









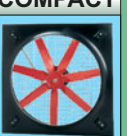

**In-Line Fans**

1 - 27

<b>TD</b>  2 - 7	<b>VENT</b>  8 - 11	<b>IBF</b>  12 - 16	<b>CVAB/CVAT</b>  17 - 18	<b>DH</b>  19 - 20	<b>RH</b>  21 - 22
<b>Accessories</b>					
 RCS 23	 DF 24	 DFK... +EU 25	 ACOP PL 26	 CAR 27	



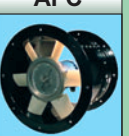











**Axial-flow Fans Wall Versions**

29 - 42

<b>HXM</b>  30	<b>COMPACT</b>  31 - 39	<b>AFW</b>  40 - 42
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**Axial-flow Fans Cased Versions**

43 - 69

<b>COMPACT</b>  44 - 51	<b>TCB □x2</b>  52 - 53	<b>AFC</b>  54 - 57	<b>AFC-VB</b>  58 - 59	<b>AFC-HT</b>  60	<b>AFD</b>  61 - 62	<b>AFH</b>  63 - 64	<b>AFS</b>  65 - 66
<b>AFK</b>  67	<b>Accessories</b>						
	 Louvre shutters	 Flexible connectors	 Sleeve	 Mounting base	 Protection net		

**Roof Fans**

71 - 86

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**Fans "ATEX"**

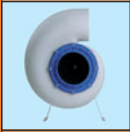
87 - 94

<b>EGM</b>  88 - 91	<b>COMPACT EXE</b>  92	<b>HDT, HDB</b>  93 - 94
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**Centrifugal Fans VISP/VASP**

95 - 104

VISP



96 - 99

VASP



100 - 103

Accessories



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**Centrifugal Fans**

105 - 190

SEM



106

DEM



107

CBM



108 - 110

CBP



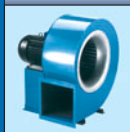
111 - 114

GSF-AP HT



115 - 116

GSF



117 - 119

GRF



120 - 121

GSFG



122 - 125

MPB



126 - 129

MPR



130 - 132

MPT



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GSB/MSB



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MSB-VB



150 - 152

HSB



153 - 155

GST



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QP



159 - 161

Q



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Q-2



166 - 167

DPB



168 - 169

FCM



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RL



170

PB



171

PH



171

BL



172

BFN



172

HPBx



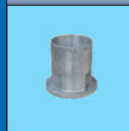
173 - 175

HPB, HPT, HPR



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**Side Channel Blowers**

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SC



192 - 200

SC VB



201 - 204

DSC/PSC



205 - 210

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WNF



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**217 - 227**

**SILENT**



218 - 219

**DECOR**



220 - 221

**EDM**



222 - 223

**EBB, EB**



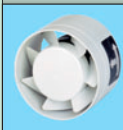
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**EBB, EB N**



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**TDM**



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**HTB**



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**Accessories**

**229 - 232**

**RMB**



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**REB-1 NE**



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**REGUL-2**



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**HIG-2**



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**SQA**



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**CT 12/14**



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**Electric Diagrams**

**233 - 237**

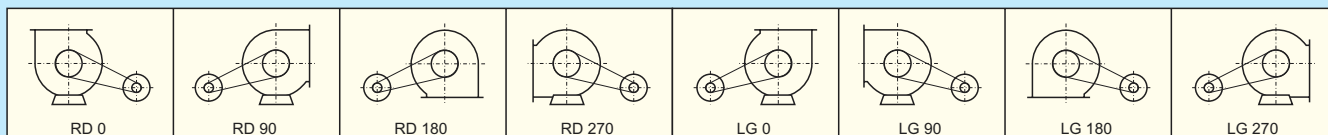
**General Information**

**239 - 242**

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**243 - 244**

All fans in this catalogue can be specified with orientations as shown below. However some fans can only be delivered as shown in the pictures in the catalogue. The symbols show the fan from the drive side or the motor side.



Performance curves are valid with a tolerance of  $\pm 10\%$  for the pressure and  $\pm 10\%$  for the airflow, air density  $1,223\text{kg/m}^3$ , at an ambient temperature of  $20^\circ\text{C}$  and at  $1013\text{mbar}$  atmospheric pressure. We reserve the right to make changes of constructions and performance curves without prior notice. We do not take any responsibility for misprints.



<b>HXM</b>	<b>30</b>
<b>COMPACT</b>	<b>31</b>
<b>AFW</b>	<b>40</b>

In-Line Fans

**Axial-flow Fans Wall Versions**

Axial-flow Fans Cased Versions

**Roof Fans**

Fans "ATEX"

**Centrifugal Fans VISP/VASP**

Centrifugal Fans

**Side Channel Blowers**

Chip Extractors

**Domestic Fans**

Accessories

**Electric Diagrams**

General Information

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**Construction**

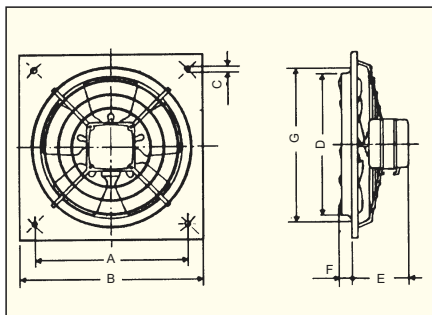
Axial-flow fan for wall mounting. Impeller of punched aluminium sheet, wall plate in galvanized steel sheet. Can be mounted in various directions.

**Motor**

220-240V, 50Hz single-phase shade pole motor with self-lubricating bearing. Enclosure IP40 or IP00 (HXM-400). Insulation class B. Variable speed control with transformer or electronic regulator. Thermal protection may be supplied on request.

**Data**

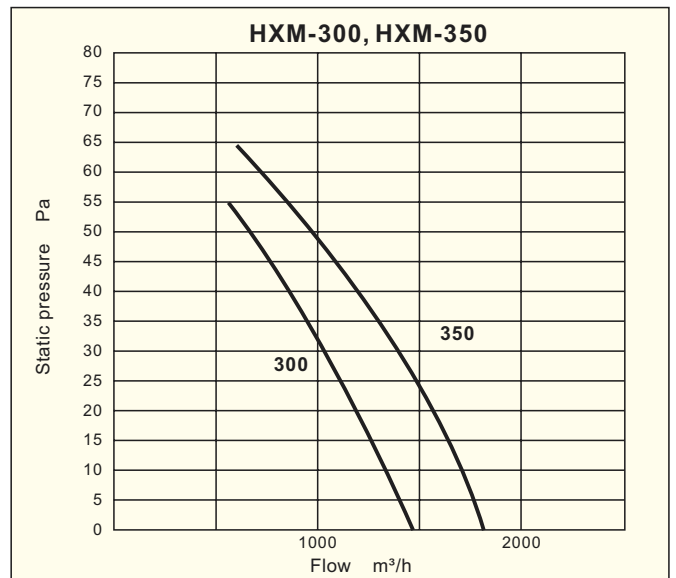
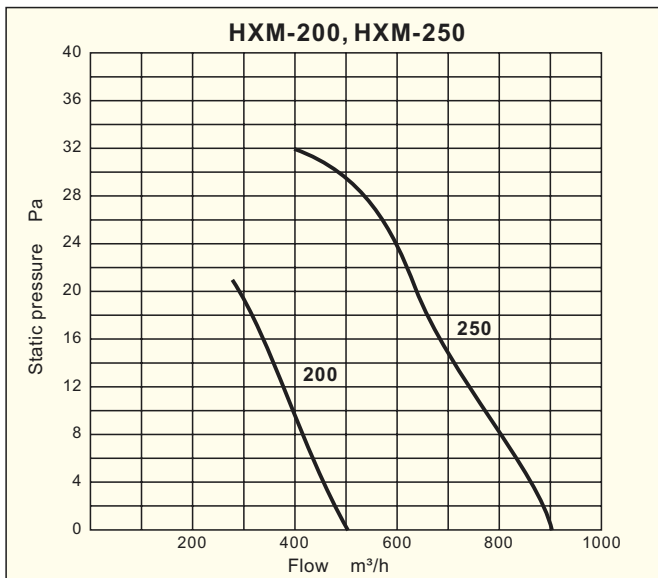
Type	Speed rpm	Motor power W	Maximum current A	Maximum duty m <sup>3</sup> /h	Sound level dB(A)	Weight kg	Article number
HXM-200	1 300	32	0,22	500	36	1,7	112 150 101
HXM-250	1 300	46	0,31	900	42	2,5	112 150 201
HXM-300	1 300	55	0,40	1 400	48	3,1	112 150 301
HXM-350	1 300	65	0,50	1 800	53	4,4	112 150 401



**Dimensions in mm**

Type	A	B	C	D	E	F	G
HXM-200	222,0	266	9,0	205	82,5	19,0	211
HXM-250	275,5	333	9,0	255	92,5	31,0	261
HXM-300	336,5	400	10,5	305	92,5	35,5	311
HXM-350	390,0	465	10,5	361	105,5	34,5	371

**Performance curves**



**Accessories**



PER-W  
page 68



PER-CN  
page 68



REB  
page 230



HCFT, HCFB

### Construction

Motor with painted cast aluminum casing. Impellers made of injection moulded plastic reinforced with anchored fiberglass, UV stable (HCFT/HCFB), or die casted in aluminium (HCBT/HCBB). Dynamic balanced according to ISO 1940. Adjustable impellers in plastic or aluminium can be supplied on request. For wall installation the fan can be mounted on a plate formed from a steel sheet stamping and is equipped with a steel wire finger proof guard. The motor and the unique construction of the impeller give compact solidity and allow wall- and duct-mounting in all variable positions.

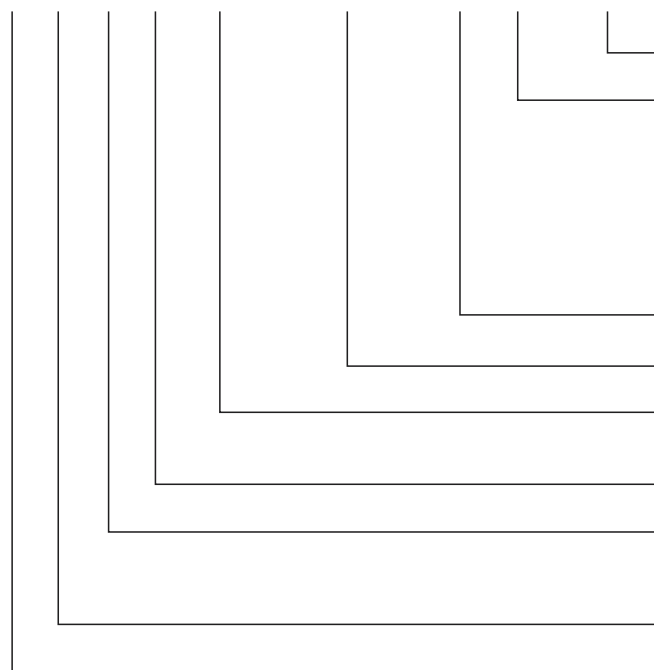
### Motor

380–415V, 50Hz three-phase alt. 220–240V, 50Hz single-phase asynchronous motor, thermal protection with outgoing leads to the terminal box. Enclosure IP65 according to UNE 20–11 and IEC 34–5 (waterproof, dustproof design). Insulation class F for a maximum

environmental temperature of +70°C. The motor is designed according to IEC 34–1 and is dynamic balanced according to ISO 1940. Speed controllable by variation of the supply voltage by means of transformer or electric regulator. Special voltage or frequency, improved enclosure and three-phase motors for "Y" resp. "Δ" – running can be supplied on request.

Wiring diagram, see page 234.

### Model numbering system



- Special version
  - A** = air direction motor - impeller for wall mounting
  - B** = air direction impeller - motor, standard for duct mounting
  - Ex** = explosion proof motor EExe II T3
  - L** = weather proof enclosure      **M** = extended lead (830mm long)
  - N** = without frame
  - PN** = deep support without frame
  - S** = motor and impeller only
  - W** = remote terminal box      **X** = support without safety guard
- Blade angle      **H** = high (approx 34°)      **L** = low (approx 22°)
- Nominal diameter in mm
- Speed:    2 = approx 2900rpm 50Hz    4 = approx 1400rpm 50Hz  
           6 = approx 900rpm 50Hz        8 = approx 700rpm 50Hz
- Type of motor:      **T** = three-phase      **B** = single-phase
- Impeller:            **F** = fixed blades impeller, standard  
                           **G** = adjustable blade impellers  
                           **B** = impeller in aluminium
- C** = compact series
- Fan mounting:      **H** = wall mounted      **T** = case duct mounted

### Accessories



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PER-CN  
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REB  
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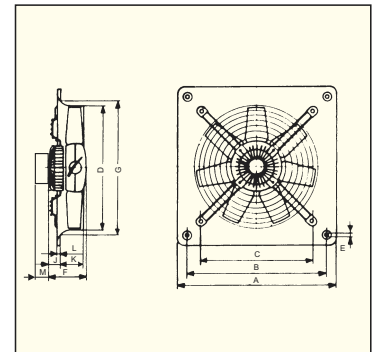


RMB, RMT  
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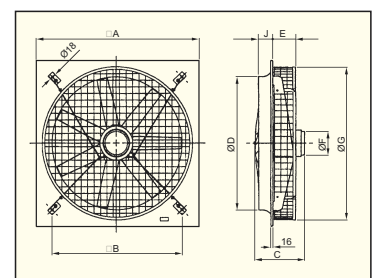


## Dimensions in mm

Type	A	B	C	ØD	ØE	F				ØG	J				K	L	M	
						/2	/4	/6	/8		/2	/4	/6	/8			HCFT	HCFB
250	315	260	220	254	10	122	122			294	59	59			53	12	40	65
315	400	330	280	315	10		122			329		32			68	12	40	65
355	450	380	315	355	10		129	129		371		45	45		75	12	40	65
400	500	420	355	400	10		129	129		422		40,5	40,5		78	12	40	65
450	560	480	400	450	10		150	150	150	476		48	48	48	91	12	40	65
500	630	560	450	500	10		150	150	150	536		44,5	44,5	44,5	97	12	40	65
560	710	630	510	560	10		218,5	150	150	596		110,5	42	42	98,5	12	40	65
630	800	710	580	630	12		218,5	150	150	674		110,5	41	41	103	12	40	65
710	900	800	636	710	12		218,5	218,5	218,5	733		134	134	134	91,5	16,5	40	65



Type	□	□	Ø	J	E	Ø	C						ØF					
							/4		/6		/8		/4		/6		/8	
							L	H	L	H	L	H	L	H	L	H	L	H
HCFT-800	1000	800	800	92	189	926	345	380	310	345	310	345	181	203	162	181	162	181
HCFT-1000	1250	1000	1000	110	174	1154	380	380	345	380	345	380	203	203	181	203	181	203



\* blade angle H = high (approx 34°)  
L = low (approx 22°)

## Acoustic characteristics Sound pressure level dB(A)

### 2-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
2-250	50	61	68	73	74	74	67	58

### 4-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
4-250	44	50	57	58	60	59	53	42
4-315	37	47	57	61	66	63	57	48
4-355	39	59	56	65	70	66	61	52
4-400	41	62	58	67	74	70	66	43
4-450	40	65	62	68	77	71	67	58
4-500	50	68	67	73	79	77	72	61
4-560	47	72	70	82	82	79	74	65
4-630	52	75	73	81	86	83	77	68
4-710	56	78	76	84	89	86	81	71
4-800/L	61	83	81	89	95	91	86	77
4-800/H	64	86	84	92	98	94	89	80
4-1000/L	68	90	88	96	102	98	93	84
4-1000/H	71	93	91	99	105	101	96	87

### 6-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
6-355	39	45	46	52	53	54	48	37
6-400	34	46	49	59	60	60	53	41
6-450	35	50	52	61	64	62	56	45
6-500	39	52	55	63	67	65	59	49
6-560	41	55	60	67	71	70	64	53
6-630	43	59	62	70	71	69	67	56
6-710	51	65	68	77	80	79	73	62
6-800/L	56	70	73	82	85	84	78	67
6-800/H	58	72	75	84	87	86	80	69
6-1000/L	63	77	80	89	92	91	85	74
6-1000/H	66	80	83	92	95	94	88	77

### 8-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
8-450	42	42	47	55	57	58	49	39
8-500	42	42	51	56	59	59	52	42
8-560	46	46	55	60	62	62	55	45
8-630	45	48	57	63	63	64	58	46
8-710	57	57	64	71	73	73	65	55
8-800/L	61	61	69	75	77	77	70	60
8-800/H	63	63	71	77	79	79	72	62
8-1000/L	68	68	76	82	84	84	77	67
8-1000/H	72	72	80	86	88	88	81	71

Technical specification HCFT / HCFB

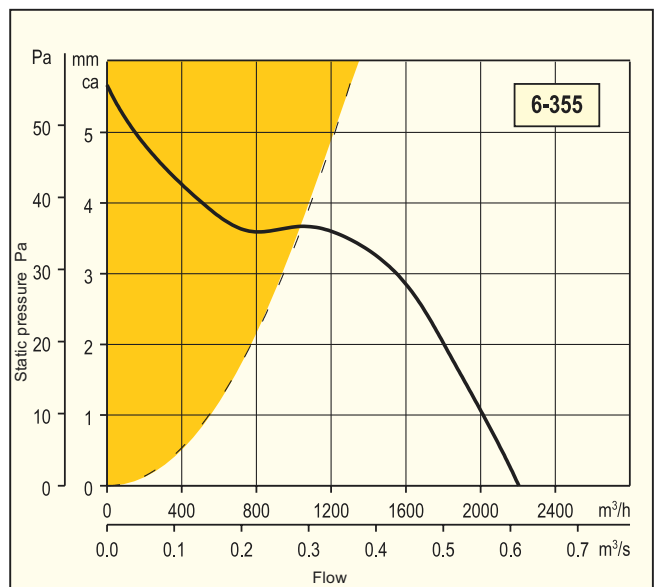
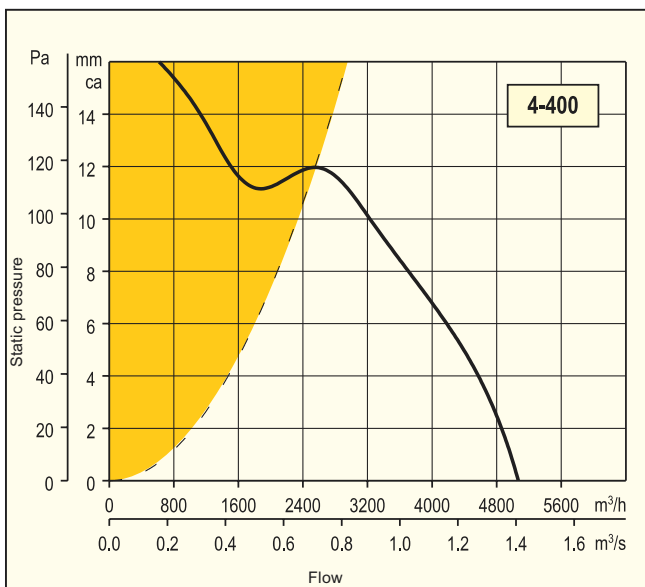
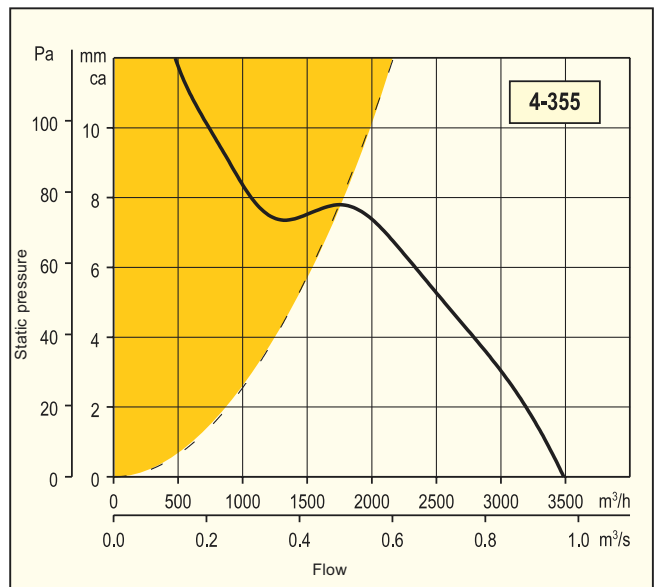
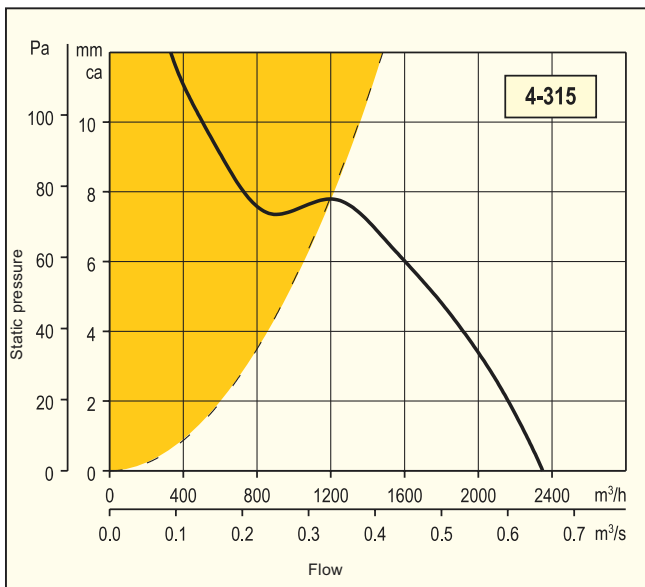
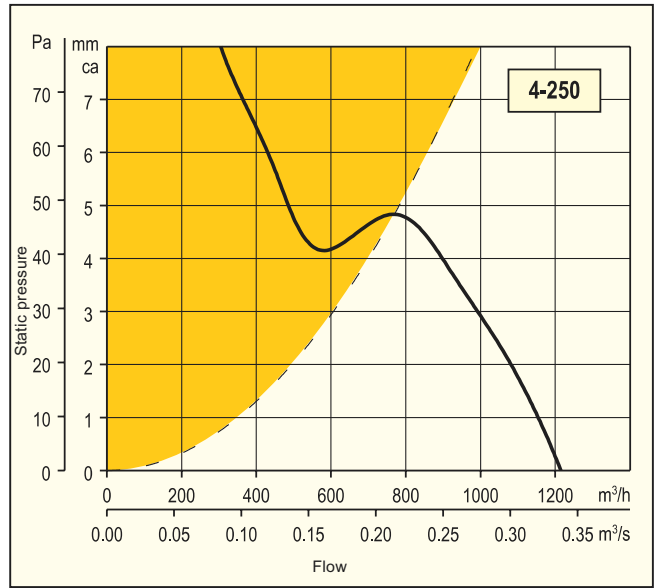
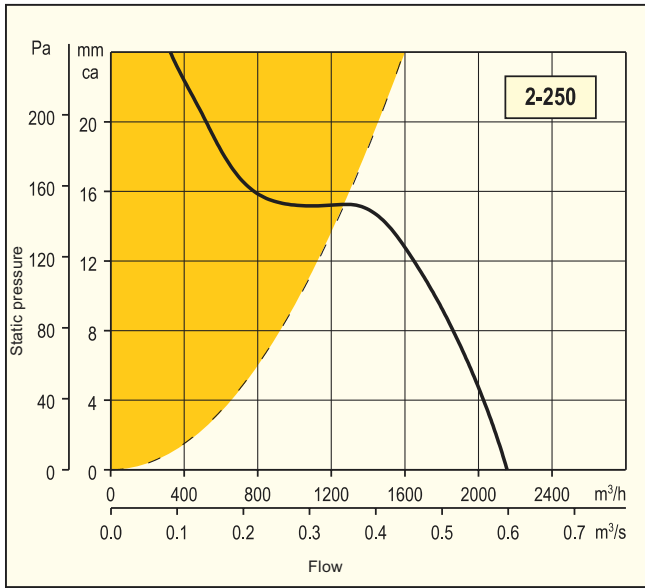
	Number of poles	Type	Speed	Maximum power absorbed	Maximum current		Duty at free discharge (max)	Sound pressure level	Weight	Speed regulation device	Article number
		Wall version	rpm		W	230 V					
SINGLE-PHASE	2	HCFB/2-250/H	2500	250	1,2	—	2160	65	4,4	—	112 300 885
	4	HCFB/4-250/H	1330	60	0,3	—	1215	52	4,4	REB-1	112 300 995
		HCFB/4-315/H	1300	100	0,6	—	2350	54	6,5	REB-1	112 301 051
		HCFB/4-355/H	1225	200	1,0	—	3490	58	7,6	REB-2,5	112 301 151
		HCFB/4-400/H	1200	340	1,6	—	5070	60	9,0	REB-2,5	112 301 251
		HCFB/4-450/H	1290	480	2,3	—	6760	65	13,0	REB-2,5	112 301 361
		HCFB/4-500/H	1290	650	3,0	—	9200	68	15,4	REB-5N	112 301 451
		HCFB/4-560/H	1250	980	4,9	—	12480	71	21,3	REB-5N	112 301 551
	6	HCFB/4-630/H	1200	1700	7,6	—	17060	72	25,0	—	112 301 651
		HCFB/6-355/H	800	90	0,5	—	2210	50	7,6	REB-1	112 303 051
		HCFB/6-400/H	750	110	0,6	—	3400	52	9,0	REB-1	112 303 151
		HCFB/6-450/H	835	220	1,2	—	4550	53	13,0	REB-2,5	112 303 251
		HCFB/6-500/H	840	290	1,6	—	5820	56	15,4	REB-2,5	112 303 351
		HCFB/6-560/H	900	420	2,4	—	7870	59	21,3	REB-2,5	112 303 451
		HCFB/6-630/H	800	510	2,6	—	10750	60	25,0	REB-5N	112 303 551
	8	HCFB/6-710/H	900	1300	5,7	—	17570	66	27,0	—	112 303 651
		HCFB/8-450/H	625	130	0,7	—	3500	48	13,0	REB-1	112 306 251
		HCFB/8-500/H	605	160	0,9	—	4660	49	16,0	REB-1	112 306 351
HCFB/8-560/H		610	240	1,3	—	5990	51	21,3	REB-2,5	112 306 451	
HCFB/8-630/H		585	320	1,7	—	8340	52	25,0	REB-2,5	112 306 551	
		HCFB/8-710/H	625	480	2,4	—	11960	60	27,0	—	112 306 651
THREE-PHASE	2	HCFT/2-250/H	2500	250	—	0,5	2160	65	5,0	—	112 289 035
	4	HCFT/4-250/H	1330	60	—	0,2	1220	52	4,4	RMT-1,5	112 209 895
		HCFT/4-315/H	1300	150	—	0,3	2350	54	6,5	RMT-1,5	112 300 051
		HCFT/4-355/H	1260	200	—	0,5	3490	58	7,6	RMT-1,5	112 300 151
		HCFT/4-400/H	1350	300	—	0,8	5070	60	9,0	RMT-1,5	112 300 251
		HCFT/4-450/H	1230	500	—	1,0	6760	65	13,0	RMT-1,5	112 300 351
		HCFT/4-500/H	1350	660	—	1,6	9200	68	16,0	RMT-3,5	112 300 451
		HCFT/4-560/H	1320	1210	—	2,3	12480	71	22,0	RMT-3,5	112 300 551
		HCFT/4-630/H	1420	1550	—	3,0	17060	72	25,0	—	112 300 651
		HCFT/4-710/H	1350	2200	—	4,0	22150	75	27,0	—	113 300 710
		HCFT/4-800/L	1420	2300	—	3,8	24960	79	37,0	—	112 300 711
		HCFT/4-800/H	1430	4200	—	7,3	32600	82	52,0	—	112 300 715
	6	HCFT/4-1000/L	1400	4400	—	7,1	42000	84	67,0	—	112 300 721
		HCFT/4-1000/H	1460	7200	—	12,0	54000	87	95,0	—	112 300 725
		HCFT/6-355/H	875	90	—	0,3	2210	50	7,6	RMT-1,5	112 302 051
		HCFT/6-400/H	830	110	—	0,3	3400	52	9,0	RMT-1,5	112 302 151
		HCFT/6-450/H	835	190	—	0,5	4550	53	13,0	RMT-1,5	112 302 251
		HCFT/6-500/H	840	250	—	0,5	5820	56	16,0	RMT-1,5	112 302 351
		HCFT/6-560/H	900	410	—	0,9	8260	59	22,0	RMT-1,5	112 302 451
		HCFT/6-630/H	810	460	—	1,2	11000	60	25,0	RMT-1,5	112 302 551
		HCFT/6-710/H	920	1100	—	2,8	16500	66	27,0	—	113 302 701
		HCFT/6-800/L	900	1180	—	2,2	19370	70	31,0	—	112 302 711
		HCFT/6-800/H	940	1220	—	2,5	22000	72	36,0	—	112 302 715
	8	HCFT/6-1000/L	940	1400	—	3,2	28000	75	54,0	—	112 302 721
		HCFT/6-1000/H	950	2330	—	4,4	36400	78	62,0	—	112 302 725
		HCFT/8-450/H	660	130	—	0,4	3500	51	13,0	RMT-1,5	112 304 051
		HCFT/8-500/H	625	150	—	0,4	4660	53	15,4	RMT-1,5	112 304 151
		HCFT/8-560/H	610	230	—	0,6	5990	55	21,3	RMT-1,5	112 304 251
HCFT/8-630/H		635	310	—	0,8	8340	57	25,0	RMT-1,5	112 304 301	
HCFT/8-710/H		670	450	—	1,2	11960	60	27,0	—	112 304 361	
HCFT/8-800/L		710	580	—	1,3	14000	63	63,0	—	112 305 365	
HCFT/8-800/H		690	700	—	1,7	17160	65	64,0	—	112 304 371	
		HCFT/8-1000/L	700	720	—	1,7	20490	68	68,0	—	112 304 375
		HCFT/9-1000/H	725	1100	—	2,7	27040	72	71,0	—	112 304 381

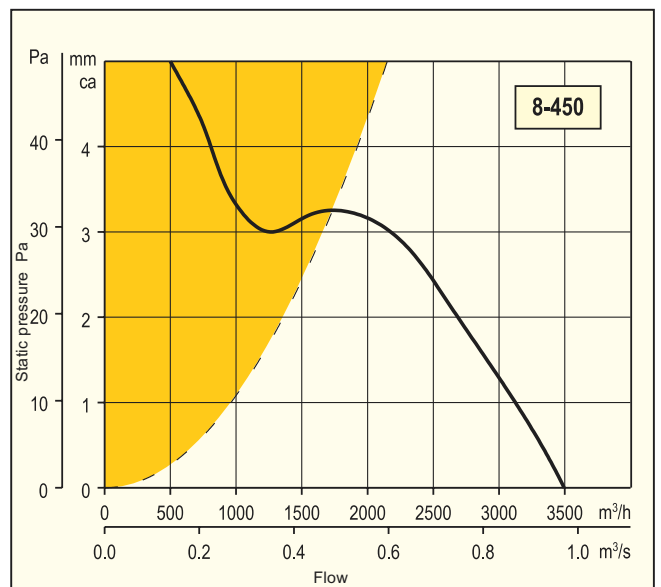
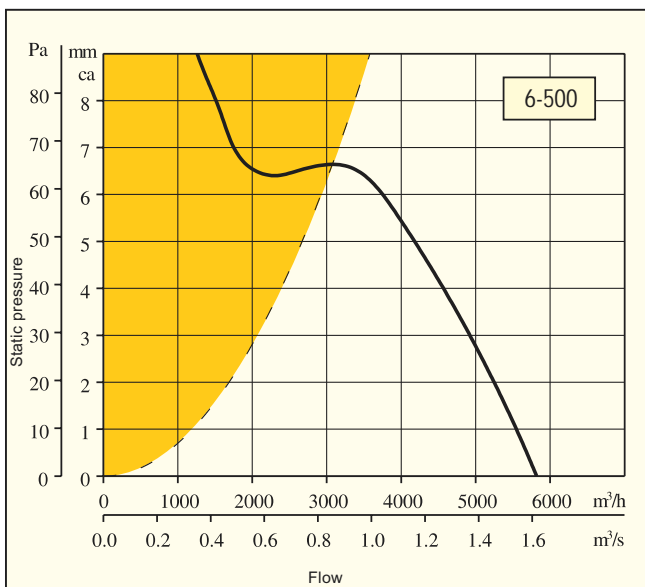
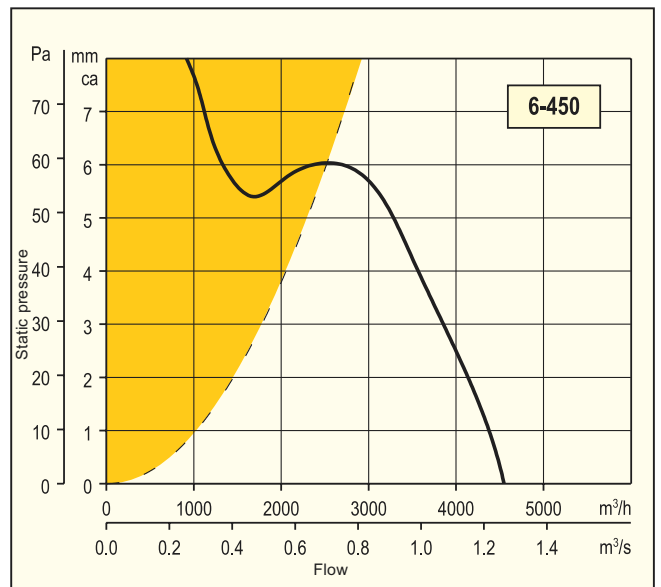
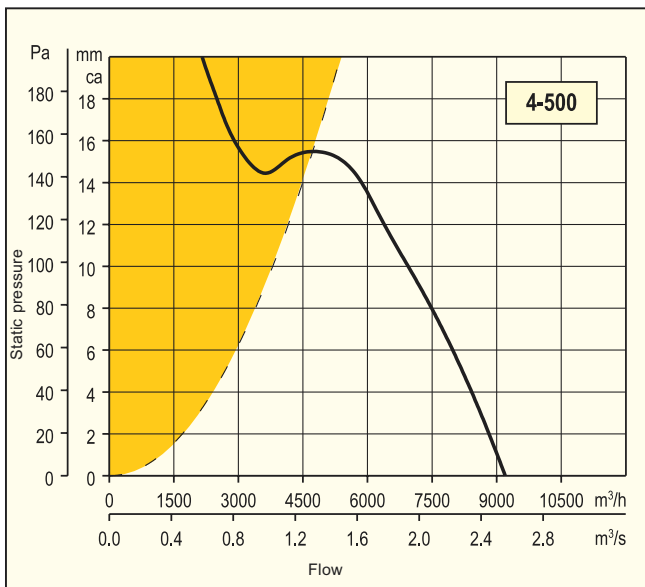
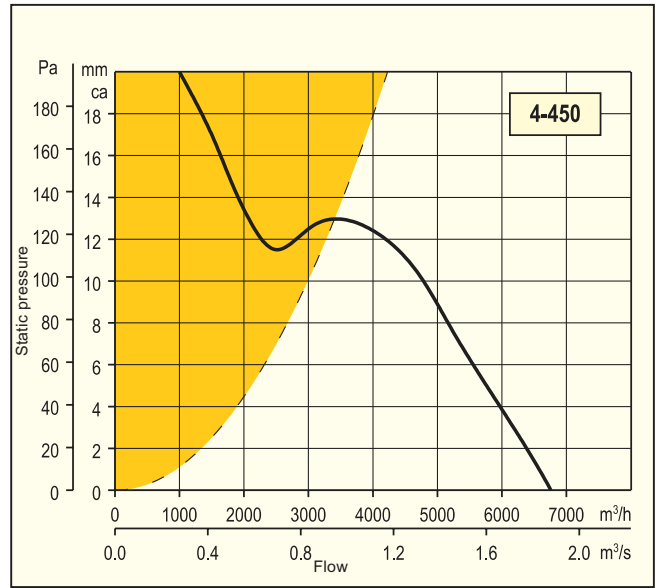
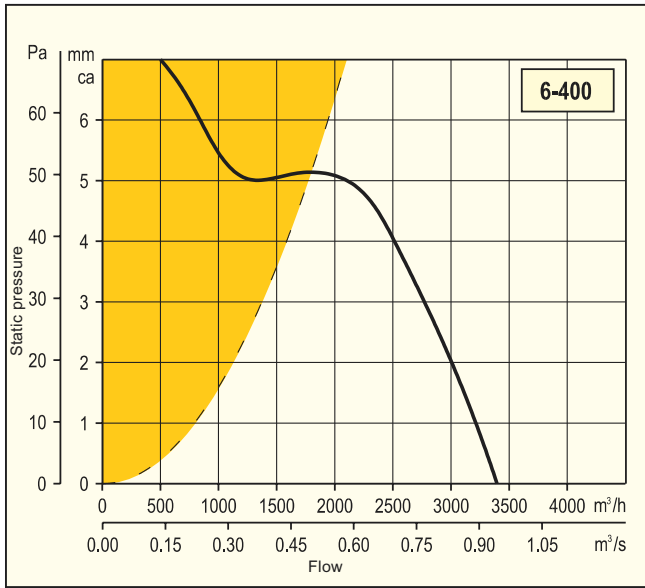


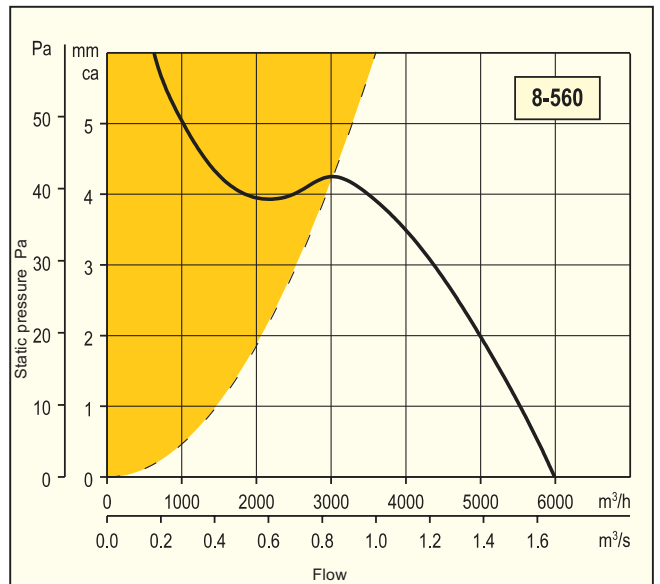
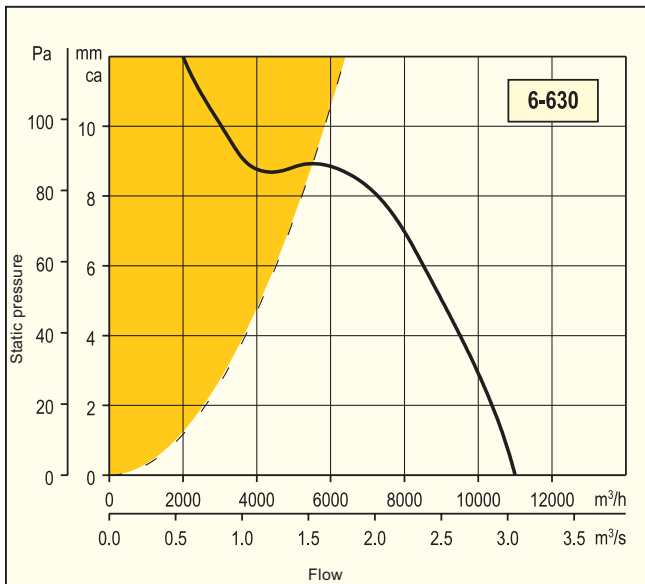
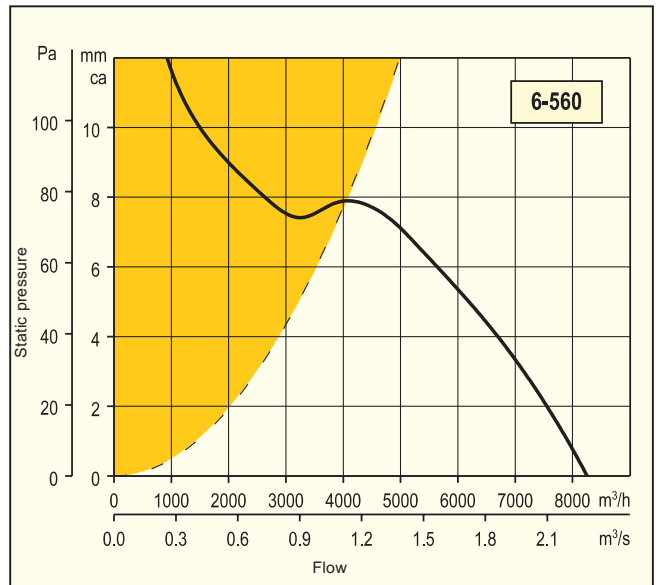
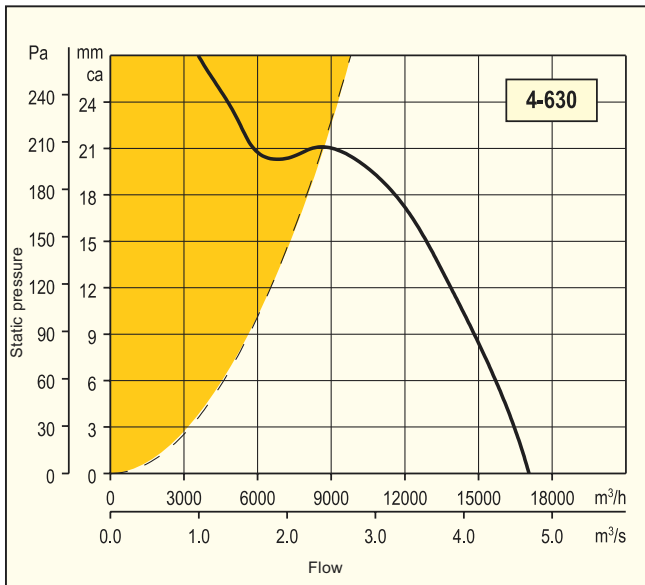
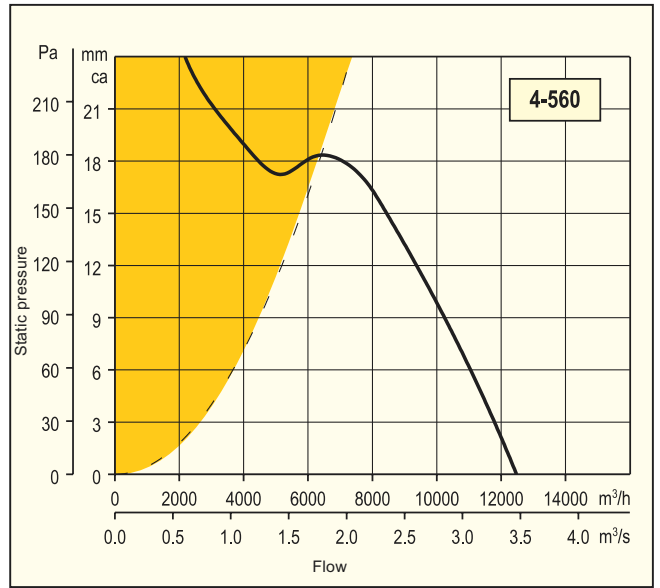
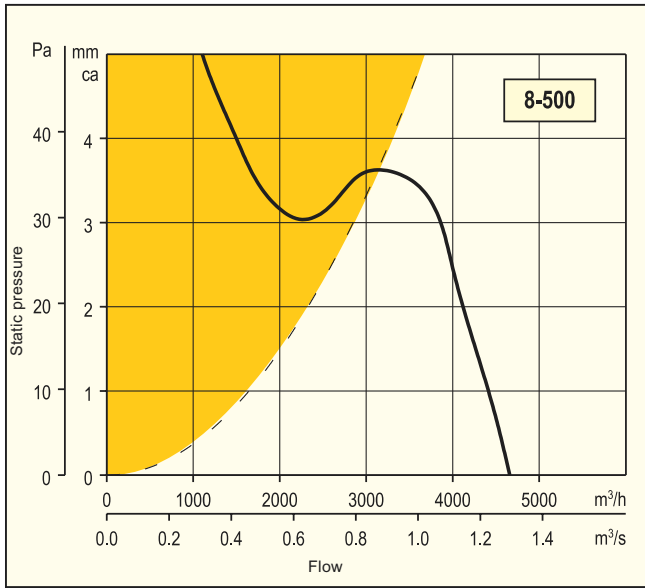
Technical specification HCBT / HCBB

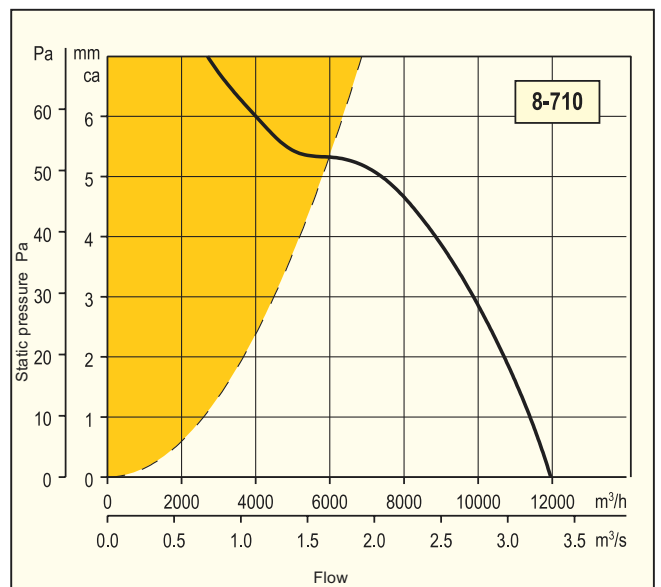
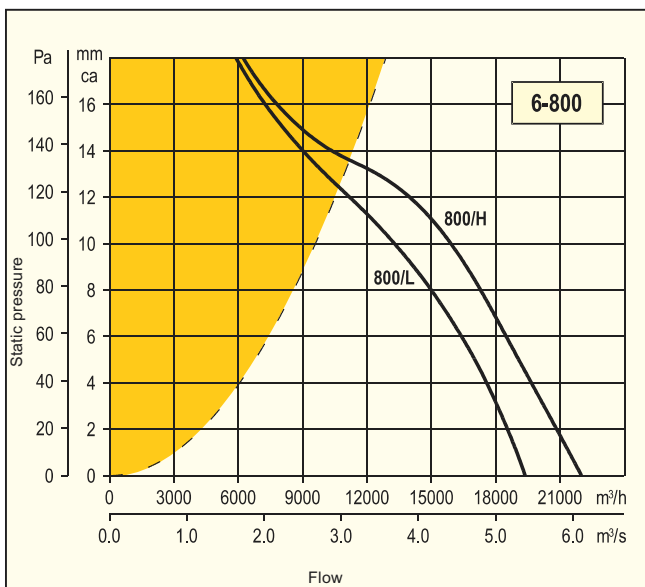
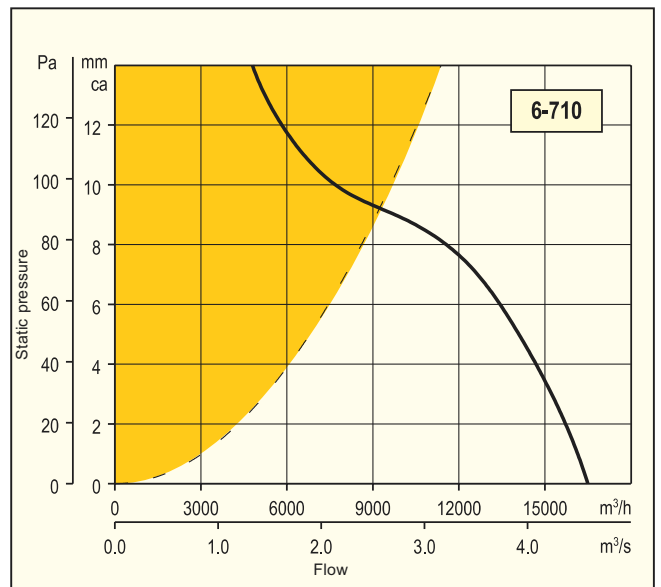
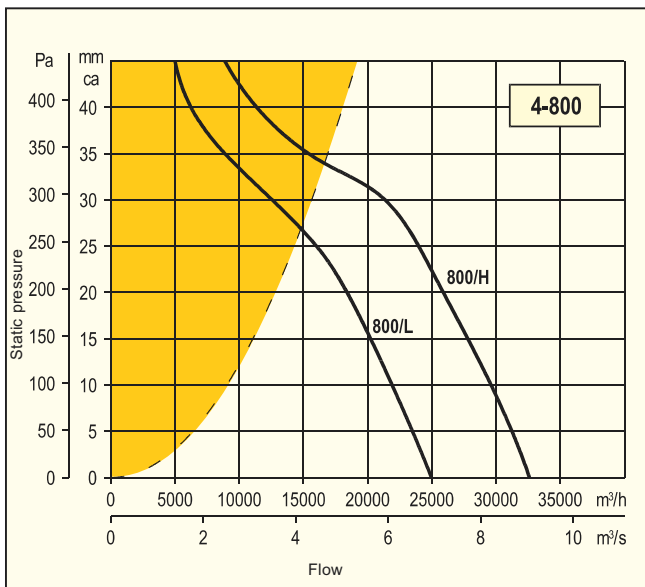
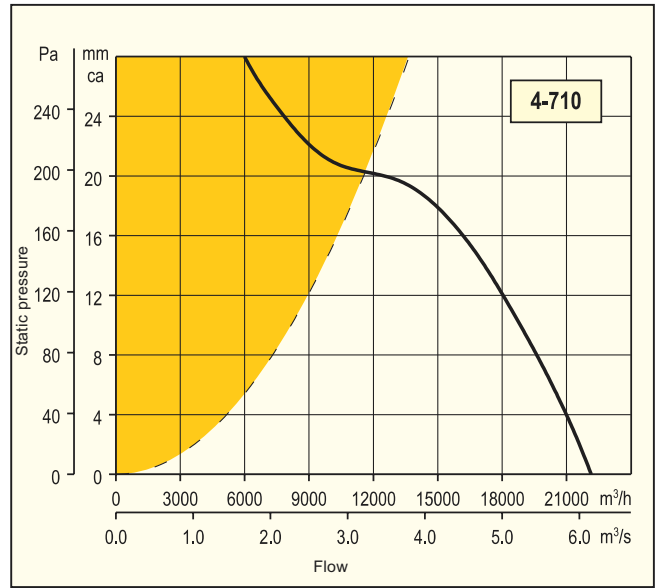
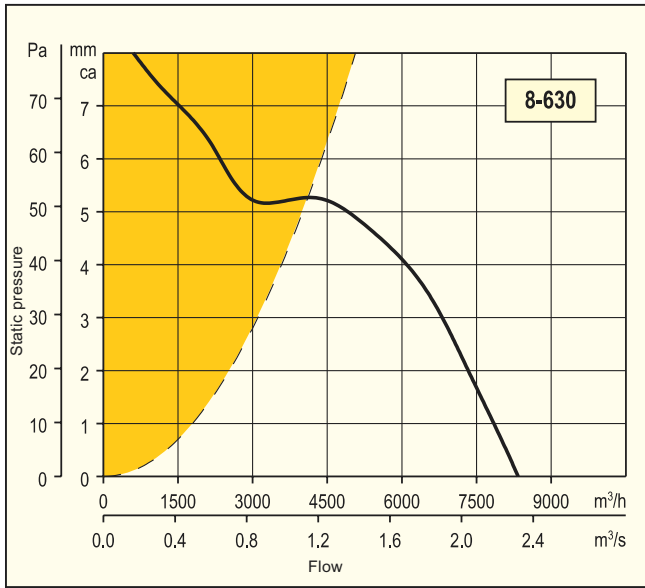
	Number of poles	Type	Speed rpm	Maximum power absorbed W	Maximum current A		Sound pressure level dB (A)	Duty at free discharge (max) m³/h	Weight kg	Speed regulation device	Article number	
		Wall version			230 V	400 V						
SINGLE-PHASE	2	HCBB/2-250/H	2500	250	1,2	—	65	2160	5	—	112 300 881	
	4	HCBB/4-250/H	1330	60	0,3	—	52	1215	5	REB-1	112 300 991	
		HCBB/4-315/H	1300	100	0,6	—	54	2350	7	REB-1	112 301 071	
		HCBB/4-355/H	1225	200	1,0	—	58	3490	8	REB-2,5	112 301 171	
		HCBB/4-400/H	1200	340	1,6	—	60	5070	9	REB-2,5	112 301 271	
		HCBB/4-450/H	1290	480	2,3	—	65	6760	13	REB-2,5	112 301 371	
		HCBB/4-500/H	1290	650	3,0	—	68	9200	16	REB-5N	112 301 471	
		HCBB/4-560/H	1250	980	4,9	—	71	12480	22	REB-5N	112 301 571	
		HCBB/4-630/H	1200	1700	7,6	—	72	17060	25	—	112 301 671	
	6	HCBB/6-355/H	800	90	0,5	—	50	2210	8	REB-1	112 303 071	
		HCBB/6-400/H	750	110	0,6	—	52	3400	9	REB-1	112 303 171	
		HCBB/6-450/H	835	220	1,2	—	53	4550	13	REB-2,5	112 303 271	
		HCBB/6-500/H	840	290	1,6	—	56	5820	16	REB-2,5	112 303 371	
		HCBB/6-560/H	900	420	2,4	—	59	7870	22	REB-2,5	112 303 471	
		HCBB/6-630/H	800	510	2,6	—	60	10750	25	REB-5N	112 303 571	
		HCBB/6-710/H	900	1300	5,7	—	66	17570	27	—	112 303 671	
	8	HCBB/8-450/H	625	130	0,7	—	46	3500	13	REB-1	112 306 271	
		HCBB/8-500/H	605	160	0,9	—	49	4660	16	REB-1	112 306 371	
		HCBB/8-560/H	610	240	1,3	—	52	5990	22	REB-2,5	112 306 471	
		HCBB/8-630/H	585	320	1,7	—	53	8340	25	REB-2,5	112 306 571	
		HCBB/8-710/H	625	480	2,4	—	59	11960	27	—	112 306 671	
	THREE-PHASE	2	HCBT/2-250/H	2500	250	0,9	0,5	65	2160	5	—	112 289 075
		4	HCBT/4-250/H	1330	60	0,3	0,2	52	1220	5	RMT-1,5	112 209 875
			HCBT/4-315/H	1300	150	0,6	0,3	54	2350	7	RMT-1,5	112 300 071
			HCBT/4-355/H	1260	200	0,8	0,5	58	3490	8	RMT-1,5	112 300 171
HCBT/4-400/H			1350	300	1,4	0,8	60	5070	9	RMT-1,5	112 300 271	
HCBT/4-450/H			1230	500	1,7	1,0	65	6760	13	RMT-1,5	112 300 371	
HCBT/4-500/H			1350	660	2,7	1,6	68	9200	16	RMT-3,5	112 300 471	
HCBT/4-560/H			1320	1210	3,9	2,3	71	12480	22	RMT-3,5	112 300 571	
HCBT/4-630/H			1420	1550	5,2	3,0	72	17060	25	—	112 300 671	
HCBT/4-710/H			1350	2200	7,0	4,0	75	22150	27	—	112 300 770	
HCBT/4-800/L			1420	2300	6,6	3,8	79	24960	37	—	112 300 771	
HCBT/4-800/H			1430	4200	12,6	7,3	82	32600	52	—	112 300 775	
HCBT/4-1000/L			1400	4400	12,3	7,1	84	42000	67	—	112 300 776	
HCBT/4-1000/H		1460	7200	20,5	12,0	87	54000	95	—	112 300 777		
6		HCBT/6-355/H	875	90	0,5	0,3	50	2210	8	RMT-1,5	112 302 071	
		HCBT/6-400/H	830	110	0,5	0,3	52	3400	9	RMT-1,5	112 302 171	
		HCBT/6-450/H	835	190	0,8	0,5	53	4550	13	RMT-1,5	112 302 271	
		HCBT/6-500/H	840	250	0,9	0,5	56	5820	16	RMT-1,5	112 302 371	
		HCBT/6-560/H	900	410	1,6	0,9	59	8260	22	RMT-1,5	112 302 471	
		HCBT/6-630/H	810	460	2,0	1,2	60	11000	25	RMT-1,5	112 302 571	
		HCBT/6-710/H	920	1100	4,9	2,8	66	16500	27	—	112 302 770	
		HCBT/6-800/L	900	1180	3,9	2,2	70	19370	31	—	112 302 771	
		HCBT/6-800/H	940	1220	4,3	2,5	72	22000	36	—	112 302 775	
		HCBT/6-1000/L	940	1400	5,6	3,2	75	28000	54	—	112 302 776	
HCBT/6-1000/H		950	2330	7,6	4,4	78	36400	62	—	112 302 777		
8		HCBT/8-450/H	660	130	0,7	0,4	46	3500	13	RMT-1,5	112 304 071	
		HCBT/8-500/H	625	150	0,7	0,4	49	4660	16	RMT-1,5	112 304 171	
		HCBT/8-560/H	610	230	1,0	0,6	52	5990	22	RMT-1,5	112 304 271	
		HCBT/8-630/H	635	310	1,3	0,8	53	8340	25	RMT-1,5	112 304 372	
		HCBT/8-710/H	970	150	2,0	1,2	59	11960	27	—	112 304 373	
		HCBT/8-800/L	710	580	2,2	1,3	63	14000	63	—	112 304 374	
	HCBT/8-800/H	690	700	3,0	1,7	65	17160	64	—	112 304 376		
	HCBT/8-1000/L	700	720	3,0	1,7	68	20490	68	—	112 304 377		
	HCBT/8-1000/H	725	1100	4,6	2,7	72	27040	71	—	112 304 378		

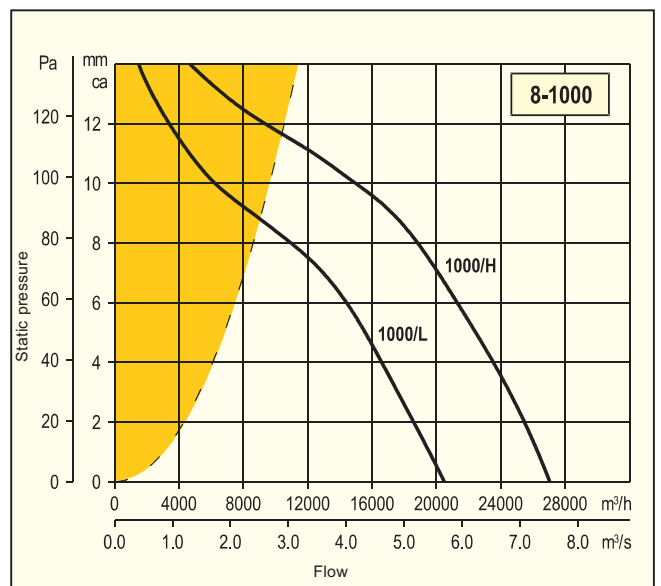
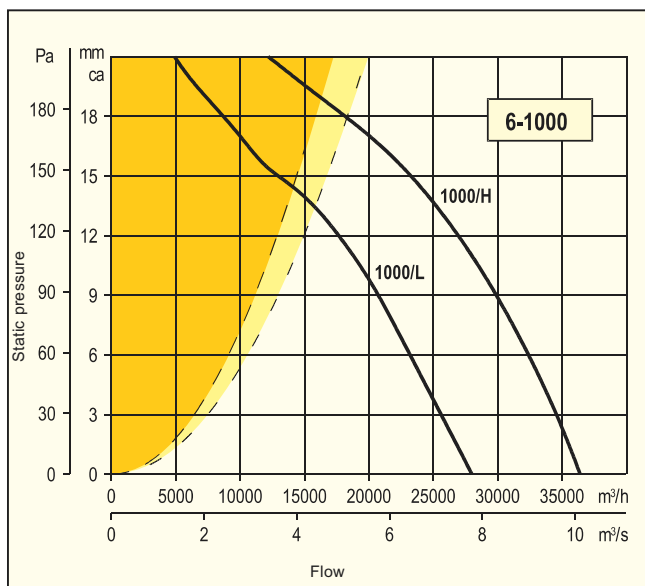
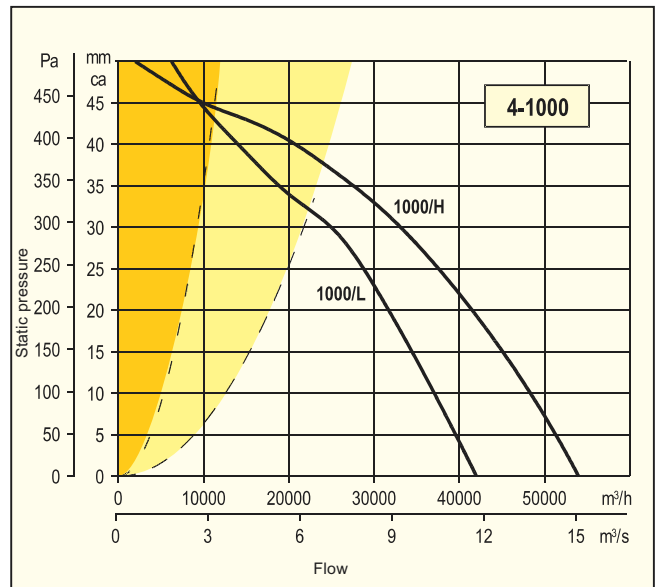
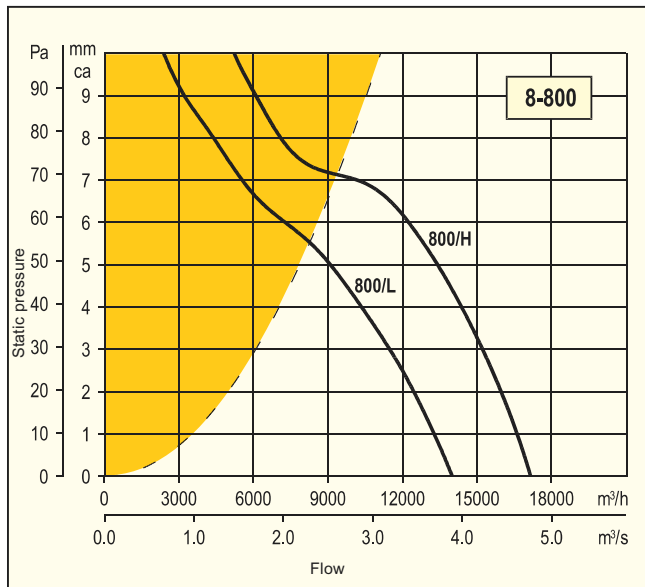
**Performance curves**















**Construction**

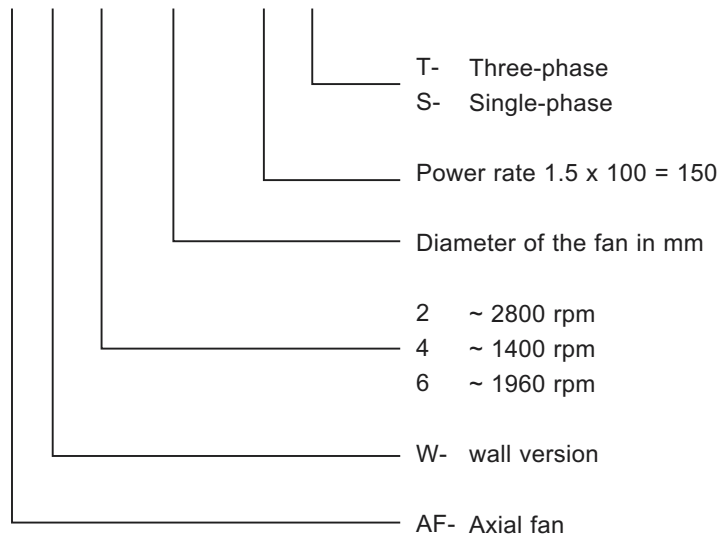
Axial-flow fan for wall mounting. Impeller of polyamide reinforced with anchored fiberglass. Wall plate formed from a steel sheet stamping. The motor and the unique construction of the impeller give compact solidity and allow wall- and duct-mounting in all variable positions.

**Motor**

220-240/380-420V, 50 Hz (380-420/660-690V over 3kW) three-phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor, in accordance with IEC72 and IEC34-1. Insulation class F, enclosure IP55. Special voltage or frequency, improved enclosure IP65, explosion proof motor may be supplied on request. Wiring diagram, see page 235.

**Model numbering system**

**AFW / 2 - 400 - 150 T**



**Accessories**



PER-W  
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PER-CN  
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REB  
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RMB, RMT  
page 230

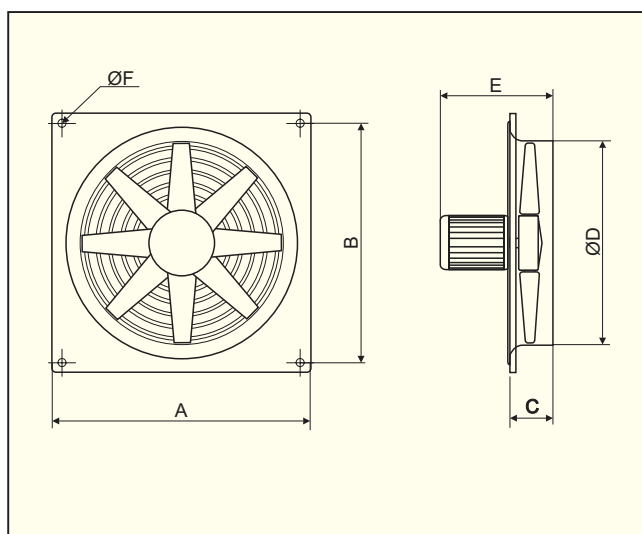
**Data**

Type	Speed rpm	Voltage V	Rated output kW	Rated current A	Sound level dB (A)*	Max Flow m³/h	Weight kg	Article number
AFW/2-250-025S	2850	230V	0,25	1,8	72	2250	9	213 909 250
AFW/2-315-037S	2860	230V	0,37	2,5	74	3400	10	213 909 315
AFW/2-355-055S	2860	230V	0,55	3,4	77	4500	11	213 909 355
AFW/2-250-025T	2760	400V	0,25	0,65	72	2250	9	213 910 250
AFW/2-250-037T	2800	400V	0,37	1,0	72	2600	10	213 910 253
AFW/2-315-037T	2800	400V	0,37	1,0	74	3400	12	213 910 315
AFW/2-315-075T	2800	400V	0,75	1,9	77	5000	18	213 910 317
AFW/2-355-055T	2790	400V	0,55	1,35	77	4500	14	213 910 355
AFW/2-355-110T	2780	400V	1,1	2,5	78	5700	22	213 910 358
AFW/2-400-150	2800	400V	1,5	3,4	80	7800	30	213 910 400
AFW/2-450-220	2800	400V	2,2	4,7	81	9500	38	213 910 450
AFW/2-450-300	2800	400V	3,0	6,5	81	12000	38	213 910 455
AFW/2-500-300	2800	400V	3,0	6,5	81	15000	40	213 910 500
AFW/4-560-150	1440	400V	1,5	4,3	82	14000	33	213 910 560
AFW/4-630-220	1420	400V	2,2	4,8	82	18200	41	213 910 630
AFW/4-710-400	1440	400V	4,0	8,1	83	25500	45	213 910 710

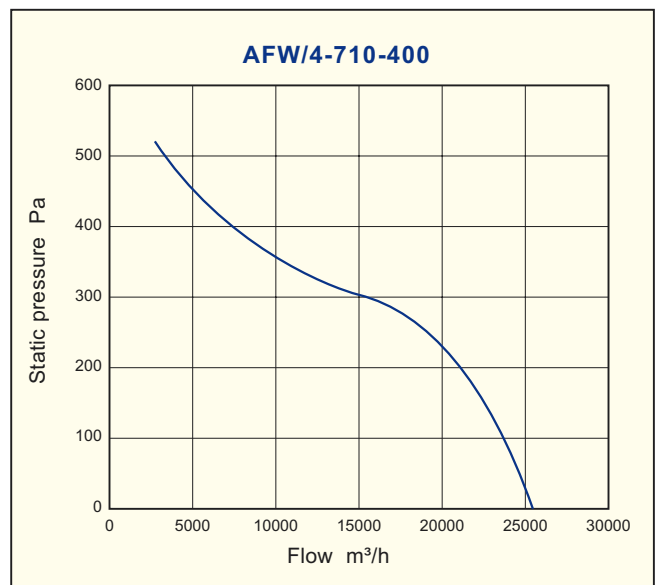
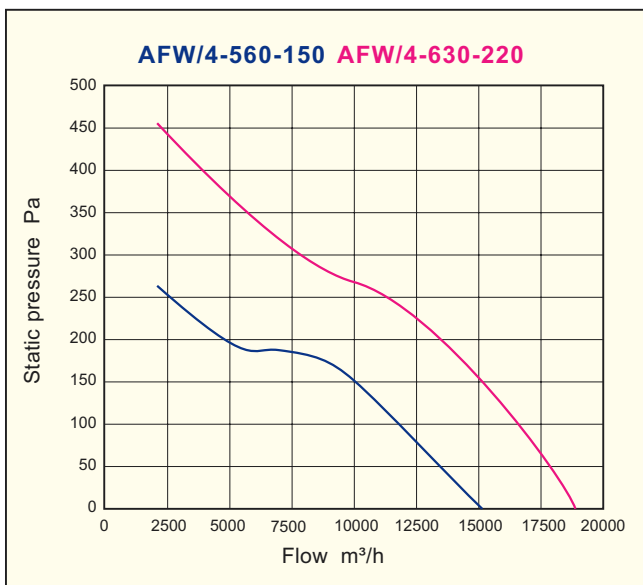
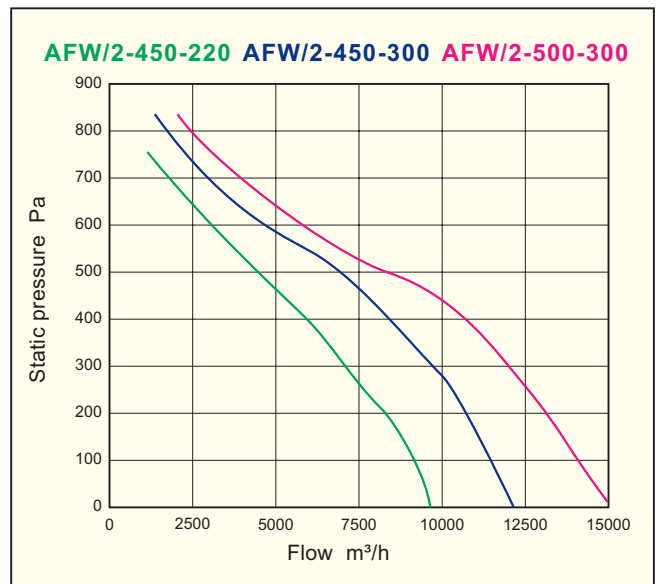
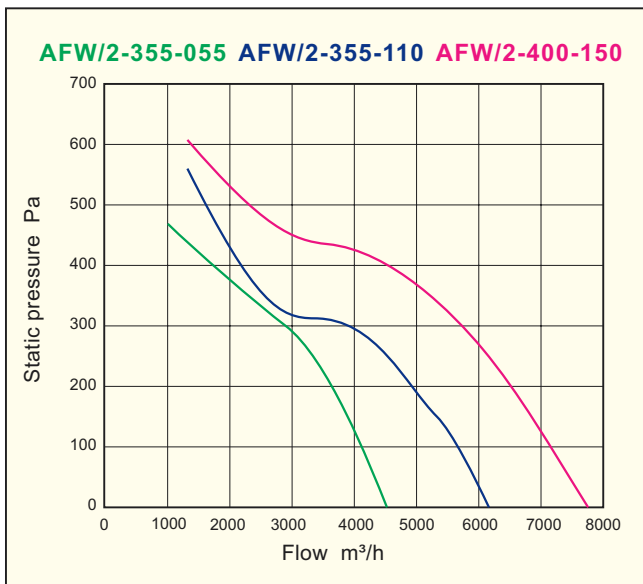
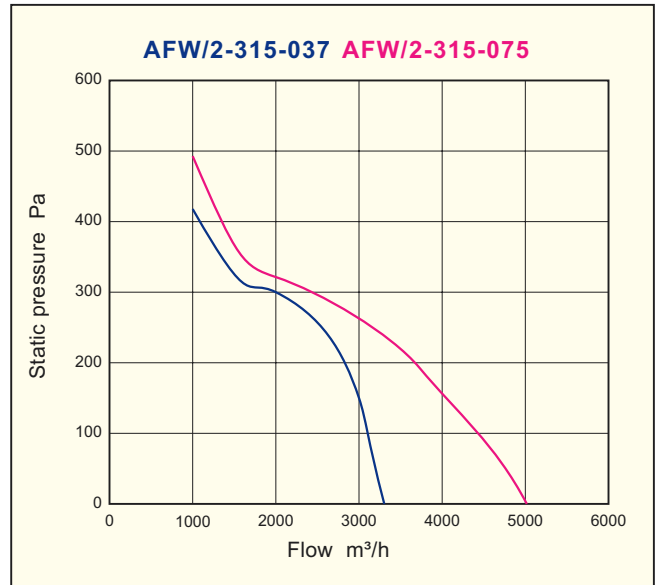
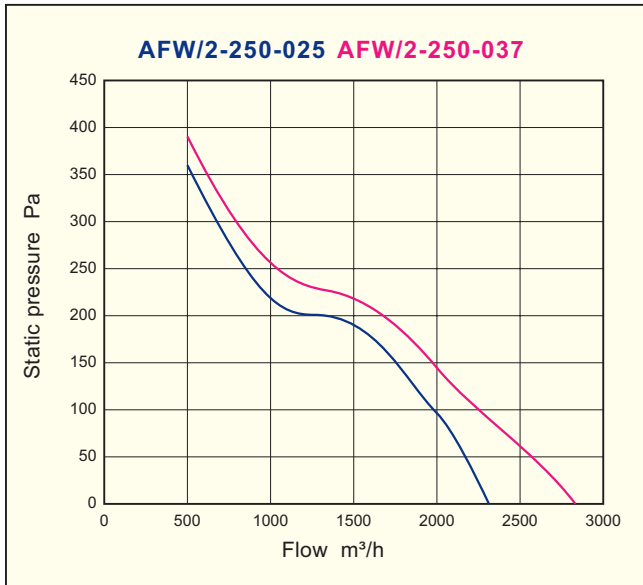
\* distance 1m

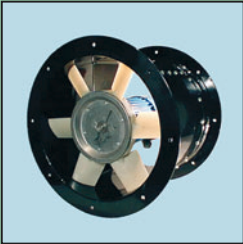
**Dimensions in mm**

Type	A	B	C	D	E	F
AFW/2-250-025	315	260	65	254	275	10
AFW/2-250-037	315	260	65	254	290	10
AFW/2-315-037	400	330	80	315	300	10
AFW/2-315-075	400	330	80	315	320	10
AFW/2-355-055	450	380	87	355	320	10
AFW/2-355-110	450	380	87	355	320	10
AFW/2-400-150	500	420	90	400	350	10
AFW/2-450-220	560	480	103	450	390	10
AFW/2-450-300	560	480	103	450	390	10
AFW/2-500-300	630	560	110	500	400	10
AFW/4-560-150	710	630	110	560	400	10
AFW/4-630-220	800	710	115	630	425	10
AFW/4-710-400*	900	800	110	710	430	10,5



Performance curves





<b>COMPACT</b>	<b>44</b>
<b>TCBBx2, TCBTx2</b>	<b>52</b>
<b>AFC</b>	<b>54</b>
<b>AFC - VB</b>	<b>58</b>
<b>AFC - HT</b>	<b>60</b>
<b>AFD</b>	<b>61</b>
<b>AFH</b>	<b>63</b>
<b>AFS</b>	<b>65</b>
<b>AFK</b>	<b>67</b>
<b>Accessories</b>	<b>68</b>

**In-Line Fans**

**Axial-flow Fans Wall Versions**

**Axial-flow Fans Cased Versions**

**Roof Fans**

**Fans "ATEX"**

**Centrifugal Fans VISP/VASP**

**Centrifugal Fans**

**Side Channel Blowers**

**Chip Extractors**

**Domestic Fans**

**Accessories**

**Electric Diagrams**

**General Information**

**Index**



TCFT, TCFB

**Construction**

Motor with painted cast aluminum casing. Impellers made of injection moulded plastic reinforced with anchored fiberglass, UV stable (TCFT/TCFB), or die casted in aluminium (TCBT/TCBB). Dynamic balanced according to ISO 1940. Adjustable impellers in plastic or aluminium can be supplied on request. For duct installation the fan is mounted in a casing of steel sheet. The motor and the unique construction of the impeller give compact solidity and allow wall- and duct-mounting in all variable positions.

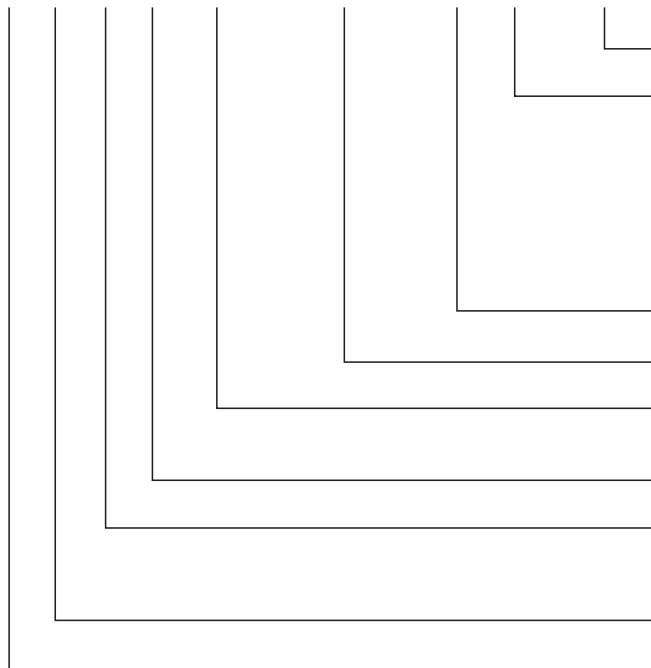
**Motor**

380–415V, 50Hz three-phase alt. 220–240V, 50Hz single-phase asynchronous motor, thermal protection with outgoing leads to the terminal box. Enclosure IP65 according to UNE 113 and IEC 34–1 (size /4-710 and 800 are IP55). Insulation class F for a maximum

environmental temperature of +70°C. The motor is designed according to IEC 34–1 and is dynamic balanced according to ISO 1940. Speed controllable by variation of the supply voltage by means of transformer or electric regulator (not size /4-560, -4-630, 710 and 800). Special voltage or frequency, improved enclosure can be supplied on request.

Wiring diagram, see page 235.

**Model numbering system**



- Special version
  - A = air direction motor - impeller for wall mounting
  - B = air direction impeller - motor, standard for duct mounting
  - Ex = explosion proof motor EExe II T3
  - L = weather proof enclosure      M = extended lead (830mm long)
  - S = motor and impeller only
  
- Blade angle      H = high (approx 34°)      L = low (approx 22°)
- Nominal diameter in mm
- Speed:    2 = approx 2900rpm 50Hz    4 = approx 1400rpm 50Hz  
           6 = approx 900rpm 50Hz        8 = approx 700rpm 50Hz
- Type of motor:    T = three-phase    B = single-phase
- Impeller:        F = fixed blades impeller, standard  
                       G = adjustable blade impellers  
                       B = impeller in aluminium
  
- C = compact series
  
- Fan mounting:    H = wall mounted    T = case duct mounted

**Accessories**



ACOP  
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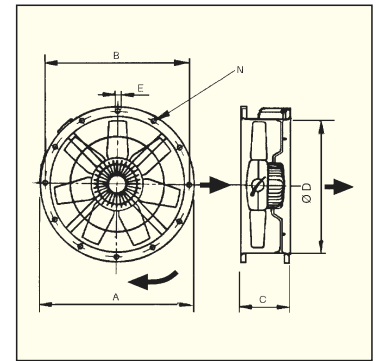
REB  
page 230



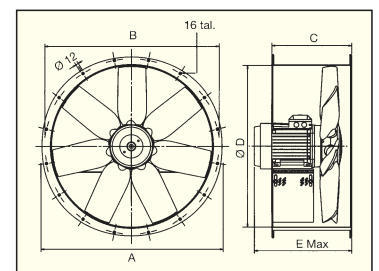
RMB, RMT  
page 230

Dimensions in mm

Type	ØA	B	C	ØD	ØE	Number of holes N
250	327	292	170	254	10	4
315	386	355	170	315	10	8
355	426	395	170	355	10	8
400	487	450	170	400	12	8
450	537	500	180	450	12	8
500	595	560	180	500	12	12
560	655	630	240	560	12	12
630	725	690	240	630	12	12
710 (6/8 p)	806	770	240	710	12	16



Type	ØA	B	C	ØD	E		
					4 p	6 p	8 p
710/L (4 p)	806	770	350	710	405	-	-
710/H (4 p)	806	770	350	710	426	-	-
800/L	896	860	350	800	419	398	398
800/K	896	860	350	800	415	419	398
800/G	896	860	350	800	471	415	419
800/H	896	860	350	800	471	415	419



Acoustic characteristics Sound pressure level dB(A)

2-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
2-250/H	50	61	68	73	74	74	67	58

6-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
6-355/H	39	45	46	52	53	54	48	37
6-400/H	34	46	49	59	60	60	53	41
6-450/H	32	48	52	60	64	62	56	47
6-500/H	36	52	55	64	68	66	60	50
6-560/L	36	51	57	66	70	68	62	54
6-560/H	38	53	59	68	72	70	64	56
6-630/L	37	51	60	69	73	71	65	58
6-630/H	39	53	62	71	75	72	67	60
6-710/L	45	66	72	78	79	76	71	64
6-710/H	48	68	75	81	82	79	74	67
6-800/L	58	74	86	89	89	84	77	68
6-800/K	60	76	88	91	91	85	78	69
6-800/G	61	77	88	92	92	86	79	70
6-800/H	62	79	90	93	94	88	81	72

4-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
4-250/H	44	50	57	58	60	59	53	42
4-315/H	37	47	57	61	66	63	57	48
4-355/H	39	59	56	65	70	66	61	52
4-400/H	41	62	58	67	74	70	66	43
4-450/H	41	57	60	69	73	71	65	55
4-500/H	44	61	64	73	76	75	68	59
4-560/L	44	60	66	75	78	76	71	62
4-560/H	46	61	67	76	80	78	72	64
4-630/L	46	60	69	78	82	80	75	67
4-630/H	47	61	70	79	83	81	76	68
4-710/L	52	72	79	84	86	83	78	70
4-710/H	56	76	83	88	90	86	81	74
4-800/L	64	81	92	95	96	90	83	74
4-800/K	67	83	94	98	98	92	85	76
4-800/G	69	85	96	99	100	94	87	78
4-800/H	71	87	99	102	102	97	90	81

8-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
8-450/H	38	41	47	52	58	55	47	37
8-500/H	41	43	50	55	61	58	49	39
8-560/H	44	47	53	58	64	61	53	43
8-630/H	43	49	59	67	71	67	58	50
8-710/H	42	62	69	74	76	72	67	60
8-800/L	54	70	81	85	85	79	72	63
8-800/K	54	71	82	85	86	80	73	64
8-800/G	55	72	83	86	86	81	74	65
8-800/H	56	72	84	87	87	82	75	66



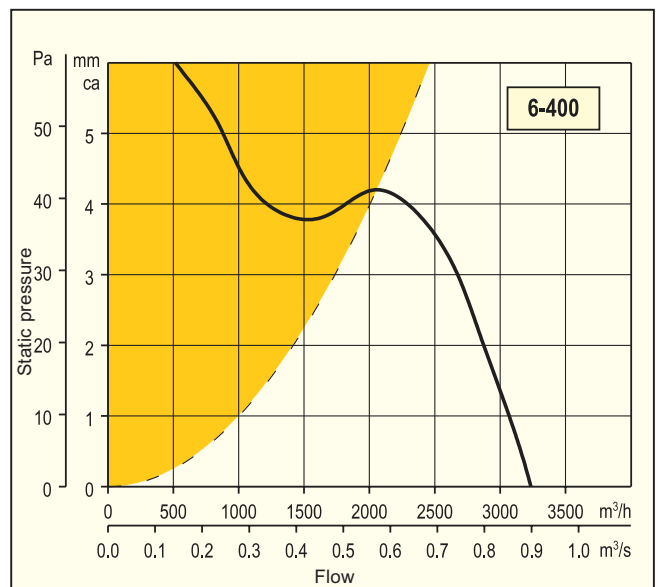
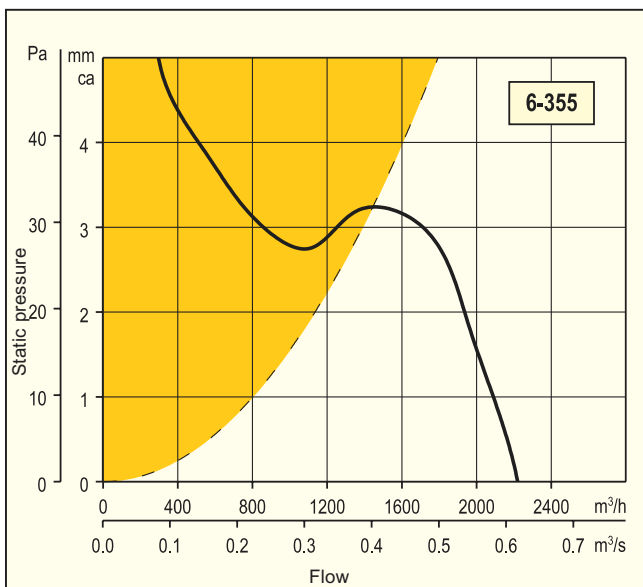
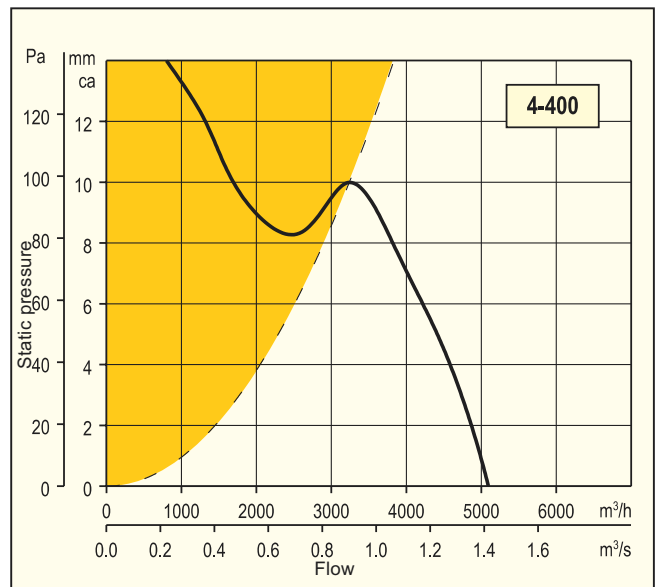
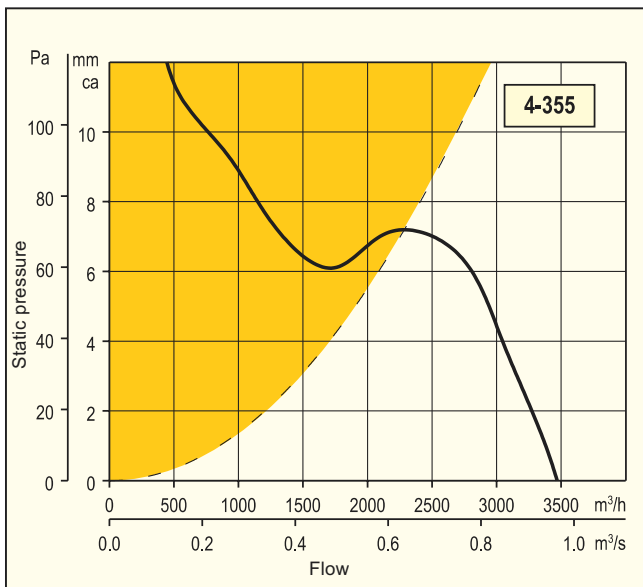
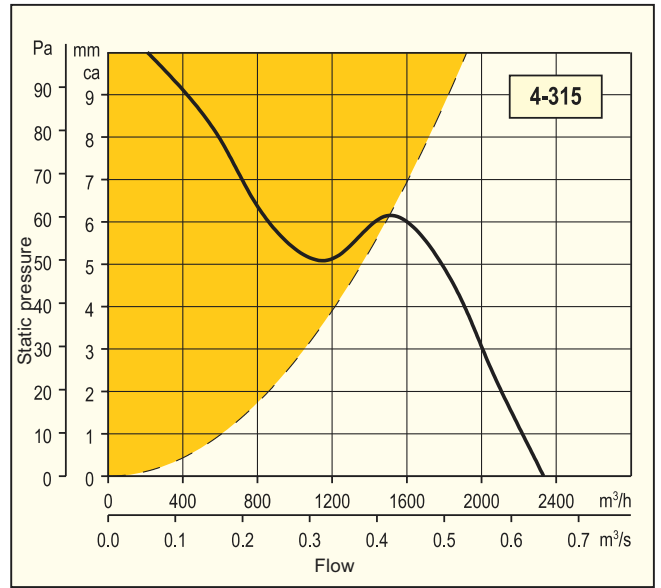
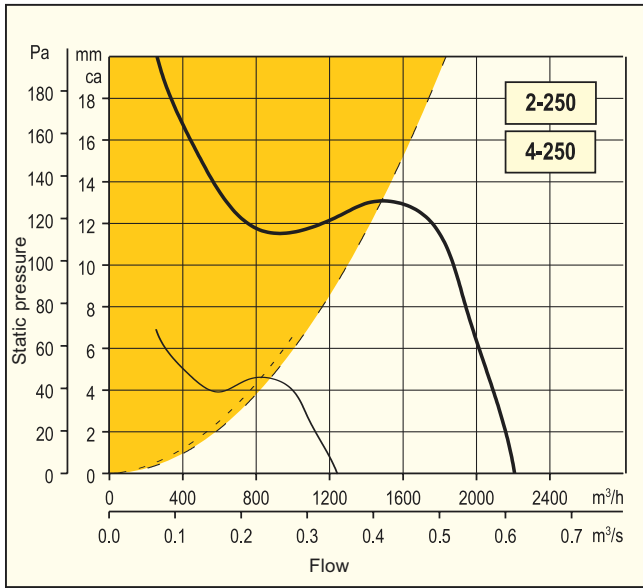
**Technical specification TCFT / TCFB**

	Number of poles	Type	Speed rpm	Maximum power W	Maximum current A		Sound pressure level dB (A)	Duty at free discharge (max) m³/h	Weight kg	Speed regulation device	Article number	
		Cased version			230 V	400 V						
<b>SINGLE-PHASE</b>	<b>2</b>											
		TCFB/2-250/H	2500	250	1,2	—	65	2160	5	—	112 350 895	
	<b>4</b>											
		TCFB/4-250/H	1330	60	0,3	—	52	1215	5	REB-1	112 350 995	
		TCFB/4-315/H	1300	100	0,6	—	54	2350	7	REB-1	112 351 051	
		TCFB/4-355/H	1225	200	1,0	—	58	3490	8	REB-2,5	112 351 151	
		TCFB/4-400/H	1200	340	1,6	—	60	5070	9	REB-2,5	112 351 251	
		TCFB/4-450/H	1290	480	2,3	—	65	6760	13	REB-2,5	112 351 351	
		TCFB/4-500/H	1290	650	3,0	—	68	9200	16	REB-5N	112 351 451	
		TCFB/4-560/H	1250	980	4,9	—	71	12480	22	REB-5N	112 351 551	
	TCFB/4-630/H	1200	1700	7,6	—	72	17060	25	—	112 351 651		
	<b>6</b>											
		TCFB/6-355/H	800	90	0,5	—	50	2210	8	REB-1	112 352 351	
		TCFB/6-400/H	750	110	0,6	—	52	3400	9	REB-1	112 352 451	
		TCFB/6-450/H	835	220	1,2	—	53	4550	13	REB-2,5	112 352 551	
		TCFB/6-500/H	840	290	1,6	—	56	5820	16	REB-2,5	112 352 651	
		TCFB/6-560/H	900	420	2,4	—	59	7870	22	REB-2,5	112 352 751	
	<b>8</b>											
TCFB/8-450/H		625	130	0,7	—	48	3500	13	REB-1	112 354 551		
TCFB/8-500/H		605	160	0,9	—	49	4660	16	REB-1	112 354 651		
TCFB/8-560/H		610	240	1,3	—	51	5990	22	REB-2,5	112 354 751		
TCFB/8-630/H	585	320	1,7	—	52	8340	25	REB-2,5	112 354 851			
<b>THREE-PHASE</b>	<b>2</b>											
		TCFT/2-250/H	2500	250	0,9	0,5	65	2160	5	—	112 330 995	
	<b>4</b>											
		TCFT/4-250/H	1330	60	0,3	0,2	52	1220	5	RMT-1,5	112 349 055	
		TCFT/4-315/H	1300	150	0,6	0,3	54	2350	7	RMT-1,5	112 350 051	
		TCFT/4-355/H	1260	200	0,8	0,5	58	3490	8	RMT-1,5	112 350 151	
		TCFT/4-400/H	1350	300	1,4	0,8	60	5070	9	RMT-1,5	112 350 251	
		TCFT/4-450/H	1230	500	1,7	1,0	65	6760	13	RMT-1,5	112 350 351	
		TCFT/4-500/H	1350	660	2,7	1,6	68	9200	16	RMT-3,5	112 350 451	
		TCFT/4-560/H	1320	1210	3,9	2,3	71	12480	22	RMT-3,5	112 350 551	
	TCFT/4-630/H	1420	1550	5,2	3,0	72	17060	25	—	112 350 651		
	<b>6</b>											
		TCFT/6-355/H	875	90	0,5	0,3	50	2210	8	RMT-1,5	112 351 751	
		TCFT/6-400/H	830	110	0,5	0,3	52	3400	9	RMT-1,5	112 351 851	
		TCFT/6-450/H	835	190	0,8	0,5	53	4550	13	RMT-1,5	112 352 041	
		TCFT/6-500/H	840	250	0,9	0,5	56	5820	16	RMT-1,5	112 352 051	
		TCFT/6-560/H	900	410	1,6	0,9	59	8260	22	RMT-1,5	112 352 151	
	<b>8</b>											
TCFT/8-450/H		660	130	0,7	0,4	51	3500	13	RMT-1,5	112 353 551		
TCFT/8-500/H		625	150	0,7	0,4	53	4660	16	RMT-1,5	112 353 651		
TCFT/8-560/H		610	230	1,0	0,6	55	5990	22	RMT-1,5	112 353 751		
TCFT/8-630/H	635	310	1,3	0,8	57	8340	25	RMT-1,5	112 353 851			

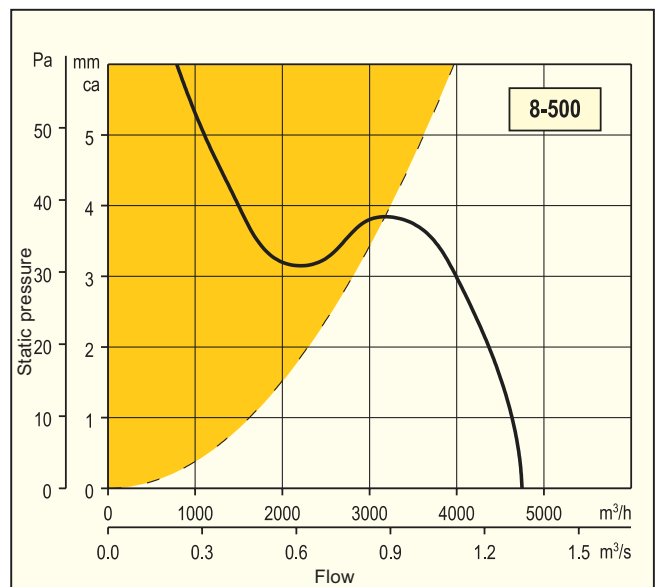
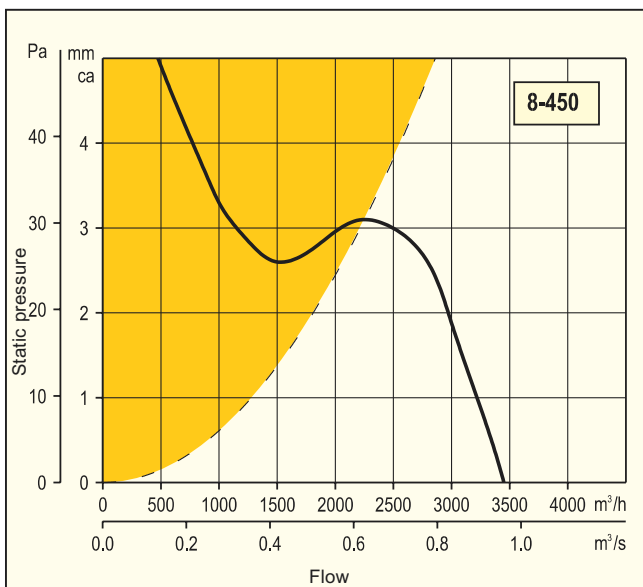
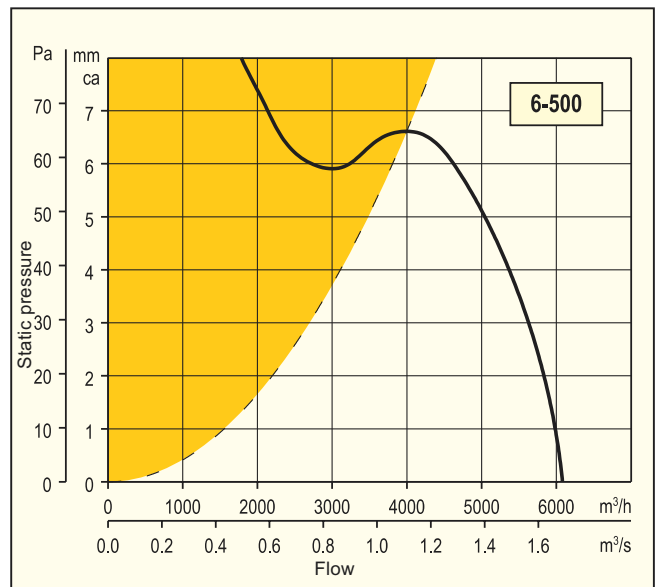
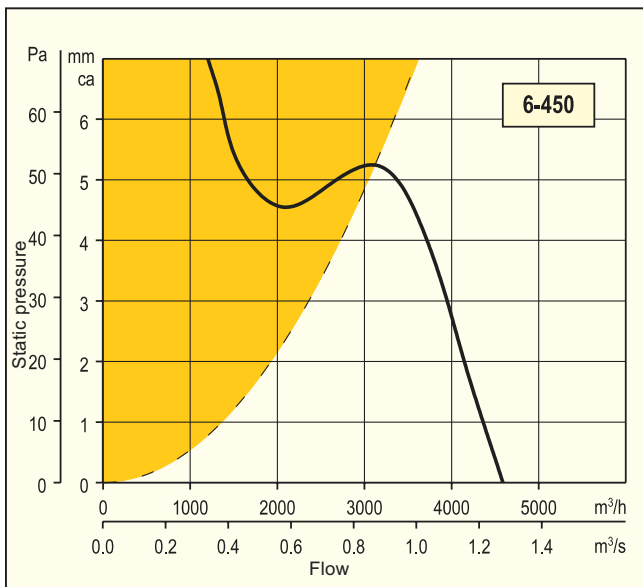
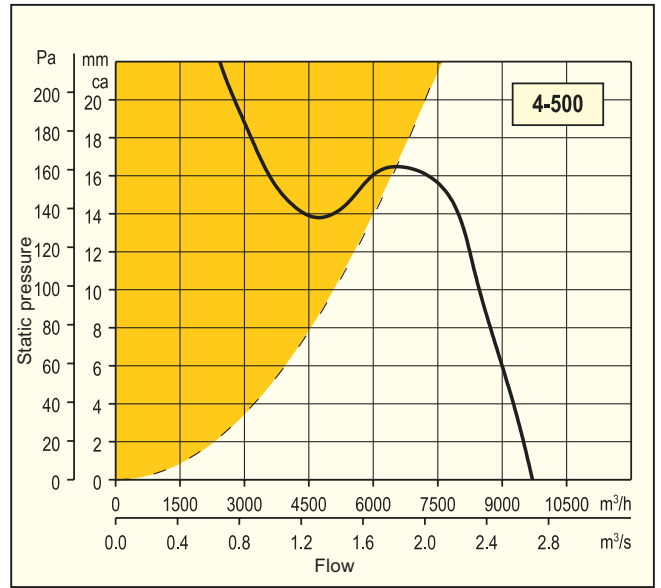
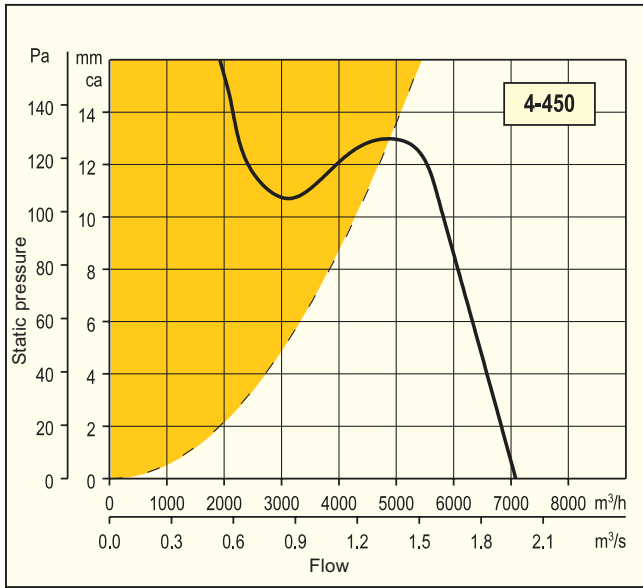
Technical specification TCBT / TCBB

	Number of poles	Type	Speed rpm	Maximum power W	Maximum current A		Sound pressure level dB (A)	Duty at free discharge (max) m³/h	Weight kg	Speed regulation device	Article number	
					230 V	400 V						
SINGLE-PHASE	2	TCBB/2-250/H	2500	240	1,2	—	65	2210	8,0	—	112 350 891	
	4	TCBB/4-250/H	1330	60	0,3	—	52	1250	8,0	REB-1	112 350 997	
		TCBB/4-315/H	1300	100	0,6	—	54	2340	11,0	REB-1	112 351 071	
		TCBB/4-355/H	1225	200	1,0	—	58	3470	13,2	REB-2,5	112 351 171	
		TCBB/4-400/H	1200	340	1,6	—	60	5100	15,5	REB-2,5	112 351 271	
		TCBB/4-450/H	1370	620	2,7	—	62	7100	21,0	REB-5	112 351 371	
		TCBB/4-500/H	1300	80	3,5	—	66	9710	25,0	REB-5	112 351 471	
		TCBB/4-560/L	1300	1240	5,8	—	67	11750	33,0	RMB-8	112 351 570	
		TCBB/4-560/H	1340	1680	7,7	—	69	13780	34,7	—	112 351 571	
	TCBB/4-630/L	1280	1800	8,4	—	70	16100	40,0	—	112 351 670		
	6	TCBB/6-355/H	800	90	0,5	—	50	2220	13,2	REB-1	112 352 371	
		TCBB/6-400/H	750	110	0,6	—	52	3240	15,5	REB-1	112 352 471	
		TCBB/6-450/H	890	240	1,2	—	53	4590	20,7	REB-2,5	112 352 571	
		TCBB/6-500/H	890	310	1,7	—	57	6100	24,8	REB-2,5	112 352 671	
		TCBB/6-560/L	900	420	2,4	—	58	7400	33,0	REB-5	112 352 770	
		TCBB/6-560/H	900	550	2,8	—	60	8680	33,5	REB-5	112 352 771	
		TCBB/6-630/L	860	640	3,1	—	60	10600	38,0	REB-5	112 352 864	
		TCBB/6-630/H	930	980	5,4	—	62	13000	38,5	RMB-8	112 352 865	
		TCBB/6-710/L	900	1050	5,5	—	66	15800	46,0	—	112 352 870	
	TCBB/6-710/H	840	1300	6,5	—	69	17800	46,0	—	112 352 871		
	8	TCBB/8-450/H	620	140	0,8	—	47	3450	20,7	REB-1	112 354 571	
		TCBB/8-500/H	595	175	1,0	—	48	4750	24,8	REB-2,5	112 354 671	
		TCBB/8-560/H	595	260	1,4	—	50	6620	33,0	REB-2,5	112 354 771	
		TCBB/8-630/H	680	440	2,1	—	57	8730	38,5	REB-2,5	112 354 871	
		TCBB/8-710/H	625	480	2,4	—	63	11000	46,0	—	112 353 865	
	THREE-PHASE	2	TCBT/2-250/H	2500	240	0,9	0,5	65	2210	8,0	—	112 330 991
		4	TCBT/4-250/H	1330	60	0,3	0,2	52	1250	8,0	RMT-1,5	112 349 056
			TCBT/4-315/H	1300	150	0,6	0,3	54	2340	11,0	RMT-1,5	112 350 071
			TCBT/4-355/H	1260	200	0,8	0,5	58	3470	13,2	RMT-1,5	112 350 171
			TCBT/4-400/H	1360	300	1,4	0,8	60	5100	15,5	RMT-1,5	112 350 271
TCBT/4-450/H			1400	630	2,7	1,6	62	7100	21,0	RMT-3,5	112 350 371	
TCBT/4-500/H			1340	880	2,9	1,7	66	9710	25,0	RMT-3,5	112 350 471	
TCBT/4-560/L			1320	1210	3,9	2,3	67	11750	33,0	RMT-8	112 350 570	
TCBT/4-560/H			1370	1520	4,9	2,8	69	13780	34,7	—	112 350 571	
TCBT/4-630/L			1330	1900	5,6	3,2	69	16100	39,0	—	112 350 580	
TCBT/4-630/H			1360	2200	7,1	4,0	70	18200	40,0	—	112 350 581	
TCBT/4-710/L			1420	2500	8,4	4,8	73	21590	46,0	—	112 350 670	
TCBT/4-710/H			1450	3400	11,1	6,4	76	25500	54,0	—	112 350 671	
TCBT/4-800/L			1450	3700	11,2	6,5	82	29200	65,0	—	112 350 770	
TCBT/4-800/K			1450	5000	-	9,0	84	33300	68,0	—	112 350 772	
TCBT/4-800/G		1460	6900	-	11,6	87	38400	81,0	—	112 350 774		
TCBT/4-800/H		1460	8800	-	15,0	89	43200	89,0	—	112 350 776		
6		TCBT/6-355/H	875	90	0,5	0,3	50	2220	13,2	RMT-1,5	112 351 771	
		TCBT/6-400/H	830	110	0,5	0,3	52	3240	15,5	RMT-1,5	112 351 871	
		TCBT/6-450/H	890	200	0,9	0,5	53	4590	20,7	RMT-1,5	112 352 071	
		TCBT/6-500/H	870	270	1,0	0,6	57	6100	24,8	RMT-1,5	112 352 081	
		TCBT/6-560/L	900	410	1,6	0,9	58	7400	33,0	RMT-3,5	112 352 170	
		TCBT/6-560/H	870	470	1,7	1,0	60	8680	33,5	RMT-3,5	112 352 171	
		TCBT/6-630/L	890	620	2,2	1,3	60	10600	38,0	RMT-3,5	112 352 240	
		TCBT/6-630/H	950	860	4,9	2,8	62	13000	38,5	RMT-8	112 352 241	
		TCBT/6-710/L	900	1080	5,7	3,3	66	15800	46,0	—	112 352 264	
		TCBT/6-710/H	910	1300	5,2	3,0	69	17800	46,0	—	112 352 265	
		TCBT/6-800/L	950	1500	5,7	3,3	74	20700	57,0	—	112 352 361	
		TCBT/6-800/K	965	1800	7,1	4,1	76	23100	64,0	—	112 352 364	
		TCBT/6-800/G	960	2500	9,0	5,2	79	26100	68,0	—	112 352 366	
		TCBT/6-800/H	980	2900	10,7	6,2	80	29800	80,0	—	112 352 368	
8	TCBT/8-450/H	665	140	0,8	0,5	47	3450	20,7	RMT-1,5	112 353 571		
	TCBT/8-500/H	615	165	1,0	0,6	50	4750	24,8	RMT-1,5	112 353 671		
	TCBT/8-560/H	595	250	1,2	0,7	52	6620	33,0	RMT-1,5	112 353 771		
	TCBT/8-630/H	980	380	1,9	1,1	57	8730	38,5	RMT-3,5	112 353 871		
	TCBT/8-710/H	920	540	2,1	1,2	63	11000	46,0	—	112 353 881		
	TCBT/8-800/L	700	650	3,1	1,8	67	14000	54,0	—	112 353 891		
	TCBT/8-800/K	710	870	4,3	2,5	69	16600	57,0	—	112 353 892		
	TCBT/8-800/G	720	1100	4,8	2,8	72	19500	61,0	—	112 353 894		
	TCBT/8-800/H	720	1340	6,2	3,6	74	22500	64,0	—	112 353 896		

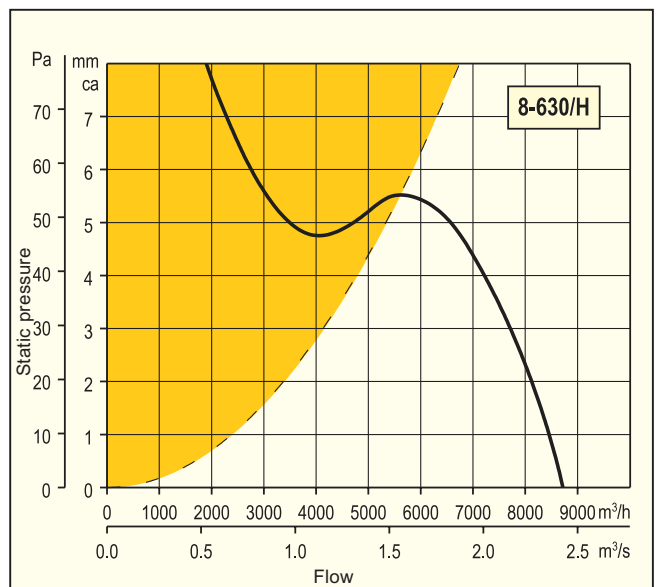
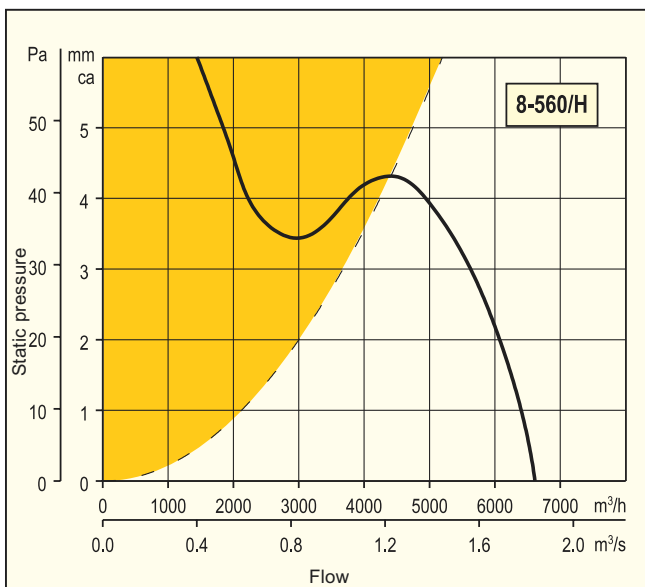
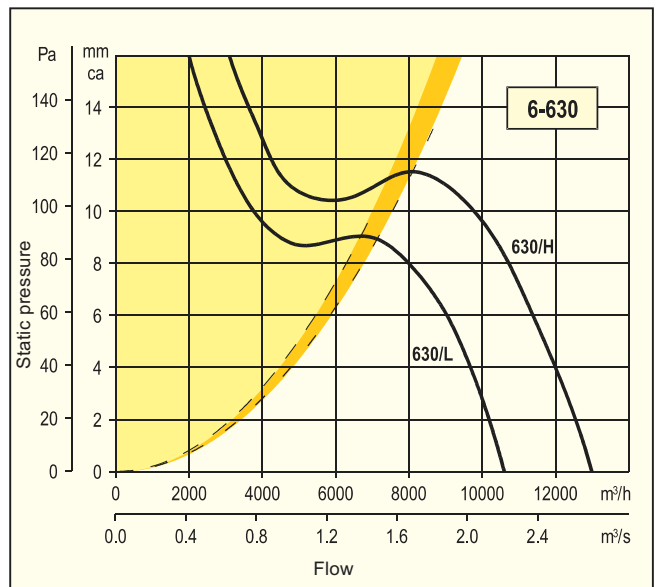
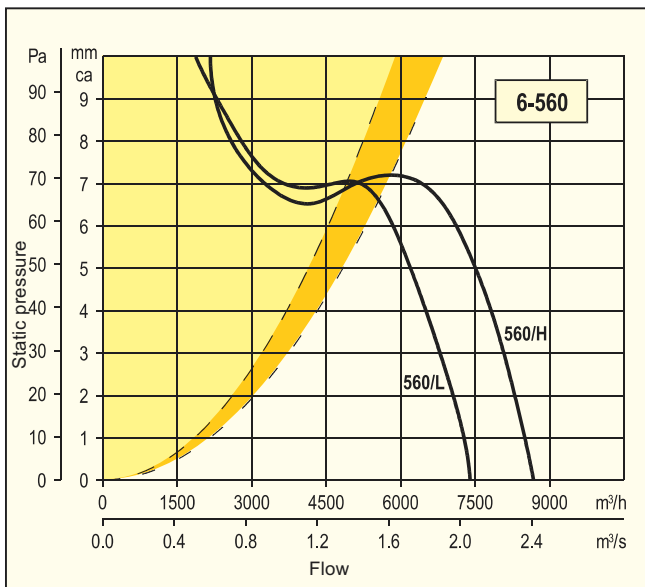
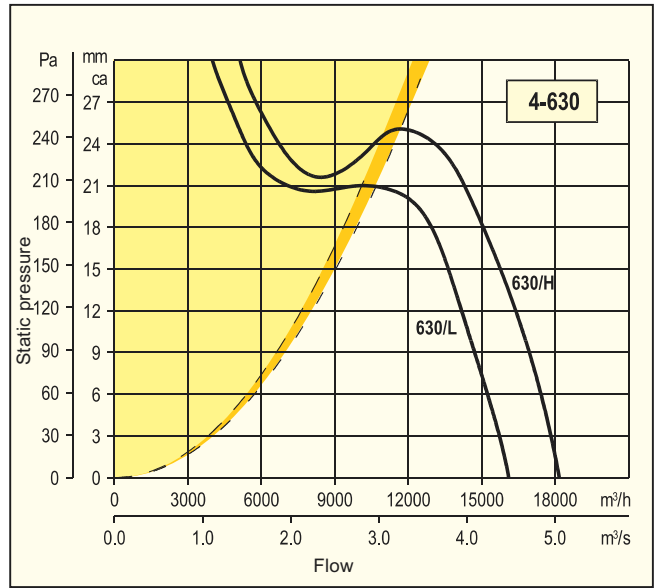
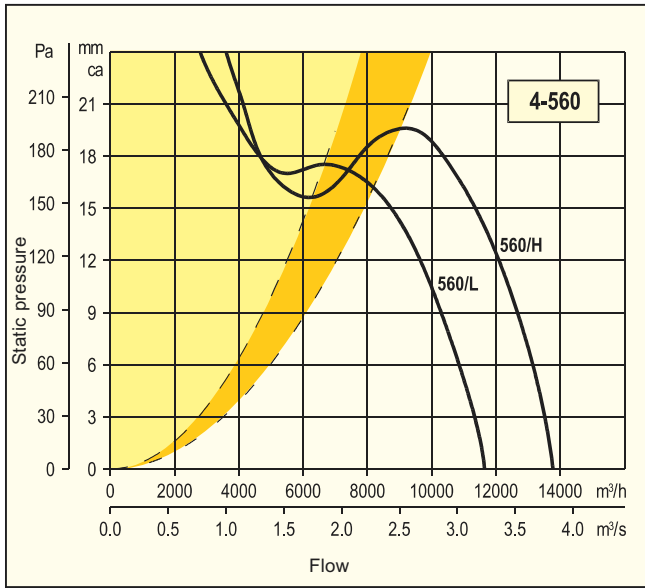
**Performance curves**



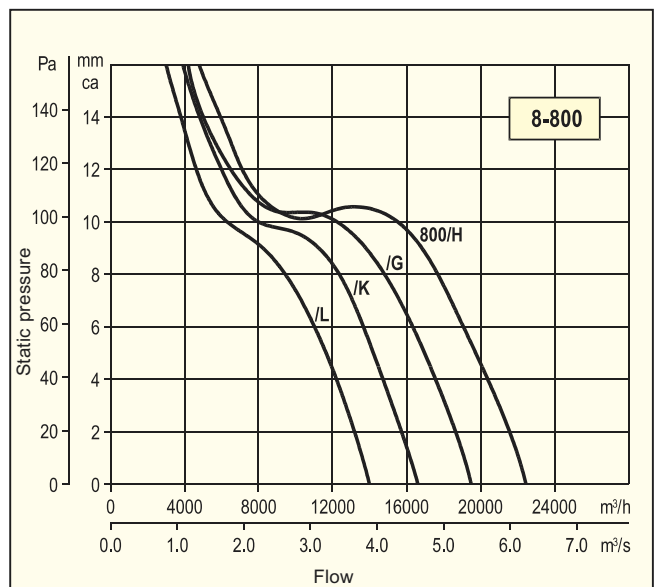
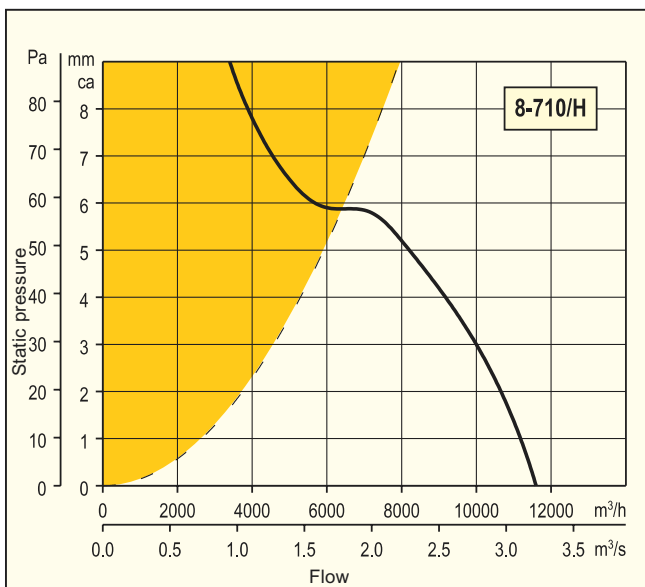
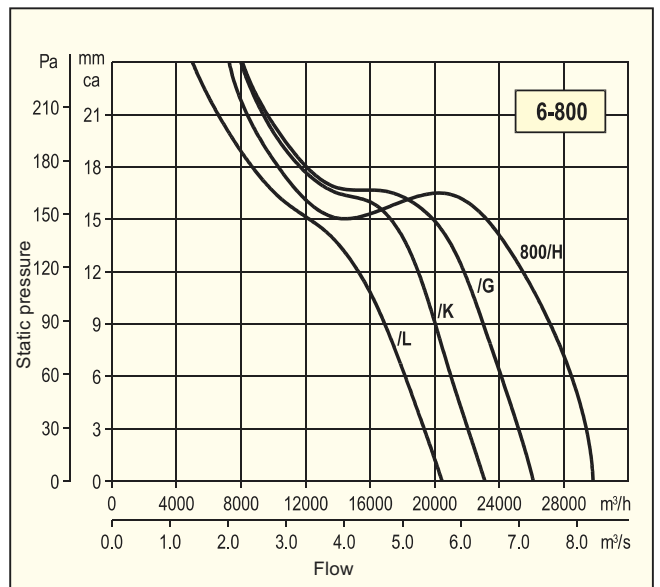
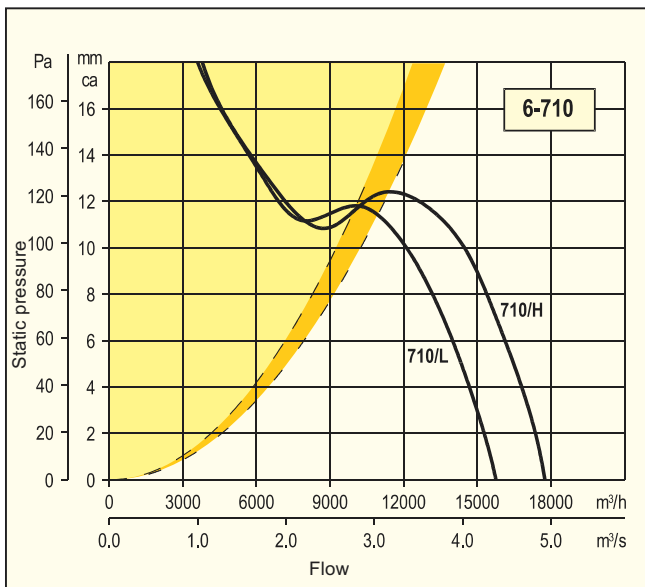
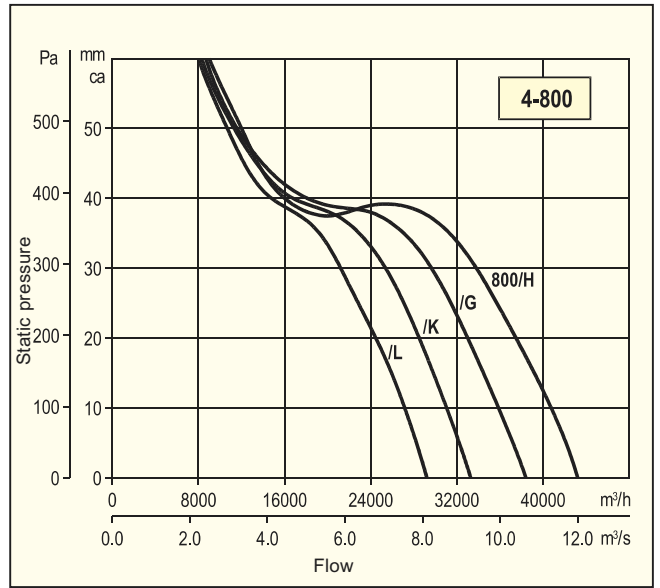
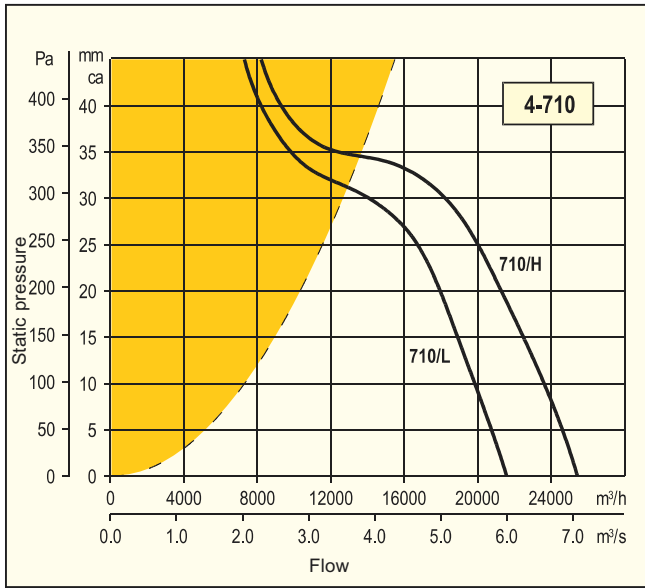
**Performance curves**



**Performance curves**



**Performance curves**







TCBBx2, TCBTx2

### Construction

Axial fan in cased version with casing of welded steel sheet and two contrarotating impellers made in die casted aluminium, dynamically balanced according to ISO1940.

### Motor

Two 380-415V, 50Hz three-phase alt. two 220-240V, 50Hz single-phase asynchronous motor, thermal protection with outgoing leads to the thermal box. Enclosure IP65, insulation class F. Size 450 and 500 are speed controlled by means of transformer or electric regulator. Special voltage or frequency, improved enclosure and three-phase motors for „Y” resp. „Δ” running can be supplied on request.

Wiring diagram, see page 235.

### Data

Type	Speed rpm	Maximum power absorbed kW	Maximum current A	Sound level* dB (A)	Maximum duty m³/h	Weight kg	Article number
TCBBx2/4-450	1370	1,24	5,40	74	6900	42	112 355 450
TCBBx2/4-500	1300	1,70	7,30	76	9400	50	112 355 500
TCBBx2/4-560	1340	3,25	15,50	78	14300	66	112 355 560
TCBBx2/4-630	1280	3,90	19,00	79	18200	80	112 355 630
TCBTx2/4-450	1400	1,25	3,40	74	6900	42	112 356 450
TCBTx2/4-500	1340	1,75	3,60	76	9400	50	112 356 500
TCBTx2/4-560	1360	3,12	5,80	78	14300	66	112 356 560
TCBTx2/4-630	1370	4,20	8,00	79	18200	80	112 356 630

\* - inlet

### Acoustic characteristic Sound pressure level dB(A)

Type	Working point m³/h	63	125	250	500	1000	2000	4000	8000	Total
450 inlet	6600	46	73	85	82	85	79	72	64	90
	5850	46	73	84	81	83	79	71	64	88
	4300	58	70	80	80	83	79	71	64	87
450 outlet	6600	63	75	86	85	87	82	74	67	92
	5850	53	73	85	84	87	81	74	67	91
	4300	58	70	82	83	86	82	74	67	90
500 inlet	9000	48	78	87	85	87	81	74	67	92
	7500	52	76	85	85	85	80	73	65	90
	6000	60	73	83	82	85	80	73	66	89
500 outlet	9000	65	76	87	88	90	84	77	70	94
	7500	62	75	86	87	88	83	76	69	92
	6000	59	72	86	85	88	83	76	69	92
560 inlet	13720	50	85	87	88	91	85	78	73	95
	10800	57	79	83	86	89	84	78	72	93
	9000	63	79	81	86	89	84	78	72	92
560 outlet	13720	74	86	85	91	94	88	81	75	97
	10800	70	82	84	88	92	87	81	74	95
	9000	74	81	85	89	92	87	81	74	95
630 inlet	17500	51	85	91	89	93	87	80	74	97
	15600	55	85	85	88	91	86	80	73	95
	12000	64	80	84	88	90	86	80	73	94
630 outlet	17500	73	87	88	93	95	89	83	77	99
	15600	71	87	86	91	94	89	83	76	98
	12000	67	84	86	90	94	89	84	76	97

### Accessories

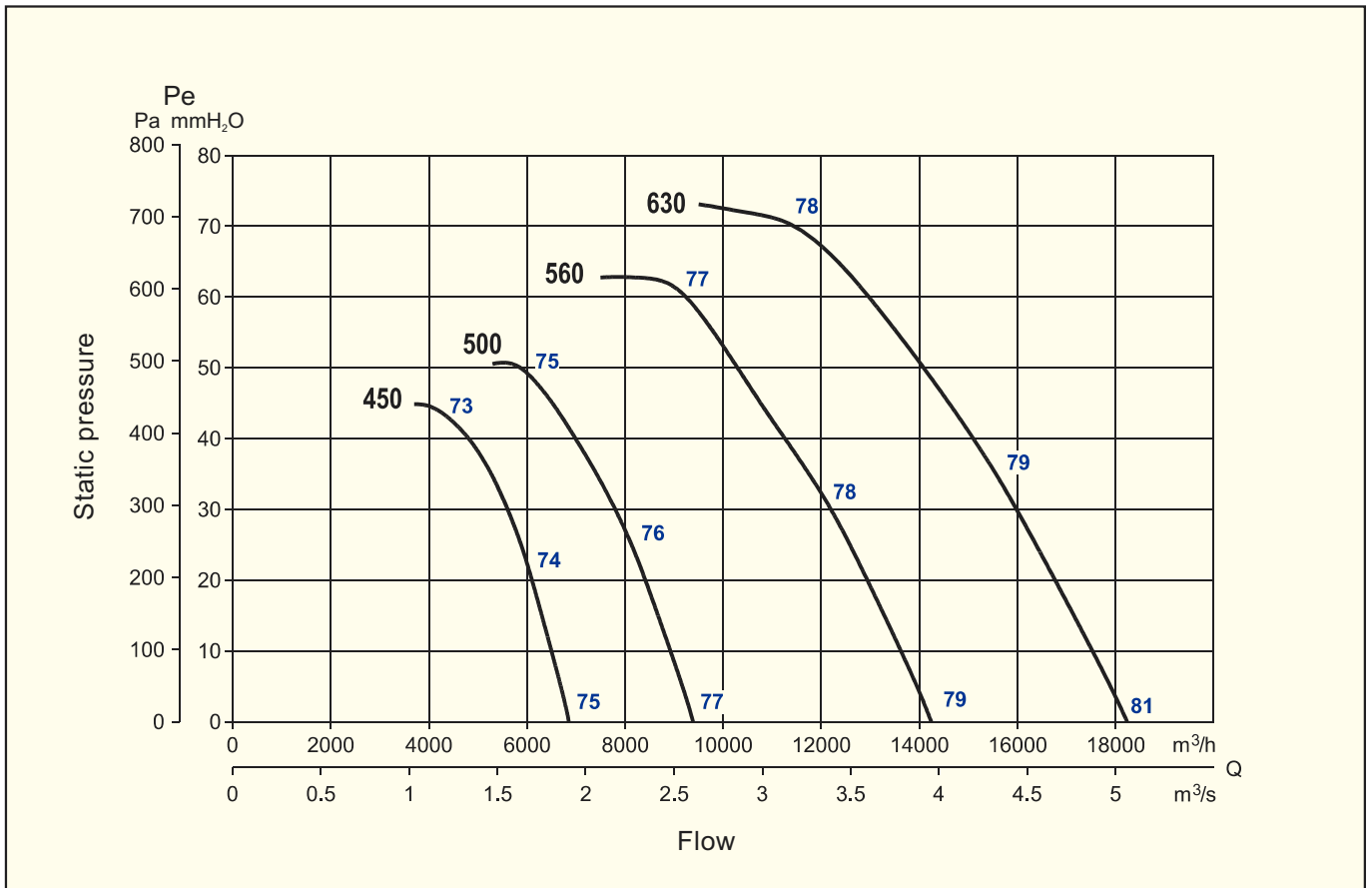


ACOP  
page 68

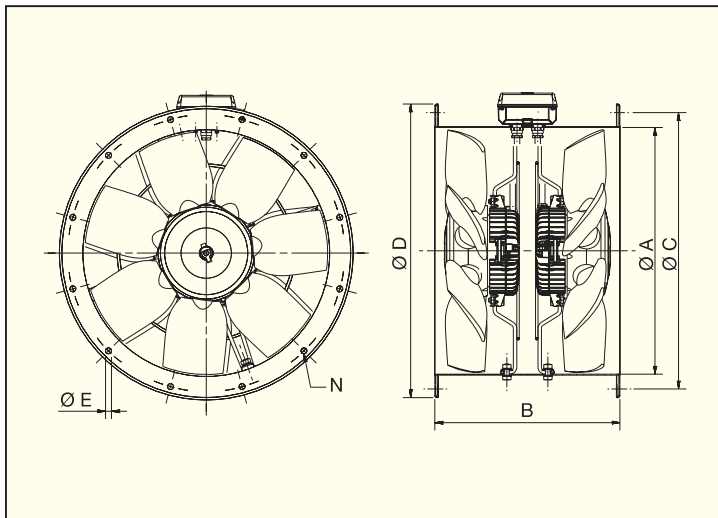


RMB, RMT  
page 230

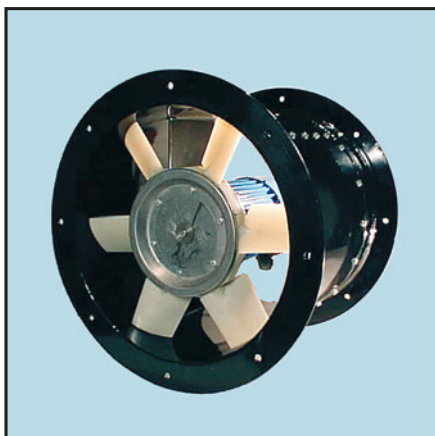
Performance curves



Dimensions in mm



Type	ØA	B	ØC	ØD	ØE	No. of holes N
450	537	375	500	450	12	8
500	595	375	550	500	12	12
560	655	520	620	560	12	12
630	725	520	660	630	12	12



**Construction**

Axial fan designed for installation in a ducted system. Casing of rolled and electro-welded steel sheet, powder coated RAL9005. Impeller in polypropylene. Casing in acid-proof steel or galvanized steel and impellers in fiberglass reinforced polyamide, in die-cast aluminium or steel sheet may be supplied on request.

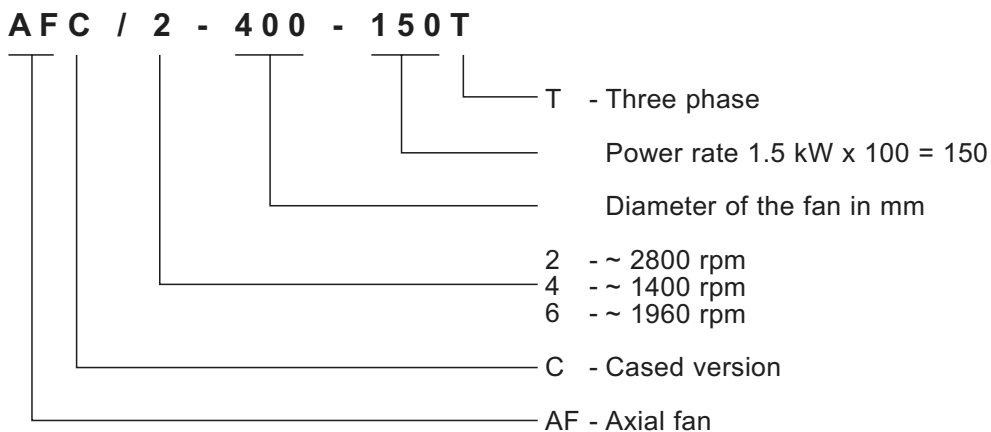
**Motor**

220-240/380-420V, 50 Hz (380-420/660-690V over 3kW) three-phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor, in accordance with IEC72 and IEC34-1. Insulation class F, enclosure IP55. Special voltage or frequency, improved enclosure IP65, explosion proof motor may be supplied on request. Wiring diagram, see page 235.

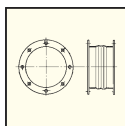
AFC MOBILE REV



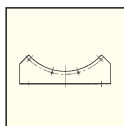
**Model numbering system**



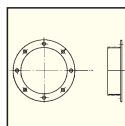
**Accessories**



Sleeve  
AFC  
page 69



AFC  
page 69



Sleeve coupling  
AFC  
page 69



Protection net  
AFC  
page 69



PER-CN  
page 68

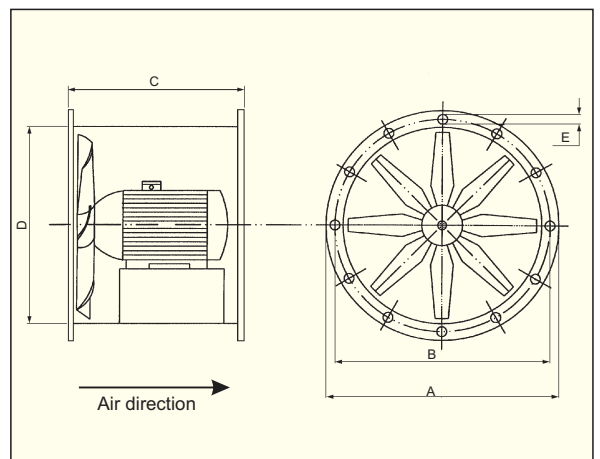
**Technical specification**

Type	Speed rpm	Voltage V	Motor power kW	Maximum current A	Sound level* dB (A)	Maximum duty m³/h	Weight kg	Article number
AFC/2-250-025S	2850	230V	0,25	1,8	72	2250	15	213 912 250
AFC/2-315-037S	2860	230V	0,37	2,5	74	3400	17	213 912 315
AFC/2-355-055S	2860	230V	0,55	3,4	77	4500	30	213 912 355
AFC/2-250-025T	2760	400V	0,25	0,65	72	2250	15	213 911 250
AFC/2-250-037T	2800	400V	0,37	1,0	72	2600	15	213 911 253
AFC/2-315-037T	2800	400V	0,37	1,0	74	3400	17	213 911 315
AFC/2-315-075T	2800	400V	0,75	1,9	77	5000	20	213 911 317
AFC/2-355-055T	2790	400V	0,55	1,35	77	4500	30	213 911 355
AFC/2-355-110T	2780	400V	1,1	2,5	78	5700	35	213 911 356
AFC/2-400-150	2800	400V	1,5	3,4	80	7800	37	213 911 400
AFC/2-450-220	2800	400V	2,2	4,7	81	9500	57	213 911 450
AFC/2-450-300	2800	400V	3,0	6,5	81	12000	57	213 911 453
AFC/2-500-300	2800	400V	3,0	6,5	81	15000	60	213 911 500
AFC/4-560-150	1440	400V	1,5	4,3	82	14000	65	213 911 560
AFC/4-630-220	1420	400V	2,2	4,8	82	18200	75	213 911 630
AFC/4-710-400	1440	400V	4,0	8,1	83	25500	80	213 911 710
AFC/4-800-400	1440	400V	4,0	8,1	83	30000	85	213 911 800
AFC/4-900-400	1440	400V	4,0	8,1	83	32500	90	213 911 900
AFC/4-900P-750	1440	400V	7,5	14,4	83	43500	108	213 911 905
AFC/4-1000-1100	1440	400V	11,0	21,2	83	55000	160	213 911 910
AFC/6-1250-1100	960	400V	11,0	22,2	84	75000	230	213 911 912
AFC/6-1500-1100	960	400V	11,0	22,2	85	80000	350	213 911 915
AFC/8-2000-1100	700	400V	11,0	25,1	88	120000	500	213 911 920

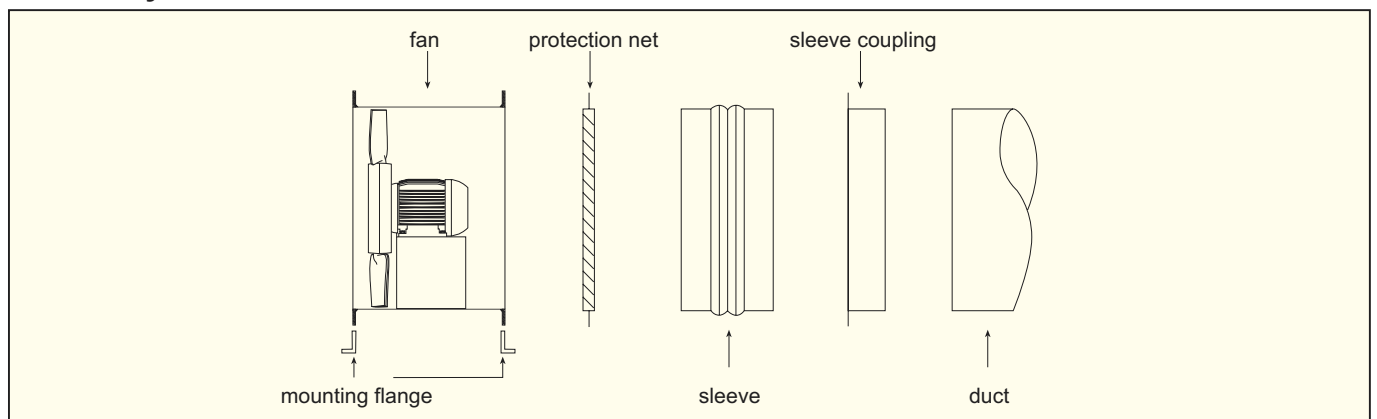
\* - distance 1 m

**Dimensions in mm**

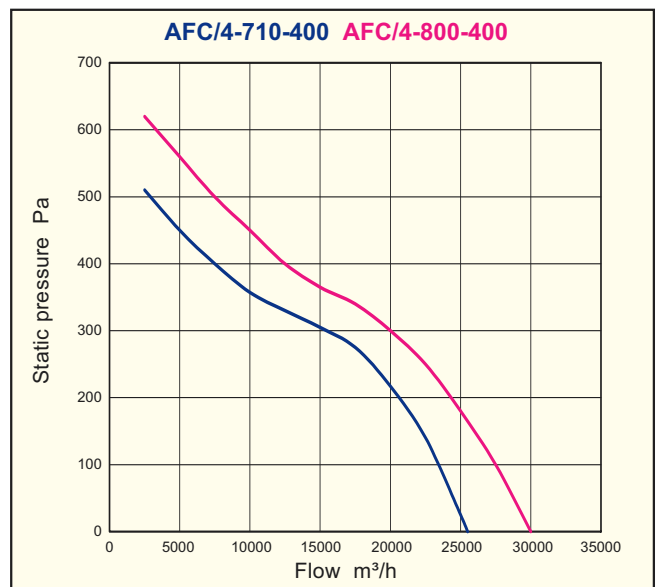
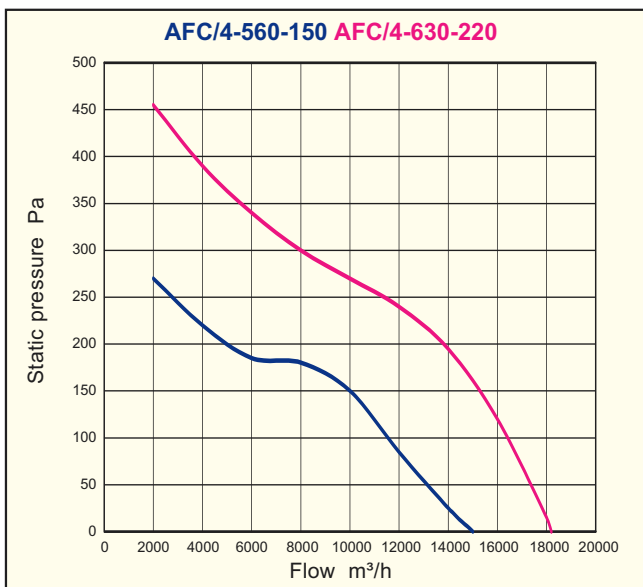
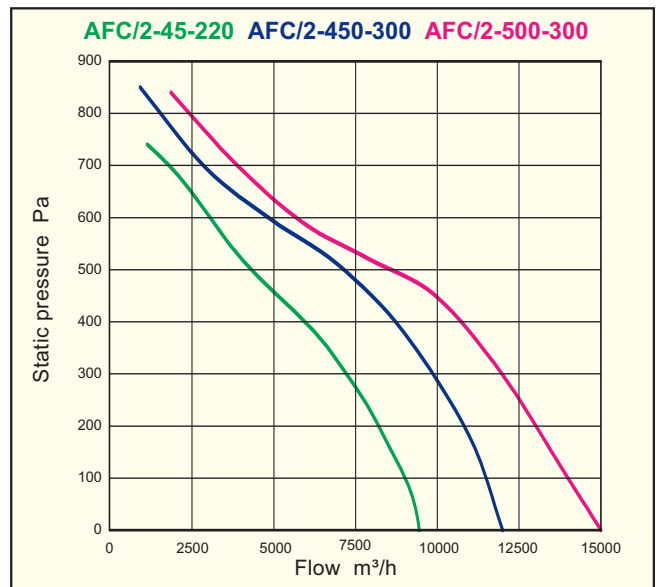
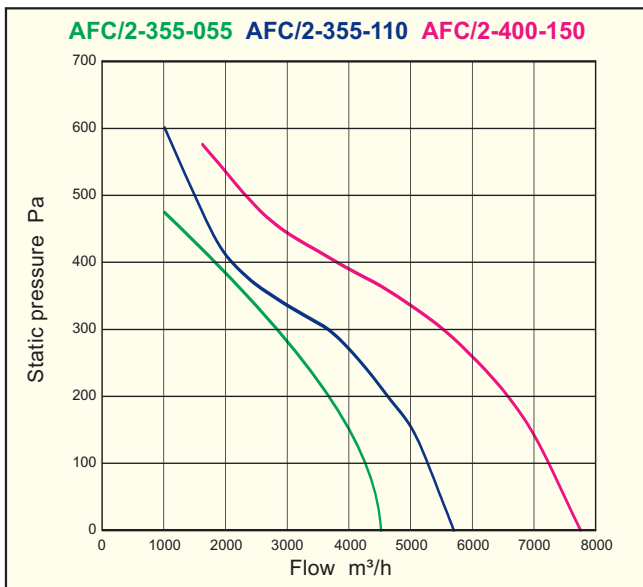
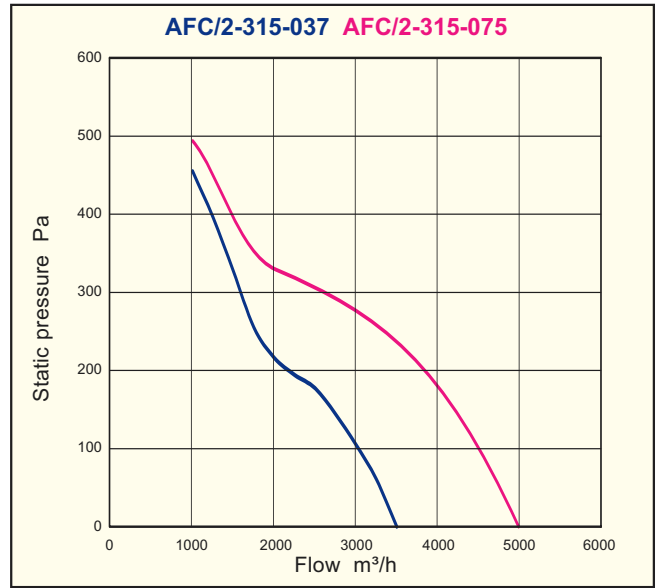
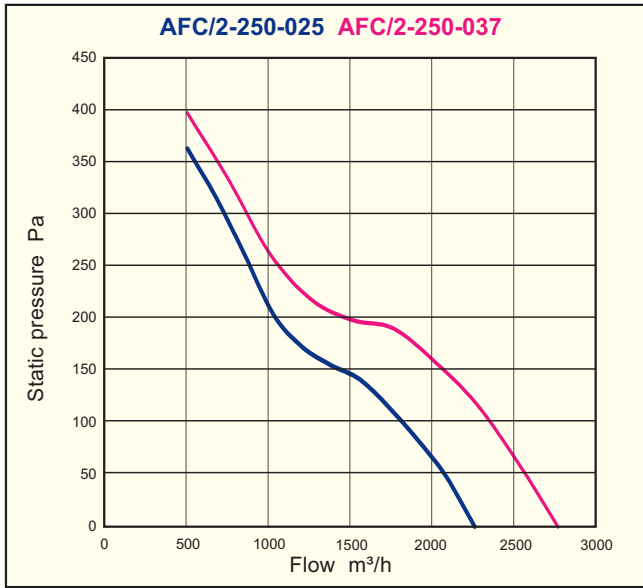
Type	A	B	C	D	E	Number of holes
AFC/2-250-037	310	280	300	250	8	8
AFC/2-315-110	375	345	330	315	8	8
AFC/2-355-110	426	395	380	355	10	8
AFC/2-400-150	500	450	380	400	10	8
AFC/2-450-□	550	500	430	450	10	8
AFC/2-500-300	600	550	450	500	12	12
AFC/4-560-150	660	610	450	560	12	12
AFC/4-630-220	736	690	500	630	12	12
AFC/4-710-400	810	760	470	710	12	12
AFC/4-800-400	900	850	480	800	12	12
AFC/4-900-400	1000	950	490	900	12	12
AFC/4-900P-750	1000	950	570	900	12	12
AFC/4-1000-1100	1100	1050	730	1000	12	12
AFC/6-1250-1100	1350	1310	750	1250	12	16
AFC/6-1500-1100	1700	1600	750	1500	16	24
AFC/8-2000-1100	2200	2100	1010	2000	16	24

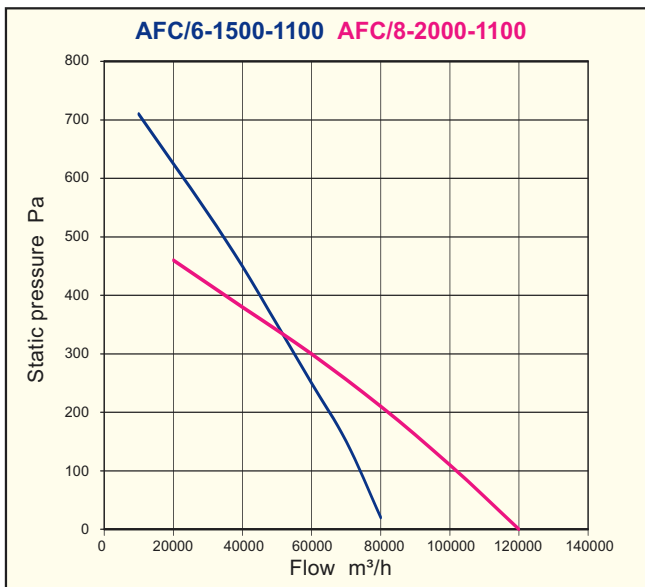
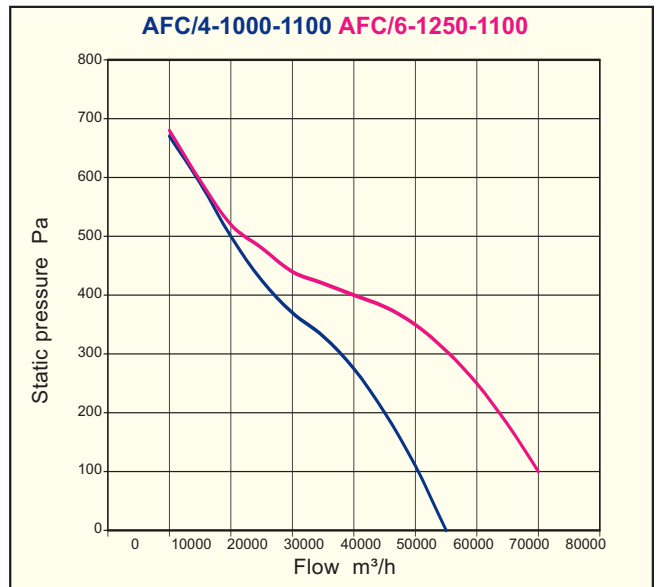
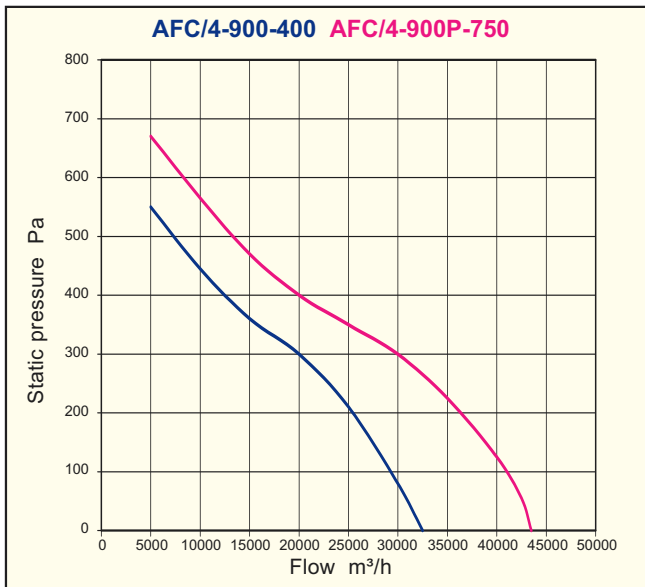


**Assembly instructions**



Performance curves







**Construction**

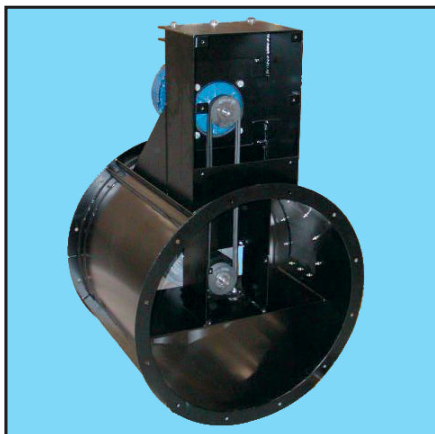
Belt driven axial-flow fan for installation in a ducted system. Casing of powder coated steel sheet, RAL9005. Impellers in fiberglass reinforced polyamide. Casing in acid-proof steel or galvanized steel and impellers in die-cast aluminium or steel sheet may be supplied on request. Maximum allowed temperature for transported air is -20°C to 100°C.

For performance curves see AFC.

**Motor**

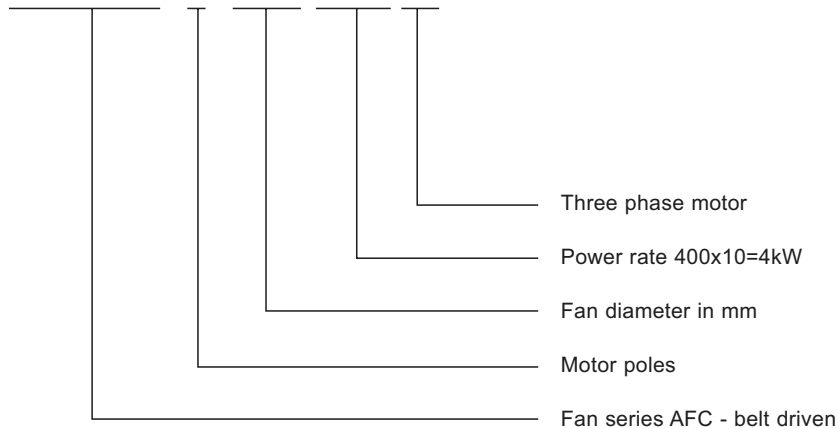
220-240/380-420V, 50Hz (380-420/660-690V over 3kW) three phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor, in accordance with IEC 72 and IEC 34-1. Insulation class F, enclosure IP55. Special voltage or frequency, improved enclosure IP65, explosion proof motor may be supplied on request.

Wiring diagram see page 235.

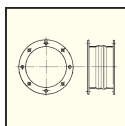


**Model numbering system**

**AFC-VB/4-710-400 T**

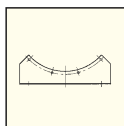


**Accessories**



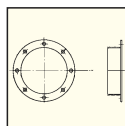
Sleeve AFC

page 69



Stand AFC

page 69



Coupling

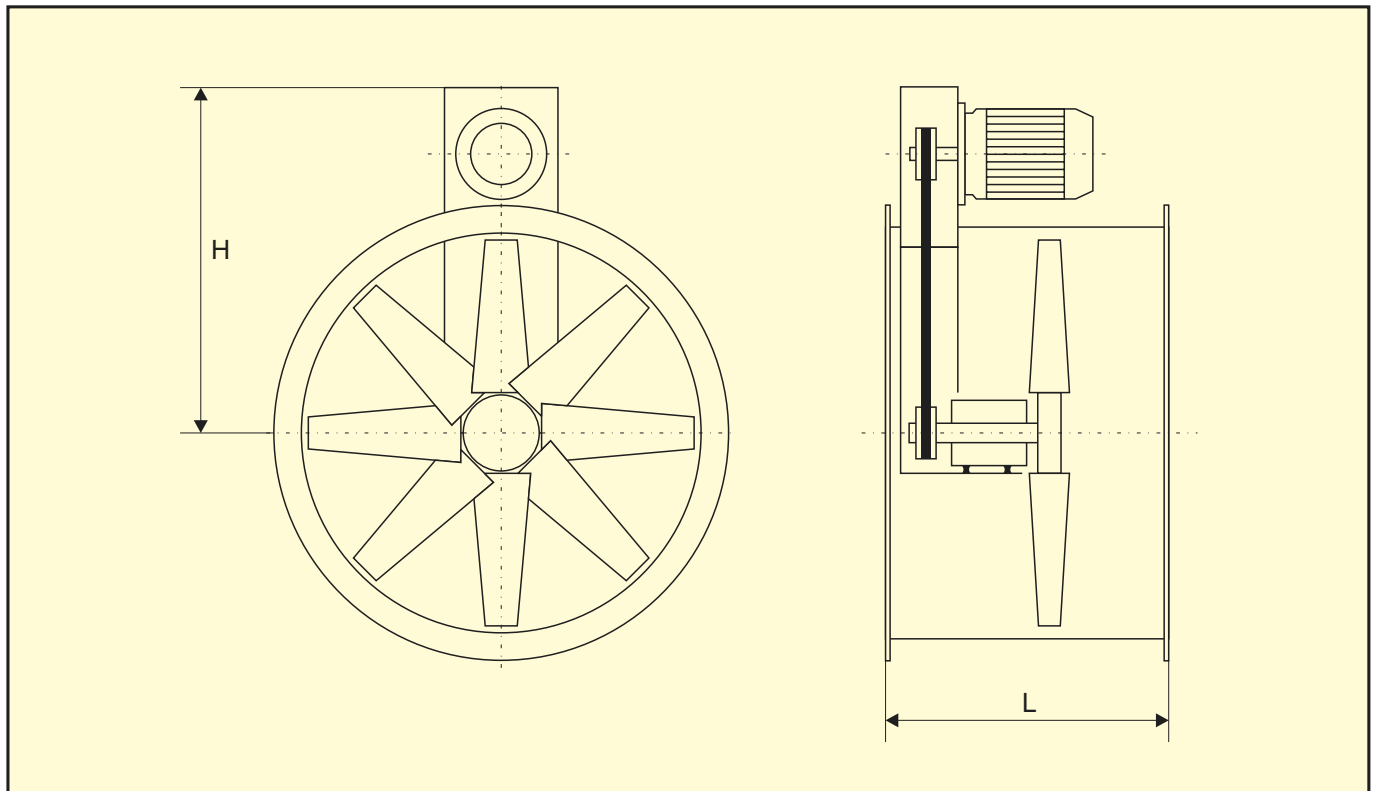
page 69



Protection net

page 69

**Data and dimensions in mm**

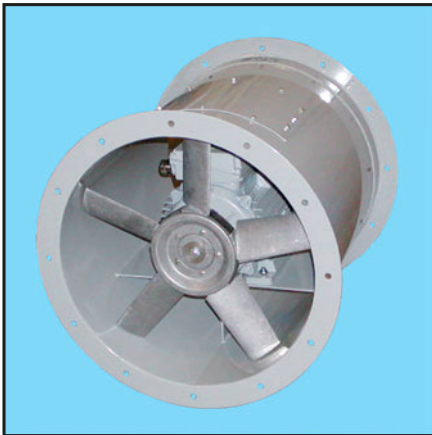


For characteristics see AFC.

**Data**

Type	Voltage V	Motor power kW	Maximum current A	L	H	Article number
AFC-VB/2-400-150	400	1,5	3,4	480	480	213917100
AFC-VB/2-450-300	400	3	6,5	500	540	213917110
AFC-VB/2-500-300	400	3	6,5	500	570	213917120
AFC-VB/4-560-150	400	1,5	4,3	500	600	213917130
AFC-VB/4-630-220	400	2,2	4,8	660	670	213917140
AFC-VB/4-710-400	400	4	8,1	810	660	213917150
AFC-VB/4-800-400	400	4	8,1	850	750	213917160
AFC-VB/4-900-400	400	4	8,1	1000	900	213917170
AFC-VB/4-900-750	400	7,5	14,4	1000	900	213917180
AFC-VB/4-1000-1100	400	11	21,2	1205	1004	213917190





**Construction**

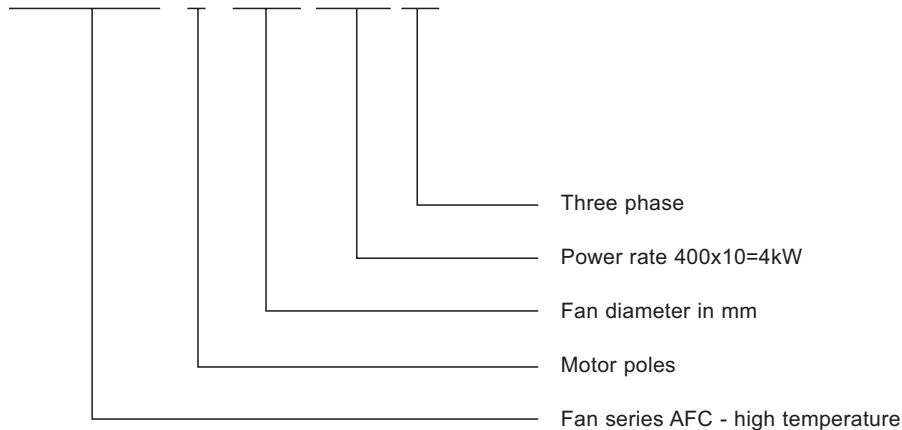
Axial fan designed for installation in a ducted system. Casing of steel sheet, powder coated RAL7042. Made for temperatures up to 90°C continuous running (100°C 10 min/h). Impeller in die-cast aluminium. Casing in acid-proof steel or galvanized steel may be supplied on request. For performance curves see AFC.

**Motor**

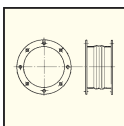
220-240/380-420V, 50Hz (380-420/660-690V over 3kW) three-phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor. Insulation class F, enclosure IP55. Special voltage or frequency, improved enclosure IP65, may be supplied on request. Wiring diagram see page 235.

**Model numbering system**

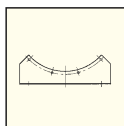
**AFC-HT/4-710-400 T**



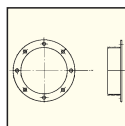
**Accessories**



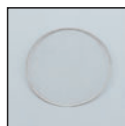
Sleeve AFC  
page 69



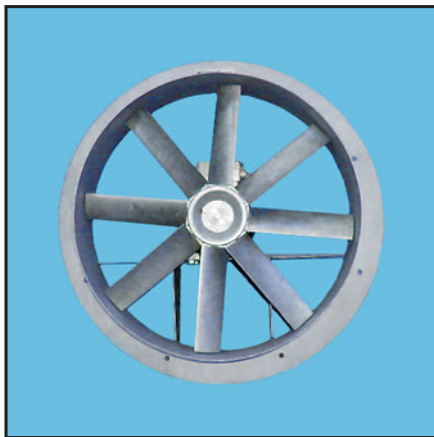
Stand AFC  
page 69



Coupling  
page 69



Protection net  
page 69



**Construction**

Axial-flow fan in cased version with casing welded of acid-proof steel and reversible impeller in die casted aluminium, dynamically balanced according to ISO1940. The fan is suitable for usage in environments with very high humidity.

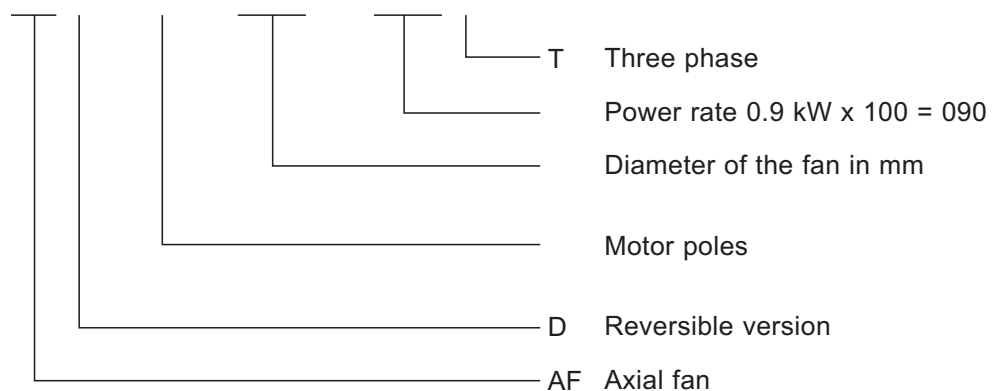
**Motor**

220-240/380-420V, 50 Hz (380-420/660-720V over 3kW) three-phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor, in accordance with IEC72 and IEC34-1. Insulation class H, enclosure IP55. Special voltage or frequency, improved enclosure IP65, explosion proof motor may be supplied on request. Wiring diagram, see page 235.



**Model numbering system**

**A F D / 2 - 6 0 0 - 0 9 0 T**

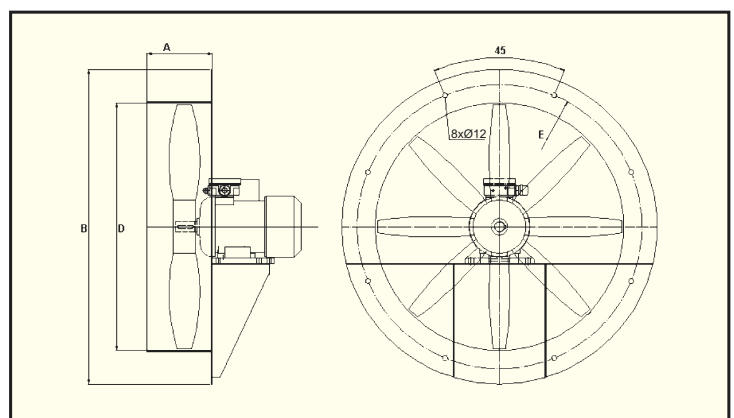


**Data**

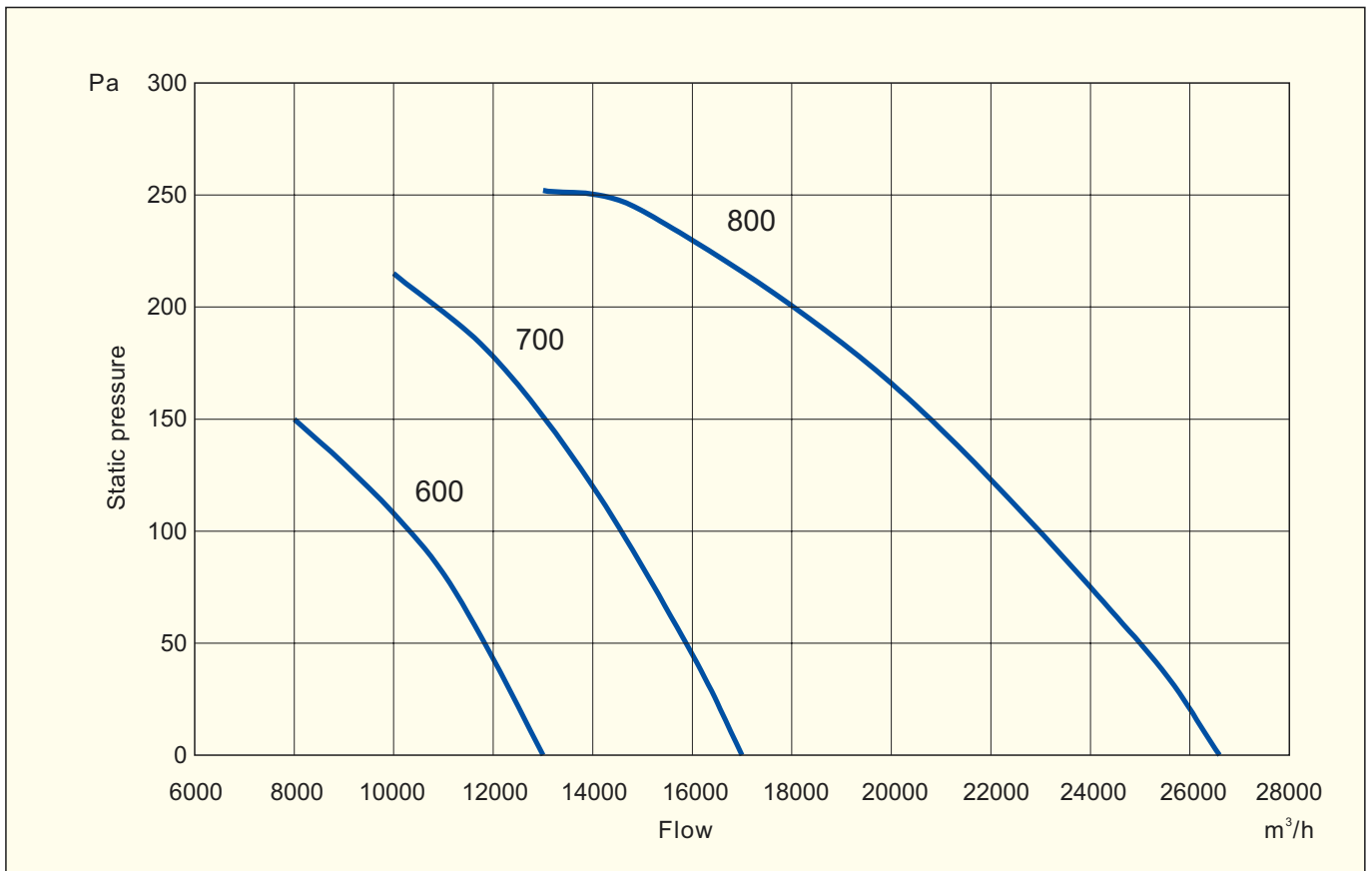
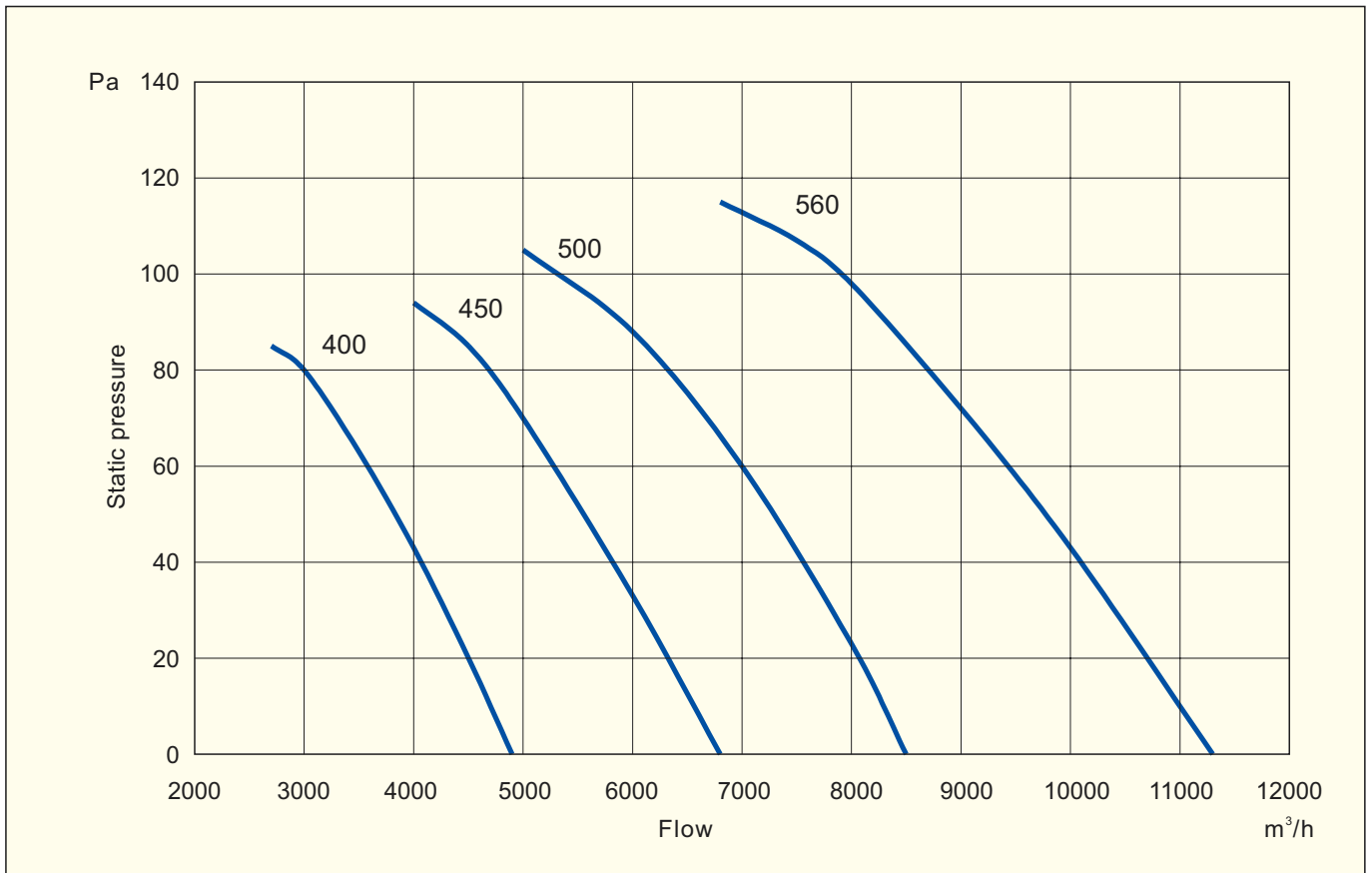
Type	Speed rpm	Motor power kW	Voltage V	Maximum current A	Maximum duty m³/h	Article number
AFD/4-400-025T	1400	0,25	400	0,71	4 900,00	213 913 400
AFD/4-450-037T	1400	0,37	400	0,98	6 800,00	213 913 450
AFD/4-500-055T	1400	0,55	400	1,5	8 500,00	213 913 500
AFD/4-560-090T	1400	0,90	400	2,4	11 300,00	213 913 560
AFD/4-600-090T	1450	0,90	400	2,4	13 000,00	213 913 600
AFD/4-700-220T	1420	2,2	400	4,8	17 000,00	213 913 700
AFD/4-800-300T	1420	3,0	400	6,5	26 600,00	213 913 800

**Dimensions in mm**

Type	A	B	D	E
400	100	500	410	450
450	100	550	460	500
500	100	600	510	550
560	100	660	570	610
600	160	775	610	700
700	160	875	710	800
800	160	975	810	900



Performance curves





**Construction**

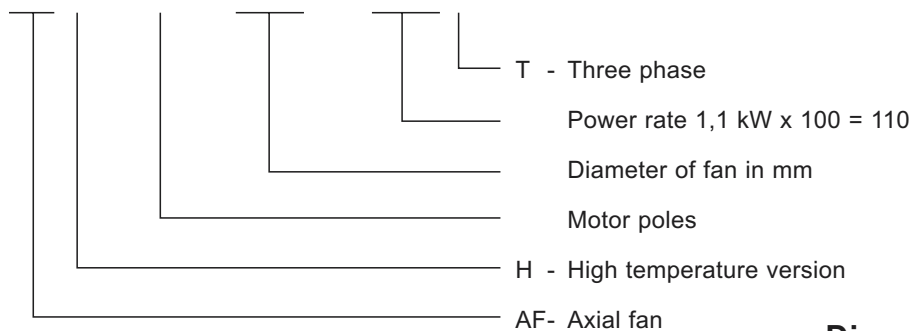
Bifurcated axial fan in tubular version, with motor placed in a chamber, isolated from the air stream. Design allows continuous transportation of gases with max. temp. 150°C. Casing of rolled and electro-welded steel sheet, powder coated. Impeller in die-casted aluminium. Casings in acid-proof steel or galvanized steel and impellers in steel sheet may be supplied on request.

**Motor**

220-240/380-420V, 50Hz (380-420/660-720V over 3kW) three-phase or 220-240V, 50Hz single-phase asynchronous motor with squirrel cage rotor, in accordance with IEC72 and IEC-34-1. Insulation class F, enclosure IP55. Special voltage or frequency, improved enclosure IP65, explosion proof motor may be supplied on request. Wiring diagram, see page 235.

**Model numbering system**

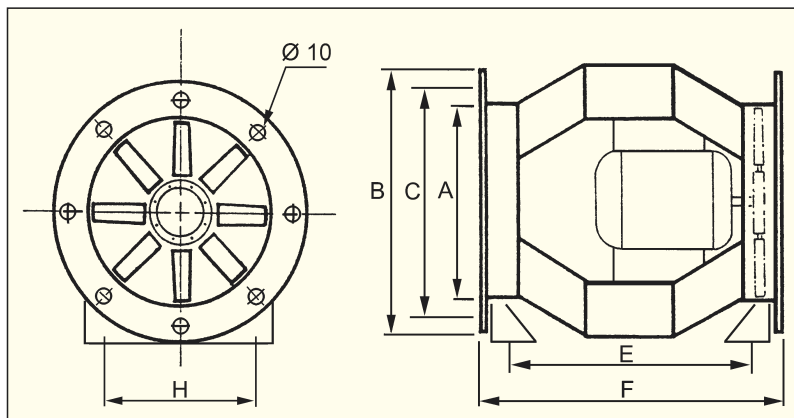
**AFH / 2 - 400 - 110 T**



**Maximum allowed temperature**

+150°C - continuous running

+200°C - temporary running



**Dimensions in mm**

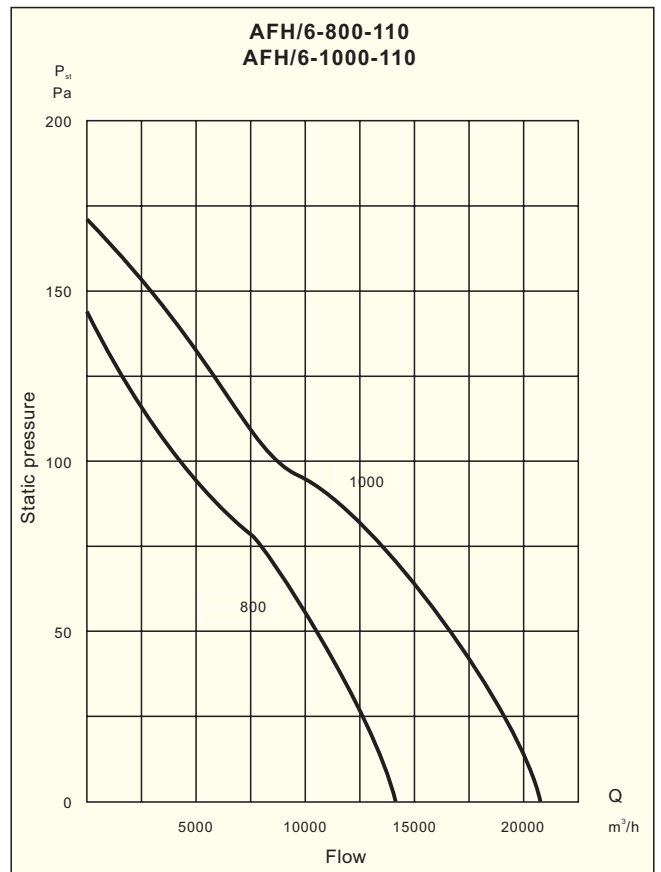
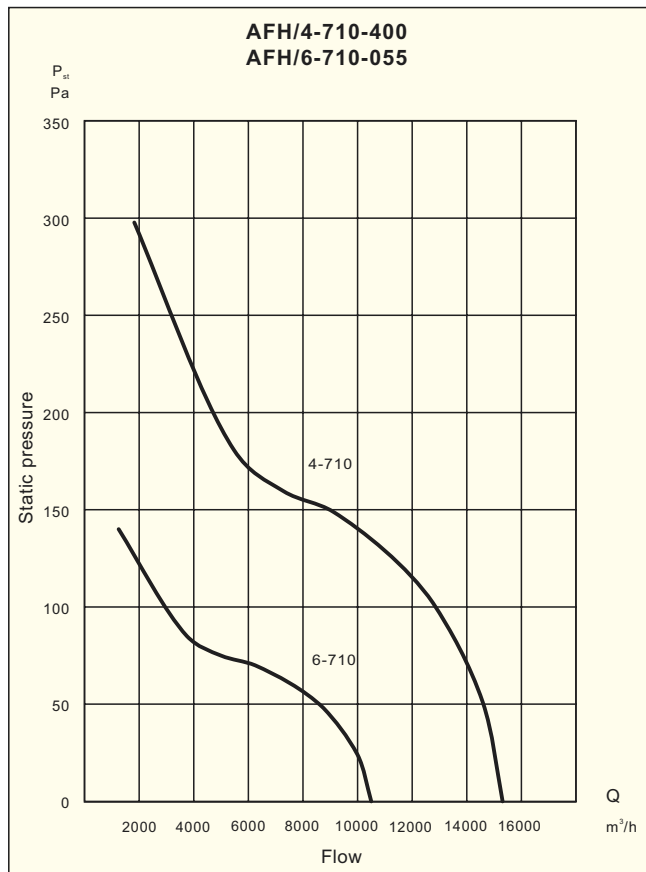
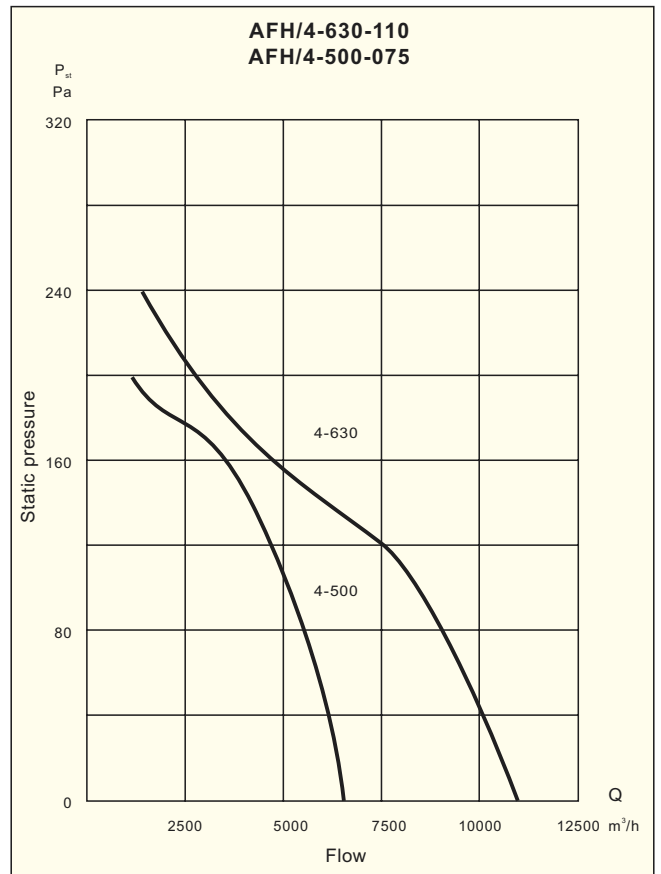
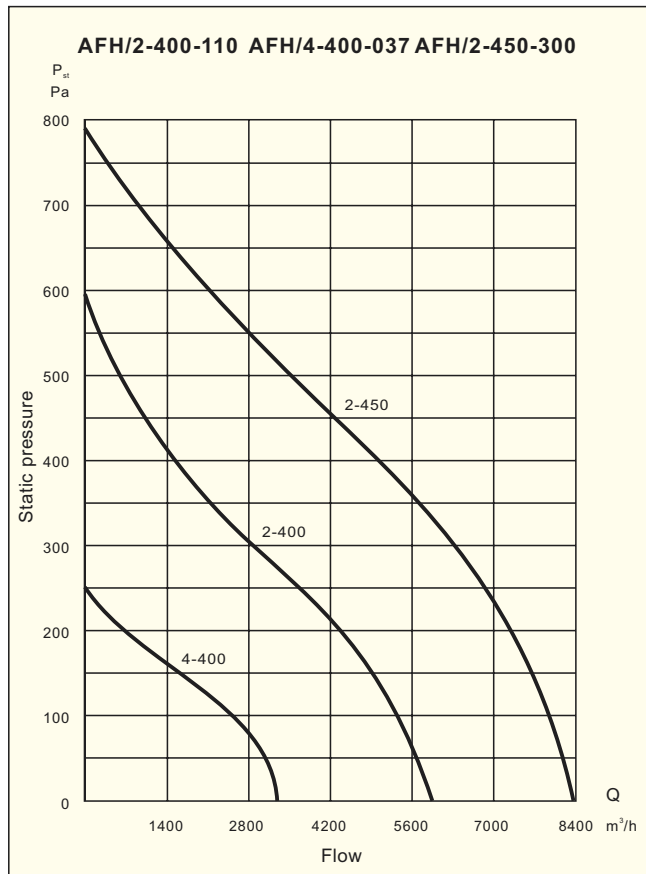
Type	A	B	C	E	F	H	No. of holes
AFH-400	400	504	460	422	580	200	8
AFH-450	450	554	500	572	640	340	8
AFH-500	500	606	556	662	730	280	8
AFH-630	630	736	686	662	730	340	12
AFH-710	710	830	766	702	770	310	12
AFH-800	800	906	856	702	830	370	12
AFH-1000	1000	1106	1056	1150	1270	550	12

**Technical specification**

Type	Speed rpm	Motor power kW	Maximum current (400 V) A	Maximum duty m³/h	Sound level * dB (A)	Article number
AFH/2-400-110 S	2800	1,10	2,50	6150	83	113 912 090
AFH/2-400-110 T	2800	1,10	2,50	6150	83	113 912 100
AFH/4-400-037 T	1400	0,37	1,07	3300	74	113 912 110
AFH/2-450-300 T	2800	3,00	6,50	8400	85	113 912 300
AFH/4-500-075 T	1400	0,75	1,81	6300	76	113 912 400
AFH/4-630-110 T	1400	1,10	2,70	10800	78	113 912 500
AFH/4-710-400 T	1400	4,00	8,30	15300	80	113 912 610
AFH/6-710-055 T	920	0,55	1,65	10500	75	113 912 600
AFH/6-800-110 T	920	1,10	2,90	14400	76	113 912 700
AFH/6-1000-110 T	920	1,10	2,90	20080	81	113 912 800

\* - distance 3 m

**Performance curves**





**Construction**

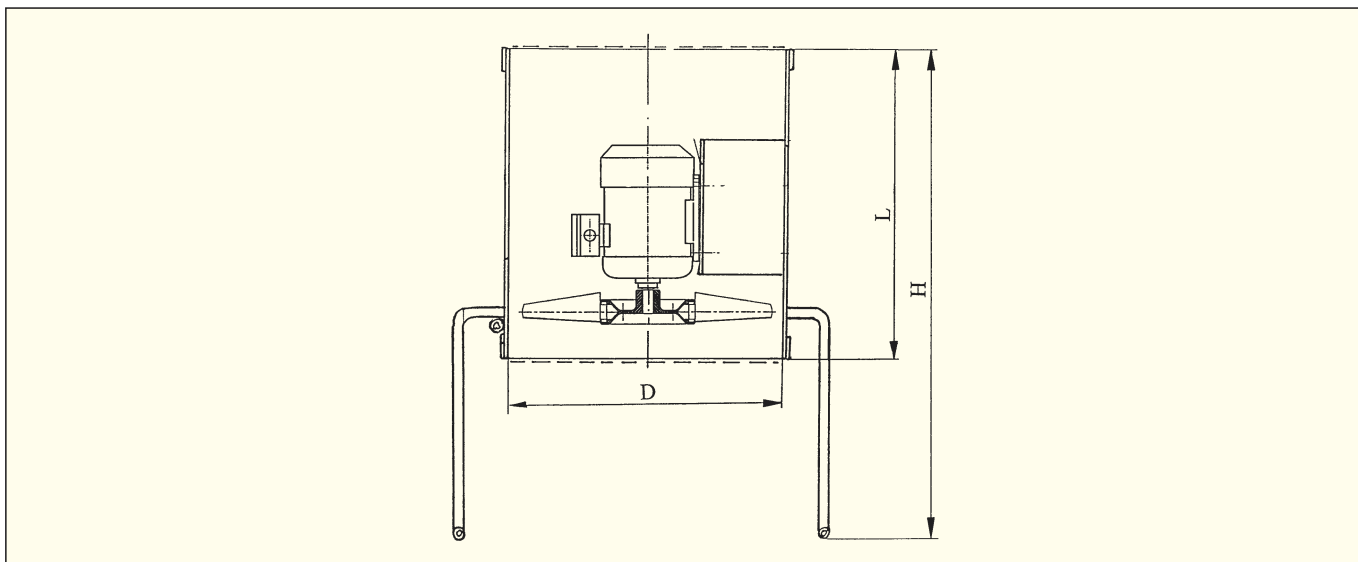
Axial-flow fan with vertical stand, casing in welded steel sheet, fan blades in fiberglass reinforced polypropylene with a hub in aluminium, dynamically balanced according to ISO1940, wire guards on the inlet and outlet. The fan is provided with a protection nets and a pre-assembled switch with a speed regulator. The fan can be used as a local cooler, dryer, exhauster or temperature balancer.

**Motor**

220-240V, 50Hz single-phase asynchronous motor. Enclosure IP55, class F insulation. Special voltage or frequency, and enclosure may be supplied on request.

Wiring diagram, see page 235.

**Dimensions in mm**

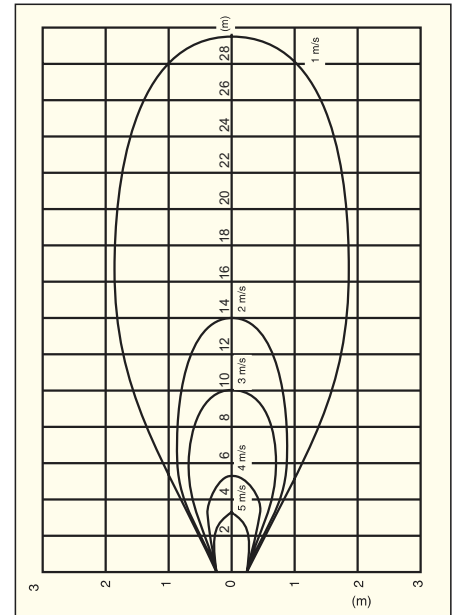
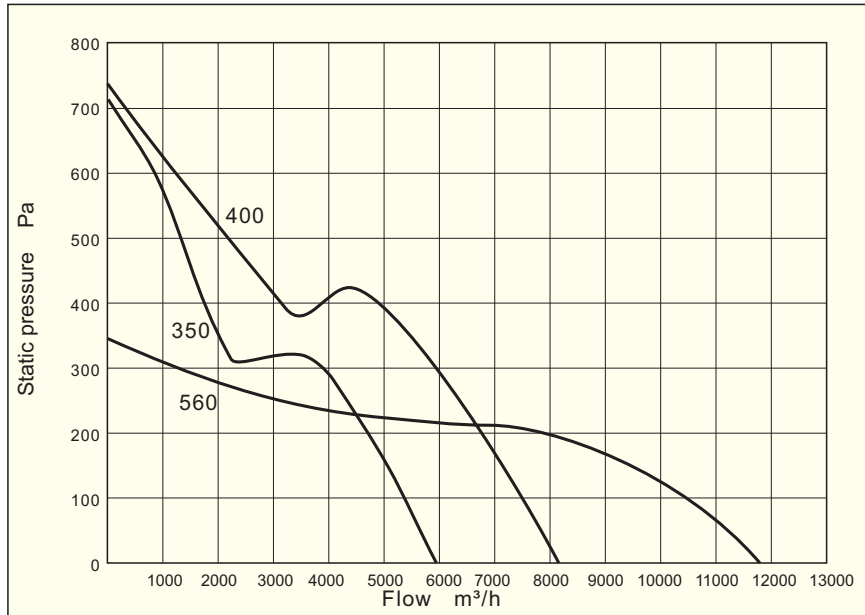


Type	D	L	H
AFS/2-350-055S	360	400	665
AFS/2-400-110S	410	410	680
AFS/4-560-110S	580	460	790

**Data**

Type	Speed rpm	Motor power kW	Maximum current A	Voltage V	Maximum flow m <sup>3</sup> /h	Sound pressure level dB (A)	Weight kg	Article number
AFS/2-350-055S	2860	0,55	3,4	230	5750	78	24	213 914 535
AFS/2-400-110S	2800	1,10	7,9	230	8000	80	26	213 914 540
AFS/4-560-110S	2860	1,10	7,0	230	12000	77	37	213 914 560

Performance curves





**Construction**

Axial-flow fan for duct mounting with a casing in welded steel sheet, fan blades in fiberglass reinforced polypropylene with a hub in aluminium, dynamically balanced according to ISO1940, wire guards on the inlet and outlet. The fan is provided with a stand and a pre-assembled switch with a speed regulator. The fan can be used as a local cooler, dryer, exhauster or temperature balancer.

**Motor**

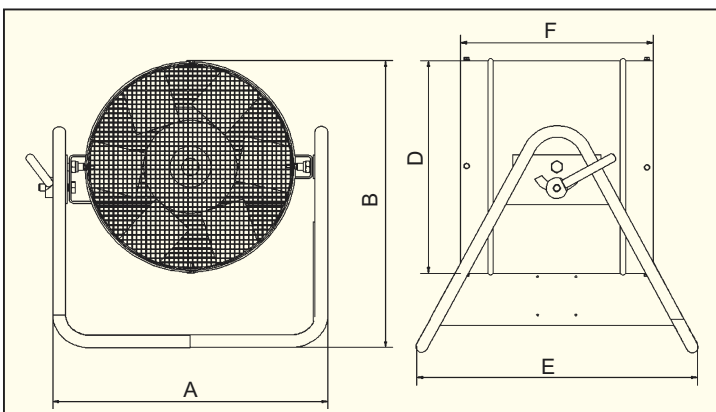
220–240V, 50Hz single-phase asynchronous motor according to UNE-113 and IEC34-1, with a thermal motor protection type Klixon. Enclosure IP55, class F insulation. Special voltage or frequency, and enclosure may be supplied on request. Wiring diagram, see page 235.

**Data**

Type	Speed rpm	Voltage V	Motor power kW	Maximum current A	Maximum duty m³/s	Sound level* dB (A)	Article number
AFK-315	1420	230	0,12	1,0	0,7	61	213 914 315
AFK-355	1420	230	0,18	1,4	1	62	213 914 355
AFK-400	1420	230	0,37	2,8	1,5	65	213 914 400
AFK-450	1420	230	0,55	3,8	2	69	213 914 450
AFK-500	1420	230	0,55	3,8	2,5	71	213 914 500
AFK-560	1420	230	0,55	3,8	3	72	213 914 560

\* - distance 1 m

**Dimensions in mm**



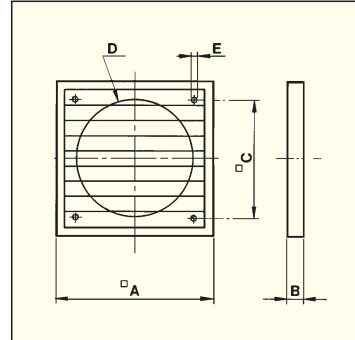
Type	A	B	D	E	F
AFK-315	430	450	315	400	300
AFK-355	470	500	355	450	320
AFK-400	520	560	400	500	350
AFK-450	570	600	450	650	400
AFK-500	620	700	500	650	400
AFK-560	680	800	560	700	500



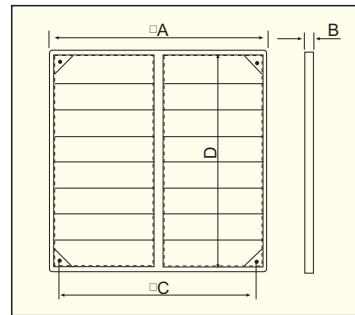


**PER-W**

**Louvre shutters in plastic**



Type	A	B	C	ØD	ØE
PER-100 W	123	12	90	98	4
PER-125 W	158	15	110	130	4
PER-160 W	178	20	130	152	4
PER-200 W/N	245	20	190	210	5
PER-250 W/N	299	25	235	260	5
PER-300 W/N	347	26	274	310	5
PER-350 W/N	397	26	310	360	5
PER-400 W/N	460	26	364	423	5
PER-450 W/N	501	31	395	460	5
PER-500 W/N	549	31	445	510	5

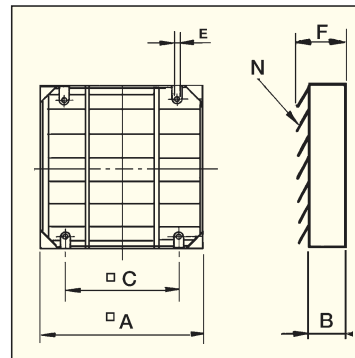


Type	A	D	C	B
PER-560 W/N	610	567	530	30
PER-650 W/N	701	660	626	31
PER-710 W/N	749	710	663	31
PER-800 W	840	800	772	40
PER-1000 W	1040	1000	972	40

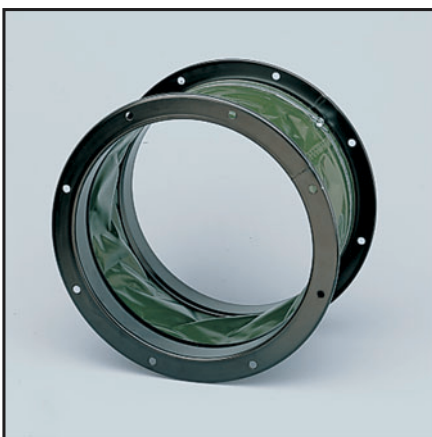


**PER-CN**

**Louvre shutters in aluminium sheet**

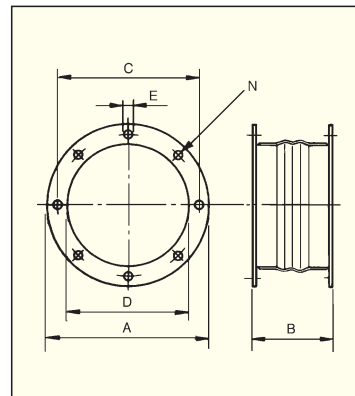


Type	A	B	C
PER-250 CN	333	40	287
PER-355 CN	398	40	352
PER-400 CN	451	40	405
PER-450 CN	504	40	458
PER-500 CN	557	40	511
PER-630 CN	700	50	590
PER-710 CN	800	50	690
PER-800 CN	900	50	790
PER-1000 CN	1100	50	990

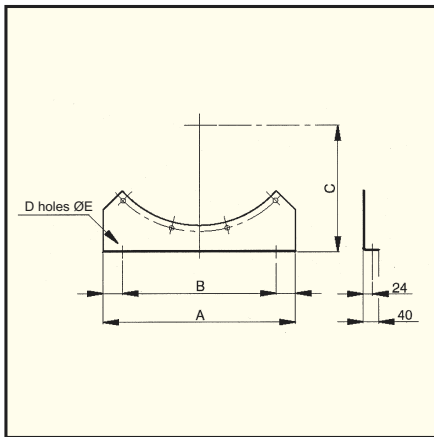


**ACOP**

**Flexible flange connector**

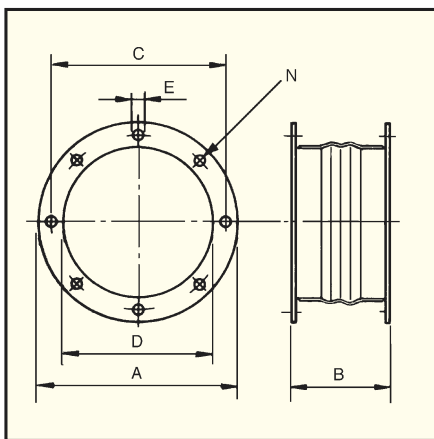


Type	ØA	B Max.	B Min.	ØC	ØD	ØE	N - No of holes
ACOP-250	323	200	110	292	250	10	4
ACOP-315	386	220	110	355	315	10	8
ACOP-355	426	220	110	395	355	10	8
ACOP-400	487	236	126	450	400	12	8
ACOP-450	537	236	126	500	450	12	8
ACOP-500	595	248	138	560	500	12	12
ACOP-560	655	298	138	620	560	12	12
ACOP-630	725	298	138	690	630	12	12
ACOP-710	806	298	138	770	710	12	16
ACOP-800	896	300	138	860	800	12	16



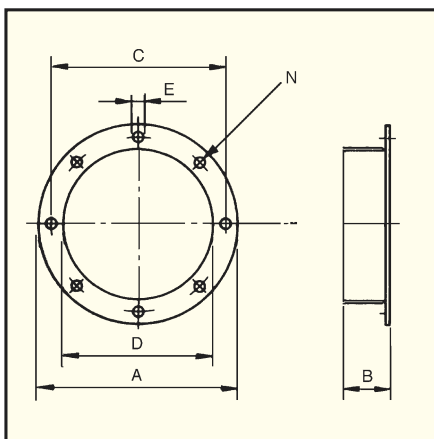
**Mounting base AFC**

Type	A	B	C	D	E
250	250	150	205	2	10
315	315	215	237	2	10
355	355	255	257	2	10
400	400	300	280	2	10
450	450	350	305	2	10
500	500	400	334	2	10
560	560	460	364	2	10
630	630	480	400	2	10
710	710	550	445	2	10
800	800	660	485	3	14
900	900	760	550	3	14
1000	1000	860	600	3	14
1250	1250	950	750	3	14



**Sleeve AFC**

Type	A	Bmax	Bmin	C	D	E	N - No of holes
250	305	200	110	280	250	8	8
315	370	200	110	345	315	8	8
355	420	200	110	395	355	10	8
400	495	250	125	450	400	10	8
450	545	250	125	500	450	10	8
500	595	250	125	550	500	12	12
560	655	300	150	610	560	12	12
630	731	300	150	690	630	12	12
710	805	300	150	760	710	12	12
800	895	300	150	850	800	12	12
900	995	300	150	950	900	12	12
1000	1095	300	150	1050	1000	12	12



**Sleeve coupling AFC**

Type	A	B	C	D	E	N - Number of holes
250	305	55	280	250	8	8
315	370	55	345	315	8	8
355	420	55	395	355	10	8
400	495	60	450	400	10	8
450	545	60	500	450	10	8
500	595	60	550	500	12	12
560	655	75	610	560	12	12
630	731	75	690	630	12	12
710	805	75	760	710	12	12
800	895	75	850	800	12	12
900	995	75	950	900	12	12
1000	1095	75	1050	1000	12	12
1250		75				
1500		75				
2000		75				



**Protection net AFC**

Protection nets for inlets and outlets for axial fan AFC may be delivered on request.