



## VORTICEL MP RANGE

### Medium-pressure plate axial fans

Wall-hung slim industrial medium-pressure axial fans, available with several diameters and in single and three phase versions; particularly suitable for the ventilation of business and industrial premises, such as offices, gyms, restaurants, discos, dye plants, industrial buildings ....

#### Key features

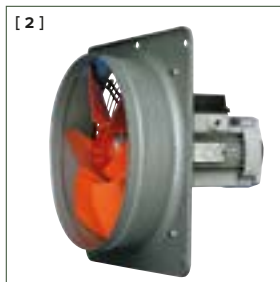
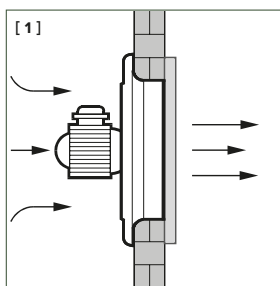
- High performance.
- Continuous operation high maximum environment temperature (70°C).
- Motors with high protection rating (IP55) from dusts and water.

#### Versions

- 19 models, in single and three phase version, with 2, 4 and 6 poles, with nominal diameter between 250 and 600 mm.

#### Technical features

- Moulded pickled phosphate-coated steel wall panels, painted with grey polyester powder for superior resistance against weathering over time and with hammered finish.
- Accident prevention and anti-bird grilles in compliance with the ISO 13857 Standard, integrating the motor support function, realised in electro-welded steel rings and painted with black epoxy powder. Easy removal simplifies maintenance and cleaning of the fan.
- Asynchronous induction motors (standard size UMELEC B5), with shaft mounted ball bearings and with cooling fans for more effective dissipation of the heat.
- Wing profile impeller with overlapping blades designed to reduce sound levels derived from air turbulence. Non-deformable polypropylene (PP) blades with high resistance and high dimensional stability and die-cast aluminum hub.
- Wide continuous operation temperature range: - 15°C / + 70°C.
- Maximum operating temperature with hot fumes 70 ° C.
- Motors protection rating (IP55).
- Insulation class: I (earthing is required).



[1] These devices are suitable for applications that do not require the overcoming of load losses and for the extraction of non-dusty, non-acid or corrosive air.  
[2] Side profile

#### Note

- The VORTICEL MP range fans are compliant with the ErP N. 327/2011/EU Reg: (only models 254 M, 304 M, 254 T and 304 T).
- The VORTICEL MP range fans are compatible with applications that envision significant head losses, such as those induced by discharge into ventilation ducts or by coupling to air filters. They are not suitable for handling streams characterised by significant concentrations of abrasive dusts or acid or corrosive substances.



## TECHNICAL DATA

	PRODUCTS	CODE	V~50HZ	W	A	POLES	RPM	MAX AIRFLOW		MAX PRESSURE		Lp dB(A) * 3 m	°C** MAX	KG
								m³/h	l/s	mmH₂O	Pa			
SINGLE-PHASE	MP 252 M	42252	220-240	205-230	1.00-1.00	2	2800	2000	556	41	402	70	70	6.1
	MP 254 M	42254	220-240	60-65	0.29-0.29	4	1400	1150	319	13W	127	53	70	6.1
	MP 302 M	42202	220-240	520-550	2.60-2.65	2	2800	3500	972	60	588	75	70	9.4
	MP 304 M	42204	220-240	110-110	0.55-0.55	4	1400	2200	611	13	127	59	70	6.9
	MP 354 M	42214	220-240	240-270	1.15-1.18	4	1400	3150	875	18	177	64	70	10.2
	MP 404 M	42224	220-240	300-340	1.40-1.45	4	1400	4300	1194,4	13,7	134	66	70	11.2
THREE-PHASE	MP 254 T	42354	220/380 240/415	60 65	0.35/0.20 0.35/0.20	4	1400	1150	319	12	118	53	70	6.1
	MP 302 T	42302	220/380 240/415	540 560	2.10/1.20 2.25/1.30	2	2800	3500	972	65	638	75	70	9.4
	MP 304 T	42304	220/380 240/415	110 110	0.24/0.24 0.41/0.41	4	1400	2040	566,7	15	147	59	70	6.9
	MP 354 T	42314	220/380 240/415	185 210	0.62/0.36 0.64/0.37	4	1400	3150	875	18,4	180	64	70	10.2
	MP 404 T	42324	220/380 240/415	295 330	0.98/0.57 1.00/0.59	4	1400	4350	1208	18	177	66	70	11.2
	MP 454 T	42335	220/380 240/415	730 780	3.00/1.75 3.00/1.75	4	1400	6800	1889	34,6	339	66,5	70	18.5
	MP 504 T	42344	220/380 240/415	1100 1200	3.70/2.15 3.70/2.15	4	1400	8800	2444,4	37	363	74	70	19.2
	MP 506 T	42334	220/380 240/415	400 430	1.90/1.12 1.90/1.12	6	1000	6100	1694	17	167	63,5	70	19.3
	MP 604 T	42374	220/380 240/415	2200 2350	7,6/4,4 7,6/4,4	4	1400	14500	4028	39,6	388	79,5	70	28.1
	MP 606 T	42364	220/380 240/415	730 760	3,20/1,90 3,20/1,90	6	1000	10000	2778	18	177	68,5	70	28.2

\*Sound pressure level measured at 1 and 3 m in free field conditions in accordance with standard ISO 3741.

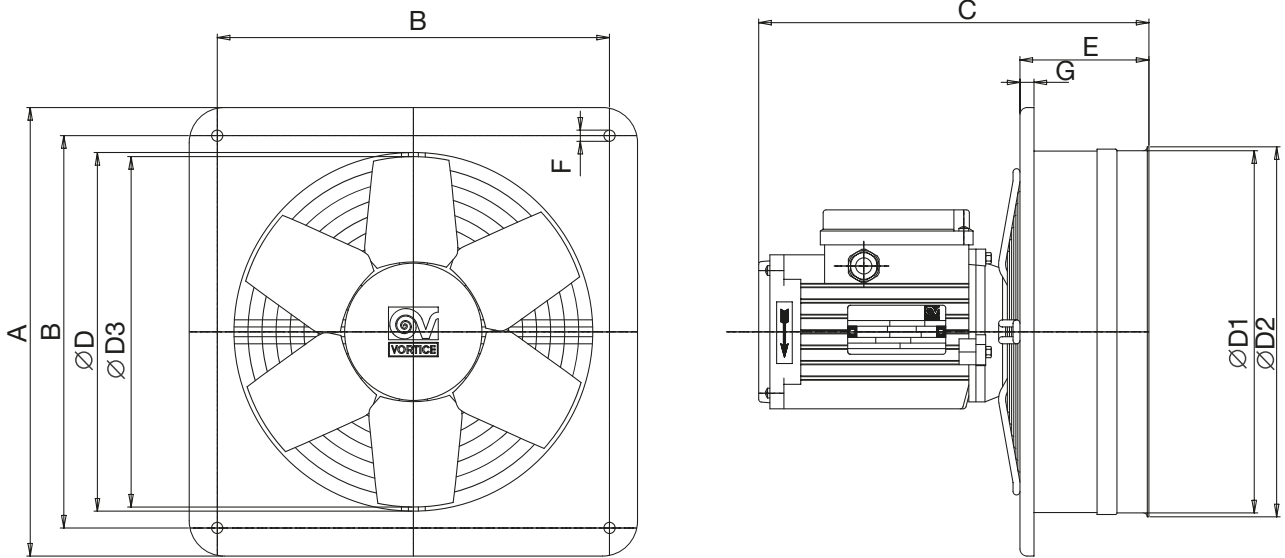
\*\* Maximum continuous operating temperature of the product.



# INDUSTRIAL VENTILATION

## VORTICEL MP RANGE

### DIMENSIONS



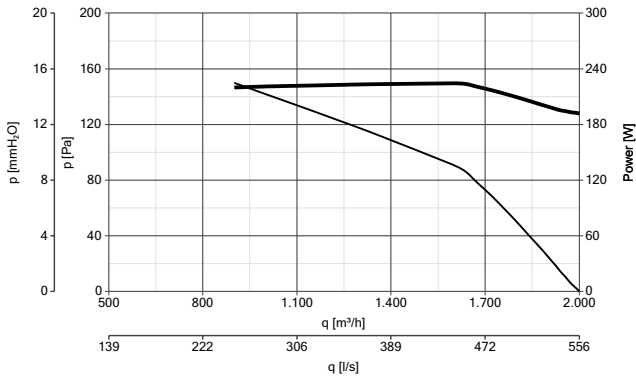
PRODUCTS	A	B	C	ØD	ØD1	ØD2	ØD3	E	ØF	G
MP 252	320	280	279	256	258.5	264	250	92	8	10
MP 254	320	280	279	256	258.5	264	250	92	8	10
MP 302	380	330	308	308	310.5	316	300	94	8	10
MP 304	380	330	279	308	310.5	316	300	94	8	10
MP 354	450	380	288	360	362.5	368	350	94	8	10
MP 404	510	430	308	410	412.5	418	400	114	12	15
MP 454	630	530	381	460	462.5	468	450	109	12	15
MP 504	630	530	381	510	512.5	518	500	109	12	15
MP 506	630	530	381	510	512.5	518	500	109	12	15
MP 604	760	630	430	610	612.5	618	600	124	12	15
MP 606	760	630	430	610	612.5	618	600	124	12	15

Dimensions (mm)

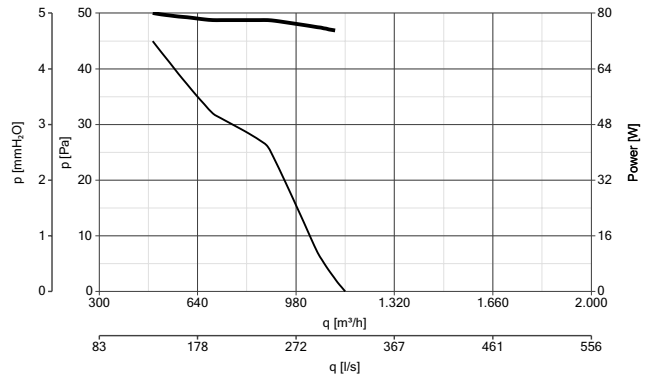


PERFORMANCE CURVES

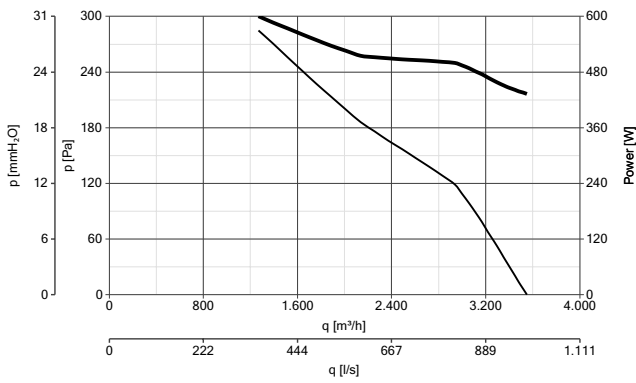
MP 252 M



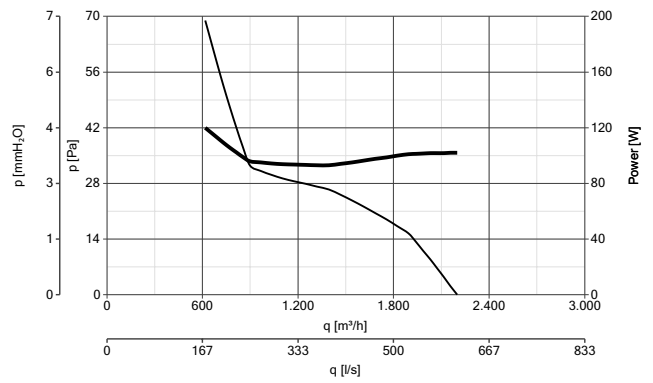
MP 254 M



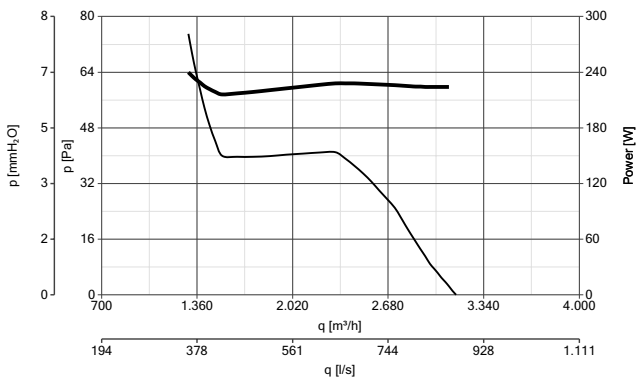
MP 302 M



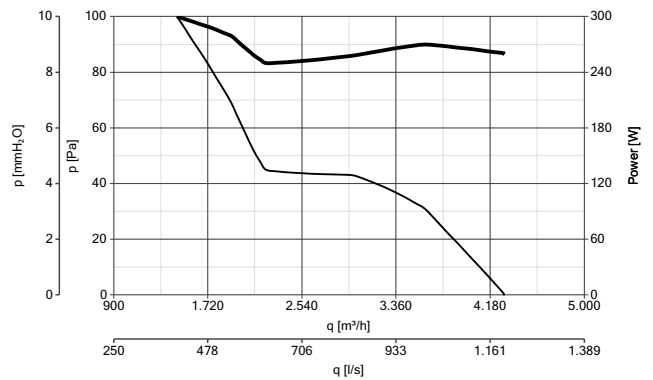
MP 304 M



MP 354 M



MP 404 M

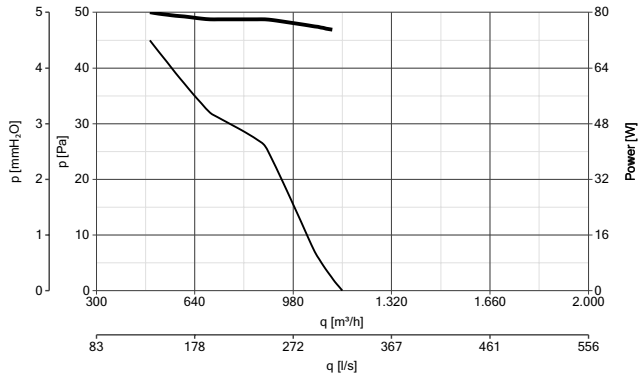


Power consumption  
 Delivery

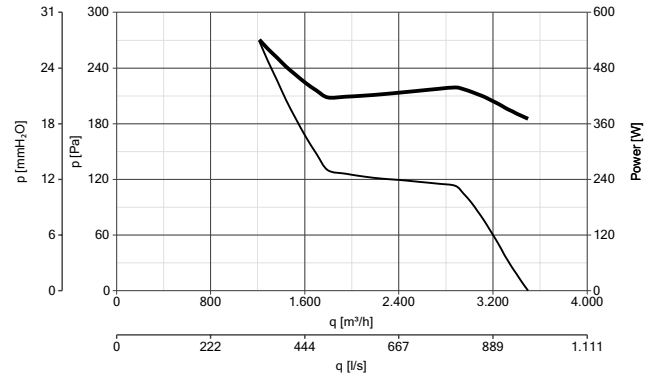


PERFORMANCE CURVES

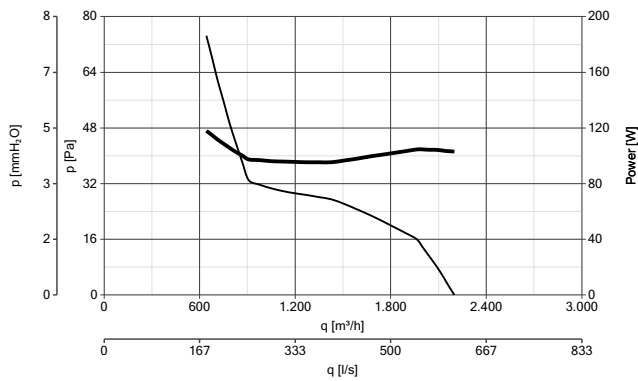
MP 254 T



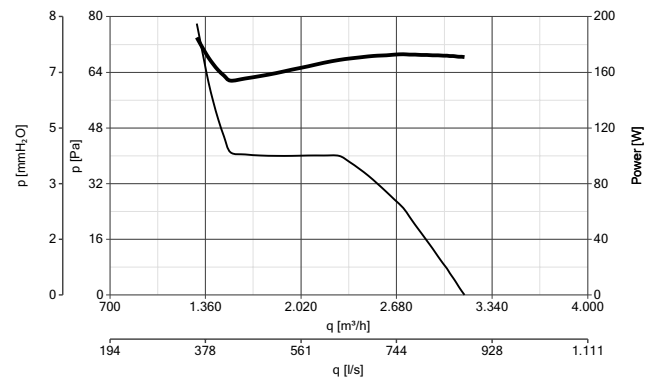
MP 302 T



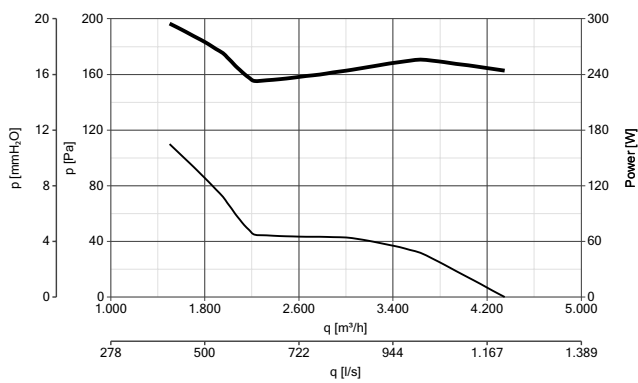
MP 304 T



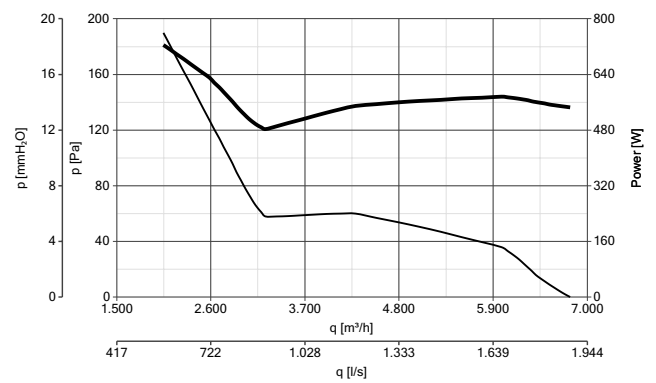
MP 354 T



MP 404 T



MP 454 T

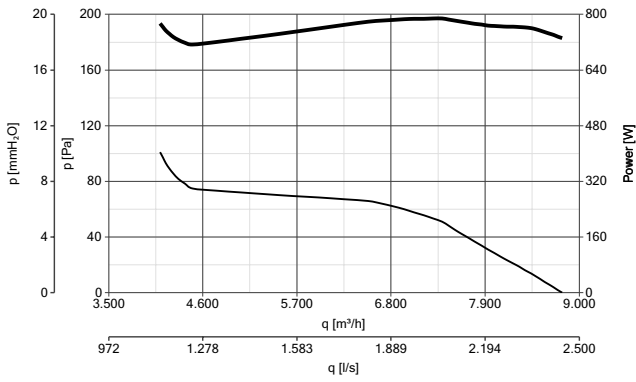


— Power consumption  
— Delivery

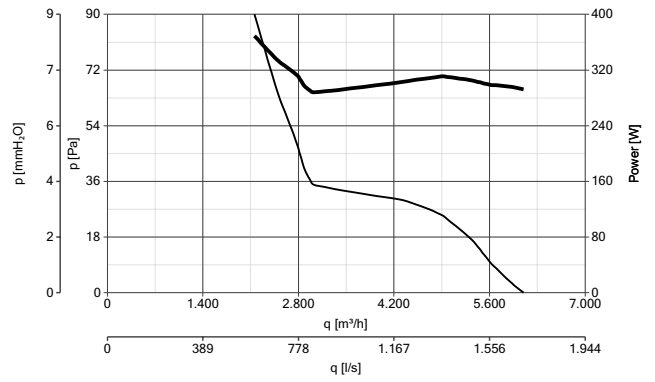


PERFORMANCE CURVES

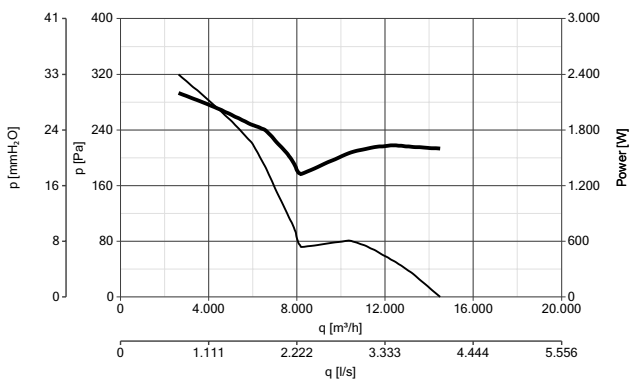
MP 504 T



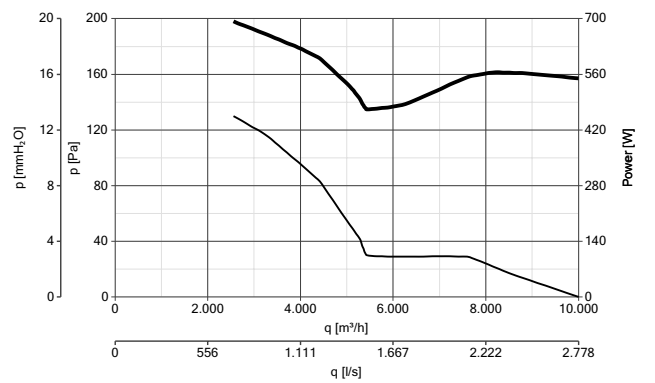
MP 506 T



MP 604 T



MP 606 T  
MP 606 T






— Power consumption  
— Delivery







## INDUSTRIAL VENTILATION

### VORTICEL MP RANGE

#### ACCESSORIES

MODELS	DESCRIPTION	CODE	PRODUCTS
	DPU - Spacer for panel installation	250	52151 42252 - 42254 - 42354
		300	52251 42202 - 42204 - 42302 - 42304
		350	52351 42214 - 42314
		400	52451 42224 - 42324
	PGR - Gravity shutter	250	50150 42252 - 42254 - 42354
		300	50250 42202 - 42204 - 42302 - 42304
		350	50350 42214 - 42314
		400	50450 42224 - 42324
	TRA - Protecion grille	250	51150 42202 - 42204 - 42302 - 42304
		300	51250 42204 - 42304
		350	51350 42214 - 42314
		400	51450 42224 - 42324
		450/500	51550 42334 - 42335 - 42344
		600	51650 42364 - 42374

#### CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IRM 30 - Three position single-phase speed controller	12921	42254 - 42354
	IRT 15 - Three position three-phase speed controller	12923	42304 - 42314 - 42324 - 42354
	IRT 35 - Three-phase variable voltage drive	12924	42302 - 42334 - 42335 - 42344 42364
	IREM 3 - 3A Single-phase speed controller	12931	42204 - 42214 - 42224 - 42252
	IREM 5 - 5A Single-phase speed controller *	12932	42204 - 42214 - 42224 - 42252
	IREM 9 - 9A Single-phase speed controller **	12933	42204 - 42214 - 42224 - 42252
	IREM INVERTER 4 M - Single-phase speed controller with inverter***	12815	42202 - 42304 - 42214 - 42224 42252 - 42254
	IRET INVERTER 2.5 M - Three-phase speed controller with inverter***	12816	42302 - 42304 - 42314 - 42324 - 42334 - 42354
	IRET INVERTER 5 M - Three-phase speed controller with inverter***	12817	42335 - 42344 - 42364
	POT - Potentiometer	12828	12815 - 12816

\*Can control several fans up to a max 5A.

\*\* Intended to simultaneously control appliance, up to a max 9A.

\*\*\* To adjust a regulator with inverter, combine a 0-10V potentiometer as code 12828