

# AFTM

## Ducted axial fan with "UNEL-MEC" motor



<b>Product</b>	AFTM
<b>Installation</b>	Ducted

### FEATURES

AFTM fans are ideal for applications requiring large air flow rates and relatively moderate pressures, in duct mounting applications.

They are characterized by extreme construction robustness, essentially due to the flanges machined directly from the casing (not attached), and the thickness of the materials used. Another characteristic is the variety of versions and models in the series, which allows the right solution for numerous ventilation problems. The impeller features a robust clamp hub in die-cast aluminum for blade attachment. Blades manufactured by stamping from various materials, always with the objective of withstanding high workloads.

### FAN

Steel sheet casing protected with epoxy-polyester paint coating. Flanges dimensioned according to UNI EN ISO 13351/Tab.1. High-efficiency impeller with airfoil profile blades, with adjustable pitch angle stationary, in technopolymer or die-cast aluminium, die-cast aluminium hub. Balancing according to UNI ISO 21940-11 standards.

### MOTOR

AC asynchronous electric motor, IP 55 protection, insulation class F, duty S1, form B3, manufactured in compliance with IEC/EEC (UNELMEC) standards. Execution 4 (direct coupling with overhung impeller).

### VERSIONS

**Mm**: medium inlet cone: motor/impeller assembly almost completely included within the casing length

**ML**: long inlet cone: motor/impeller assembly completely "included" within the casing length.

**Ms**: short inlet cone: motor protruding from the casing and accessible.

### ON REQUEST

Performance different from those shown.

Versions with aluminium blade impeller.

Versions with "effectively" reversible airflow.

ATEX versions.

Fire smoke versions.

Versions with inlet cone in stainless steel or aluminium or hot-dip galvanized sheet metal.

Versions with airflow from impeller to motor, position B (FGM).

Suction nozzle (IN).

Silencers (SIL-DU).

Flat safety guard (FPG-DU) and conical guard (CPG-DU) (Required for free inlet use).

Inspection hatch.

Anti-vibration joint (FC-DU).

Anti-vibration supports (AV).

Counter flange (CF-DU).

External terminal block (OTB).

Fixing feet (FF-DU).

### APPLICATIONS

For example: industrial ventilation and air conditioning systems in mining, naval, cooling tower, heat exchanger, electrical equipment cooling, refrigeration applications, etc.

## APPLICATIONS



**INDUSTRIAL VENTILATION AND AIR CONDITIONING SYSTEMS IN MINING, NAVAL APPLICATIONS, EVAPORATIVE TOWERS, HEAT EXCHANGERS**



**COOLING OF ELECTRICAL EQUIPMENT, COLD ROOMS, ETC.**



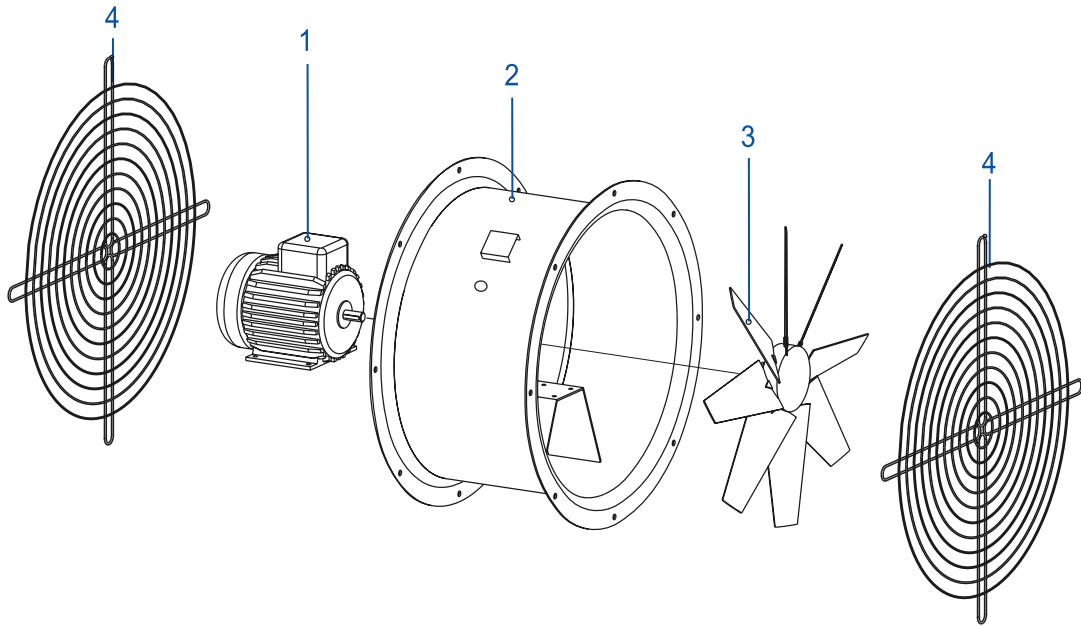
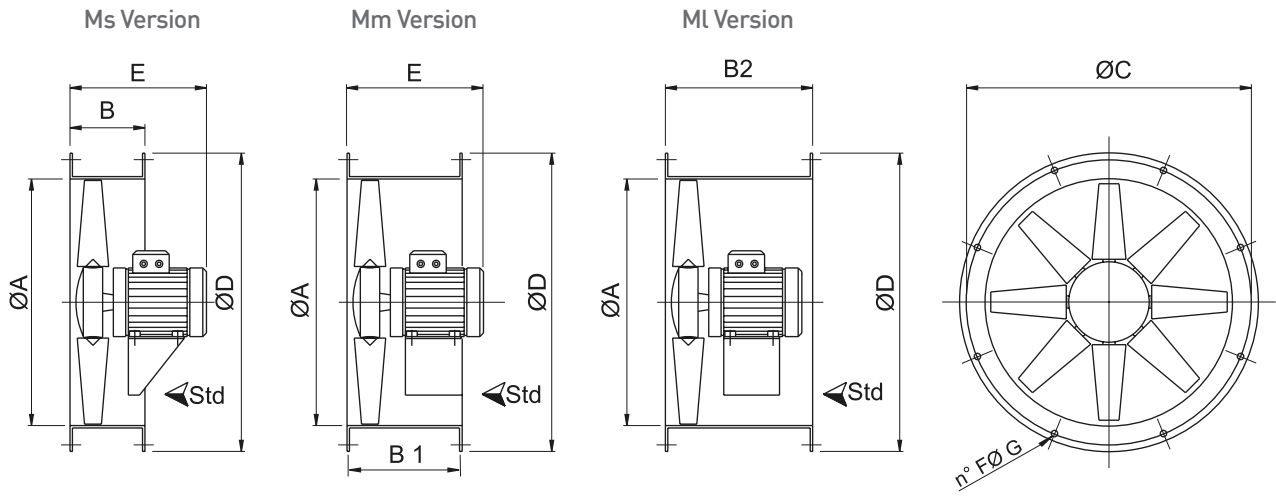
## TECHNICAL CHARACTERISTICS

Ducted air	Clean or slightly dusty, non-abrasive
Conveyed air temperature	-20°C / +50°C
Supply voltage	Three-phase version (T) 400V-3Ph-50Hz
	Single-phase version (M) 230V-1Ph-50Hz
	Airflow from motor to impeller, position A (FMG)

## DIMENSIONS

Model	A mm	Motor (H) mm	B (Ms) mm	B1 (Ms) mm	B2 (Ms) mm	C mm	D mm	*E mm	F mm	G mm	*Kg (Ms)	*Kg (Mm)	*Kg (MI)
31	310	56-63	260	260	400	355	390	250/320	8	10	13/17	13/17	13/19
35	360	56-71	260	260	400	395	430	250/320	8	10	14/19	14/19	14/22
40	410	63-80	260	260	400	450	490	300/380	8	12	16/24	16/24	19/27
45	460	71-80	260	260	450	500	540	350/390	8	12	21/30	21/30	23/33
50	510	71-80	260	260	450	560	595	350/390	12	12	24/35	24/35	27/38
56	570	71-90	260	260	450	620	655	350/390	12	12	28/37	28/37	34/43
63	640	90-100	260	350	500	690	725	400/490	12	12	34/51	37/54	44/61
71	710	90-112	260	350	600	770	805	400/490	16	12	41/62	44/67	53/77
80	810	90-132	350	450	600	860	900	450/610	16	12	50/105	54/110	60/115
90	910	100-132	350	450	700	970	1010	450/690	16	16	80/162	87/169	105/187
100	1010	100-160	-	560	800	1070	1110	700/830	16	16	-	107/330	123/346
		180		800	900								
112	1130	132	-	560	800	1190	1230	700/880	20	16	-	136/355	157/455
		160-200		800	900								
		225		800	1000								
		250		900	1150								
125	1260	132	-	5560	800	1320	1360	700/1000	20	16	-	169/451	192/545
		160-200		800	900								
		225		800	1000								
		250-280		900	1150								
140	1400	160-225	-	800	1000	1470	1520	900/1000	20	16	-	381/895	411/935
		250-280		900	1150								
160	1610	160-255	-	800	1000	1680	1730	900/1100	24	20	-	489/963	519/1013
		250-280		900	1150								

[\*] Indicative



- 1- Motor
- 2- Air conveyor
- 3- Impeller
- 4- Guard "accessory" (mandatory for free inlet use)



## CHARACTERISTIC CURVES

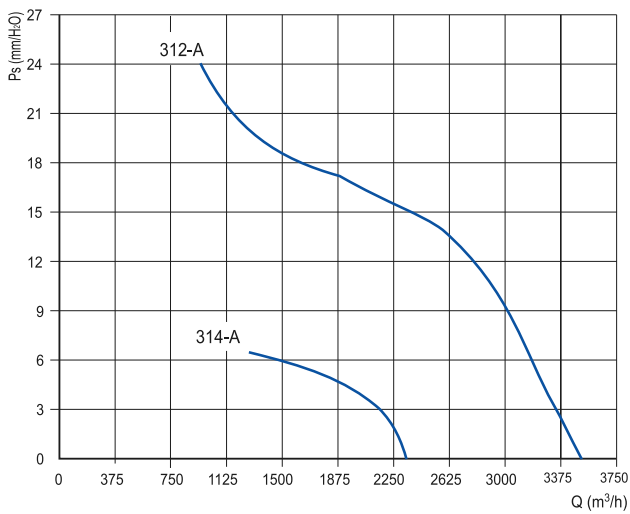
2 POLES (3000 RPM) - SINGLE-PHASE (1PH-230V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
312/A M	3500	0,25	1,7	63	70
352/A M*	5250	0,55	4	71	74
402/A M*	8200	1,1	8	80	79

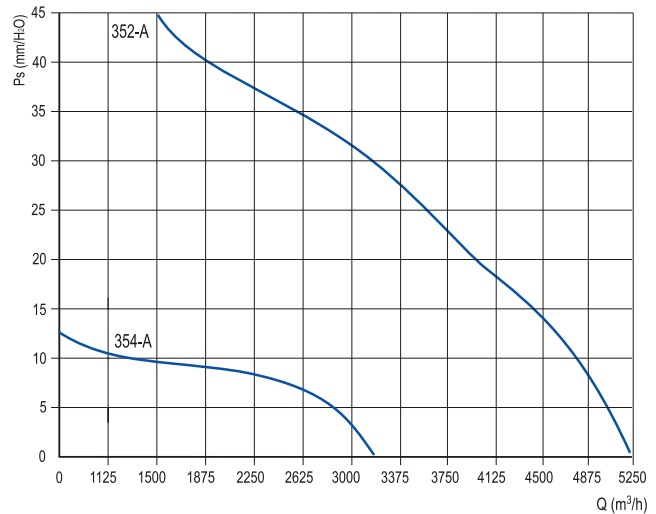
2 POLES (3000 RPM) - THREE-PHASE (3PH-400V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
312/A T	3500	0,25	0,7	63	70
352/A T	5250	0,55	1,6	71	74
402/A T	8200	1,1	2,6	80	79

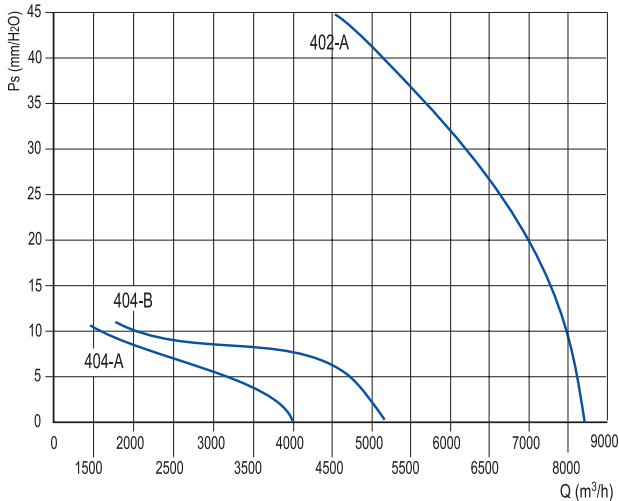
310



350



400



### 4 POLES (1500 RPM) - THREE-PHASE (3PH-400V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
314/A T	2300	0,09	0,4	56	52
354/A T	3200	0,09	0,4	56	56
404/A T*	4000	0,12	0,5	63	61
404/B T	5200	0,18	0,6	63	62
454/A T	6500	0,25	0,8	71	65
454/B T	7600	0,37	1,2	71	66
504/A T*	8000	0,37	1,2	71	68
504/B T	9000	0,55	1,6	80	69
564/A T*	10000	0,55	1,6	80	71
564/B T	12500	0,75	2	80	72
634/A T	13000	0,75	2	80	75
634/B T	16000	1,1	2,8	90	76
634/C T	17000	2,2	5	100	76
714/A T	17000	1,5	3,5	90	77
714/B T	20500	2,2	5	100	77
714/C T	18500	2,2	5	100	77
714/D T	23500	3	6,5	100	79
804/A T	24000	3	6,5	100	79
804/B T	29000	4	8,2	112	79
804/C T	35000	5,5	11	132	80
804/D T	40000	7,5	15	132	80
904/A T	38000	5,5	11	132	85
904/B T	43000	7,5	15	132	86
904/C T	47000	7,5	15	132	86
904/D T	52500	9,2	18	132	86
1004/A T	41000	5,5	11	132	88
1004/B T	50000	7,5	15	132	89
1004/C T	59000	11	21	160	89
1004/D T	65000	15	27,8	160	90
1004/E T	72500	18,5	32,6	180	90
1124/A T	80000	18,5	32,6	180	93
1124/B T	87000	22	38,8	180	94
1124/C T	100000	30	53	200	94
1254/A T	95000	22	38,8	180	97
1254/B T	110000	30	53	200	98
1254/C T	125000	37	64	225	98

### 4 POLES (1500 RPM) - ONE-PHASE (1PH-230V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
314/A M	2300	0,09	1	56	52
354/A M	3200	0,09	1	56	56
404/A M*	4000	0,12	1,1	63	61
404/B M*	5200	0,18	1,4	63	62
454/A M*	6500	0,25	1,8	71	65
454/B M*	7600	0,37	3,3	71	66

### 6 POLES (1000 RPM) - THREE-PHASE (3PH-400V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
506/A T*	6000	0,18	0,7	71	58
566/A T	8500	0,25	1	71	62
636/A T	12500	0,37	1,3	80	66
636/B T	14000	0,75	2,2	90	65
716/A T	16000	0,75	2,2	90	67
716/B T	17000	1,1	3	90	66
806/A T	16000	0,75	2,2	90	68
806/B T	19000	1,1	3	90	68
806/C T	22500	1,5	4	100	69
906/A T	25000	1,5	4	100	75
906/B T	29000	2,2	5	112	75
906/C T	32000	2,2	5	112	75
1006/A T	27000	1,5	4	100	79
1006/B T	33000	2,2	5	112	79
1006/C T	41000	3	7	132	80
1126/B T	45000	4	9	132	83
1126/C T	54000	5,5	12	132	83
1256/B T	61000	7,5	15	160	87
1256/C T	73000	11	22	160	88
1256/D T	85000	11	22	160	88
1406/A T	115000	18,5	35	200	91

### 8 POLES (750 RPM) - THREE-PHASE (3PH-400V 50HZ)

Model	Flow rate (m³/h)	Pm kW	In max A	Motor (H)	Lp dB(A)
568/A T	6000	0,12	0,7	71	56
638/A T*	8000	0,18	0,8	80	60
718/A T*	11000	0,37	1,5	90	61
808/A T*	10000	0,37	1,5	90	61
808/B T*	13000	0,37	1,5	90	62
908/A T	17000	0,75	2,3	100	69
908/B T	20500	0,75	2,3	100	69
1008/A T	20500	0,75	2,3	100	74
1008/B T	40500	2,2	5,5	132	77
1128/C T	40500	2,2	5,5	132	77
1258/A T	34500	2,2	5,5	132	81
1258/B T	43000	3	7,3	132	81
1258/C T	52000	4	9,3	160	82
1258/D T	59000	4	9,3	160	82
1408/A T	87000	7,5	14,7	160	85
1126/B T	45000	4	9	132	83
1126/C T	54000	5,5	12	132	83
1256/B T	61000	7,5	15	160	87
1256/C T	73000	11	22	160	88
1256/D T	85000	11	22	160	88
1406/A T	115000	18,5	35	200	91

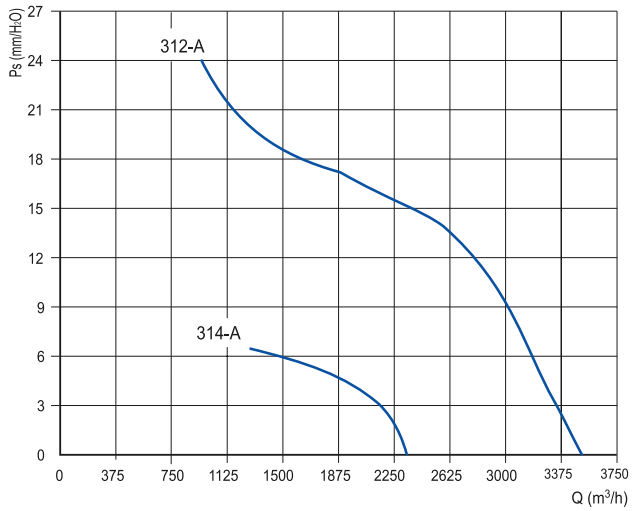
[\*] Only for installation outside EU



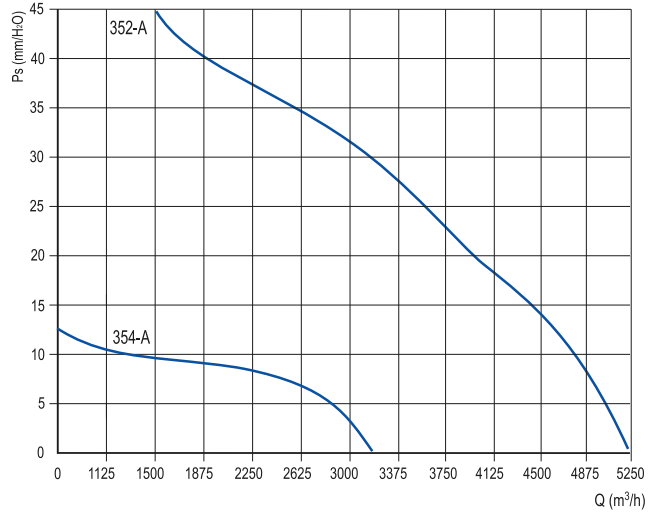
# Ventilation

Comfort and performance  
at maximum efficiency  
energy

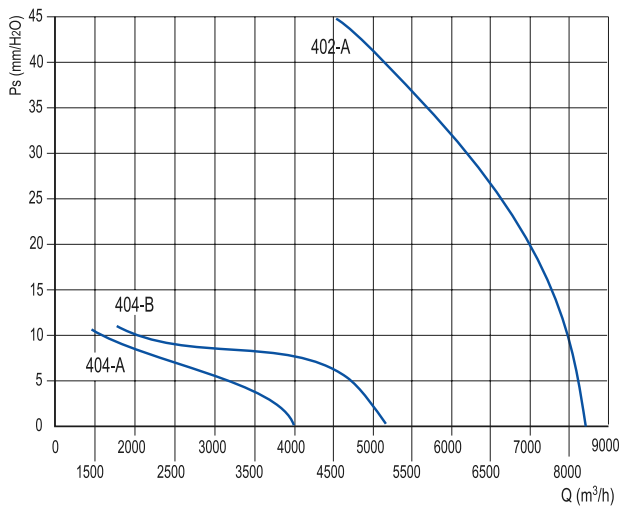
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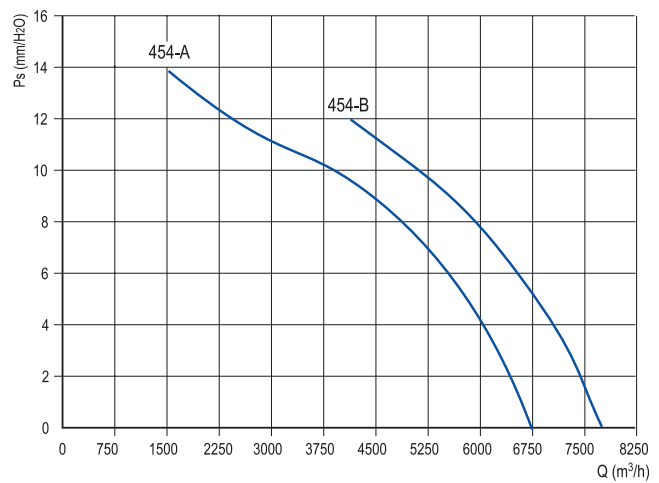
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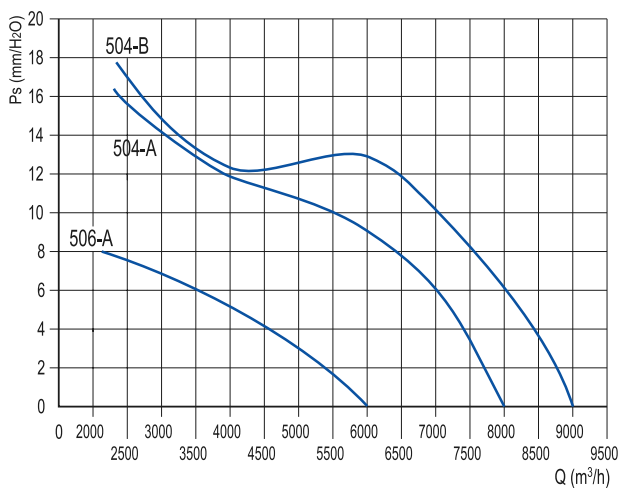
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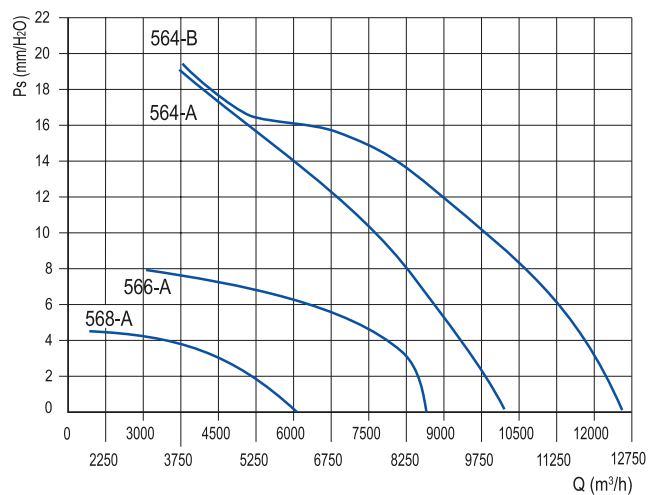
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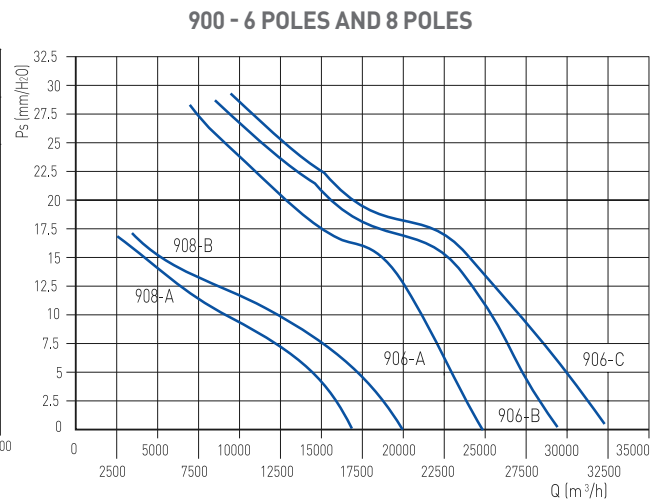
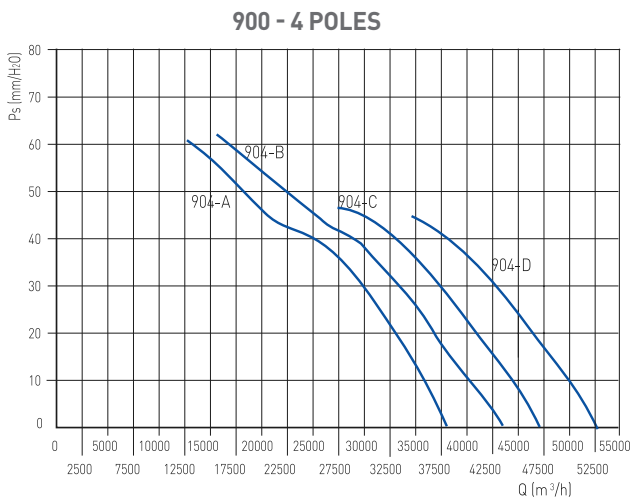
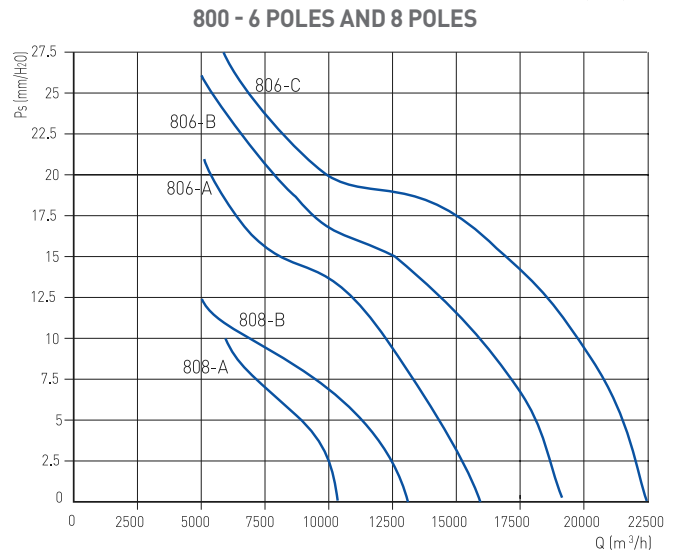
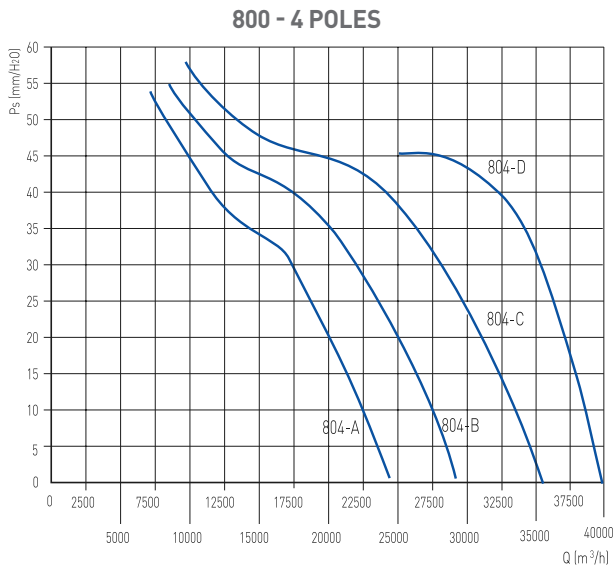
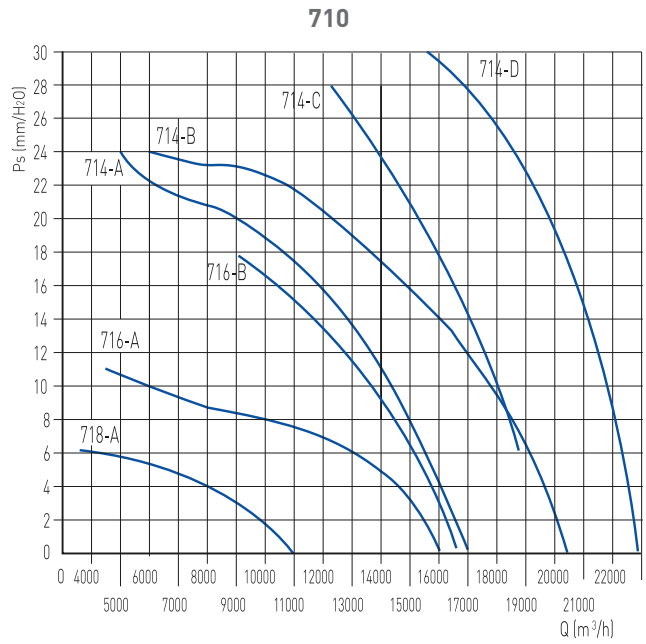
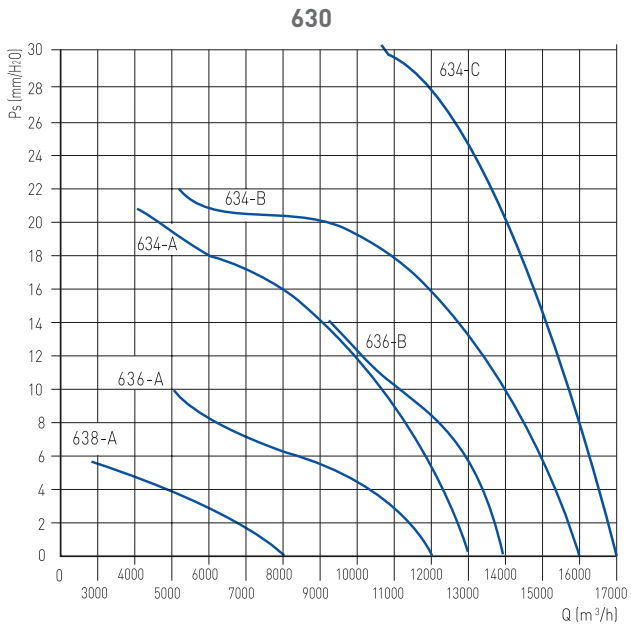


### 500



### 560



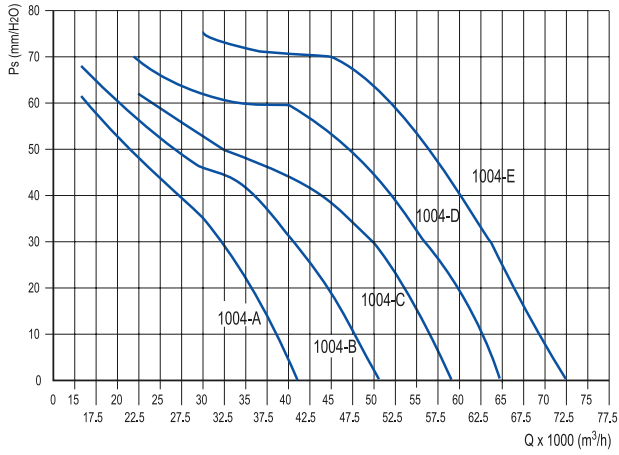




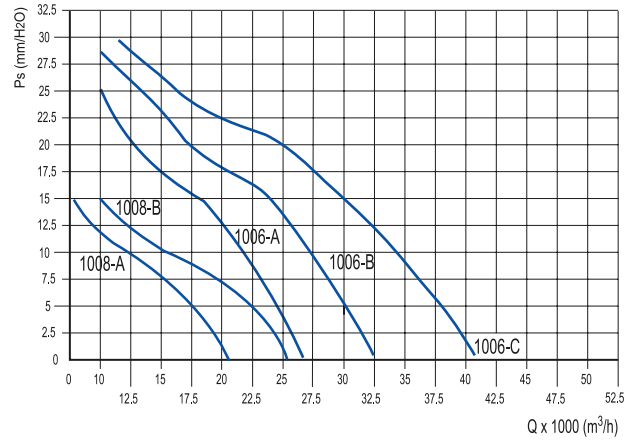
# Ventilation

Comfort and performance  
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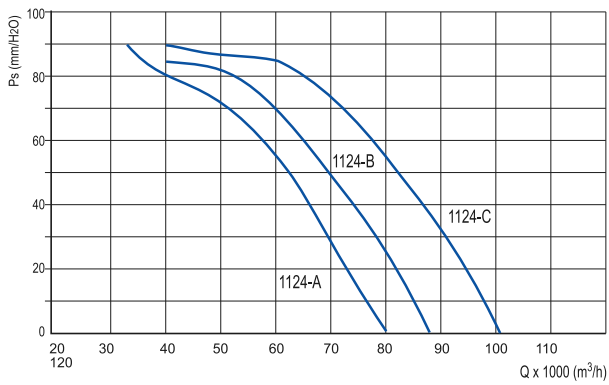
### 1000 - 4 POLES



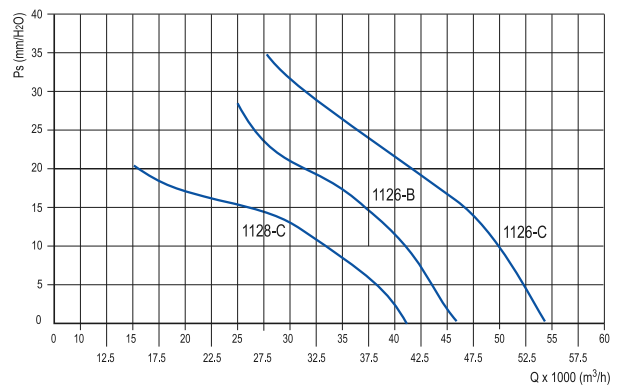
### 1000 - 6 POLES AND 8 POLES



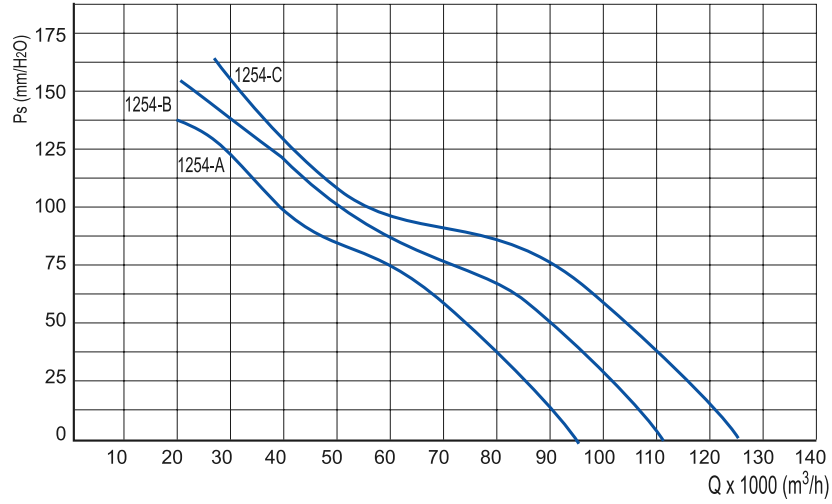
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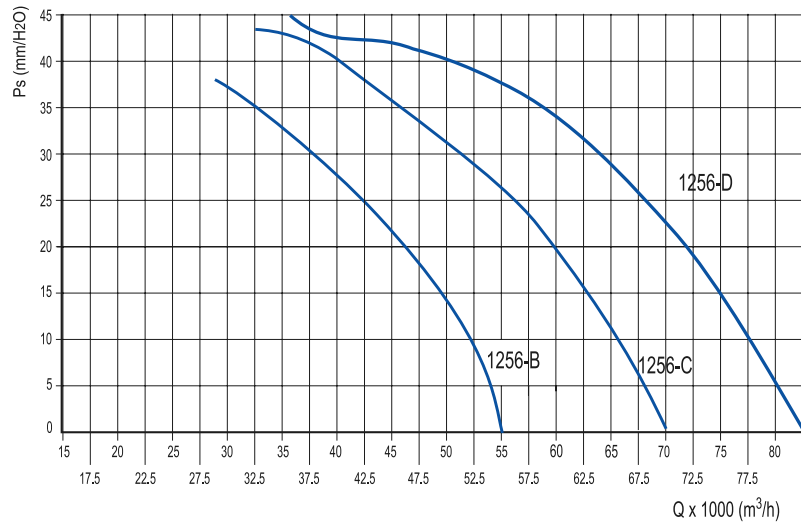
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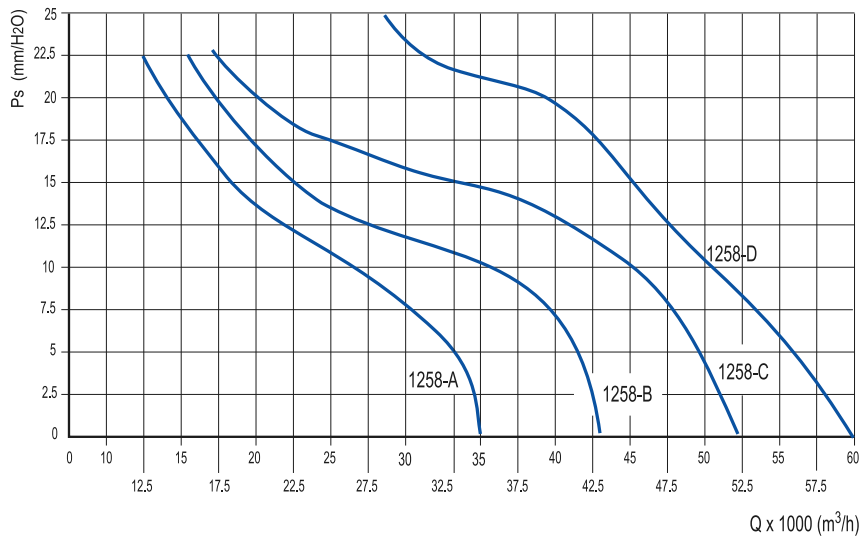
1250 - 4 POLES



1250 - 6 POLES

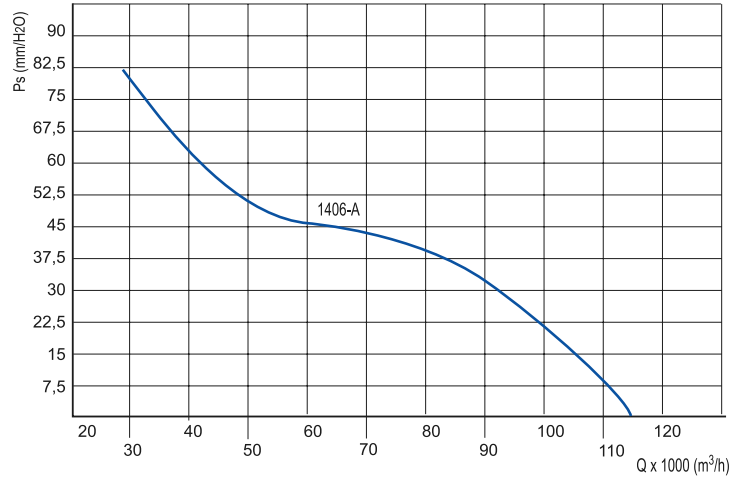


1250 - 8 POLES





## 1400 - 6 POLES



## 1400 - 8 POLES

