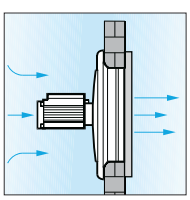
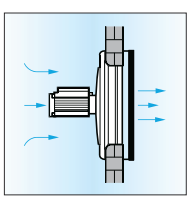
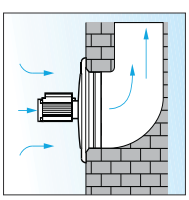
NEW

VORTICEL A-E RANGE

Compact plate axial fans







Suitable for commercial and industrial applications environments as warehouses, hospitals, nightclubs, offices, theatres, factories, gyms, restaurants, etc...

- **19 models**: ***9 single-phase*** *and* ***10 three-phase***.
- Phosphated sheet steel panels, painted with epoxy powder, in grey colour hammered finishing, resistant to atmospheric agents.
- Thermo-protected AC motor class F with external rotor, one speed, equipped with ball bearings.
- High aeraulic performance impellers equipped with electro-galvanised sheet steel blades, painted with polyester paint, in black.
- Low noise levels.
- Support protection grilles acting as an anti-bird guards, made of electro-welded steel rings black epoxy painted, easy to remove for maintenance.
- Wide range of continuous operation temperatures between -30°C and +50°C.
- Electric supply 230 V / 50 Hz for single phase models, 400 V / 50 Hz for three phase models.
- Protection motor: IP54.
- Insulation class: I. ⏚
- *Complying with the requirements of Regulation N° 327/2011/UE (Lot 11, 1st Tier) set out by the EUP/ErP Directive, effective starting from 01.01.2013.*

Wiring diagrams shown from page 458

Models	Code	n° blades
A-E 252 M	42207	5
A-E 254 M	42208	
A-E 254 T	42308	
A-E 304 M	42216	
A-E 304 T	42227	
A-E 354 M	42258	
A-E 354 T	42259	
A-E 404 M	42260	4
A-E 404 T	42261	
A-E 454 M	42307	
A-E 454 T	42308	
A-E 504 M	42316	
A-E 504 T	42327	4
A-E 506 M	42337	7
A-E 506 T	42346	4
A-E 564 T	42336	
A-E 566 M	42356	5
A-E 566 T	42366	
A-E 636 T	42347	4

TECHNICAL DATA

	Models	Code	W	A	Poles	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lw dB(A)	Lp dB(A) a 1 e 3 m*	Max °C
Single-phase	**A-E 252 M**	**42207**	95	0.41	2	2500	1365	379	18	177	73.5	62.5 - 53.0	
	A-E 254 M	**42208**	38	0.17		1400	764	212	6.0	61	59.0	48.0 - 38.5	
	A-E 304 M	**42216**	81	0.35		1400	1563	434	13.0	130	63.5	52.5- 43.0	50
	A-E 354 M	**42258**	182	0.82		1400	3015	837	14.5	145	68.5	57.5 - 48.0	
	A-E 404 M	**42260**	261	1.20	4	1375	4063	1128	13.6	134	74.5	63.5 - 54.0	
	A-E 454 M	**42307**	302	1.35		1350	5168	1435	8.3	81	80.5	60.0 - 69.5	40
	A-E 504 M	**42316**	482	2.12		1400	6639	1844	19.0	186	79.5	68.5 - 59.0	
	A-E 506 M	**42337**	285	1.32	6	1000	4977	1382	13.8	135	72.5	61.5 - 52.0	
	A-E 566 M	**42356**	345	1.51		1000	6505	1806	12.5	123	75.4	64.4 - 54.9	
Three-pahse	**A-E 254 T**	**42357**	50	0.22		1400	785	218	13.5	134	59.5	48.5 - 39.0	
	A-E 304 T	**42227**	79	0.22		1400	1696	471	13.0	129	66.5	55.5 - 46.0	50
	A-E 354 T	**42259**	173	0.38		1400	3071	853	13.2	129	68.5	57.5 - 48.0	
	A-E 404 T	**42261**	318	0.65	4	1400	3832	1064	25.0	246	73.5	53.0 - 62.5	
	A-E 454 T	**42308**	370	0.73		1350	5187	1440	15.8	155	78.5	67.5 - 58.0	
	A-E 504 T	**42327**	485	1.12		1400	6966	1935	13.1	128	81.0	70.0 - 60.5	40
	A-E 506 T	**42346**	264	0.80	6	973	4844	1345	13.3	131	70.0	59.0 - 49.5	50
	A-E 564 T	**42336**	925	1.71	4	1400	9255	2570	29.0	285	75.4	64.4 - 54.9	40
	A-E 566 T	**42366**	546	1.09	6	936	7309	2030	17.3	170	71.5	60.5 - 51.0	50
	A-E 636 T	**42347**	522	1.10		1000	9502	2639	15.7	154	78.5	67.5 - 58.0	

* Sound pressure level measured at 1-3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

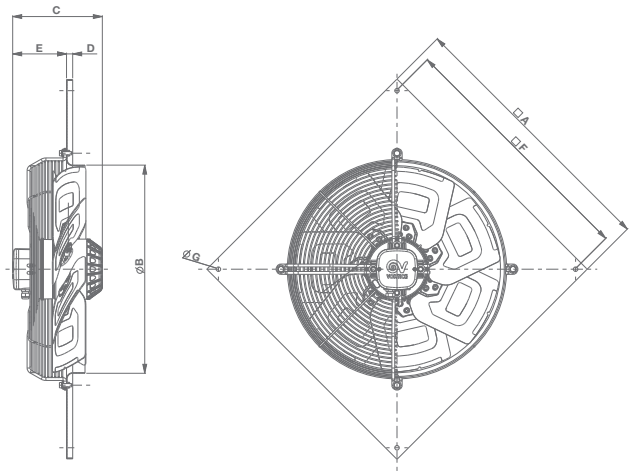
ErP data

Directive 2009/125/EC ErP (Energy related Products)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	BEP* (kW) Pe	BEP* m³/h q	BEP* Pa p	RPM	Spec. ratio <1.04
Single-phase	A-E 354 M	42258	A	STATIC	01-01-2013	NO	24.5	36.0	0.1506	1918	71	1289	YES
Single-phase	A-E 404 M	42260					26.5	37.0	0.2268	2792	81	1369	
Single-phase	A-E 454 M	42307					27.5	37.0	0.3015	3813	81	1357	
Single-phase	A-E 504 M	42316					32.2	41.0	0.3972	4749	101	1285	
Single-phase	A-E 506 M	42337					26.9	37.0	0.2513	3466	73	908	
Single-phase	A-E 566 M	42356					29.0	39.0	0.3080	4825	68	937	
Three-phase	A-E 354 T	42259					26.1	38.0	0.1536	1934	78	1324	
Three-phase	A-E 404 T	42261					29.2	40.0	0.2078	2376	96	1428	
Three-phase	A-E 454 T	42308					30.8	40.0	0.3049	3442	101	1384	
Three-phase	A-E 504 T	42327					32.9	41.0	0.4741	5056	116	1366	
Three-phase	A-E 506 T	42346					26.5	37.0	0.2174	3223	67	956	
Three-phase	A-E 564 T	42336					36.6	44.0	0.7527	6528	159	1349	
Three-phase	A-E 566 T	42366					27.7	36.0	0.4091	5102	83	915	
Three-phase	A-E 636 T	42347					33.8	43.0	0.410	6309	82	923	

* Best efficiency point.

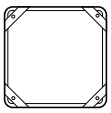
DIMENSIONS



Models	□A	Ø B	C	D	E	□F	Ø G	Kg
A-E 252 M	320	264	149	10	82	280	8	2.1
A-E 254 M								
A-E 254 T								2.5
A-E 304 M	380	316	151		84	330		3.0
A-E 304 T								3.4
A-E 354 M	450	359	155		43	380		4.0
A-E 354 T								
A-E 404 M	510	406	200	15	75	430	12	6.1
A-E 404 T			207		67			6.3
A-E 454 M	630	455	200		60	530		6.3
A-E 454 T			207		67			6.5
A-E 504 M		507	218		72		11	13.2
A-E 504 T			198		52			11.1
A-E 506 M			218		72			13.2
A-E 506 T			198		52			11.1
A-E 564 T	725	563	218		67	675		14.8
A-E 566 M					67			
A-E 566 T								
A-E 636 T	805	638			68	750		15.8

Dimensions (mm)

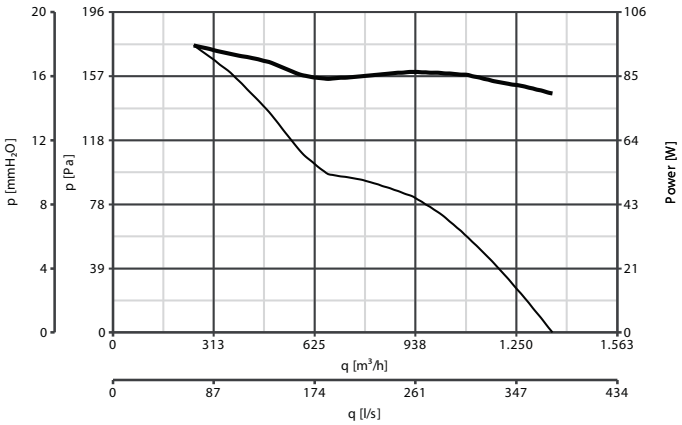
PRODUCT ACCESSORIES

Models		Code	Product																		
			A-E 252 M code 42207	**A-E 254 M** code 42208	**A-E 304 M** code 42216	**A-E 354 M** code 42258	**A-E 404 M** code 42260	**A-E 454 M** code 42307	**A-E 504 M** code 42316	**A-E 506 M** code 42337	**A-E 566 M** code 42356	**A-E 254 T** code 42357	**A-E 304 T** code 42227	**A-E 354 T** code 42259	**A-E 404 T** code 42261	**A-E 454 T** code 42308	**A-E 504 T** code 42327	**A-E 506 T** code 42346	**A-E 564 T** code 42336	**A-E 566 T** code 42366	**A-E 636 T** code 42347
	**IRM 30** Three position single-phase speed controller	**12921**					●			●											
	IRT 15 Three position three-phase speed controller	**12923**										●	●	●	●						
	IRT 35 Three-phase variable voltage drive	**12924**													●	●	●	●	●	●	●
	**IREM 3** Single-phase speed controller	**12931**	●	●	●	●	●		●		●										
	**C 1.5** Electronic speed controller	**12966**	●	●	●	●															
	**DPU 250** Spacer for panel installation	**52151**	●	●								●									
	DPU 300 Spacer for panel installation	**52251**			●								●								
	DPU 350 Spacer for panel installation	**52351**				●								●							
	DPU 400 Spacer for panel installation	**52451**					●								●						

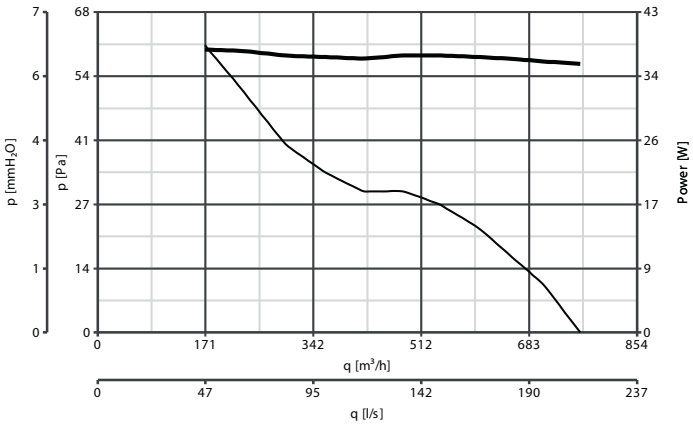
Description and sizes on page 325; System components on page 330.

PERFORMANCE CURVES

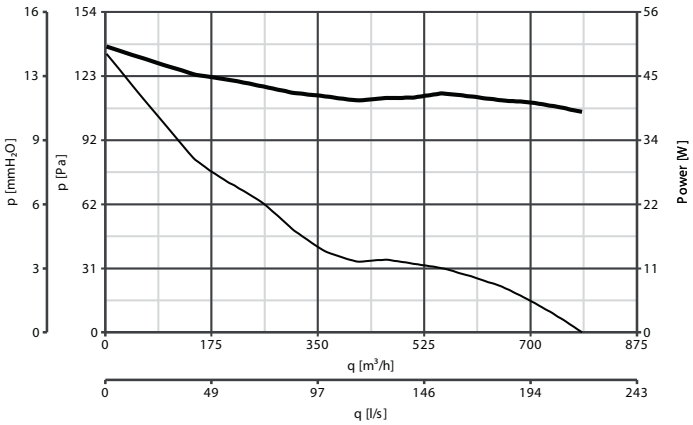
A-E 252 M code 42207



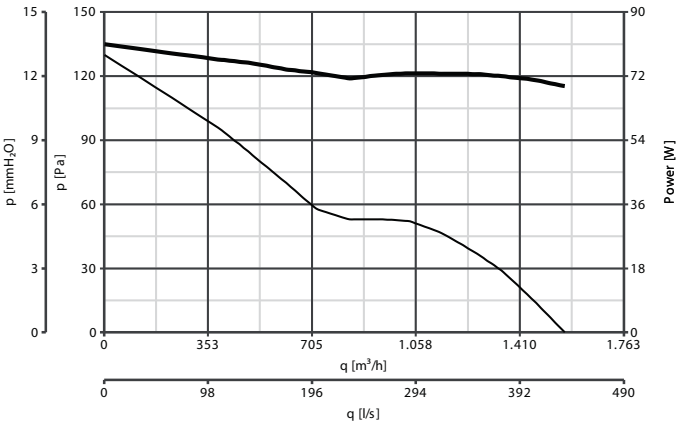
A-E 254 M code 42208



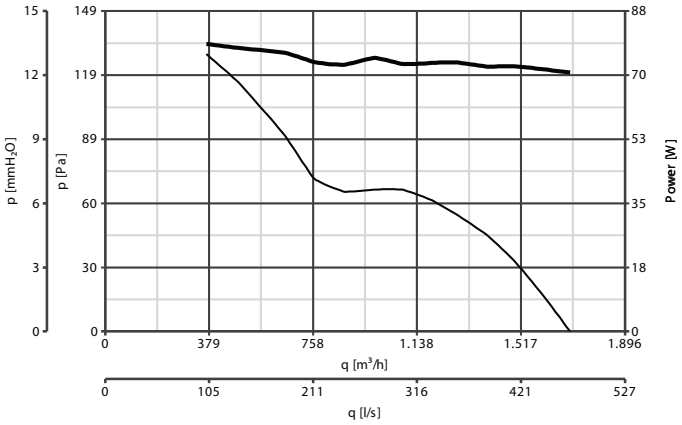
A-E 254 T code 42357



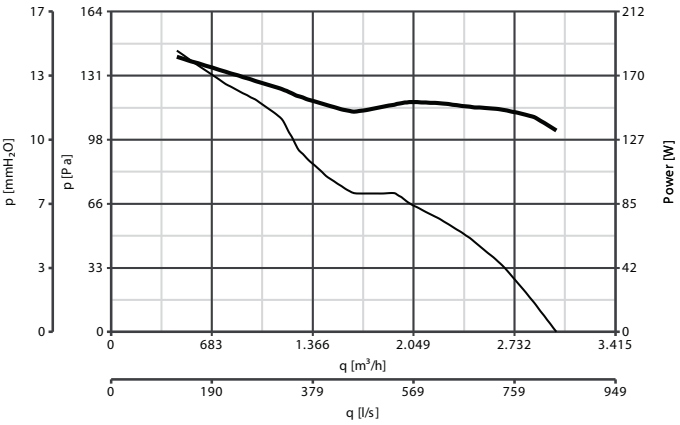
A-E 304 M code 42216



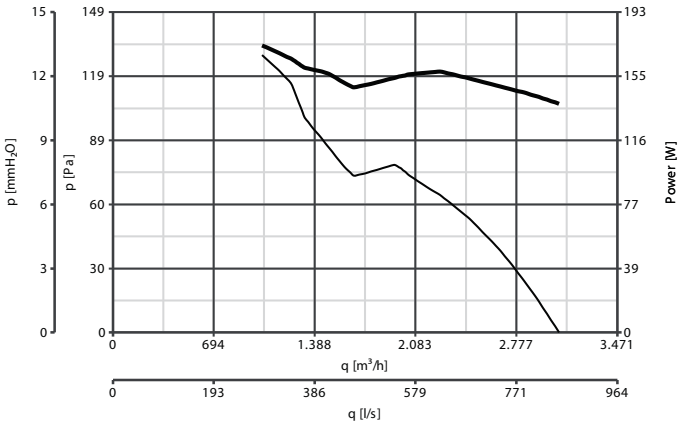
A-E 304 T code 42227



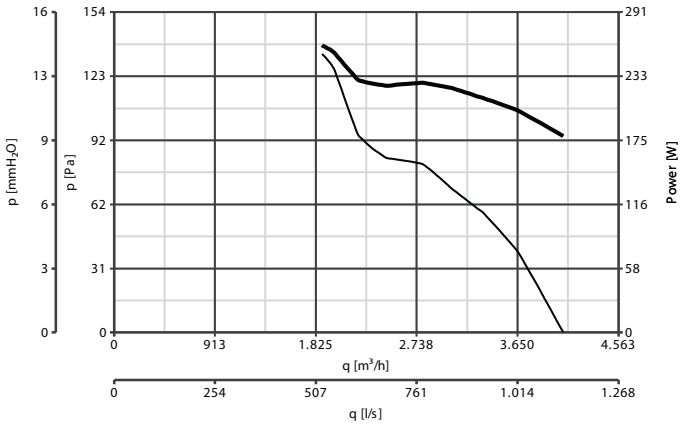
A-E 354 M code 42258



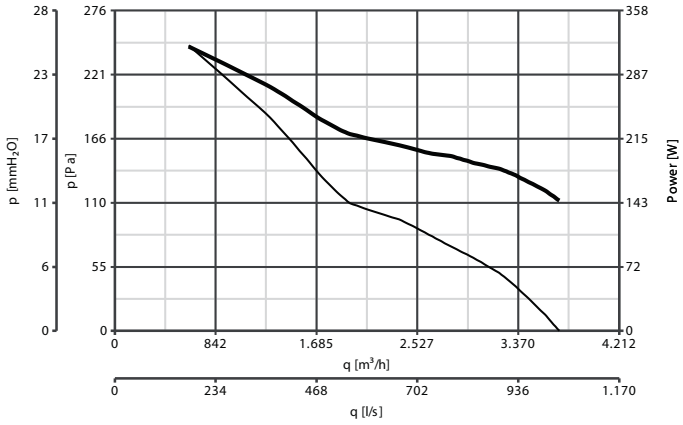
A-E 354 T code 42259



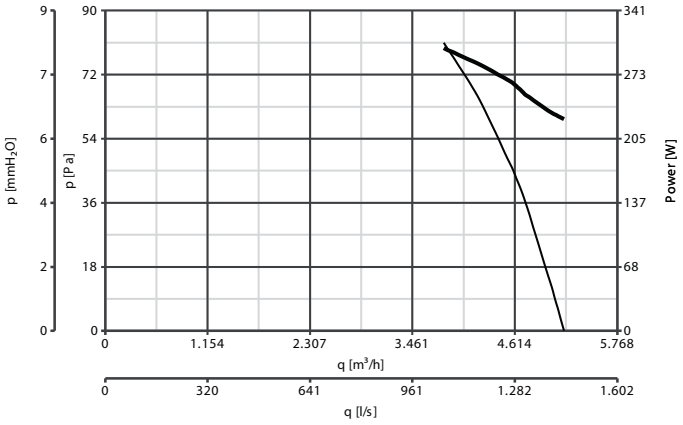
A-E 404 M code 42260



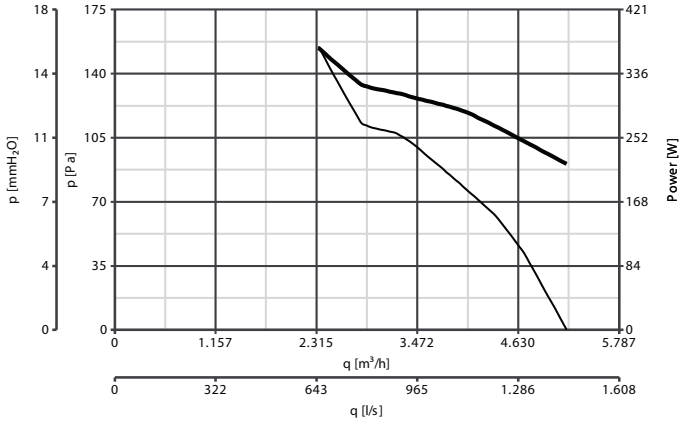
A-E 404 T code 42261



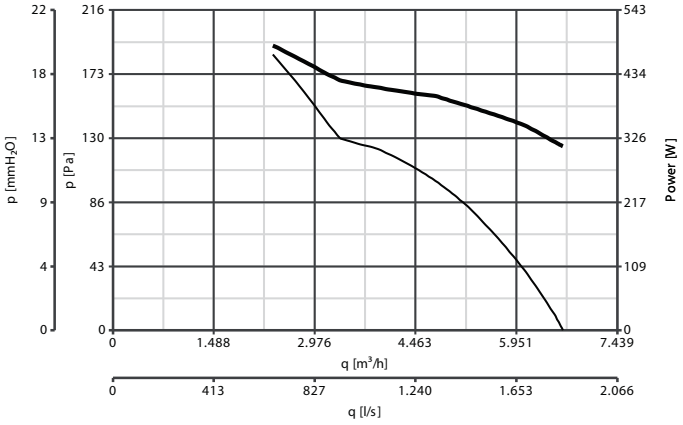
A-E 454 M code 42307



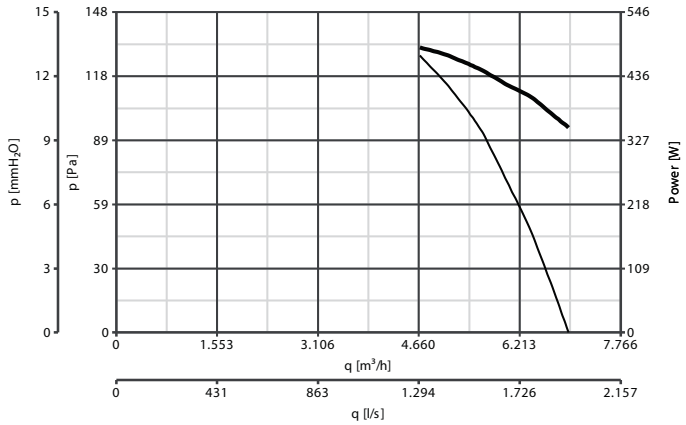
A-E 454 T code 42308



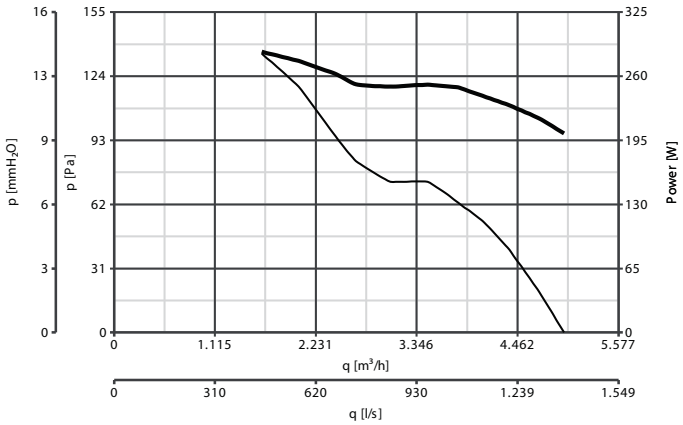
A-E 504 M code 42316



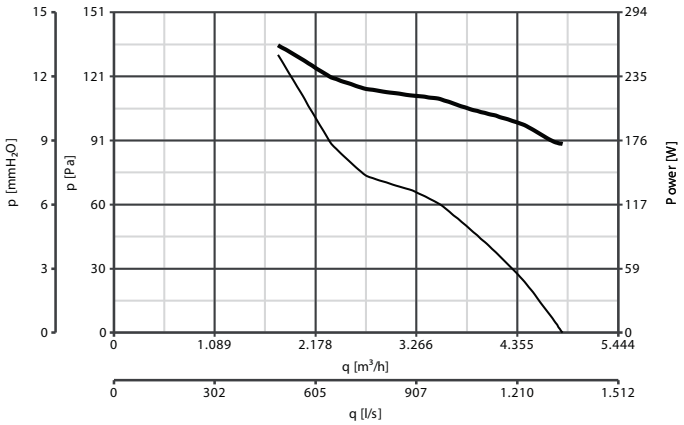
A-E 504 T code 42327



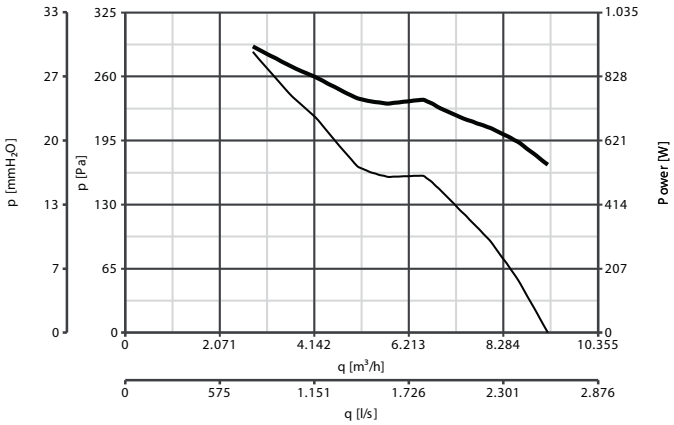
A-E 506 M code 42337



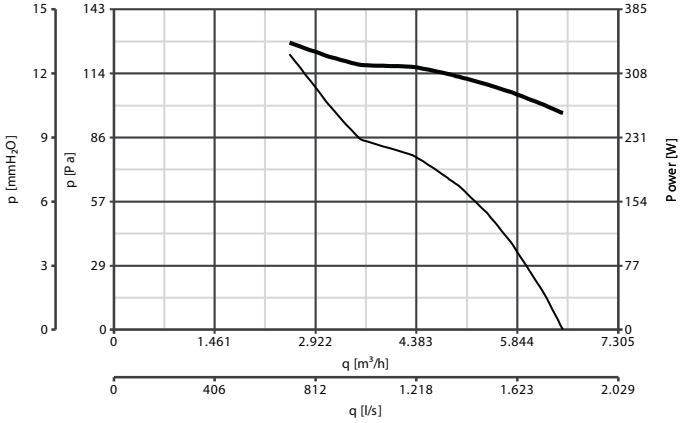
A-E 506 T code 42346



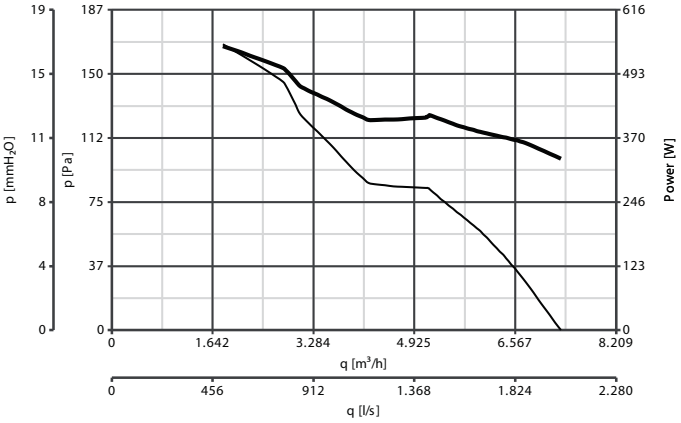
A-E 564 T code 42336



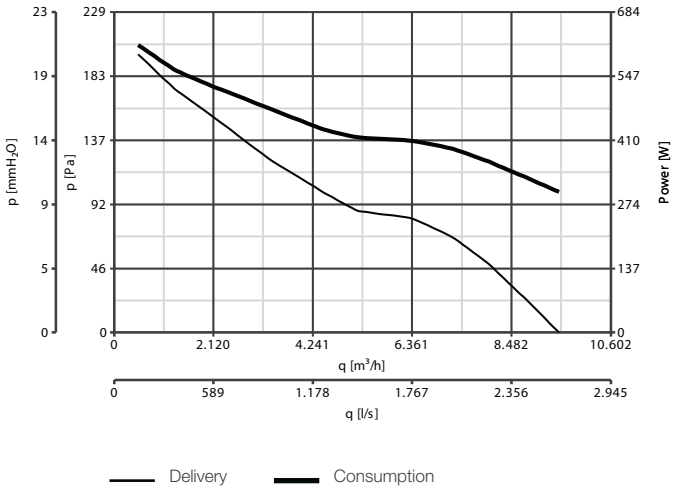
A-E 566 M code 42356



A-E 566 T code 42366

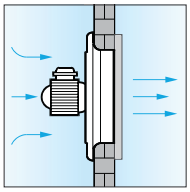


A-E 636 T code 42347



VORTICEL E RANGE

Low pressure plate axial fans



Suitable for commercial and industrial applications as garages, warehouses, gyms, dry cleaners, carpentry workshops, etc...

- **6 models**: ***4 single-phase*** *and* ***2 three-phase***
- Frames equipped with air intake with aerodynamic section, made using sheet steel protected with polyester paint.
- Asynchronous induction motor, rotor mounted on ball bearings with double lubricant screen.
- Impeller with blade profile, to reduce noise levels caused by air turbulence. Crushproof polypropylene blades with extra strength and stability, die-cast aluminium hub.
- Protective grille made using steel rings, protected by epoxy polyester paint, in black, can be removed for maintenance and cleaning.
- Wide range of continuous operation temperatures between -25°C and +50/+70°C.
- Electric supply 220-240 V / 50 Hz for single phase models, 380-415 V / 50 Hz for three phase models.
- Motor protection rating: IP44.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

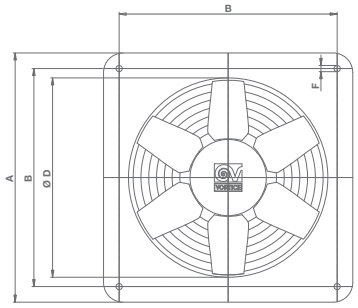
TECHNICAL DATA

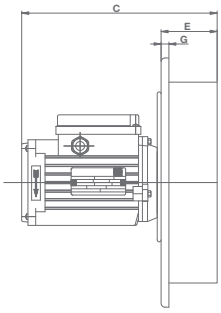
	Models	Code	V ~ 50 Hz	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A) a 3 m*	Max °C
Single-phase	E 252 M	40203	220 - 240	95 - 105	0.45 - 0.47	2	2800	1500	416.7	20	196	71	70
Single-phase	E 254 M	40303	220 - 240	55 - 65	0.31 - 0.39	4	1400	1000	277.8	6.7	66	50.5	60
Single-phase	E 304 M	40503	220 - 240	55 - 70	0.33 - 0.40	4	1400	1360	377.8	7.5	74	54	65
Single-phase	E 354 M	40703	220 - 240	85 - 95	0.44 - 0.45	4	1400	1850	514	4.6	45	66.5	65
Three-phase	E 254 T	40356	220 - 380 240 - 415	55 70	0.35 - 0.20 0.40 - 0.23	4	1400	1000	277.8	7.3	71	53	55
Three-phase	E 304 T	40556	220 - 380 240 - 415	65 80	0.32 - 0.19 0.38 - 0.22	4	1400	1400	389	8.2	81	53	50
Three-phase	E 354 T	40756	220 - 380 240 - 415	90 100	0.34 - 0.20 0.38 - 0.22	4	1400	1900	528	7.1	70	61.0	60
Single-phase	E 302 M	40403	220 - 240	190 - 195	0.85 - 0.90	2	2800	2350	653	31.5	309	66.0	70
Single-phase	E 404 M	40903	220 - 240	190 - 200	0.90 - 0.95	4	1400	3150	875	12.0	118	57.0	70
Single-phase	E 454 M	41153	220 - 240	195 - 210	0.93 - 0.95	4	1400	3900	1083	9.0	88	66.0	70
Single-phase	E 504 M	41219	220 - 240	200 - 220	0.90 - 0.92	4	1400	4500	1250	6.0	59	61.5	70
Single-phase	E 604 M	41459	220 - 240	320 - 345	1.45 - 1.45	4	1400	7000	1944	8.2	80	69.0	65
Three-phase	E 302 T	40456	220 - 380 240 - 415	180 200	0.78 - 0.44 0.40 - 0.23	2	2800	2400	667	32.5	319	65.0	70
Three-phase	E 404 T	40956	220 - 380 240 - 415	190 200	0.60 - 0.35 0.65 - 0.38	4	1400	3200	889	17.7	174	60.0	70
Three-phase	E 454 T	41154	220 - 380 240 - 415	230 240	0.69 - 0.40 0.72 - 0.42	4	1400	3900	1083	15.0	147	66.0	70
Three-phase	E 504 T	41157	220 - 380 240 - 415	235 245	0.74 - 0.43 0.74 - 0.43	4	1400	4800	1333	11.7	115	61.5	70
Three-phase	E 506 T	41206	220 - 380 240 - 415	145 165	0.43 - 0.25 0.46 - 0.27	6	1000	3900	1083	6.8	67	56.0	70
Three-phase	E 604 T	41457	220 - 380 240 - 415	360 380	1.00 - 0.62 1.00 - 0.62	4	1400	7700	2139	14.5	142	69.5	70
Three-phase	E 606 T	41506	220 - 380 240 - 415	145 165	0.44 - 0.26 0.46 - 0.27	6	1000	4800	1333	4.7	46	65.0	70

*Available only for the Extra EU market****

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

DIMENSIONS

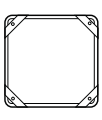




Models	Ø nom.	⧅A	⧅B	C	Ø D	E	Ø F	G	Kg
E 252 M	250	320	280	201	256	68	8	10	3.5
E 254 M **E 254 T**									3
E 302 M **E 302 T**	315	380	330	254	308	70			
E 304 M **E 304 T**	315	380	330	203	308	70			
E 354 M **E 354 T**	355	450	380		360				4
E 404 M **E 404 T**	400	510	430	274	410	90			5.0
E 454 M **E 454 T**	450	630	530	269	460	85			7
E 504 M **E 504 T**	500				510				8.6
E 506 T				270			12	15	8.5
E 604 M **E 604 T**	630	760	630	283	610	100			10.0
E 606 T				285					

Dimensions (mm)

PRODUCT ACCESSORIES

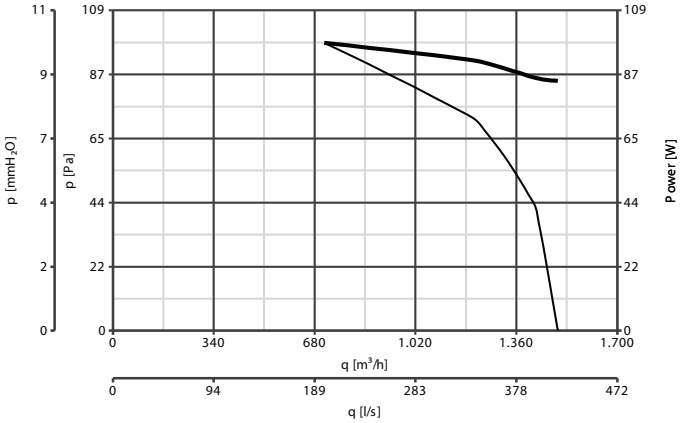
Models		Code	Product																		
			E 252 M code 40203	**E 254 M** code 40303	**E 302 M** code 40403	**E 304 M** code 40503	**E 354 M** code 40703	**E 404 M** code 40903	**E 454 M** code 41153	**E 504 M** code 41219	**E 604 M** code 41459	**E 254 T** code 40356	**E 302 T** code 40456	**E 304 T** code 40556	**E 354 T** code 40756	**E 404 T** code 40956	**E 454T** code 41154	**E 504 T** code 41157	**E 506 T** code 41206	**E 604 T** code 41457	**E 606 T** code 41506
	**IRM 30** Three position single-phase speed controller	**12921**	●	●	●	●	●	●	●	●	●										
	IRT 15 Three position three-phase speed controller	**12923**										●	●	●	●	●	●	●	●	●	●
	**IREM 3** Single-phase speed controller		●	●	●	●	●	●	●	●	●										
	**IREM 5** Single-phase speed controller*	**12932**	●	●	●	●	●	●	●	●	●										
	**IREM 9** Single-phase speed controller**	**12933**	●	●	●	●	●	●	●	●	●										
	**DPU 250** Spacer for panel installation	**52151**	●	●																	
	DPU 300 Spacer for panel installation	**52251**			●	●						●	●	●							
	DPU 350 Spacer for panel installation	**52351**					●								●						
	DPU 400 Spacer for panel installation	**52451**						●								●	●				

* Can control several fans up to a max of 5 A. ** Intended to simultaneously control appliances, up to a max of 9 A.

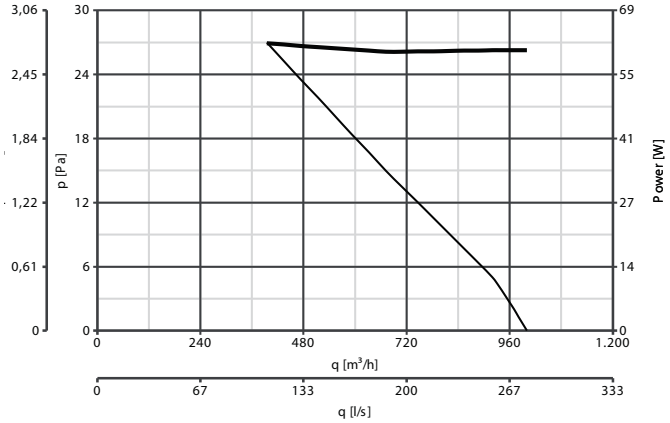
Description and sizes on page 325; System components on page 330.

PERFORMANCE CURVES

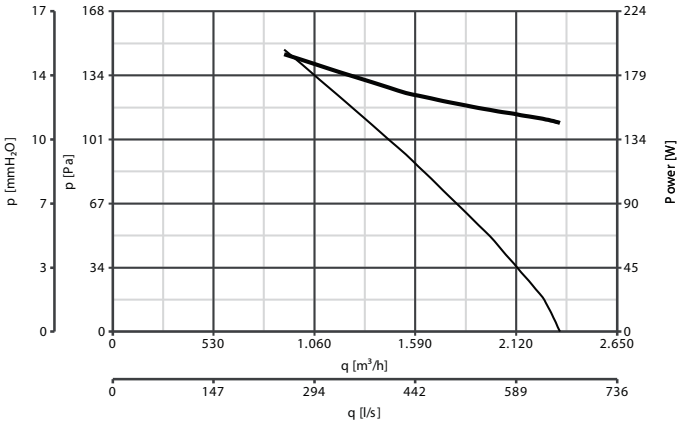
E 252 M code 40203



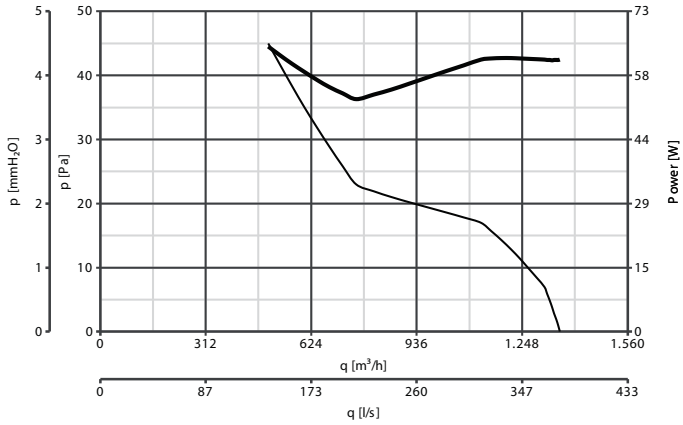
E 254 M code 40303



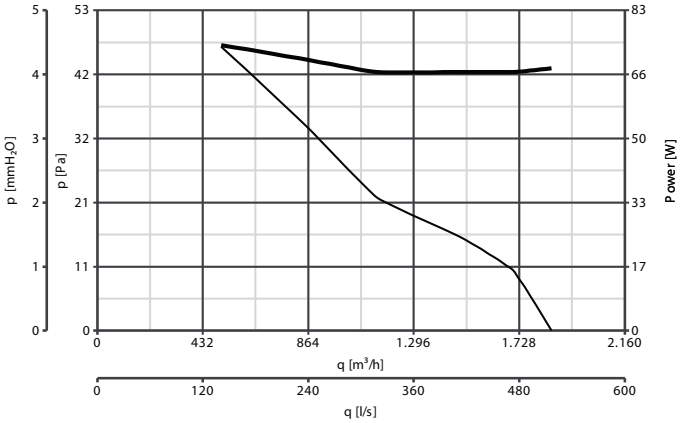
E 302 M code 40403



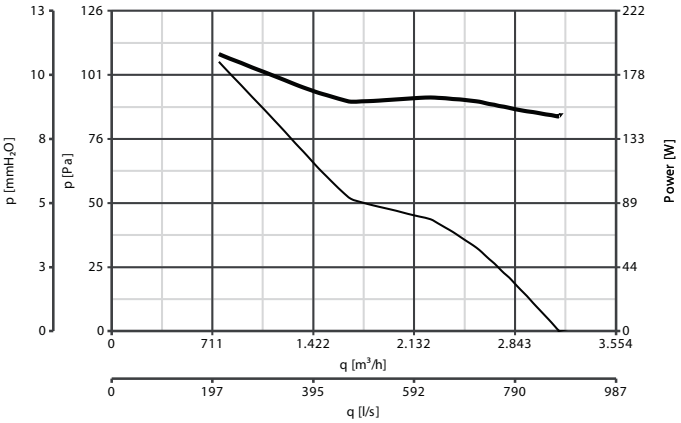
E 304 M code 40503



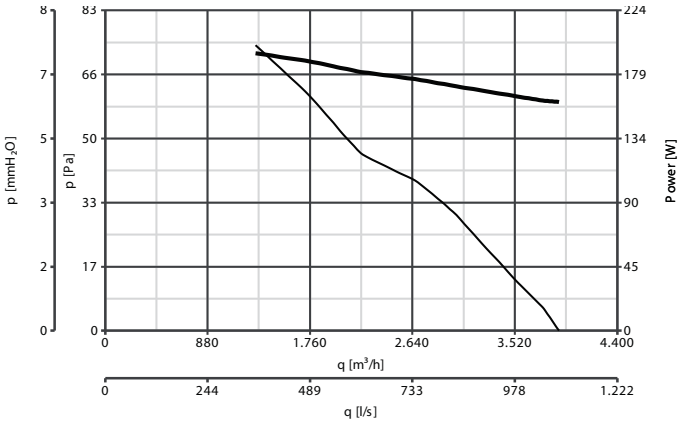
E 354 M code 40703



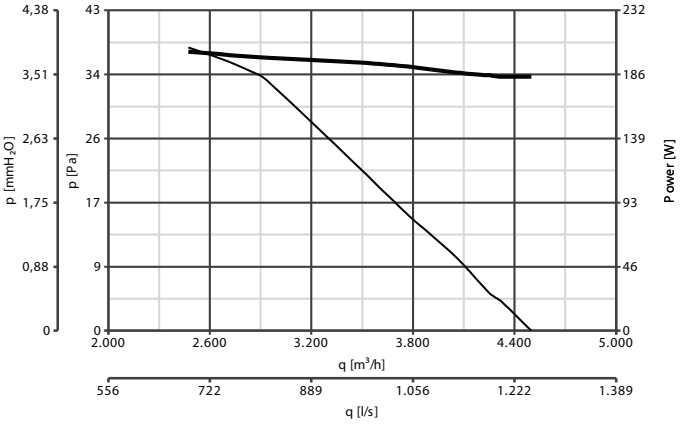
E 404 M code 40903



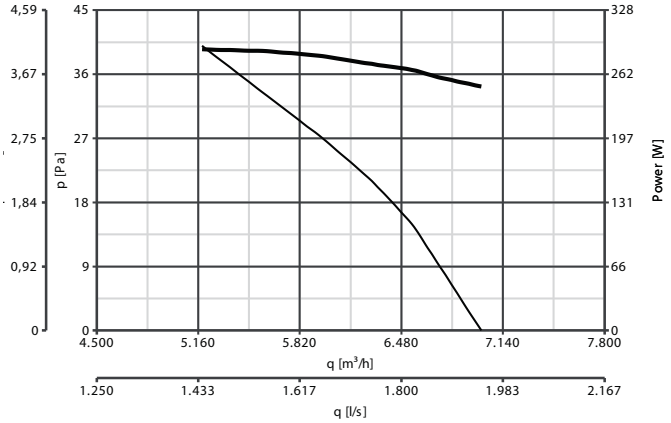
E 454 M code 41153



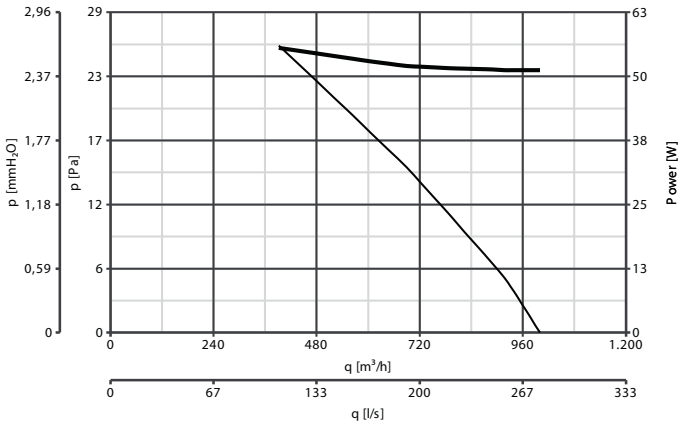
E 504 M code 41219



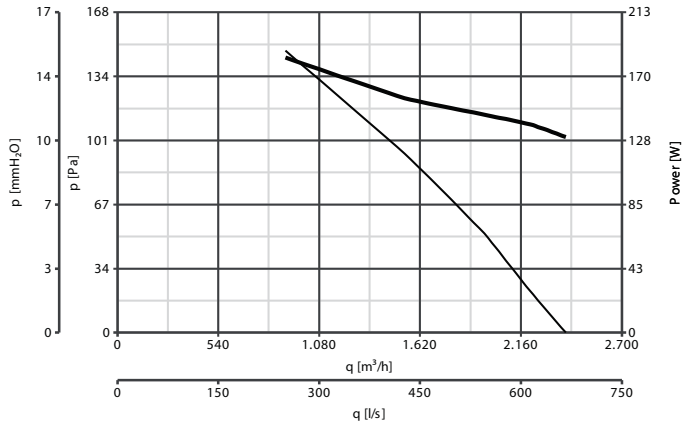
E 604 M code 41459



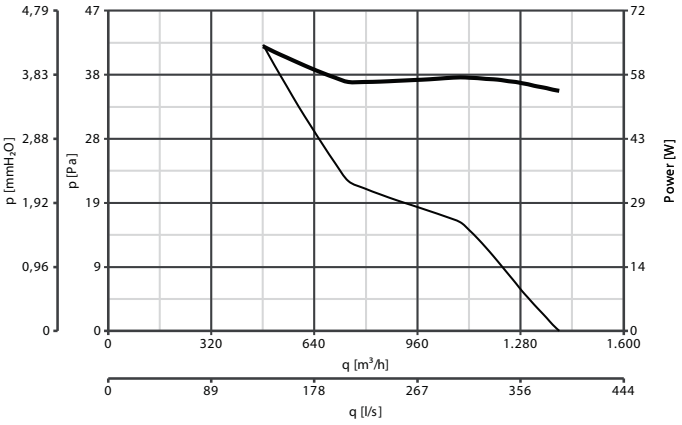
E 254 T code 40356



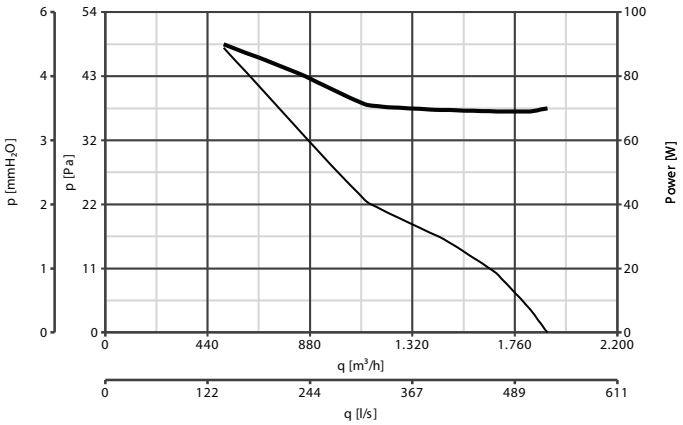
E 302 T code 40456



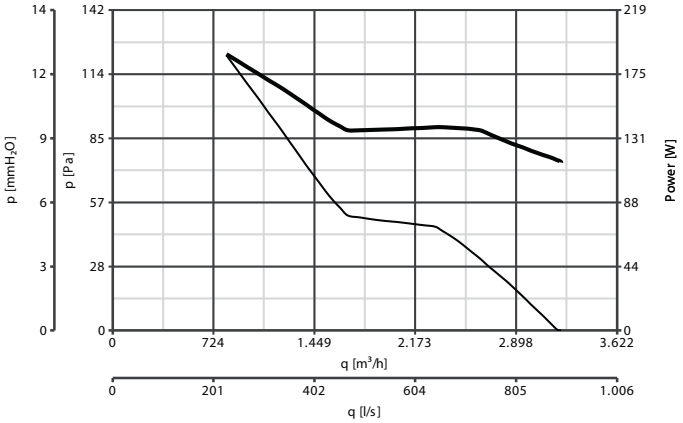
E 304 T code 40556



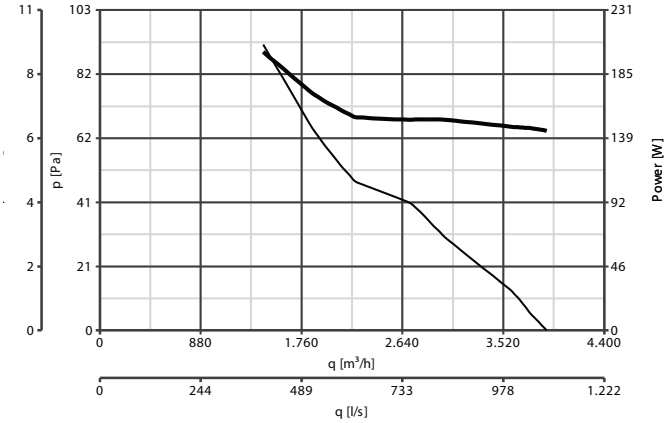
E 354 T code 40756



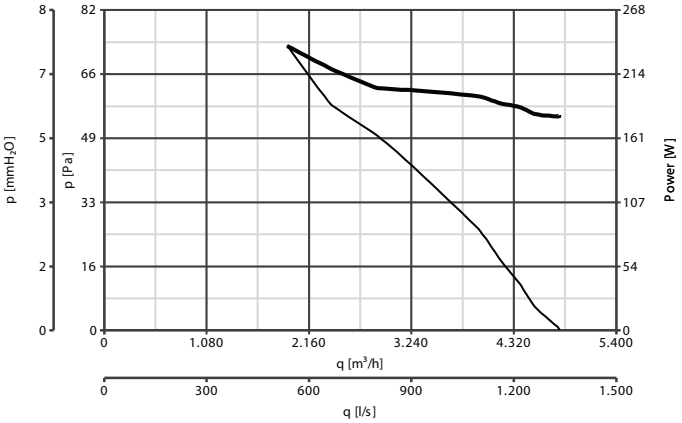
E 404 T code 40956



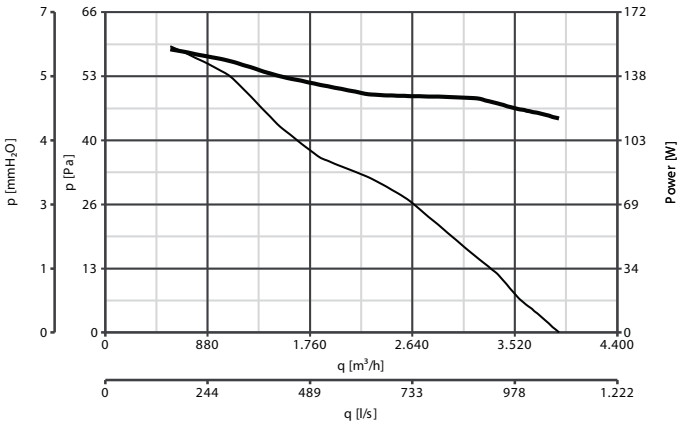
E 454 T code 41154



E 504 T code 41157



E 506 T code 41206



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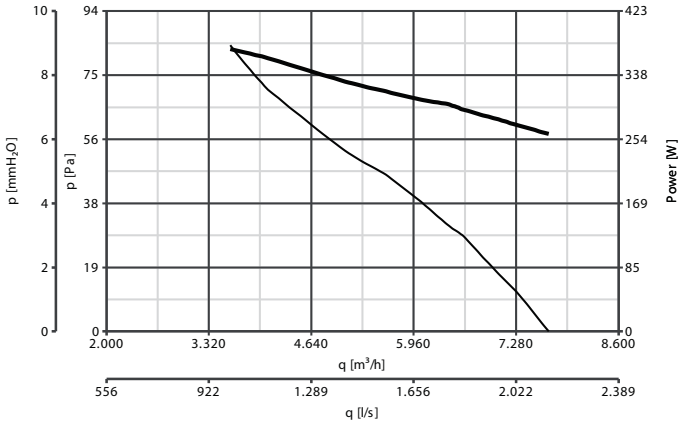
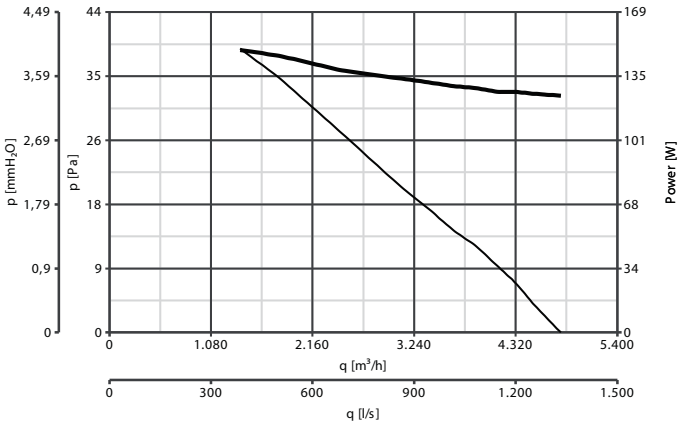


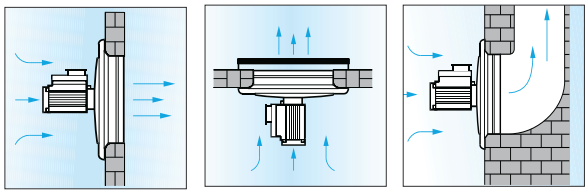
E 606 T code 41506



E ATEX RANGE

Axial plate-mounted fans for installation in potentially explosive areas

GAS DUST



Can be used in environments where the atmosphere might become explosive due to the presence of flammable substances in the form or gases and/or powders.

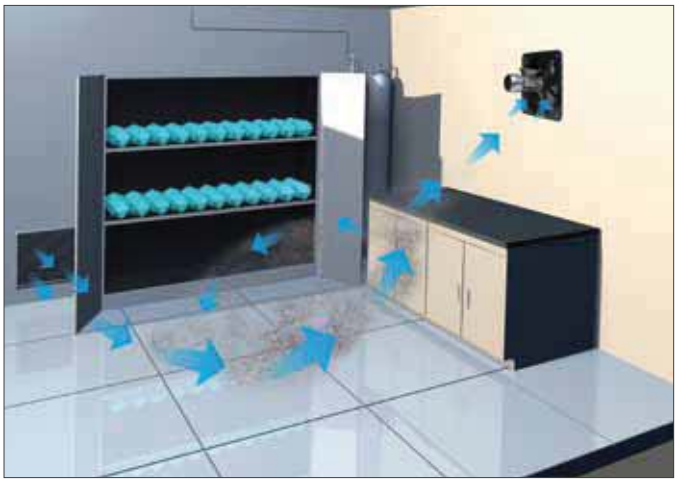
- **14 models: 5 single phase, 9 three phase**.
- 1 speed.
- Double-coated galvanised steel wire mesh over the outlet port.
- Double-coated galvanised steel wire mesh over the inlet port.
- Impeller with aluminium hub and plastic blades.
- Frames with double-coated sheet steel mesh and nozzle.
- In single phase models the condenser is housed in explosion-proof casing.
- Painting consisting of protective base coat and polyurethane finishing paint.
- Airflow up to 6900 m³/h.
- Constant operating temperature between -20°C and +40°C.
- Electric supply 230 V / 50 Hz for single phase models, 400 V / 50 Hz for three phase models.
- Protection ratings: IP65.
- Insulation class: I. ⏚
- *ATEX certified asynchronous induction motors.*
- *Metal cable gland for ATEX certified electrical connection.*
- *ATEX certified for use in areas at risk of explosion due to gases and/or dust particles.*
- *Constructed in compliance with EN 14986 standards governing. the design of fans operating in potentially explosive areas.*
- ***IMQ 10 ATEX 029 X certified.***
- ***GR II cat 2G/D b T4/135 X.***

Wiring diagrams shown from page 458

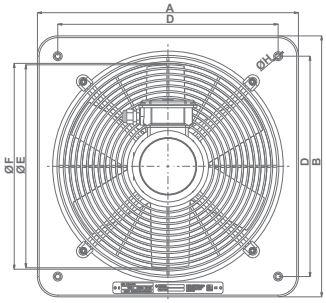
TECHNICAL DATA

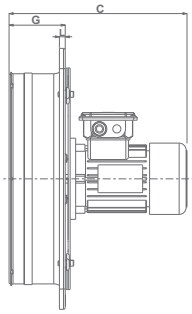
	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A) a 3 m*	Max °C
Single-phase	E 254 M ATEX	40301	167	0.75			1040	288.9	8.9	87.5	63.2	
	E 304 M ATEX	40302	175	0.77			1600	444.4	14	137.7	59.6	
	E 354 M ATEX	40304	204	0.97			2220	616.7	17.3	169.4	66	
	E 404 M ATEX	40306	294	1.27			3550	986.1	19.8	193.8	62	
	E 454 M ATEX	40308	346	1.50			4634	1287.2	19.1	187.6	70	
Three-phase	E 254 T ATEX	40309	121	0.49	4	1400	1050	291.7	9.6	94.2	59.6	
	E 304 T ATEX	40310	162	0.53			1585	440.3	14.1	138.3	62	
	E 354 T ATEX	40313	208	0.50			2550	708.3	18.4	180.5	66	
	E 404 T ATEX	40314	268	0.61			3480	966.7	17.4	170.3	64.8	
	E 454 T ATEX	40315	345	0.70			4443	1234.2	18.2	178.3	69.8	
	E 504 T ATEX	40316	293	0.64			4900	1361.1	17.7	173.8	72.7	
	E 506 T ATEX	40319	166	0.47	6	1000	3823	1061.9	10.1	99.2	64	
	E 604 T ATEX	40317	374	0.71	4	1400	6900	1916.7	20.8	203.7	75.4	
	E 606 T ATEX	40318	223	0.49	6	1000	5715	1587.5	12.2	119.4	65.5	

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.



DIMENSIONS



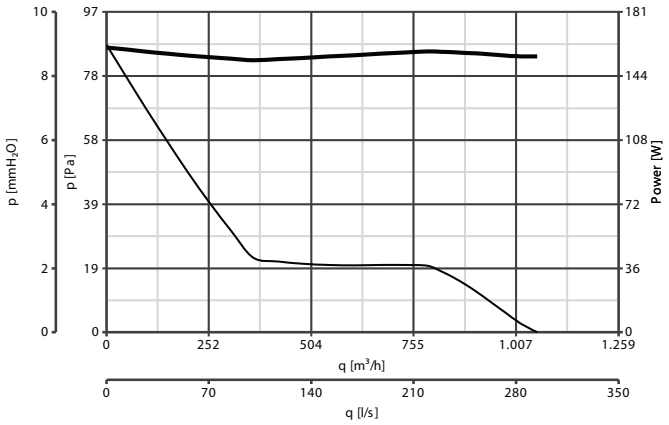


Models	Ø nom	A	B	C	D	Ø E	Ø F	G	Ø H	L	Kg
E 254 M ATEX	250	320	320	305	280	256	250	95	8	10	8
E 304 M ATEX	315	380	380	307	330	308	300	97			8.8
E 354 M ATEX	355	450	450		380	360	350				9.5
E 404 M ATEX	400	510	510	327	430	410	400	117	12	15	11.5
E 454 M ATEX	450	630	630	325	530	460	448	112			14
E 254 T ATEX	250	320	320	305	280	256	250	95	8	10	7
E 304 T ATEX	315	380	380	307	330	308	300	97			8
E 354 T ATEX	355	450	450	307	380	360	350				8.8
E 404 T ATEX	400	510	510	327	430	410	400	117	12	15	10.5
E 454 T ATEX	450	630	630	325	530	460	448	112			13.6
E 504 T ATEX	500					510	498				13.6
E 506 T ATEX				361							14.5
E 604 T ATEX	630	760	760	340	630	610	598	127			18
E 606 T ATEX				361							19.5

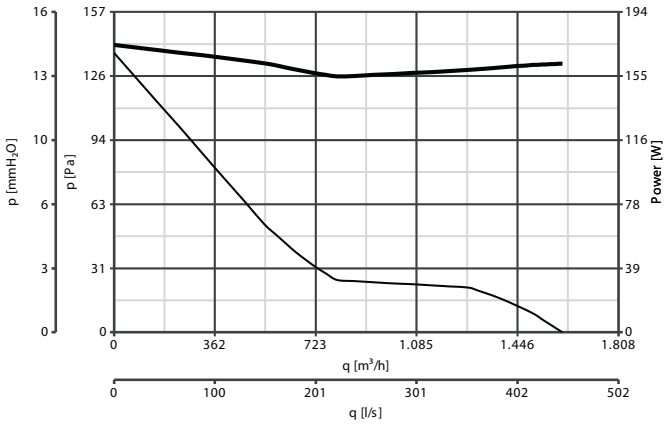
Dimensions (mm)

PERFORMANCE CURVES

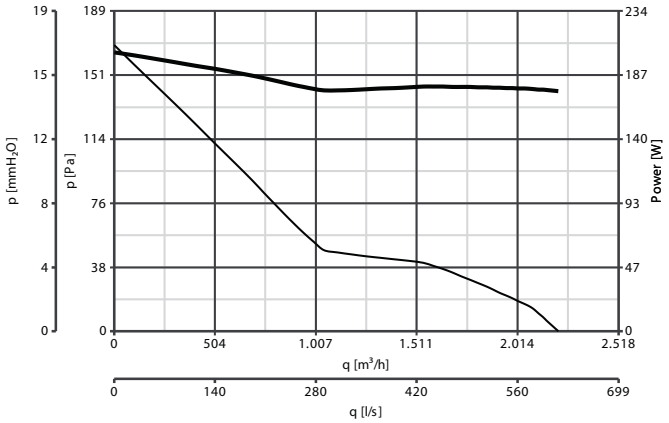
E 254 M ATEX code 40301



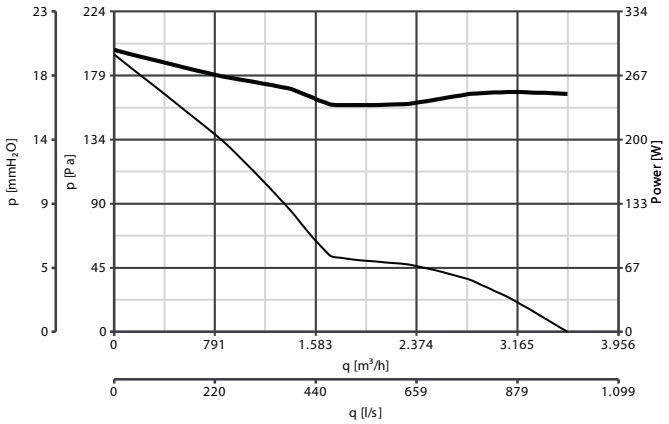
E 304 M ATEX ATEX code 40302



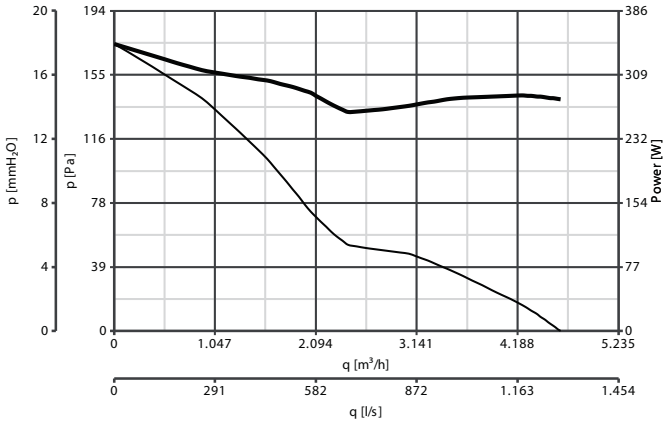
E 354 M ATEX code 40304



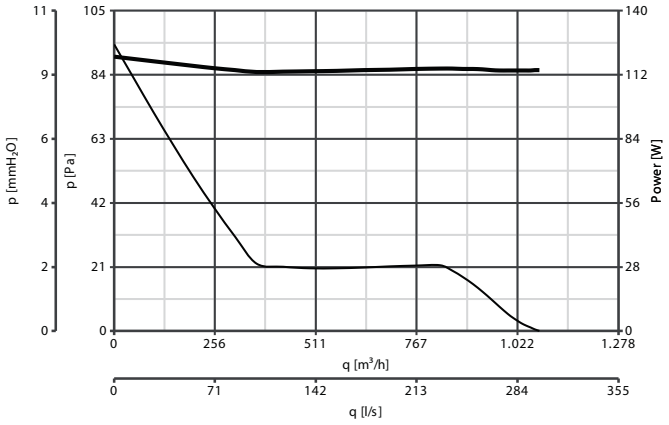
E 404 M ATEX code 40306



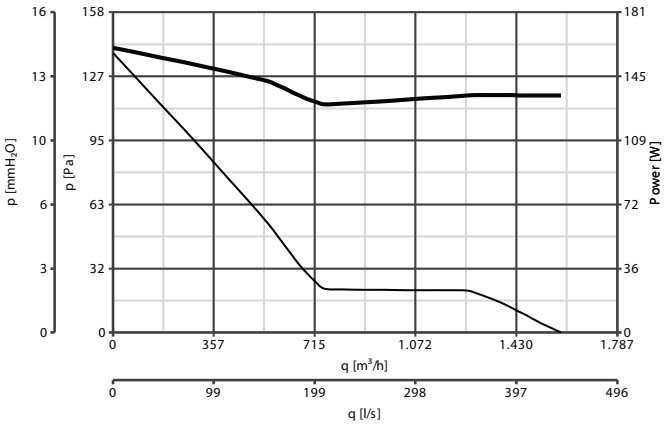
E 454 M ATEX code 40308



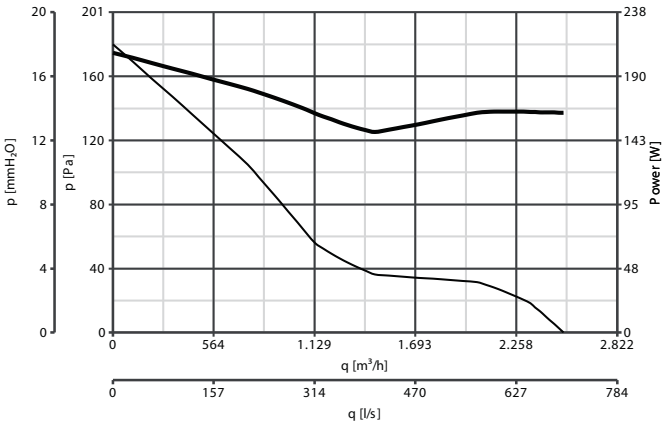
E 254 T ATEX code 40309



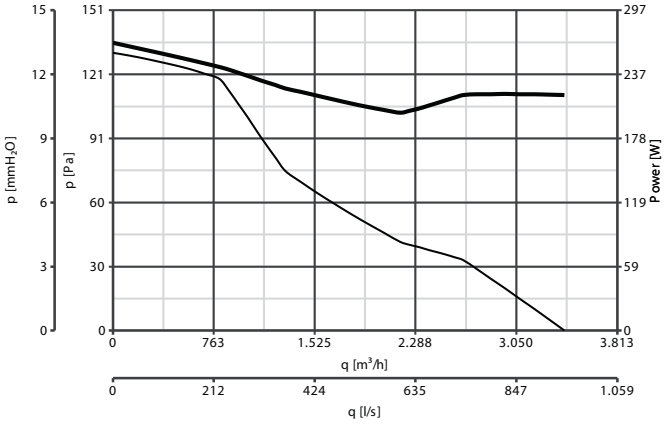
E 304 T ATEX code 40310



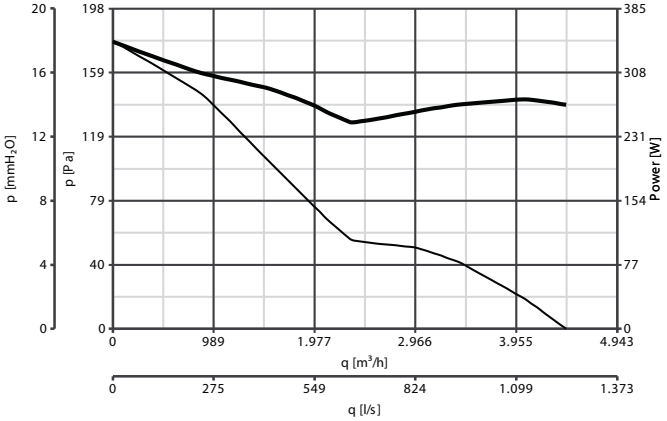
E 354 T ATEX code 40313



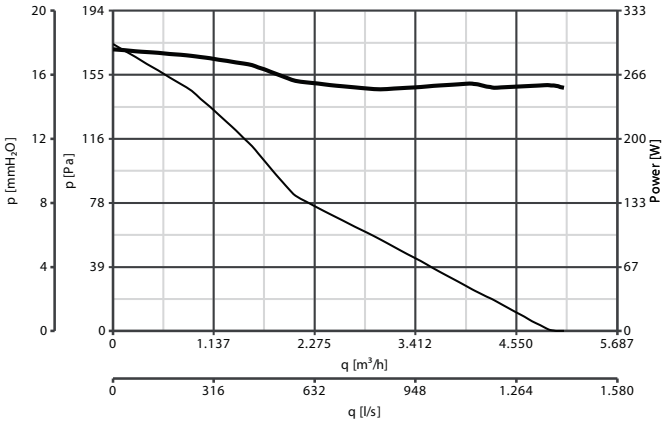
E 404 T ATEX code 40314



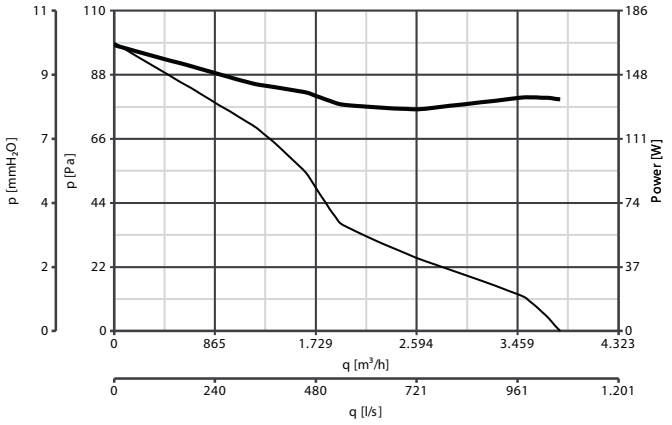
E 454 T ATEX code 40315



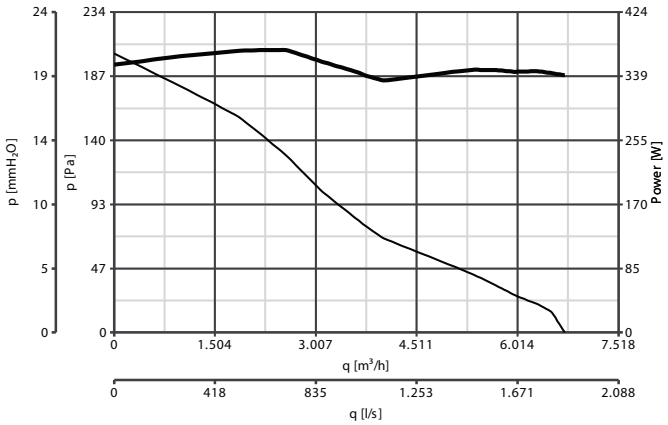
E 504 T ATEX code 40316



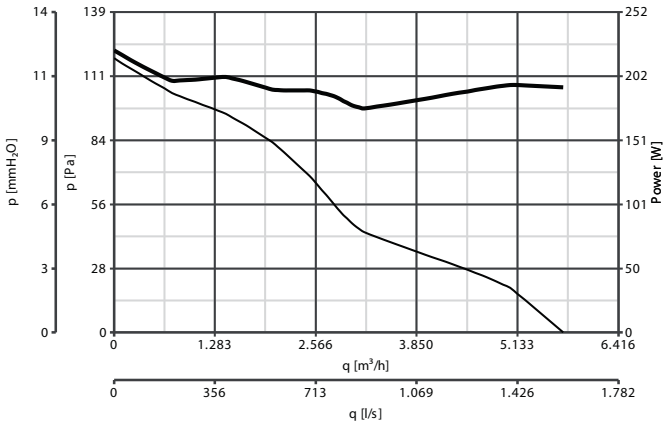
E 506 T ATEX code 40319



E 604 T ATEX code 40317



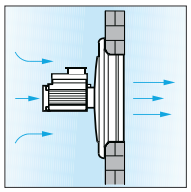
E 606 T ATEX code 40318

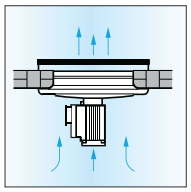


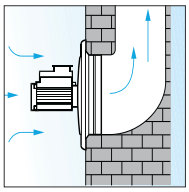
Delivery Consumption

VORTICEL MP RANGE

Medium-pressure plate axial fans







Suitable for business or industrial buildings such as halls, factories, warehouses, gyms, etc.

- **16 models: 6 single phase, 10 three phase**.
- Wing-profiled fan, superimposed for reducing air-turbulence noise, with high-strength, high-stability, polypropylene blades and diecast aluminium hub.
- Steel sheet-metal, polyesterpowder paint-protected frame with streamlined intake nozzle of the correct diameter, to permit easy air passage, and elongated to permit easy attachment to the outlet ducts.
- Asynchronous induction motor with IP55 protection and ballbearing-mounted rotor and double grease seals.
- Circular metal protection grille, with black epoxy-polyester paint finish, which can be easily removed for cleaning and maintenance.
- Electric supply 220-240 V - 50 Hz for single phase model; 220-380 V / 50 Hz and 240-415 V / 50 Hz for three phase model.
- Constant operating temperature between –25°C min. +70°C max.
- Protection rating: IP55.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

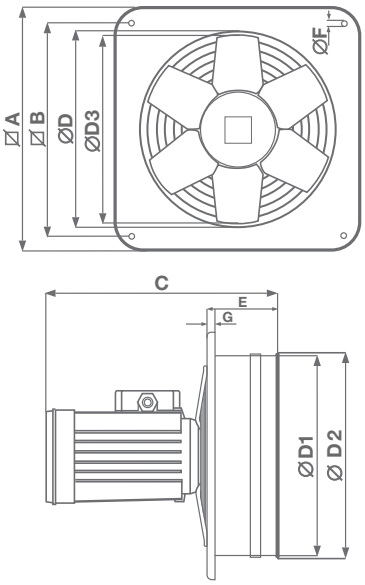
TECHNICAL DATA

*Avalable only for the Extra EU market****

	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A) a 3 m*	Max °C
Single-phase	MP 252 M	42252	205 - 230	1.00 - 1.00	2	2800	2000	56	41	402	70	70
Single-phase	MP 254 M	42254	60 - 65	0.29 - 0.29	4	1400	1150	319	13	127	53	
Single-phase	MP 302 M	42202	520 - 550	2.60 - 2.65	2	2800	3500	972	60	588	75	
Single-phase	MP 304 M	42204	120 - 130	0.55 - 0.55	4	1400	2200	611	13	127	59	
Single-phase	MP 354 M	42214	240 - 270	1.15 - 1.18			3150	875	18	177	64	
Single-phase	MP 404 M	42224	300 - 340	1.40 - 1.45			4300	1194	13	127	66	
Three-phase	MP 254 T	42354	60 65	0.35 - 0.20 0.35 - 0.20	4	1400	1150	319	12	118	53	
Three-phase	MP 302 T	42302	540 560	2.10 - 1.20 2.25 - 1.30	2	2800	3500	972	65	638	75	
Three-phase	MP 304 T	42304	120 130	0.41 - 0.24 0.41 - 0.24	4	1400	2200	611	15	147	59	
Three-phase	MP 354 T	42314	185 120	0.62 - 0.36 0.64 - 0.37			3150	875	18.4	180	64	
Three-phase	MP 404 T	42324	295 330	0.98 - 0.57 1.00 - 0.59			4350	1208	18	177	66	
Three-phase	MP 454 T	42335	730 780	3.00 - 1.75 3.00 - 1.75			6800	1889	34.6	339	66.5	
Three-phase	MP 504 T	42344	1100 1200	3.70 - 2.15 3.70 - 2.15			8800	2444	37	363	74	
Three-phase	MP 506 T	42334	400 430	1.90 - 1.12 1.90 - 1.12	6	1000	6100	1694	17	167	63.5	
Three-phase	MP 604 T	42374**	2200 2350	7.60 - 4.40 7.60 - 4.40	4	14000	14500	4028	39.6	388	79.5	
Three-phase	MP 606 T	42364	730 760	3.20 - 1.90 3.20 - 1.90	6	1000	10000	2778	18	177	68.5	

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

DIMENSIONS



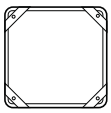
Models	Ø nom	⍁A	⍁B	C	Ø D	Ø D 1	Ø D 2	Ø D 3	E	Ø F	G	Kg
MP 252 M	250	320	280	279	256	258.5	264	250	92	8	10	6.1
MP 254 M												
MP 254 T												
MP 302 M	315	380	330	308	308	310.5	316	300	94			9.4
MP 302 T												
MP 304 M												6.9
MP 304 T												
MP 354 M	355	450	380	288	360	362.5	368	350				10.2
MP 354 T												
MP 404 M	400	510	430	308	410	412.5	418	400	114	12	15	11.2
MP 404 T												
MP 454 T	450	630	530	381	460	462.5	468	450	109			18.5
MP 504 T	500	630	530	381	510	512.5	518	500	109			19.2
MP 506 T												19.3
MP 604 T	630	760	630	430	610	612.5	618	600	124			28.1
MP 606 T												28.2

Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	Product															
			MP 252 M code 42252	**MP 254 M** code 42254	**MP 302 M** code 42202	**MP 304 M** code 42204	**MP 354 M** code 42214	**MP 404 M** code 42224	**MP 254 T** code 42354	**MP 302 T** code 42302	**MP 304 T** code 42304	**MP 354 T** code 42314	**MP 404 T** code 42324	**MP 454 T** code 42335	**MP 504 T** code 42344	**MP 506 T** code 42334	**MP 604 T** code 42374	**MP 606 T** code 42364
	**IRM 30** Three position single-phase speed controller	**12921**		●		●												
	IRM 40 Three position single-phase speed controller	**12922**	●		●		●	●										
	IRT 15 Three position three-phase speed controller	**12923**							●		●	●	●					
	IRT 35 Three position three-phase speed controller	**12924**								●				●	●	●		●
	IRT 40 Three position three-phase speed controller	**12927**															●	
	**IREM 3** Single-phase speed controller	**12931**	●			●	●	●										
	IREM 5 Single-phase speed controller*	**12932**	●		●	●	●	●										
	IRET 6 Three-phase speed controller*	**12934**																
	IREM 9 Single-phase speed controller**	**12933**	●			●	●	●									●	

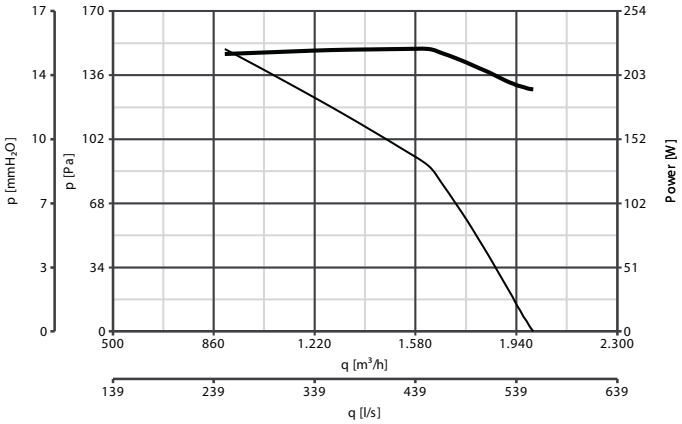
* Can control several fans up to a max of 5 A. ** Intended to simultaneously control appliances, up to a max of 9 A.

Models		Code	Product															
			MP 252 M code 42252	**MP 254 M** code 42254	**MP 302 M** code 42202	**MP 304 M** code 42204	**MP 354 M** code 42214	**MP 404 M** code 42224	**MP 254 T** code 42354	**MP 302 T** code 42302	**MP 304 T** code 42304	**MP 354 T** code 42314	**MP 404 T** code 42324	**MP 454 T** code 42335	**MP 504 T** code 42344	**MP 506 T** code 42334	**MP 604 T** code 42374	**MP 606 T** code 42364
	**DPU 250** Spacer for panel installation	**52151**	●	●					●									
	DPU 300 Spacer for panel installation	**52251**			●	●				●	●							
	DPU 350 Spacer for panel installation	**52351**					●					●						
	DPU 400 Spacer for panel installation	**52451**						●					●					

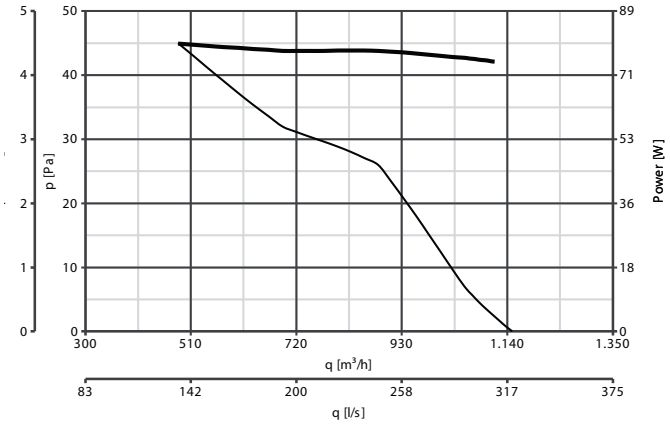
Description and sizes on page 1325; System components on page 330

PERFORMANCE CURVES

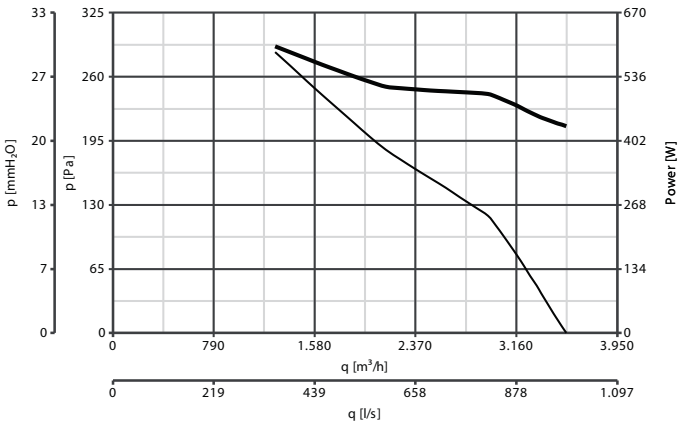
MP 252 M code 42252



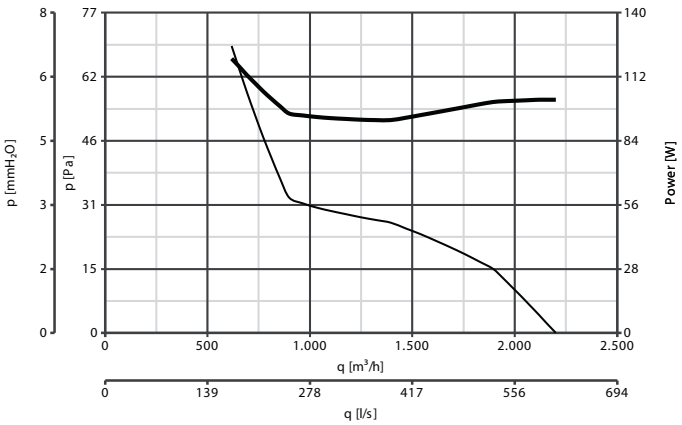
MP 254 M code 42254



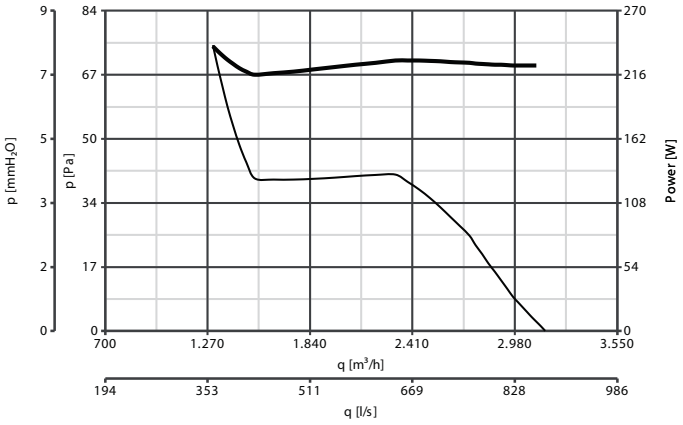
MP 302 M code 42202



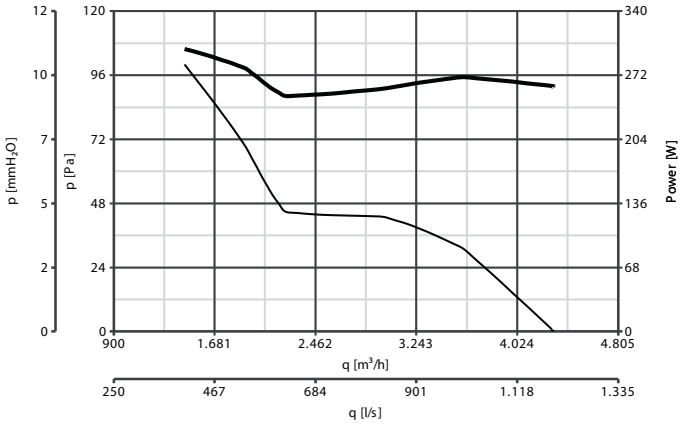
MP 304 M code 42204



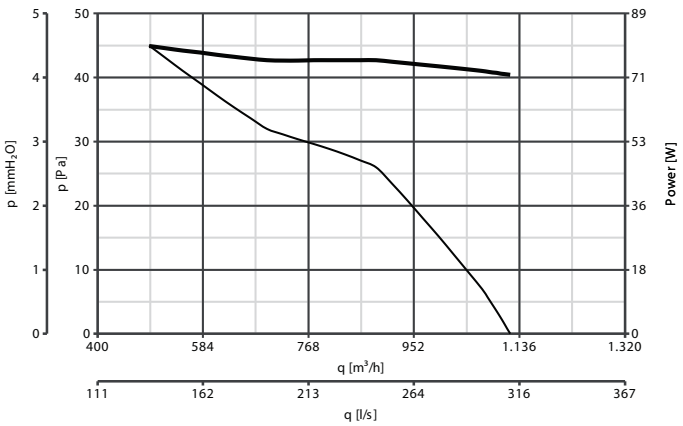
MP 354 M code 42214



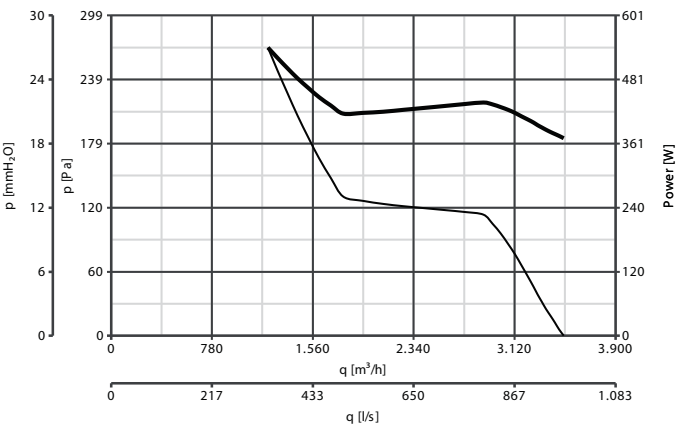
MP 404 M code 42224



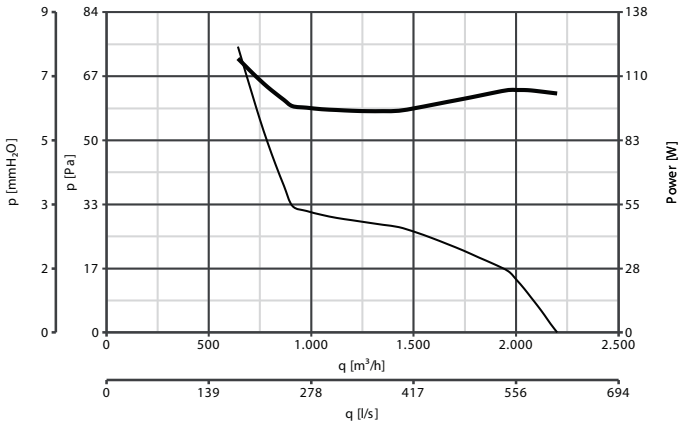
MP 254 T code 42354



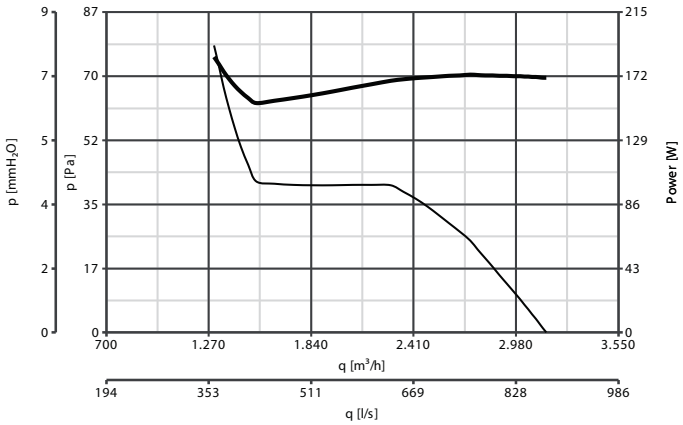
MP 302 T code 42302



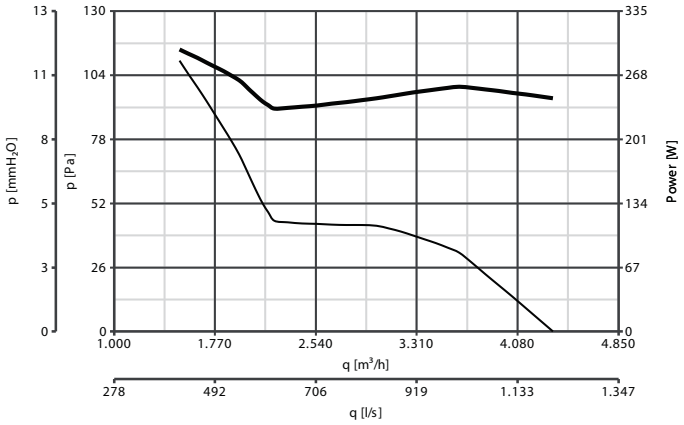
MP 304 T code 42304



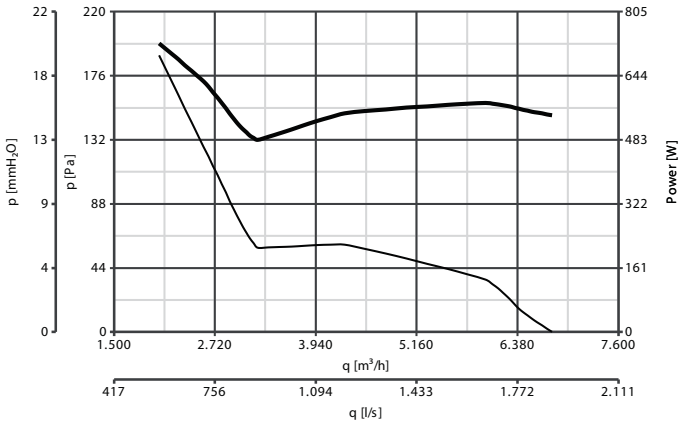
MP 354 T code 42314



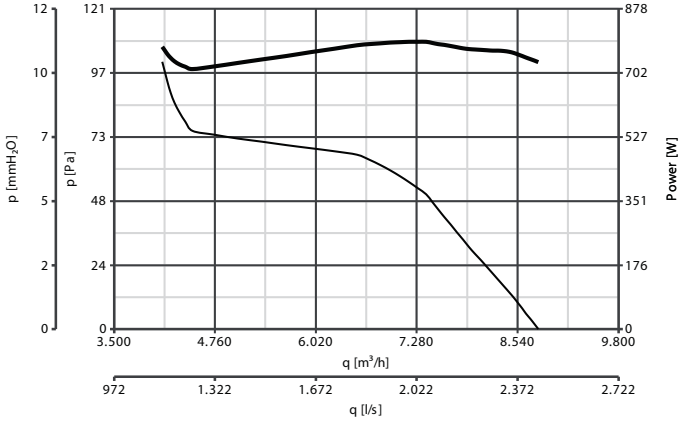
MP 404 T code 42324



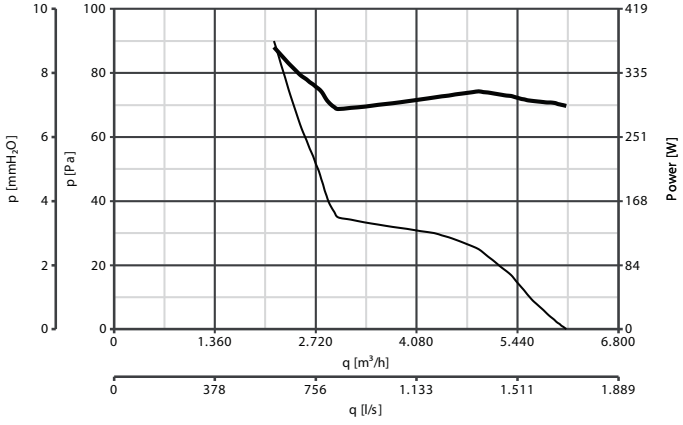
MP 454 T code 42335



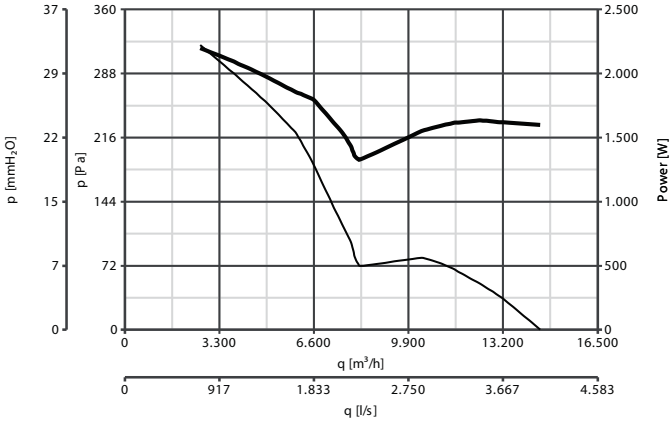
MP 504 T code 42344



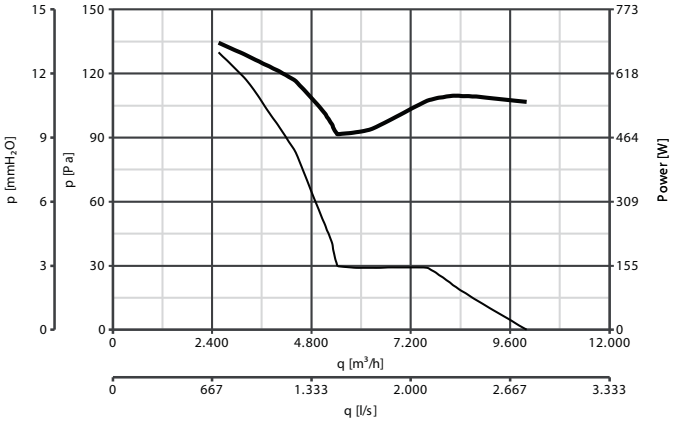
MP 506 T code 42334



MP 604 T code 42374



MP 606 T code 42364

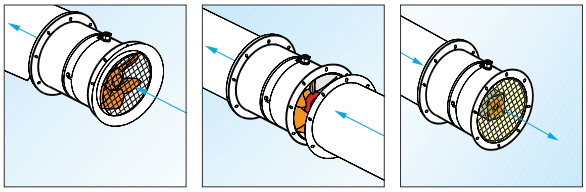


Delivery Consumption

NEW

VORTICEL MPC-E RANGE

Medium-pressure long cased axial fans



Suitable for commercial and industrial application as warehouses, farm buildings, greenhouses and underground car parks, for extraction into a ventilation duct or directly outdoors.

- **10 models**: ***5 single-phase*** *and* ***5 three-phase***.
- Structure consisting of two flanged parts, held together by screws, allowing connection to standardised pipes.
- Single-phase and three-phase class F, AC motors with impellers with blade profile.
- Steel motor support protected by black epoxy polyester paint.
- Motors in class F.
- Wide range of continuous operation temperatures between -25°C and +70°C; -25°C and +50°C for 404 M model.
- Electric supply 230 V / 50 Hz for single-phase models and 400 V / 50 Hz for three-phase models.
- Protection rating: IPX4.
- Insulation class: I.
- *Complying with the requirements of Regulation N° 327/2011/UE (Lot 11, 1st Tier) set out by the EUP/ErP Directive, effective starting from 01.01.2013.*

Wiring diagrams shown from page 458

TECHNICAL DATA

	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH₂O	Max Pressure Pa	Lp dB(A)*	Lw dB(A)*	Max °C
Single-phase	MPC-E 254 M	42263	70	0.32	4	1460	1180	328	9	82	25.3	45.8	70
	MPC-E 302 M	42209	380	1.93	2	2930	2860	794	60.9	597	53.1	73.6	70
	MPC-E 304 M	42210	110	0.5	4	1390	2160	600	10.1	99	34.8	55.3	70
	MPC-E 354 M	42217	200	0.95		1420	3500	972	14.2	139	41.7	62.2	70
	MPC-E 404 M	42228	313	1.5		1417	5000	1389	17	167	49.1	69.6	50
Three-phase	MPC-E 254 T	42359	60	0.21		1460	1210	336	8.2	80	25.3	45.8	70
	MPC-E 302 T	42309	397	1.15	2	2930	2900	805	62	608	53.1	73.6	70
	MPC-E 304 T	42310	107	0.24	4	1400	2250	625	10.4	102	34.8	55.3	70
	MPC-E 354 T	42317	198	0.42		1412	3770	1047	14.2	139	42.5	63	70
	MPC-E 404 T	42328	285	0.52		1345	5200	1444	14.9	146	49.4	69.9	70

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 9614.

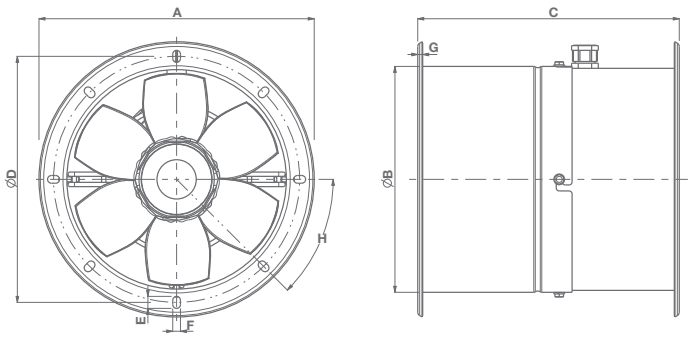
ErP data

Directive 2009/125/EC ErP (Energy related Products)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	BEP* η	BEP* N.	BEP* (kW) Pe	BEP* m³/h q	BEP* Pa p	BEP* RPM	Spec. ratio <1.04
Single-phase	MPC-E 302 M	42209	C	STATIC	01-01-13	NO	27.4	36.4	0.38	2064	180	2916	YES
	MPC-E 354 M	42217					25.7	36.0	0.19	2600	70	1417	
	MPC-E 404 M	42228					29.0	38.5	0.31	3735	87	1414	
Three-phase	MPC-E 302 T	42309					27.4	36.3	0.40	2097	187	2913	
	MPC-E 354 T	42317					25.2	36.0	0.19	2667	67	1410	
	MPC-E 404 T	42328					27.3	37.1	0.28	3670	75	1337	

* Best efficiency point.

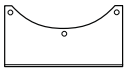
DIMENSIONS



Models	Ø A	Ø B	C	Ø D	E	F	G	H	Kg
MPC-E 254 M	319	264	300	292	14	9	4	45°	8.2
MPC-E 254 T									8.2
MPC-E 302 M	393	316	330	366					12.3
MPC-E 302 T									12.3
MPC-E 304 M									10.2
MPC-E 304 T									10.2
MPC-E 354 M	432	368		405					13.4
MPC-E 354 T									13.4
MPC-E 404 M	475	418		448					14
MPC-E 404 T									14

Dimensions (mm)

PRODUCT ACCESSORIES

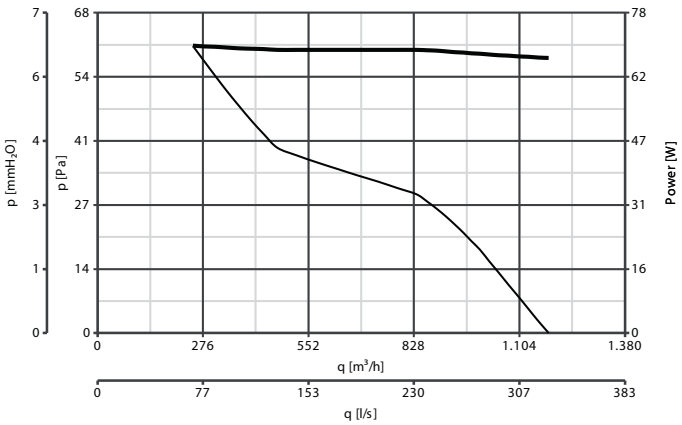
Models		Code	Product									
			MPC-E 254 M code 42263	**MPC-E 302 M** code 42209	**MPC-E 304 M** code 42210	**MPC-E 354 M** code 42217	**MPC-E 404 M** code 42228	**MPC-E 254 T** code 42359	**MPC-E 302 T** code 42309	**MPC-E 304 T** code 42310	**MPC-E 354 T** code 42317	**MPC-E 404 T** code 42328
	**IRM 30** Three-position single-phase speed controller	**12921**	●		●							
	IRM 40 Three-position single-phase speed controller	**12922**		●		●	●					
	IRT 15 Three-position three-phase speed controller	**12923**						●		●	●	●
	IRT 35 Three-phase voltage variator	**12924**							●			
	**IREM 3** Single-phase speed controller	**12931**	●		●	●	●					
	**IREM 5** Single-phase speed controller*	**12932**		●								
	**IRET 6** Three-phase speed controller	**12934**						●	●	●	●	●
	**MPC BO Ø 250** Suction connector	**22535**	●					●				
	MPC BO Ø 300 Suction connector	**22536**		●	●				●	●		
	MPC BO Ø 350 Suction connector	**22537**				●					●	
	MPC BO Ø 400 Suction connector	**22538**					●					●
	**MPC RA Ø 250** Flexible connector	**22516**	●					●				
	MPC RA Ø 300 Flexible connector	**22517**		●	●				●	●		
	MPC RA Ø 350 Flexible connector	**22518**				●					●	
	MPC RA Ø 400 Flexible connector	**22519**					●					●
	**MPC SU Ø 250** Mounting feet	**22531**	●					●				
	MPC SU Ø 300 Mounting feet	**22532**		●	●				●	●		
	MPC SU Ø 350 Mounting feet	**22533**				●					●	
	MPC SU Ø 400 Mounting feet	**22534**					●					●
	**MPC FL Ø 250** Coupling flange	**22523**	●					●				
	MPC FL Ø 300 Coupling flange	**22524**		●	●				●	●		
	MPC FL Ø 350 Coupling flange	**22525**				●					●	
	MPC FL Ø 400 Coupling flange	**22526**					●					●
	**MPC RP Ø 250** Protection grille	**22527**	●					●				
	MPC RP Ø 300 Protection grille	**22528**		●	●				●	●		
	MPC RP Ø 350 Protection grille	**22529**				●					●	
	MPC RP Ø 400 Protection grille	**22530**					●					●

* Multiple regulation up to max 5 A ** Regulates several fans up to 9 A.

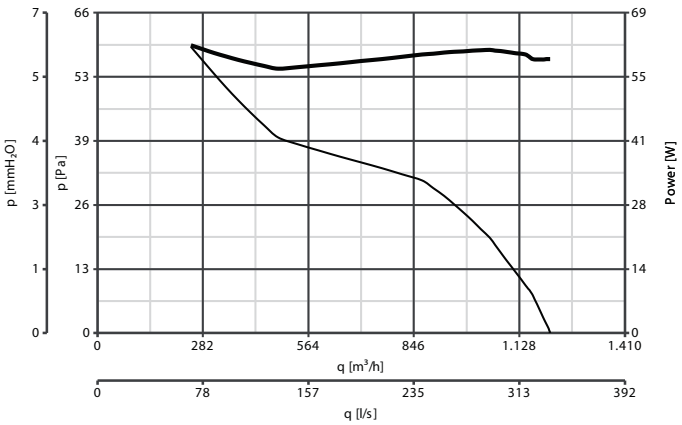
Description and sizes on page 325; ystem components on page 300.

PERFORMANCE CURVES

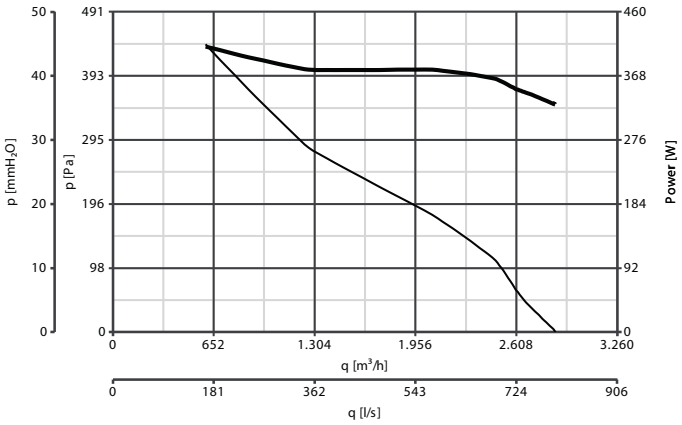
MPC-E 254 M code 42263



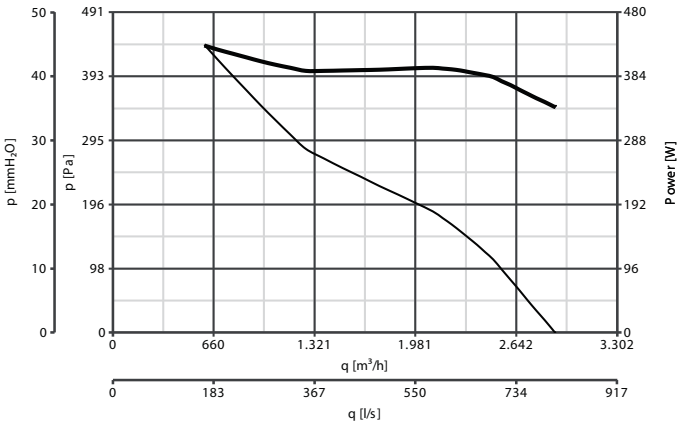
MPC-E 254 T code 42359



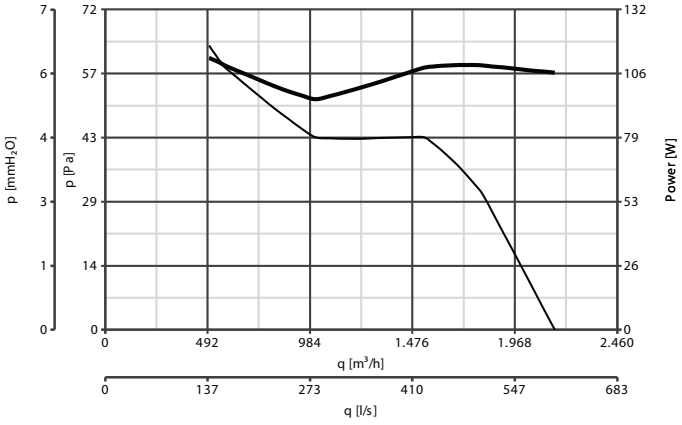
MPC-E 302 M code 42209



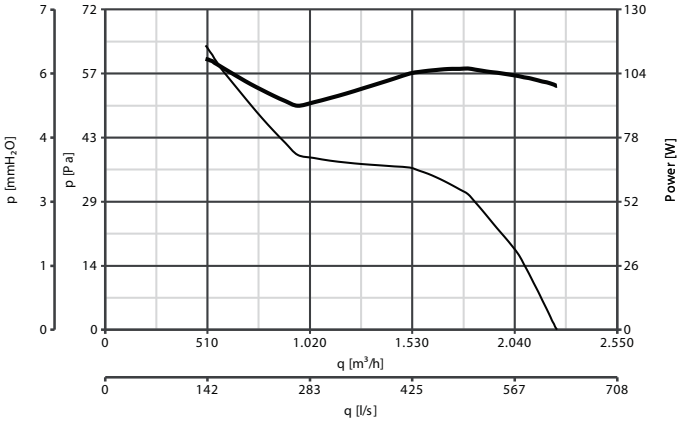
MPC-E 302 T code 42309



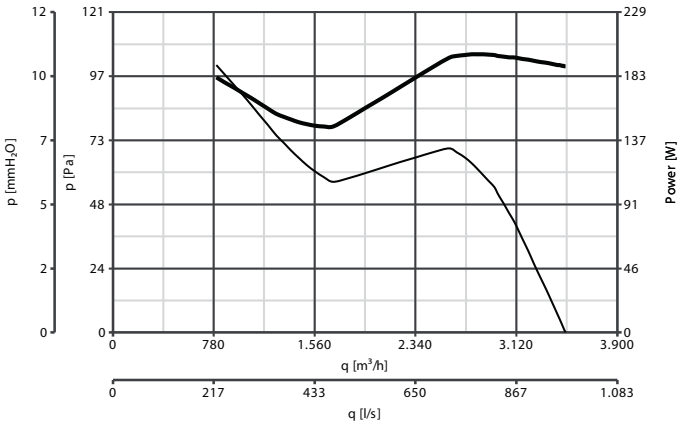
MPC-E 304 M code 42210



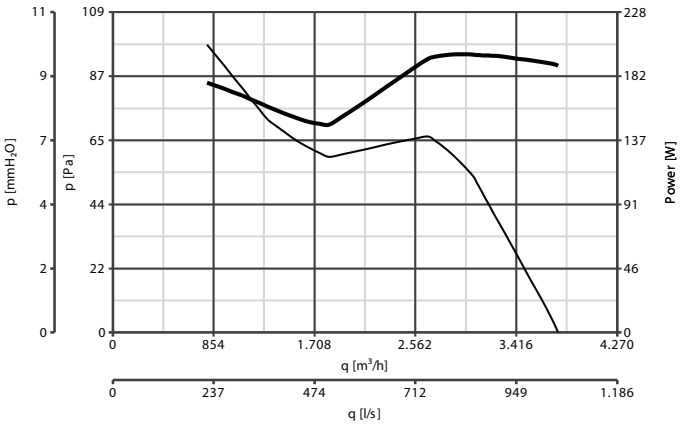
MPC-E 304 T code 42310



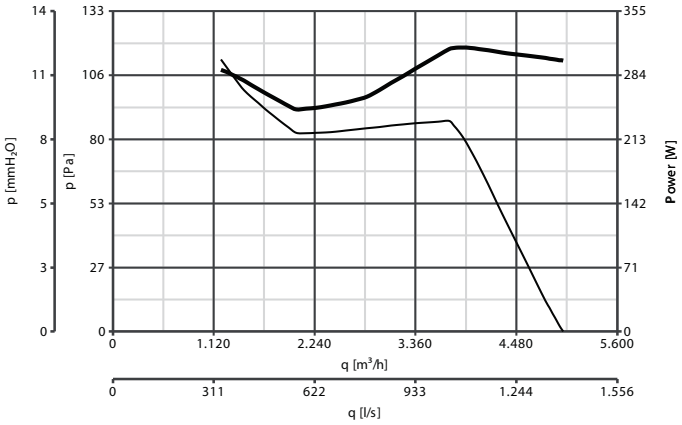
MPC-E 354 M code 42217



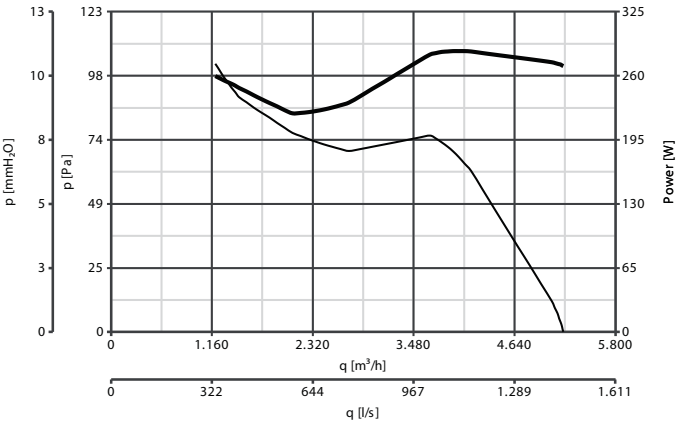
MPC-E 354 T code 42317



MPC-E 404 M code 42228



MPC-E 404 T code 42328

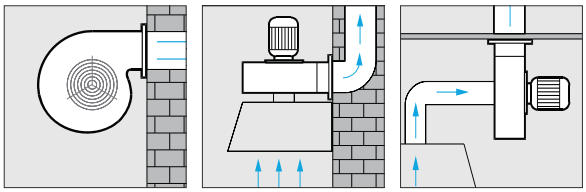


Delivery Consumption

NEW

VORTICENT C E RANGE

Centrifugal fans



Suitable for residential, commercial and industrial applications as kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, models, restaurants, bars, theatres, ballrooms, etc.

- **21 models**: ***9 single-phase*** *and* ***12 three-phase***.
- Steel double-coated protected by polyester paint, resistant to atmospheric agents.
- AC motors with ball bearings.
- Motor supports and air vents designed to minimise turbulences and noise levels.
- Galvanised steel mounting brackets supplied.
- Electric supply 230 V / 50 Hz for single-phase models and 400 V / 50 Hz for three-phase models.
- Protection rating: IP55.
- Insulation class: I.
- *Complying with the requirements of Regulation N° 327/2011/UE (Lot 11, 1st Tier) set out by the EUP/ErP Directive, effective starting from 01.01.2013.*

Wiring diagrams shown from page 458

TECHNICAL DATA

	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A) a 3 m*	Max °C
Single-phase	C 10/2 M	30302	100	0.45	2	2800	300	83.3	25	245	55.5	
	C 15/2 M	30902	160	0.70	2	2800	450	125	45	441	59	
	C 20/2 M E	30321	400	1.76	2	2800	890	247	52.6	516	66	
	C 25/2 M E	30323	430	1.90	2	2800	1000	277	63	618	66.5	
	C 30/2 M E	30325	740	3.20	2	2800	1420	394.4	84	824	71	
	C 30/4 M E	30327	132	0.582	4	1400	700	194	19.8	194	55	
	C 35/4 M E	30330	370	1.60	4	1400	1520	422.2	34	334	61	
	C 37/4 M E	30332	675	2.95	4	1400	2150	597.2	45.1	442	70	
	C 40/4 M E	30334	790	3.47	4	1400	2650	736	49.3	483.1	73	
Three-phase	C 10/2 T	30351	130	0.30	2	2800	270	75	25	245	55.5	50
	C 15/2 T	30951	160	0.35	2	2800	430	119.4	43	422	59	
	C 20/2 T E	30322	390	0.785	2	2800	244	880	52.9	519	66	
	C 25/2 T E	30324	470	1.25	2	2800	1060	294.4	59	579	66.5	
	C 30/2 T E	30326	720	1.50	2	2800	1350	375	85	834	71	
	C 30/4 T E	30328	110	0.19	4	1400	655	182	13.2	176	55	
	C 31/4 T E	30329	280	0.60	4	1400	1100	305.6	31	304	61	
	C 35/4 T E	30331	350	0.70	4	1400	1550	430.6	34	334	61	
	C 37/4 T E	30333	700	2.10	4	1400	2300	638.9	47	461	70	
	C 40/4 T E	30335	800	2.15	4	1400	2900	805.6	49	481	73	
	C 45/4 T E	30336	1900	4.35	4	1400	4500	1250	74	726	70.5	
	C 46/4 T E	30337	3900	7.00	4	1400	6800	1888.9	98	961	76.5	

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

ErP data

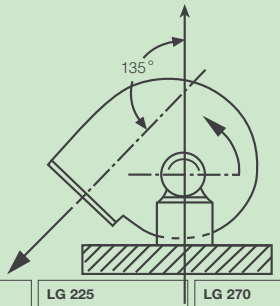
Directive 2009/125/EC ErP (Energy related Products)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	BEP* η	BEP* N.	BEP* (kW) Pe	BEP* m³/h q	BEP* Pa p	BEP* RPM	Spec. ratio <1.04
Single-phase	C 20/2 M E	30321					31.9	42.1	0.245	533	527.6	2939	
	C 25/2 M E	30323					32.8	42.5	0.298	697	505	2866	
	C 30/2 M E	30325					41.6	50.0	0.465	876	584	2892	
	C 35/4 M E	30330					32.4	42.2	0.278	1009	321.5	1433	
	C 37/4 M E	30332					35.4	43.5	0.476	1463	415.1	1454	
	C 40/4 M E	30334					36.8	44.8	0.537	1812	392.28	1444	
Three-phase	C 20/2 T E	30322					34.3	44.6	0.231	535	533	2931	
	C 25/2 T E	30324	B	TOTAL	01-01-13	NO	33.3	42.8	0.309	706	524.5	2949	YES
	C 30/2 T E	30326					43.2	51.8	0.434	866	779.5	2914	
	C 31/4 T E	30329					31.1	42.1	0.180	680.6	295.2	1460	
	C 35/4 T E	30331					41.1	51.5	0.230	1021	222	1443	
	C 37/4 T E	30333					38.1	46.6	0.464	1490	427.6	1475	
	C 40/4 T E	30335					39.0	47.5	0.451	1503	421.7	1478	
	C 45/4 T E	30336					49.7	56.3	0.913	2399	681.5	1472	
	C 46/4 T E	30337					41.6	45.7	2.250	4075	827	1470	

* Best efficiency point.

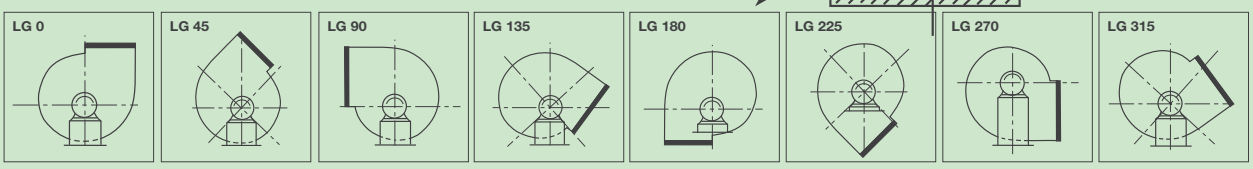
Orientation

The position of a radial fan delivery outlet is represented by a direction of rotation symbol (LG - that is, towards the left or anti-clockwise, looking from the side opposite the air intake inlet) and the angle (in degrees) of the delivery outlet to the reference axis (a straight line perpendicular to the base plane, passing through the axis of rotation), measured in the direction of rotation.

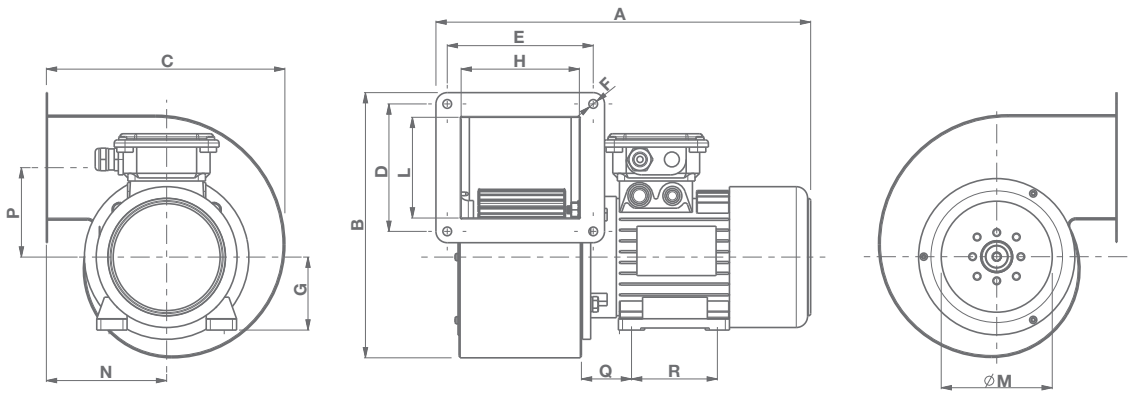


Designation of delivery outlet position for radial fans.

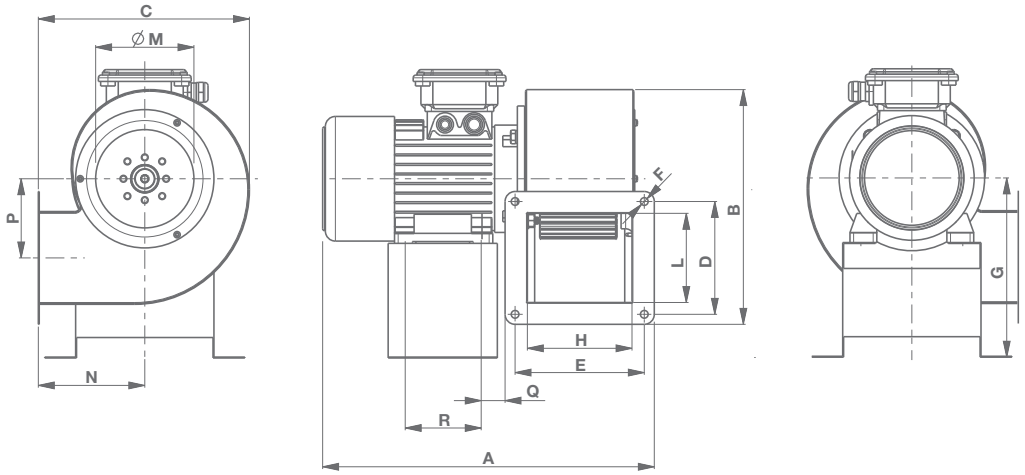
Adjacent example: LG 135



DIMENSIONS



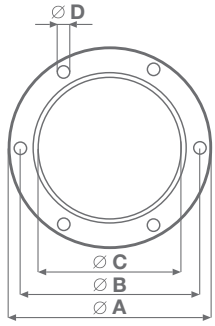
Models	A	B	C	D	E	F	G	H	L	Ø M	N	P	Q	R	Kg
C 10/2 M	260	186	171	72	82	6.5	56	68	63	80	81	66.5	36	71	2.7
C 10/2 T															4.6
C 15/2 M	281	234	206	108	100	7		83	88	108	99	79			5
C 15/2 T															3.3
C 20/2 M E	350	258	232	123	123	8.5	71	102	98		117	87	45	90	6
C 20/2 T E															6.3
C 25/2 M E	366			124	142			115							6.8
C 25/2 T E															6.3
C 30/2 M E		308	272	126	137			117	108	132	131	111			8.4
C 30/2 T E															8.1
C 30/4 M E	352														9
C 30/4 T E															8.1
C 31/4 T E	351	400	340	164	139	8.5	71	112	137	170	152	144	45	90	9.5
C 35/4 M E	387				174			149							11
C 35/4 T E															9.3
C 37/4 M E	435	471	416.5	220	182		80		187	199	181.5	146	50	100	20.5
C 37/4 T E															
C 40/4 T E	466	472	418	214	208			185				147			14.6
C 40/4 M E															21
C 45/4 T E	549	557.2	484.5	228	228	9	90	200	200	240	222	217	56	125	61



Models	A	B	C	D	E	F	G	H	L	Ø M	N	P	Q	R	Kg
C 46/4 T E	593	675	566	306	265	11.5	442	236	277	288	250	244.5	27	270	61

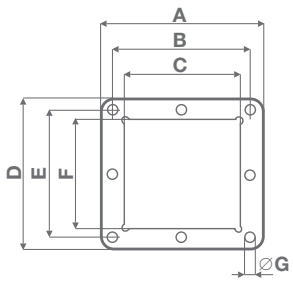
Dimensions (mm)

Air intake



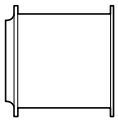
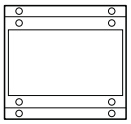
Models	Ø A	Ø B	Ø C	Ø D	n° holes
C 10	111.5	100	80	7	6
C 15	141	128	108		
C 20	152	132			
C 25					
C 30	190	170	132		
C 31	240	220	170	8.5	8
C 35					
C 37	282	262	199		
C 40					
C 45	320	300	236		
C 46	420	395	288		

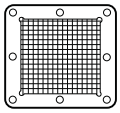
Delivery outlet



Models	A	B	C	D	E	F	Ø G	n° holes
C 10	98	82	68	88	72	63	6.5	4
C 15	125	100	83	132	108	88	7	
C 20	145	123	102	145	123	98	8.5	
C 25	164	142	115	146	124			
C 30	162	137	117	150	126	108		
C 31	165	139	112	190	164	137		8
C 35	200	174	149					
C 37	218	182		250	220	187		
C 40	244	208	185		214			
C 45	260	228	200	260	228	200	9	
C 46	295	264	236	336	306	277	11.5	

PRODUCT ACCESSORIES

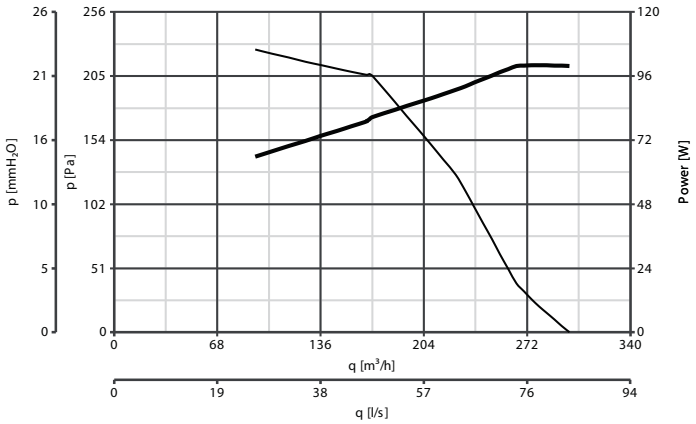
Models		Code	Product																					
			C 10/2 M code 30302	**C 15/2 M** code 30902	**C 20/2 M E** code 30321	**C 25/2 M E** code 30323	**C 30/2 M E** code 30325	**C 30/4 M E** code 30327	**C 35/4 M E** code 30330	**C 37/4 M E** code 30332	**C 40/4 M E** code 30334	**C 10/2 T** code 30351	**C 15/2 T** code 30951	**C20/2 T** code 30322	**C 25/2 T E** code 30324	**C 30/2 T E** code 30326	**C 30/4 T E** code 30328	**C 31/2 T E** code 30329	**C 35/2 T E** code 30331	**C 37/2 T E** code 30333	**C 40/4 T E** code 30335	**C 45/4 T E** code 30336	**C 46/4 T E** code 30337
	**C-RA 10** Flanged inlet adapter	**22825**	●									●											
	C-RA 15 Flanged inlet adapter	**22826**		●									●										
	C-RA 20/25 Flanged inlet adapter	**22828**			●	●								●	●								
	C-RA 30 Flanged inlet adapter	**22829**					●	●								●	●						
	C-RA 31/35 Flanged inlet adapter	**22830**							●									●	●				
	C-RA 37 Flanged inlet adapter	**22832**								●										●			
	C-RA 40 Flanged inlet adapter	**22833**									●										●		
	C-RA 45 Flanged inlet adapter	**22834**																				●	
	C-RA 46 Flanged inlet adapter	**22835**																					●
	**C-MS 20/25** Wall-mounted support	**22836**			●	●								●	●								
	C-MS 30 Wall-mounted support	**22837**					●	●								●	●						
	C-MS 31/35 Wall-mounted support	**22838**							●									●	●				
	C-MS 37/40 Wall-mounted support	**22839**								●	●									●	●		
	C-MS 45 Wall-mounted support	**22840**																				●	

Models		Code	Product																					
			C 10/2 M code 30302	C 15/2 M code 30902	C 20/2 M E code 30321	C 25/2 M E code 30323	C 30/2 M E code 30325	C 30/4 M E code 30327	C 35/4 M E code 30330	C 37/4 M E code 30332	C 40/4 M E code 30334	C 10/2 T code 30351	C 15/2 T code 30951	C20/2 T code 30322	C 25/2 T E code 30324	C 30/2 T E code 30326	C 30/4 T E code 30328	C 31/2 T E code 30329	C 35/2 T E code 30331	C 37/2 T E code 30333	C 40/4 T E code 30335	C 45/4 T E code 30336	C 46/4 T E code 30337
	**C-GM 10** Protection grille for outlet port	22811	●									●												
	C-GM 15 Protection grille for outlet port	22812		●									●											
	C-GM 20 Protection grille for outlet port	22813			●									●										
	C-GM 25 Protection grille for outlet port	22814				●									●									
	C-GM 30 Protection grille for outlet port	22816					●	●								●	●							
	C-GM 31 Protection grille for outlet port	22817																●						
	C-GM 35 Protection grille for outlet port	22818							●										●					
	C-GM 37 Protection grille for outlet port	22819								●										●				
	C-GM 40 Protection grille for outlet port	22820									●										●			
	C-GM 45 Protection grille for outlet port	22821																				●		
	C-GM 46 Protection grille for outlet port	22822																						●
	**C-GA 10** Protection grille for intake port	22801	●									●												
	C-GA 15 Protection grille for intake port	22802		●									●											
	C-GA 20/25 Protection grille for intake port	22803			●	●								●	●									
	C-GA 30 Protection grille for intake port	22804					●	●								●	●							
	C-GA 31/35 Protection grille for intake port	22805							●									●	●					
	C-GA 37/40 Protection grille for intake port	22806								●	●									●	●			
	C-GA 45 Protection grille for intake port	22807																				●		
	C-GA 46 Protection grille for intake port	22808																						●

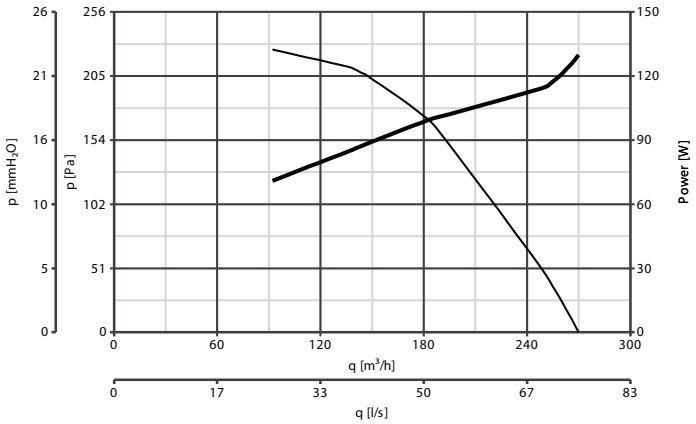
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

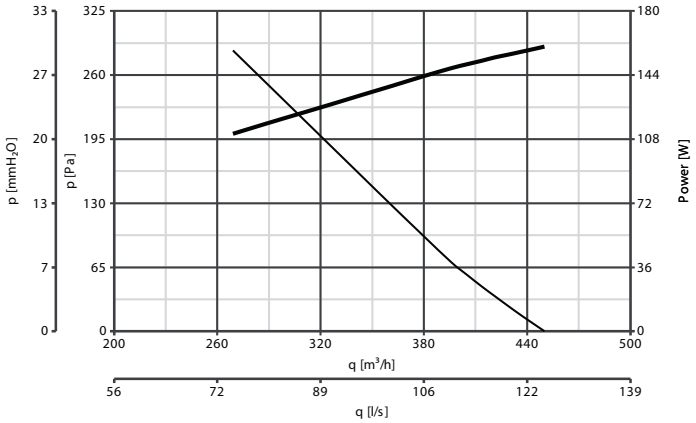
C 10/2 M code 30302



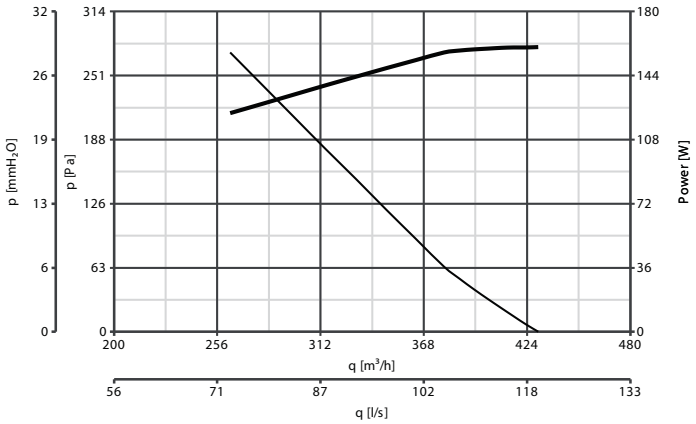
C 10/2 T code 30351



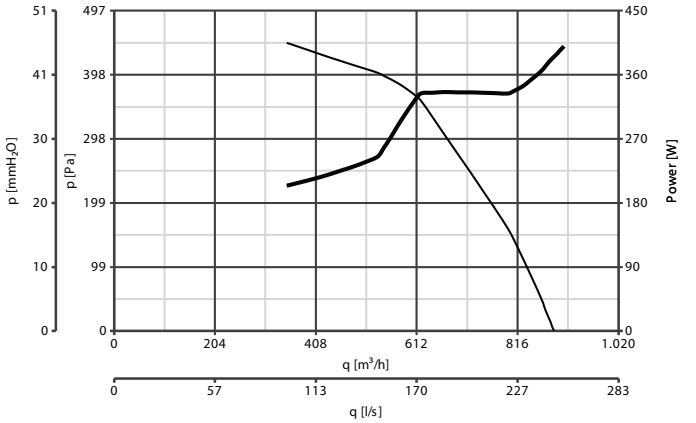
C 15/2 M code 30902



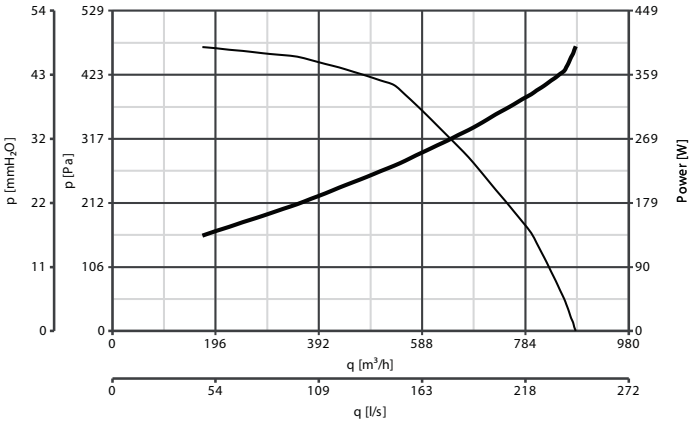
C 15/2 T code 30951



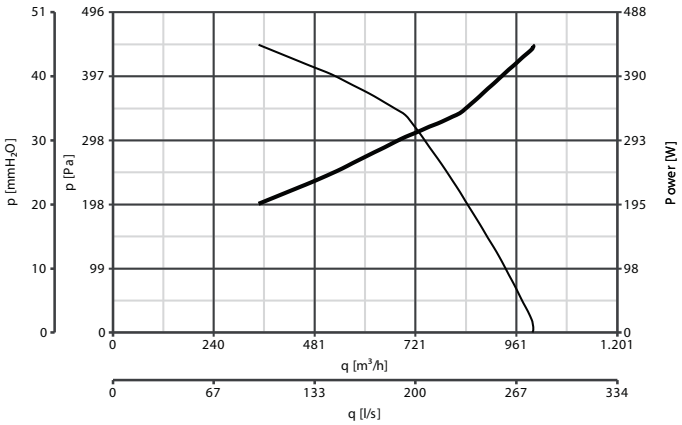
C 20/2 M E code 30321



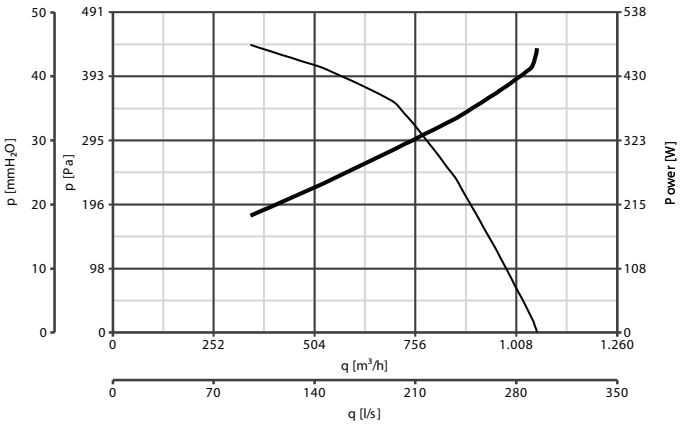
C 20/2 T E code 30322



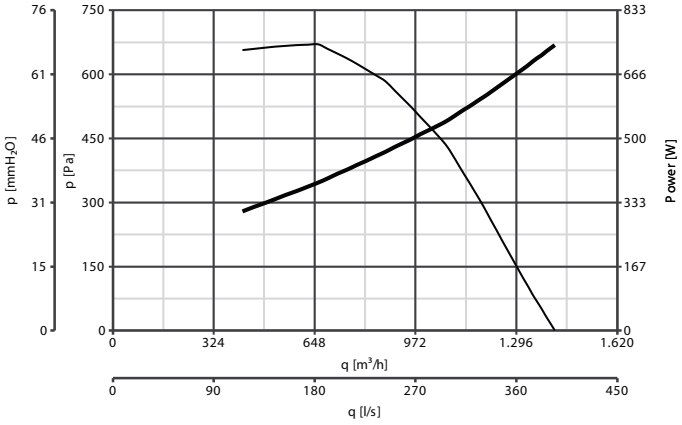
C 25/2 M E code 30323



C 25/2 T E code 30324



C 30/2 M E code 30325



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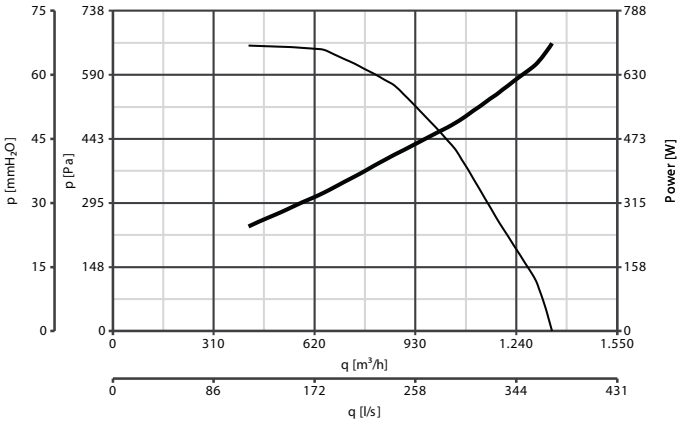
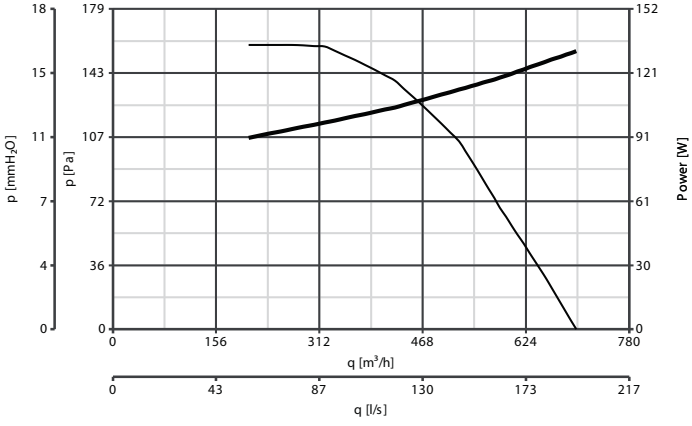
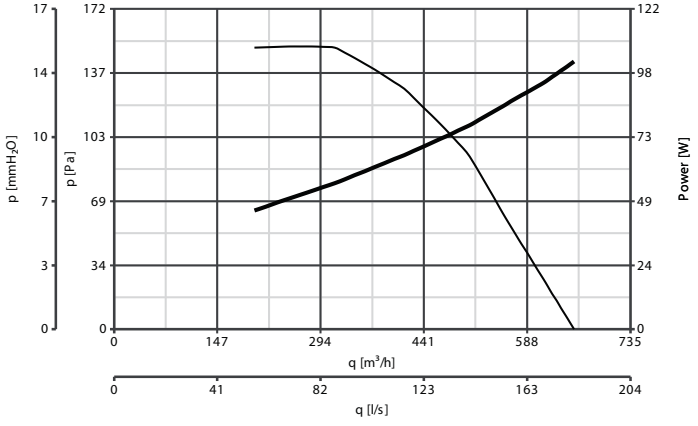


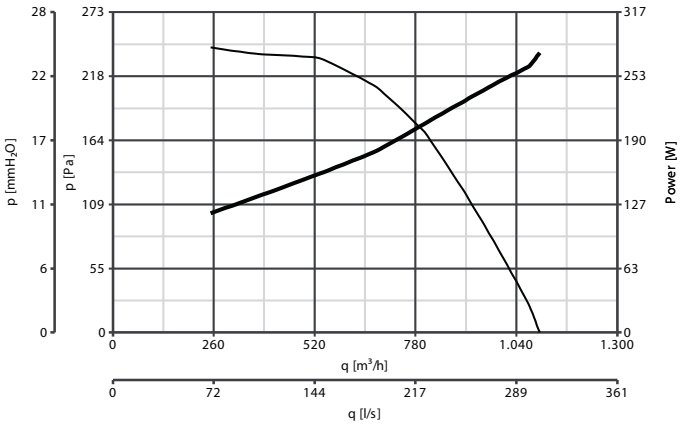
C 30/4 M E code 30327



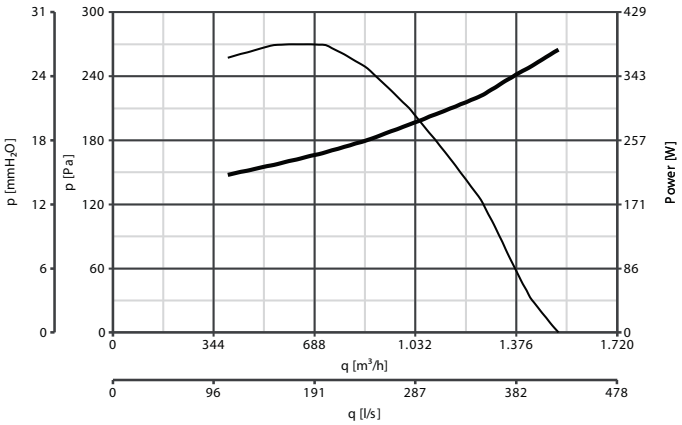
C 30/4 T E code 30328



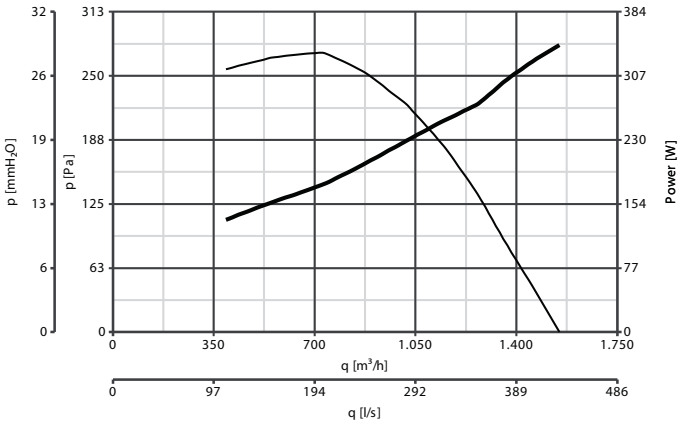
C 31/4 T E code 30329



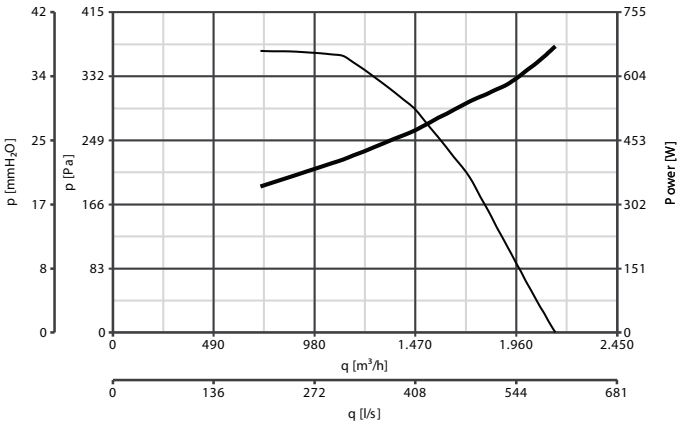
C 35/4 M E code 30330



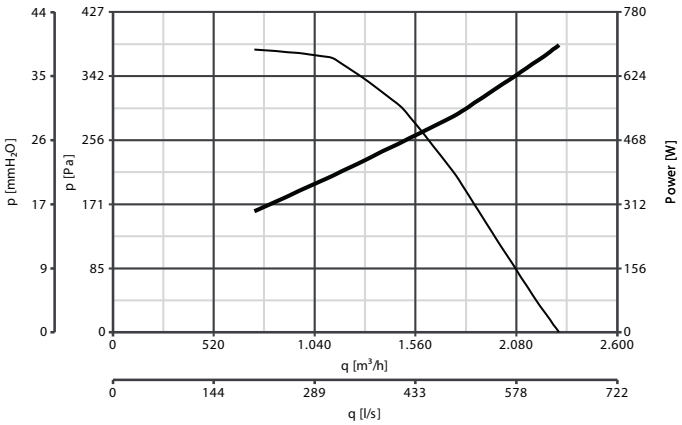
C 35/4 T E code 30331



C 37/4 M E code 30332



C 37/4 T E code 30333



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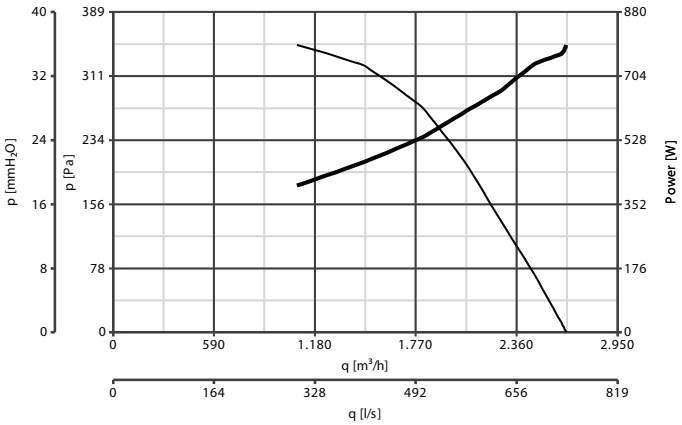

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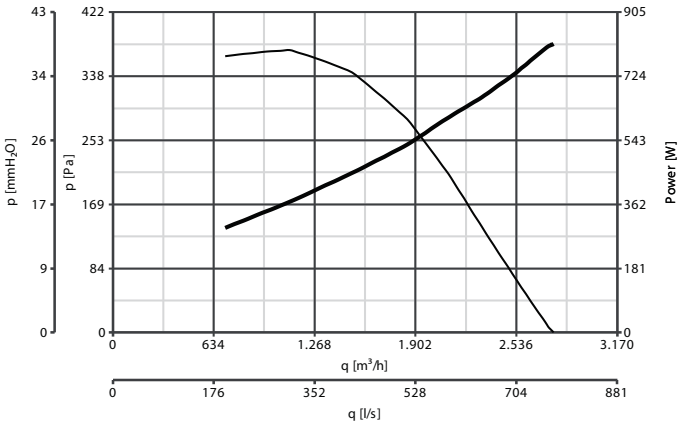

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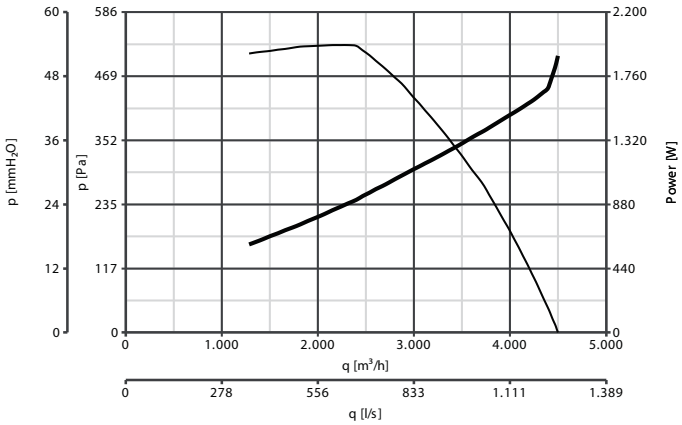

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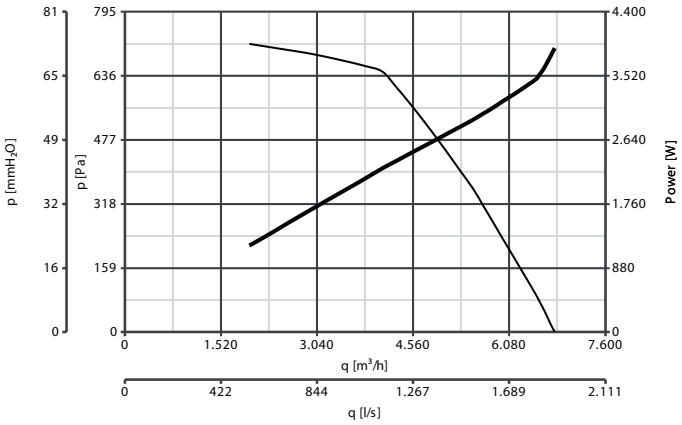

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