



VORTICEL MPC-E RANGE

Medium-pressure long cased axial fans

Industrial ducted medium pressure axial fans, available in different diameters and single and three-phase versions, designed for the ventilation of commercial and industrial premises such as warehouses, greenhouses, agricultural premises and workshops, with free or duct discharge.

Key features

- Robust and weatherproof construction.
- Easy, quick set-up.
- Continuous operation at high maximum environmental temperature (70°C).

Versions

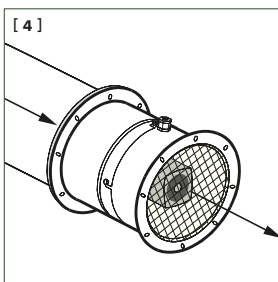
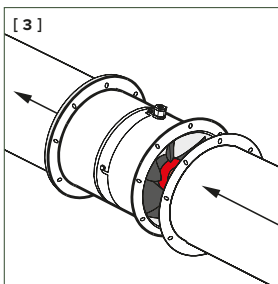
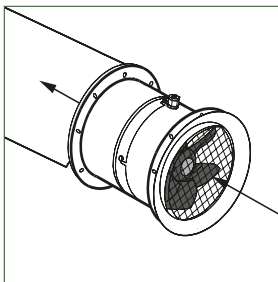
10 models, in single and three-phase version, with 2 and 4 poles, with a nominal diameter between 250 and 400 mm.

Technical features

- Case made of two pickled phosphated sheet steel flanged cylinders, calendered, welded and grey polyester powder-coated for higher long-term resistance against weathering and with hammered finish.
- Class F thermally protected asynchronous motors, with shafts turning on ball bearings with double sealing screen, characterized by high (IP55) degree of protection against dust and water, speed adjustable by Vortice controllers.
- Starting capacitors of the single-phase models comply with the EN 60252-1 Standard and are third-party certified.
- Impellers with 6-fin shaped blades fitted on grooved hubs in die-cast aluminium, dynamically balanced (UNI ISO 1940, Class 6.3), moulded in plastic resin loaded with glass fibres to combine dimensional stability, strength and resistance to aggressive agents

Note

- The fans of the VORTICEL MPC-E range comply with Reg. ErP No. 327/2011/UE.
- The fans of the VORTICEL MPC-E range are compatible with applications that envision high pressure drops, such as those induced by discharge into ventilation ducts or by coupling to air filters. They are not suitable for handling flows characterized by significant concentrations of abrasive powders or acid or corrosive substances.



[1] Robust construction. [2] [3] [4] These devices can be applied with exhaust in the ventilation duct combined with filters used in all installations where there are pressure drops. The ventilated air must not be dusty, acidic or corrosive.





TECHNICAL DATA

	PRODUCTS	CODE	V~50HZ	W	A	POLES	RPM	MAX AIRFLOW		MAX PRESSURE		LW dB(A)	Lp dB(A)* 3 m	MAX °C**	KG
								m³/h	l/s	mmH₂O	Pa				
SINGLE-PHASE	MPC-E 254 M	42263	230	70	0.32	4	1460	1180	328	9.0	82	45.8	25.3	70	8.2
	MPC-E 302 M	42209	230	375	1.80	2	2940	2850	792	60.0	588	79.9	59.4	70	12.3
	MPC-E 304 M	42210	230	110	0.50	4	1390	2160	600	10.1	99	55.3	34.8	70	10.2
	MPC-E 354 M	42217	230	152	0.70	4	1450	3150	875	17.2	169	57.3	36.8	70	13.4
	MPC-E 404 M	42228	230	272	1.30	4	1440	4800	1333	18.7	183	68.6	48.1	70	14.0
THREE-PHASE	MPC-E 254 T	42359	400	60	0.21	4	1460	1210	336	8.2	80	45.8	25.3	70	8.2
	MPC-E 302 T	42309	400	360	1.00	2	2940	2900	805	60.0	588	79.2	58.7	70	12.3
	MPC-E 304 T	42310	400	107	0.24	4	1400	2250	625	10.4	102	55.3	34.8	70	10.2
	MPC-E 354 T	42317	400	155	0.30	4	1425	3550	986	15.9	156	66.7	46.2	70	13.4
	MPC-E 404 T	42328	400	225	0.40	4	1365	4700	1305	16.5	162	67.4	46.9	70	14.0

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

** Maximum continuous operating temperature of the product.

ERP DATA DIRECTIVE N° 327/2011/UE

	PRODUCTS	CODE	MEASUREMENT CAT.	EFFICIENCY CAT.	YEAR OF CONSTRUCTION	VARIABLE DRIVE	η	N.	kW Pe	m³/h q	BEP*		Spec. ratio <1.04
											Pa p	RPM	
SINGLE-PHASE	MPC-E 302 M	42209	C	STATIC	2015	NO	31.2	40.4	0.35	2080	186	2930	YES
	MPC-E 354 M	42217	C	STATIC	2015	NO	29.9	41.5	0.15	2086	76	1450	YES
	MPC-E 404 M	42228	C	STATIC	2015	NO	30.5	40.4	0.27	3711	80	1435	YES
THREE-PHASE	MPC-E 302 T	42309	C	STATIC	2015	NO	31.0	40.2	0.34	2072	179	2920	YES
	MPC-E 354 T	42317	C	STATIC	2015	NO	29.4	40.8	0.15	2565	64	1415	YES
	MPC-E 404 T	42328	C	STATIC	2015	NO	30.5	41.0	0.24	2886	78	1373	YES

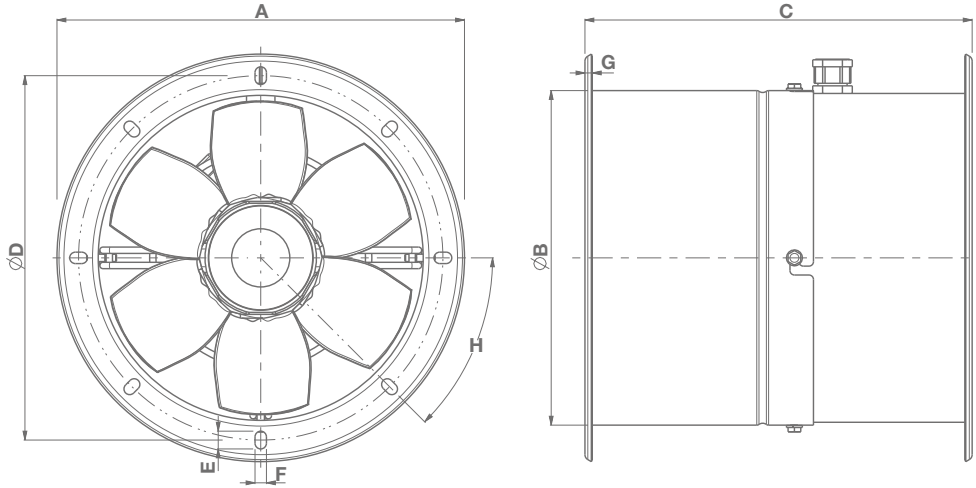
* Best efficiency point.



INDUSTRIAL VENTILATION

VORTICEL MPC-E RANGE

DIMENSIONS



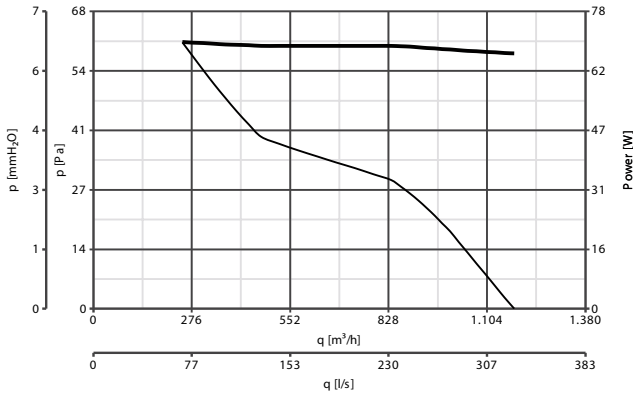
PRODUCTS	ØA	ØB	C	ØD	E	F	G	H
MPC-E 254	319	264	300	292	14	9	4	45°
MPC-E 302	393	316	330	366	14	9	4	45°
MPC-E 304	393	316	330	366	14	9	4	45°
MPC-E 354	432	368	330	405	14	9	4	45°
MPC-E 404	475	418	330	448	14	9	4	45°

Dimensions (mm)

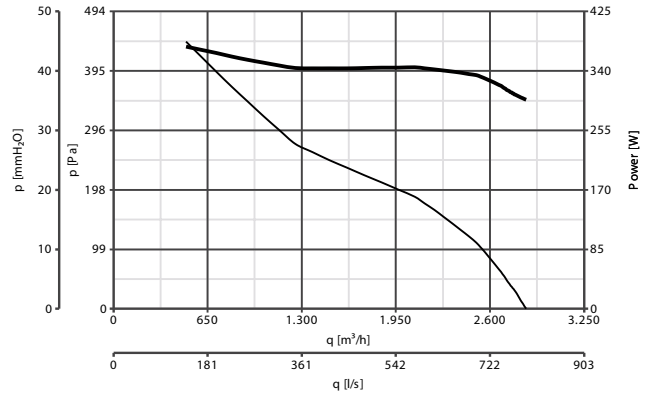


PERFORMANCE CURVES

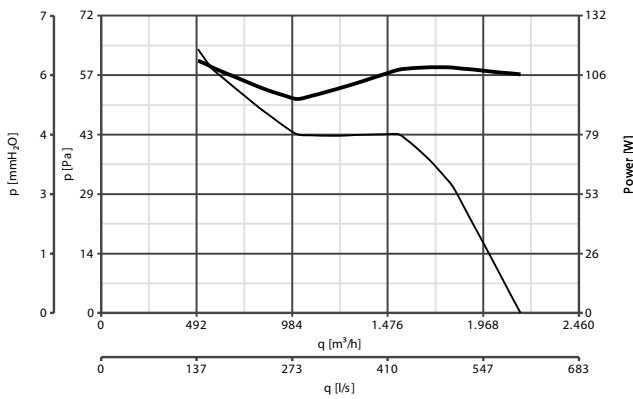
MPC-E 254 M



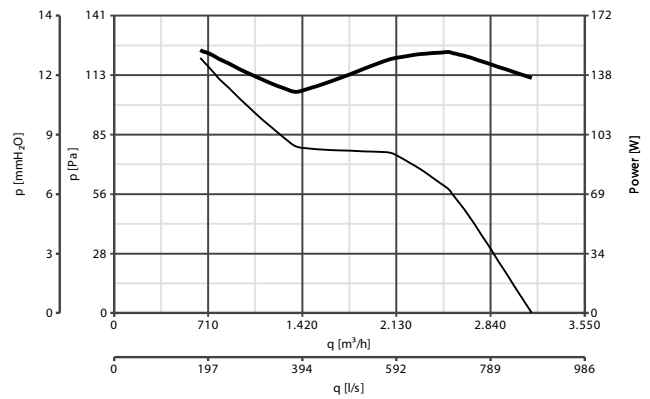
MPC-E 302 M



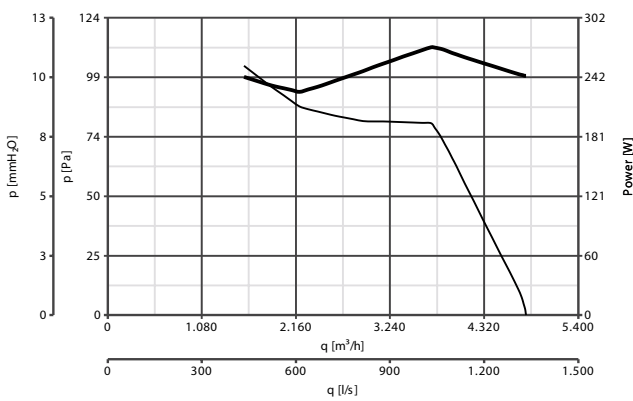
MPC-E 304 M



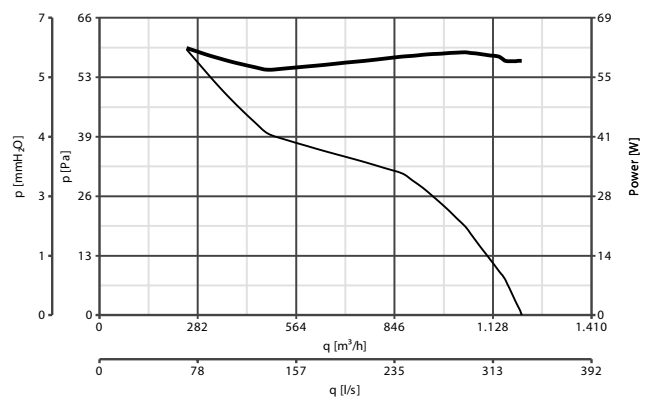
MPC-E 354 M



MPC-E 404 M



MPC-E 254 T



— Power consumption
— Delivery

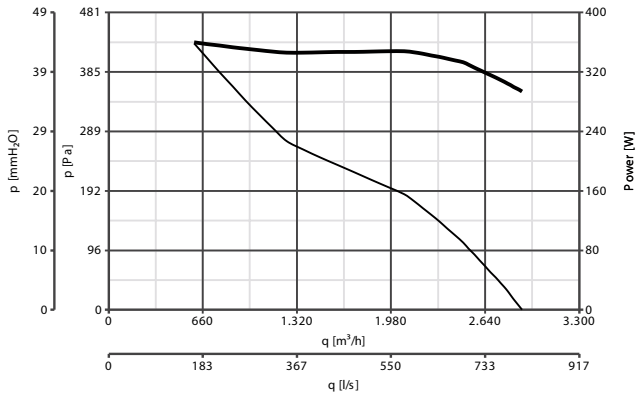


INDUSTRIAL VENTILATION

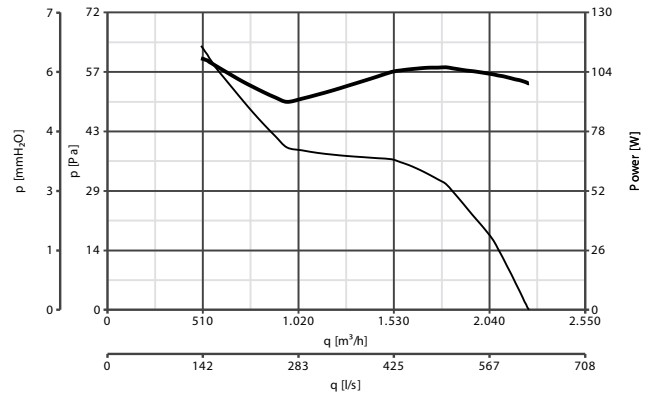
VORTICEL MPC-E RANGE

PERFORMANCE CURVES

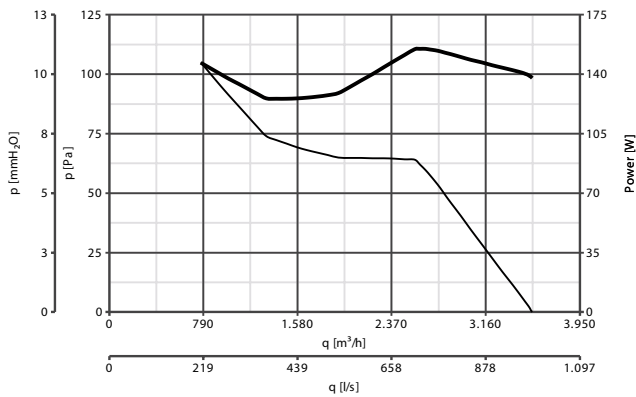
MPC-E 302 T



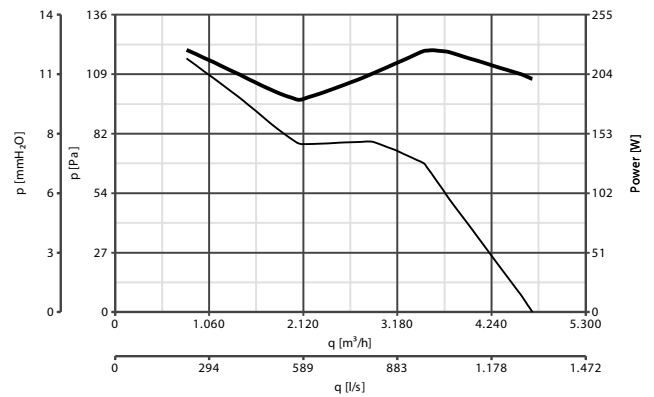
MPC-E 304 T



MPC-E 354 T








MPC-E 404 T





— Power consumption
— Delivery



ACCESSORIES

MODELS	DESCRIPTION	CODE	PRODUCTS
	MPC BO - Suction connector	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC RA - Flexible connector	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC SU - Mounting feet	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC FL - Coupling flange	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC RP - Protection grille	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IRM 30 - Three position single-phase speed controller	12921	42263 - 42210
	IRM 40 - Three position single-phase speed controller	12922	42209 - 42217 - 42228
	IRT 15 - Three-phase variable voltage drive	12923	42359 - 42310 - 42317 - 42328
	IRT 35 - Three-phase variable voltage drive	12924	42309
	IREM 3 - 3A Single-phase speed controller	12931	42263 - 42210 - 42217 - 42228
	IREM 5 - 5A Single-phase speed controller *	12932	42209
	IRET 6 - 6A 5A Single-phase speed controller	12934	42359 - 42309 - 42310 - 42317 - 42328

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

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