
26	3	C	S	NO	1.00	42.1%	45.6	2.734	18933	22.31	1445
28	3	C	S	NO	1.00	40.7%	44.0	2.976	19369	22.96	1441
30	3	C	S	NO	1.00	38.7%	41.8	3.225	19849	23.10	1436
32	3	C	S	NO	1.00	37.3%	40.2	3.456	20418	23.20	1431
34	4	C	S	NO	1.00	36.2%	39.0	3.681	21714	22.57	1460
36	4	B	T	NO	1.00	64.6%	67.0	4.158	28986	34.02	1455
38	4	B	T	NO	1.00	62.8%	65.0	4.510	29926	34.78	1451

71-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH₂O]	[RPM]
8	0.55	C	S	NO	1.00	46.8%	56.4	0.302	6712	7.72	975
10	0.55	C	S	NO	1.00	45.3%	54.5	0.354	7386	7.98	971
12	0.55	C	S	NO	1.00	44.6%	53.4	0.406	8078	8.24	966
14	0.55	C	S	NO	1.00	44.4%	52.8	0.459	8783	8.51	962
16	0.55	C	S	NO	1.00	42.0%	50.1	0.527	9514	8.53	956
18	0.55	C	S	NO	1.00	40.7%	48.4	0.596	10063	8.85	951
20	0.55	C	S	NO	1.00	40.3%	47.7	0.678	10743	9.35	944
22	0.75	C	S	NO	1.00	39.6%	46.9	0.720	11175	9.37	955
24	0.75	C	S	NO	1.00	39.0%	46.1	0.779	11674	9.57	951
26	0.75	C	S	NO	1.00	38.4%	45.2	0.842	12404	9.58	947
28	0.75	C	S	NO	1.00	37.1%	43.7	0.916	12690	9.86	943
30	1.1	C	S	NO	1.00	36.1%	42.5	0.972	13005	9.92	961
32	1.1	C	S	NO	1.00	34.8%	41.0	1.041	13377	9.96	958
34	1.1	C	S	NO	1.00	33.4%	39.4	1.123	14226	9.69	955
36	1.1	B	T	NO	1.00	59.5%	65.2	1.268	18991	14.60	949
38	1.1	B	T	NO	1.00	57.9%	63.4	1.376	19607	14.93	945

Erp. Best efficiency point (BEP) characteristics

80-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	1.5	C	S	NO	1.00	51.0%	55.9	1.683	13964	22.58	1444
10	2.2	C	S	NO	1.00	49.4%	53.8	1.987	15817	22.78	1450
12	2.2	C	S	NO	1.00	47.0%	51.0	2.417	16923	24.69	1440
14	3	C	S	NO	1.00	47.2%	50.7	2.746	18703	25.45	1445
16	3	C	S	NO	1.00	44.5%	47.4	3.404	20444	27.19	1432
18	4	C	S	NO	1.00	43.6%	46.1	4.011	22304	28.78	1457
20	5.5	C	S	NO	1.00	43.7%	45.8	4.605	23848	30.98	1474
22	5.5	C	S	NO	1.00	44.7%	46.6	4.902	24787	32.44	1473
24	5.5	C	S	NO	1.00	42.9%	44.6	5.410	25791	33.05	1470
26	5.5	C	S	NO	1.00	42.0%	43.5	5.852	26826	33.68	1467
28	7.5	C	S	NO	1.00	41.1%	42.3	6.423	27918	34.75	1473
30	7.5	C	S	NO	1.01	40.4%	41.4	7.090	29984	35.12	1471
32	7.5	C	S	NO	1.01	39.5%	40.2	7.743	31204	35.97	1468

80-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	1.1	C	S	NO	1.00	49.2%	57.5	0.491	9149	9.69	980
10	1.1	C	S	NO	1.00	46.7%	54.5	0.591	10363	9.78	976
12	1.1	C	S	NO	1.00	44.5%	51.8	0.718	11087	10.60	971
14	1.1	C	S	NO	1.00	44.0%	50.9	0.828	12254	10.92	967
16	1.1	C	S	NO	1.00	41.5%	47.7	1.026	13395	11.67	959
18	1.1	C	S	NO	1.00	40.2%	45.9	1.224	14613	12.35	951
20	1.5	C	S	NO	1.00	40.8%	46.2	1.388	15625	13.30	970
22	1.5	C	S	NO	1.00	41.7%	46.9	1.478	16240	13.93	968
24	1.5	C	S	NO	1.00	40.0%	45.0	1.631	16897	14.19	964
26	1.5	C	S	NO	1.00	39.2%	44.0	1.764	17576	14.46	962
28	2.2	C	S	NO	1.00	38.6%	43.2	1.922	18291	14.92	964
30	2.2	C	S	NO	1.00	38.0%	42.3	2.122	19645	15.07	960
32	2.2	C	S	NO	1.00	37.1%	41.1	2.317	20444	15.44	956

90-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	3	C	S	NO	1.00	51.9%	55.2	3.028	19656	29.36	1440
10	3	C	S	NO	1.00	51.1%	54.0	3.468	23364	27.87	1431
12	4	C	S	NO	1.00	50.5%	53.0	4.049	25081	29.94	1456
14	4	C	S	NO	1.00	50.8%	52.9	4.602	27678	31.02	1450
16	5.5	C	S	NO	1.00	49.1%	50.8	5.393	29635	32.80	1470
18	5.5	C	S	NO	1.00	47.7%	49.0	6.251	31521	34.72	1465
20	7.5	C	S	NO	1.00	46.8%	47.8	7.035	33277	36.37	1471
22	7.5	C	S	NO	1.01	45.2%	45.9	7.879	35009	37.36	1467
24	11	C	S	NO	1.01	44.3%	44.8	8.627	36254	38.77	1479
26	11	C	S	NO	1.01	43.6%	43.7	9.577	37545	40.84	1477
28	11	C	S	NO	1.01	41.7%	41.7	10.667	39574	41.28	1474
30	11	C	S	NO	1.01	40.0%	40.0	11.780	41490	41.74	1471
32	15	C	S	NO	1.01	39.0%	38.9	12.781	43446	42.17	1477

90-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	1.5	C	S	NO	1.00	49.6%	56.3	0.891	12878	12.60	981
10	1.5	C	S	NO	1.00	48.9%	55.1	1.020	15307	11.96	978
12	1.5	C	S	NO	1.00	47.7%	53.5	1.205	16432	12.85	974
14	1.5	C	S	NO	1.00	48.0%	53.5	1.370	18134	13.31	970
16	1.5	C	S	NO	1.00	45.8%	50.8	1.625	19416	14.08	965
18	2.2	C	S	NO	1.00	45.3%	49.9	1.850	20652	14.90	965
20	2.2	C	S	NO	1.00	44.0%	48.3	2.106	21802	15.61	960
22	2.2	C	S	NO	1.00	42.5%	46.4	2.358	22937	16.04	955
24	2.2	C	S	NO	1.00	41.1%	44.8	2.615	23753	16.64	950
26	3	C	S	NO	1.00	41.1%	44.5	2.858	24599	17.53	976
28	3	C	S	NO	1.00	39.3%	42.4	3.183	25928	17.72	973
30	3	C	S	NO	1.00	37.7%	40.6	3.515	27183	17.92	970
32	4	C	S	NO	1.00	37.0%	39.7	3.789	28464	18.10	976

Erp. Best efficiency point (BEP) characteristics

100-4T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	4	C	S	NO	1.00	55.5%	57.8	4.250	28902	29.96	1454
10	5.5	C	S	NO	1.00	52.1%	53.9	5.240	30466	32.94	1471
12	5.5	C	S	NO	1.00	50.3%	51.6	6.210	32807	34.96	1465
14	7.5	C	S	NO	1.00	49.9%	50.9	7.100	35267	36.91	1471
16	7.5	C	S	NO	1.00	47.9%	48.5	8.268	37591	38.73	1466
18	11	C	S	NO	1.01	47.3%	47.5	9.324	39898	40.62	1477
20	11	C	S	NO	1.01	46.6%	46.6	10.492	42175	42.59	1474
22	11	C	S	NO	1.01	43.9%	43.9	12.052	44571	43.65	1470
24	15	C	S	NO	1.01	42.4%	42.2	13.415	47975	43.55	1476
26	15	C	S	NO	1.01	41.0%	40.8	14.939	49411	45.57	1473
28	15	C	S	NO	1.01	40.0%	39.8	16.186	50259	47.37	1471
30	18.5	B	T	NO	1.01	63.4%	63.1	17.435	67547	60.14	1474
32	18.5	B	T	NO	1.00	63.4%	63.0	17.976	81688	51.24	1473

100-6T

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	2.2	C	S	NO	1.00	53.4%	59.1	1.242	18936	12.86	976
10	2.2	C	S	NO	1.00	49.5%	54.7	1.551	19961	14.14	971
12	2.2	C	S	NO	1.00	47.8%	52.4	1.838	21494	15.01	965
14	2.2	C	S	NO	1.00	46.9%	51.2	2.125	23106	15.84	960
16	2.2	C	S	NO	1.00	45.0%	48.9	2.474	24629	16.62	953
18	3	C	S	NO	1.00	44.6%	48.1	2.782	26140	17.44	976
20	3	C	S	NO	1.00	43.9%	47.1	3.131	27632	18.28	974
22	4	C	S	NO	1.00	42.1%	45.0	3.539	29202	18.74	977
24	4	C	S	NO	1.00	40.2%	42.8	3.983	30892	19.06	974
26	4	C	S	NO	1.00	38.9%	41.2	4.429	32373	19.56	971
28	5.5	C	S	NO	1.00	38.5%	40.6	4.730	32928	20.34	977
30	5.5	B	T	NO	1.00	60.7%	62.5	5.125	44255	25.82	976
32	5.5	B	T	NO	1.00	60.6%	62.4	5.284	53520	22.00	975

125-4T/3

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	7.5	C	S	NO	1.00	51.3%	52.1	7.732	41511	35.13	1468
10	11	C	S	NO	1.00	52.6%	52.9	9.098	46792	37.56	1478
12	11	C	S	NO	1.00	53.7%	53.7	10.561	52185	39.90	1474
14	11	C	S	NO	1.01	55.1%	55.0	12.025	57655	42.19	1471
16	15	C	S	NO	1.01	54.9%	54.8	13.664	62205	44.33	1475
18	15	C	S	NO	1.01	54.3%	54.0	15.545	67316	46.06	1472
20	18.5	C	S	NO	1.01	54.4%	54.0	17.323	72427	47.79	1474
22	18.5	C	S	NO	1.01	52.2%	51.7	19.993	77315	49.54	1470
24	22	C	S	NO	1.01	50.6%	50.1	22.394	82218	50.63	1472
26	30	C	S	NO	1.01	51.1%	50.5	24.524	84773	54.27	1485
28	30	C	S	NO	1.01	47.9%	47.2	27.084	90252	52.81	1483
30	30	C	S	NO	1.01	46.0%	45.2	29.766	94744	53.05	1482
32	30	C	S	NO	1.01	44.1%	43.3	32.197	96187	54.28	1480
34	37	C	S	NO	1.01	41.5%	40.6	35.389	105433	51.16	1482
36	37	B	T	NO	1.01	72.5%	71.6	39.195	121252	86.13	1480
38	45	B	T	NO	1.01	72.3%	71.2	42.145	125685	89.03	1478

Erp. Best efficiency point (BEP) characteristics

125-4T/6

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	11	C	S	NO	1.01	56.8%	56.8	12.019	48508	51.71	1471
10	15	C	S	NO	1.01	56.0%	55.8	14.423	52757	56.25	1474
12	18.5	C	S	NO	1.01	56.5%	56.2	16.578	58230	59.12	1475
14	18.5	C	S	NO	1.01	57.1%	56.7	18.813	63848	61.84	1472
16	22	C	S	NO	1.01	56.4%	55.9	21.703	68837	65.30	1473
18	30	C	S	NO	1.01	56.1%	55.5	24.370	77896	64.43	1485
20	30	C	S	NO	1.01	56.3%	55.6	27.347	80997	69.77	1483
22	30	C	S	NO	1.01	54.5%	53.7	30.990	85910	72.17	1481
24	37	C	S	NO	1.01	53.6%	52.7	34.666	88480	77.19	1483
26	37	C	S	NO	1.01	52.1%	51.1	38.796	93638	79.23	1481
28	45	C	S	NO	1.01	49.6%	48.5	44.005	102038	78.56	1477
30	55	C	S	NO	1.01	46.8%	45.7	48.644	106474	78.56	1479
32	55	C	S	NO	1.01	44.4%	43.1	53.455	110911	78.56	1477
34	55	C	S	NO	1.01	42.1%	40.8	58.161	116500	77.12	1475
36	75	B	T	NO	1.01	70.2%	68.8	64.063	136742	120.78	1488
38	75	B	T	NO	1.01	70.2%	68.8	69.029	142272	125.19	1487

125-4T/9

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	18.5	C	S	NO	1.01	69.3%	68.9	17.720	37304	120.90	1474
10	18.5	C	S	NO	1.01	59.8%	59.4	19.295	56423	75.15	1471
12	22	C	S	NO	1.01	57.1%	56.6	21.805	61289	74.68	1473
14	22	C	S	NO	1.01	55.7%	55.1	23.707	73859	65.67	1470
16	30	C	S	NO	1.01	53.2%	52.5	28.561	80439	69.38	1482
18	37	C	S	NO	1.01	52.2%	51.4	33.442	87528	73.29	1483
20	37	C	S	NO	1.01	51.7%	50.8	38.503	94456	77.46	1481
22	45	C	S	NO	1.01	50.6%	49.6	43.142	97688	82.16	1478
24	45	C	S	NO	1.01	50.1%	48.9	47.794	101406	86.68	1475
26	55	C	S	NO	1.01	50.6%	49.4	52.342	106241	91.67	1478
28	55	C	S	NO	1.01	49.4%	48.1	58.152	112236	93.94	1475
30	75	C	S	NO	1.01	49.3%	47.9	63.649	120361	95.67	1488
32	75	C	S	NO	1.01	48.2%	46.8	69.211	125253	97.81	1487
34	75	C	S	NO	1.01	45.7%	44.2	75.996	130939	97.53	1486
36	90	B	T	NO	1.01	72.4%	70.8	83.094	145177	152.12	1487
38	90	B	T	NO	1.02	70.2%	68.6	90.538	149120	156.66	1486

125-6T/3

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH$_2$O]	[RPM]
8	3	C	S	NO	1.00	49.0%	53.1	2.278	27197	15.08	981
10	3	C	S	NO	1.00	49.6%	53.2	2.715	30657	16.12	977
12	3	C	S	NO	1.00	50.6%	53.8	3.152	34190	17.13	973
14	4	C	S	NO	1.00	52.7%	55.6	3.531	37774	18.11	977
16	4	C	S	NO	1.00	52.1%	54.6	4.051	40755	19.03	974
18	4	C	S	NO	1.00	51.5%	53.7	4.608	44104	19.77	970
20	5.5	C	S	NO	1.00	52.0%	53.9	5.092	47452	20.51	976
22	5.5	C	S	NO	1.00	49.9%	51.4	5.877	50654	21.27	972
24	7.5	C	S	NO	1.00	49.7%	50.9	6.486	53010	22.32	977
26	7.5	C	S	NO	1.00	48.9%	49.8	7.224	56526	22.97	974
28	7.5	C	S	NO	1.00	46.3%	46.9	7.973	59317	22.84	972
30	11	C	S	NO	1.00	44.7%	45.1	8.615	62074	22.77	979
32	11	C	S	NO	1.00	43.0%	43.2	9.358	64946	22.76	977
34	11	C	S	NO	1.00	40.2%	40.2	10.268	68214	22.21	975
36	11	B	T	NO	1.00	70.1%	70.1	11.398	79441	36.97	972
38	15	B	T	NO	1.00	70.1%	70.0	12.217	82345	38.21	974

Erp. Best efficiency point (BEP) characteristics

125-6T/6

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH₂O]	[RPM]
8	4	C	S	NO	1.00	54.4%	57.3	3.530	31781	22.20	977
10	4	C	S	NO	1.00	53.1%	55.5	4.276	34565	24.14	972
12	5.5	C	S	NO	1.00	54.1%	56.1	4.873	38151	25.38	977
14	5.5	C	S	NO	1.00	54.7%	56.3	5.530	41832	26.55	974
16	7.5	C	S	NO	1.00	54.6%	55.8	6.307	45100	28.03	978
18	7.5	C	S	NO	1.00	53.8%	54.8	7.137	51036	27.66	975
20	7.5	C	S	NO	1.00	54.0%	54.6	8.009	53067	29.95	972
22	11	C	S	NO	1.00	52.9%	53.2	8.969	56286	30.98	978
24	11	C	S	NO	1.00	51.5%	51.6	10.146	57719	33.26	975
26	11	C	S	NO	1.00	50.3%	50.3	11.282	61349	34.01	972
28	15	C	S	NO	1.00	48.1%	48.0	12.756	66852	33.72	973
30	15	C	S	NO	1.00	45.2%	45.0	14.156	69759	33.72	970
32	15	C	S	NO	1.00	42.9%	42.6	15.556	72666	33.72	967
34	18.5	C	S	NO	1.00	40.9%	40.6	16.829	76327	33.10	979
36	18.5	B	T	NO	1.01	67.8%	67.4	18.637	89589	51.84	977
38	18.5	B	T	NO	1.01	67.9%	67.4	20.081	93213	53.74	975

125-6T/9

⊲ [°]	PN	MC	EC	VSD	SR	ηe [%]	N	[kW]	[m³/h]	[mmH₂O]	[RPM]
8	5.5	C	S	NO	1.01	66.3%	68.1	5.209	24441	51.89	975
10	5.5	C	S	NO	1.00	57.2%	58.8	5.672	36967	32.26	973
12	7.5	C	S	NO	1.00	55.3%	56.6	6.337	40155	32.06	978
14	7.5	C	S	NO	1.00	53.9%	54.9	6.890	48390	28.19	976
16	7.5	C	S	NO	1.00	51.1%	51.6	8.364	52702	29.78	970
18	11	C	S	NO	1.00	50.5%	50.6	9.725	57346	31.46	976
20	11	C	S	NO	1.00	50.0%	50.0	11.197	61885	33.25	973
22	15	C	S	NO	1.00	49.1%	49.0	12.506	64003	35.27	974
24	15	C	S	NO	1.00	48.9%	48.7	13.845	65542	37.94	971
26	15	C	S	NO	1.01	48.9%	48.7	15.232	69606	39.35	968
28	18.5	C	S	NO	1.01	48.0%	47.6	16.827	73534	40.32	979
30	18.5	C	S	NO	1.01	47.6%	47.2	18.516	78857	41.07	977
32	18.5	C	S	NO	1.01	46.6%	46.1	20.134	82062	41.98	975
34	22	C	S	NO	1.01	44.6%	44.1	21.901	85787	41.86	977
36	30	B	T	NO	1.01	70.8%	70.2	23.874	95116	65.30	989
38	30	B	T	NO	1.01	68.8%	68.1	26.013	97699	67.25	988

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