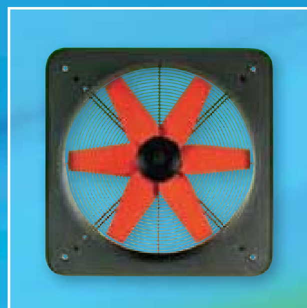
INDUSTRIAL VENTILATION



VORTICE

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

<table>
<tr><th>Models</th><th>Code</th><th>n° blades</th></tr>
<tr><td>A-E 252 M</td><td>42207</td><td rowspan="7">5</td></tr>
<tr><td>A-E 254 M</td><td>42208</td></tr>
<tr><td>A-E 254 T</td><td>42308</td></tr>
<tr><td>A-E 304 M</td><td>42216</td></tr>
<tr><td>A-E 304 T</td><td>42227</td></tr>
<tr><td>A-E 354 M</td><td>42258</td></tr>
<tr><td>A-E 354 T</td><td>42259</td></tr>
<tr><td>A-E 404 M</td><td>42260</td><td rowspan="5">4</td></tr>
<tr><td>A-E 404 T</td><td>42261</td></tr>
<tr><td>A-E 454 M</td><td>42307</td></tr>
<tr><td>A-E 454 T</td><td>42308</td></tr>
<tr><td>A-E 504 M</td><td>42316</td></tr>
<tr><td>A-E 504 T</td><td>42327</td><td>4</td></tr>
<tr><td>A-E 506 M</td><td>42337</td><td>7</td></tr>
<tr><td>A-E 506 T</td><td>42346</td><td rowspan="2">4</td></tr>
<tr><td>A-E 564 T</td><td>42336</td></tr>
<tr><td>A-E 566 M</td><td>42356</td><td rowspan="2">5</td></tr>
<tr><td>A-E 566 T</td><td>42366</td></tr>
<tr><td>A-E 636 T</td><td>42347</td><td>4</td></tr>
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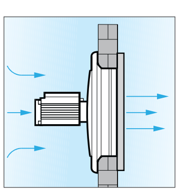
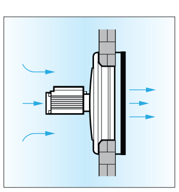
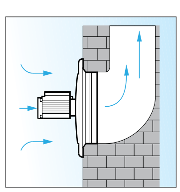






TECHNICAL DATA

	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	50
	A-E 254 M	42208	38	0.17	4	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	
	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		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	50
	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	4	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	
	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		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.

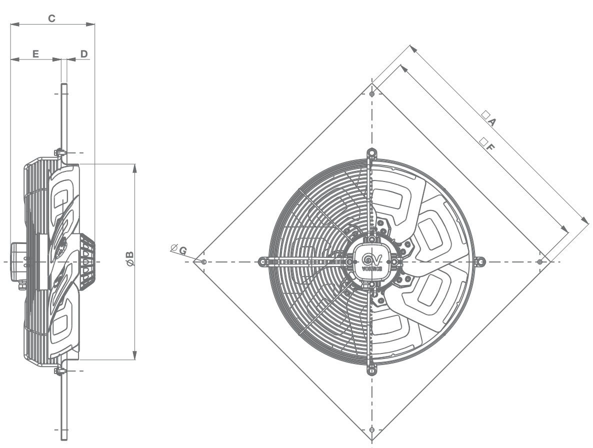
ErP data

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	BEP* 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
	A-E 404 M	**42260**					26.5	37.0	0.2268	2792	81	1369	
	A-E 454 M	**42307**					27.5	37.0	0.3015	3813	81	1357	
	A-E 504 M	**42316**					32.2	41.0	0.3972	4749	101	1285	
	A-E 506 M	**42337**					26.9	37.0	0.2513	3466	73	908	
	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	
	A-E 404 T	**42261**					29.2	40.0	0.2078	2376	96	1428	
	A-E 454 T	**42308**					30.8	40.0	0.3049	3442	101	1384	
	A-E 504 T	**42327**					32.9	41.0	0.4741	5056	116	1366	
	A-E 506 T	**42346**					26.5	37.0	0.2174	3223	67	956	
	A-E 564 T	**42336**					36.6	44.0	0.7527	6528	159	1349	
	A-E 566 T	**42366**					27.7	36.0	0.4091	5102	83	915	
	A-E 636 T	**42347**					33.8	43.0	0.410	6309	82	923	

* Best efficiency point.

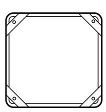
DIMENSIONS



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)

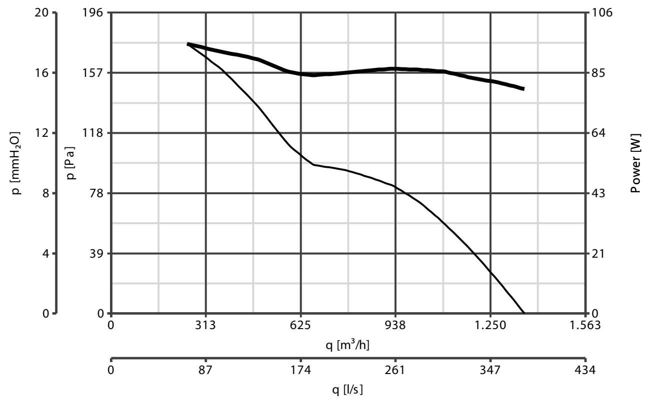
PRODUCT ACCESSORIES

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**					●								●						

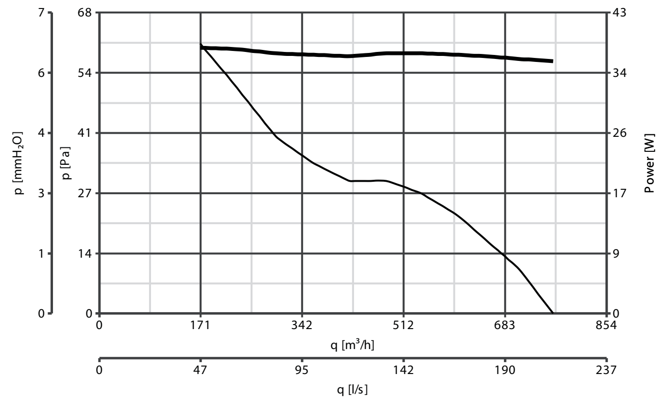
Description and sizes on page 325; System components on page 330.

PERFORMANCE CURVES

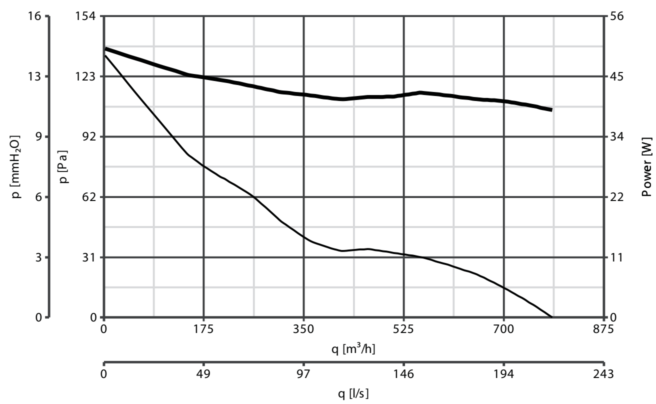
A-E 252 M code 42207



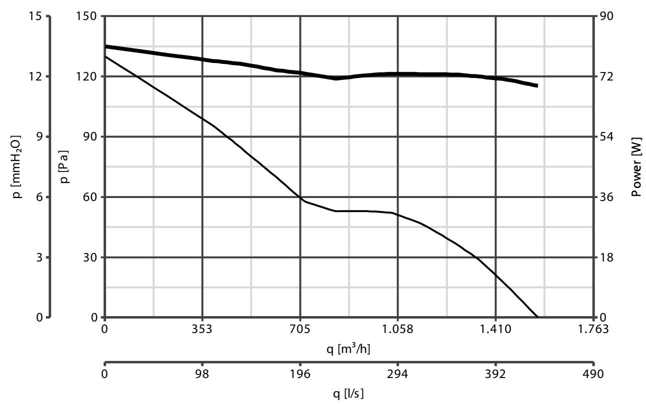
A-E 254 M code 42208



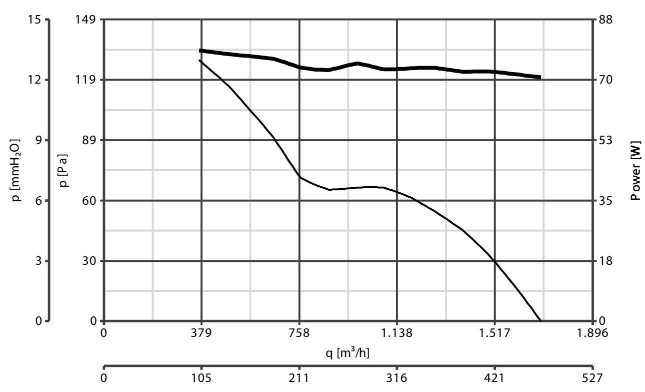
A-E 254 T code 42357



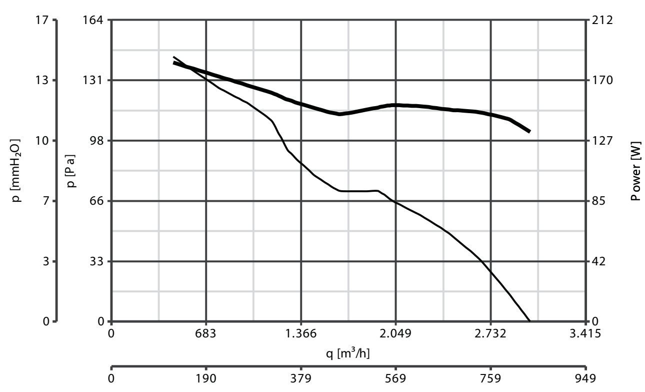
A-E 304 M code 42216



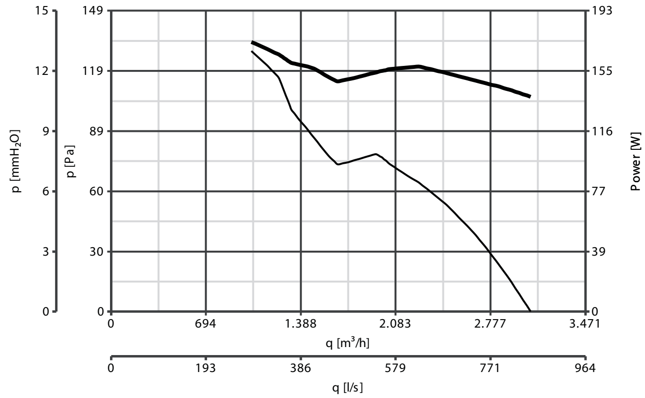
A-E 304 T code 42227



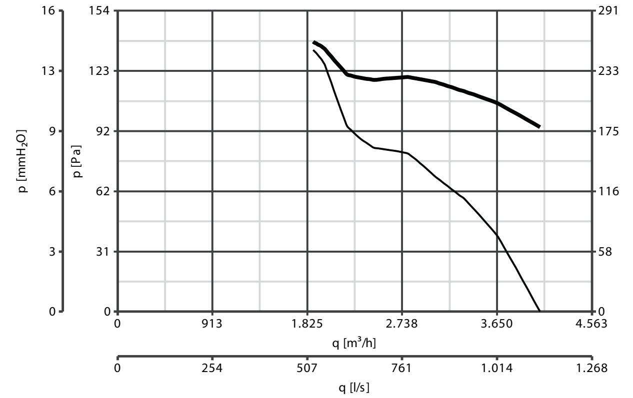
A-E 354 M code 42258



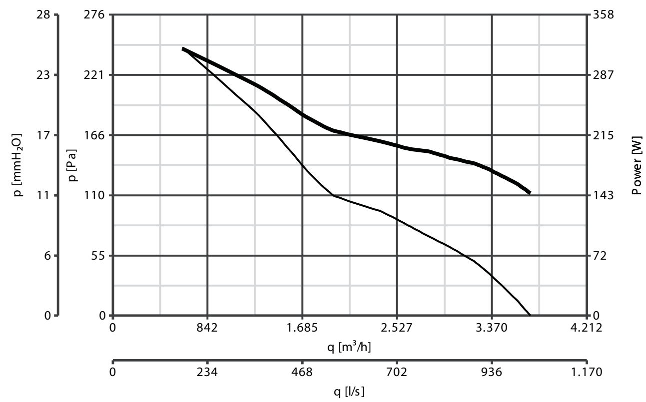
A-E 354 T code 42259



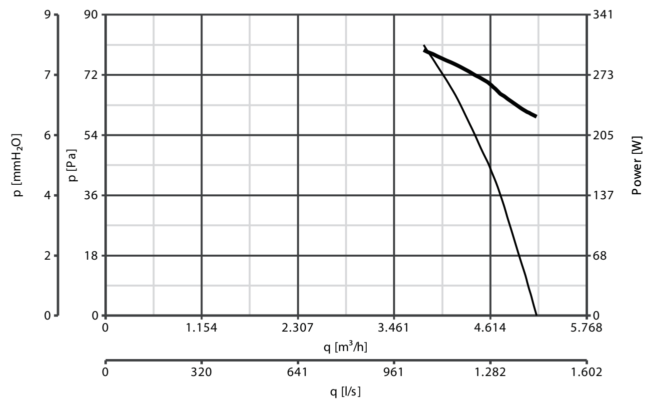
A-E 404 M code 42260



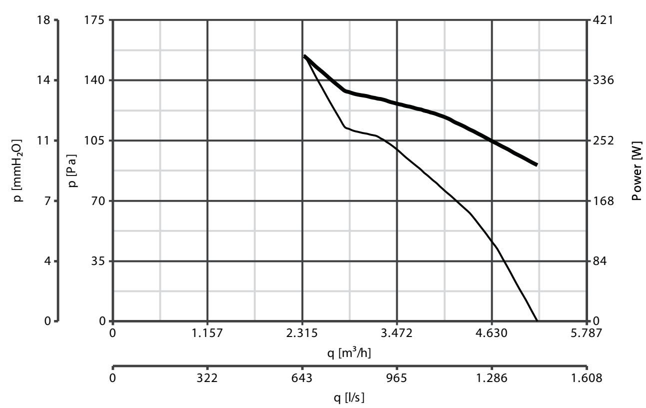
A-E 404 T code 42261



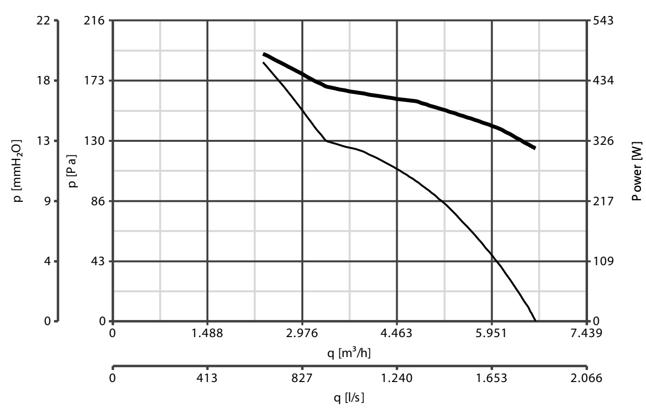
A-E 454 M code 42307



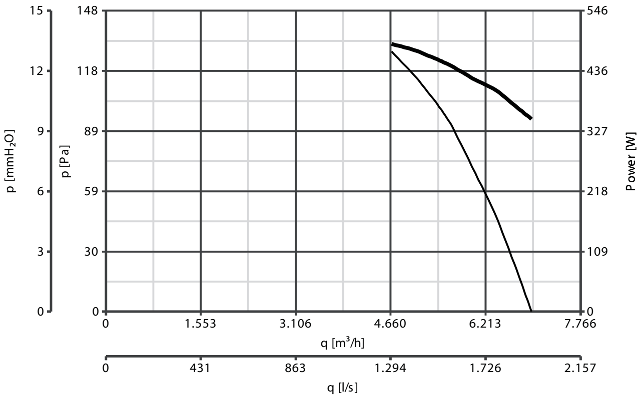
A-E 454 T code 42308



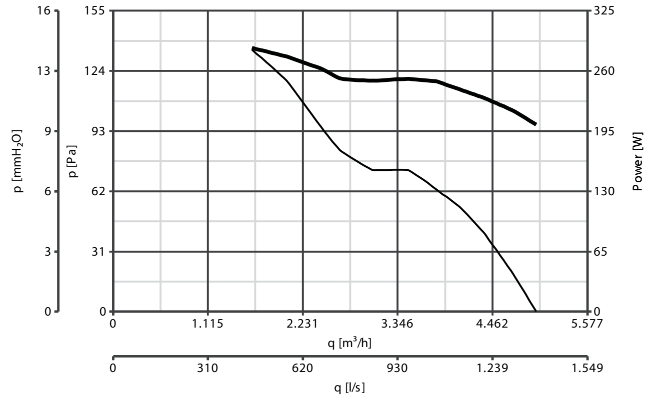
A-E 504 M code 42316



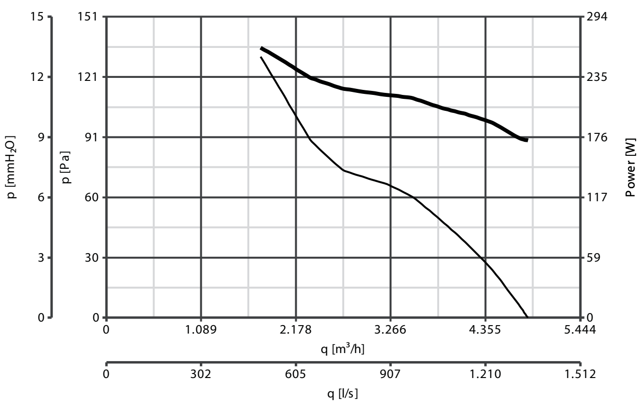
A-E 504 T code 42327



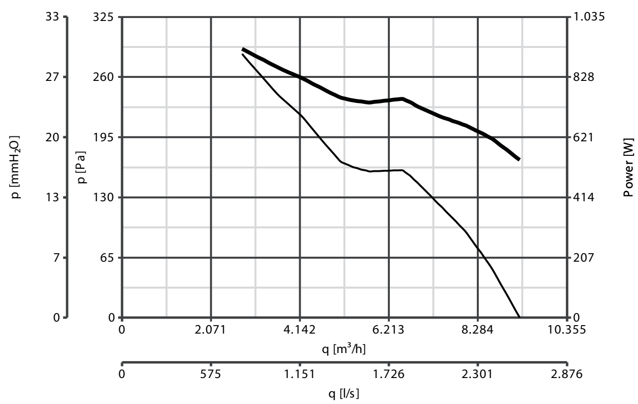
A-E 506 M code 42337



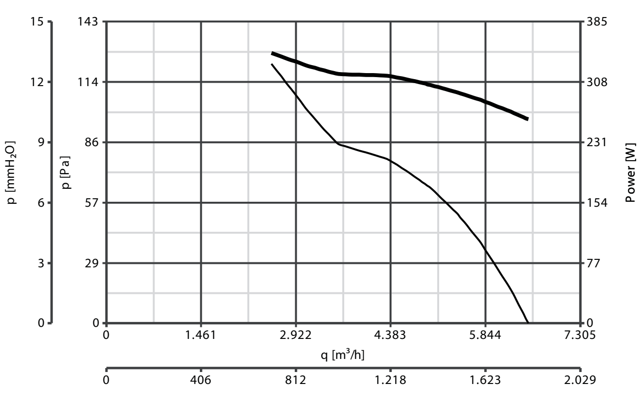
A-E 506 T code 42346



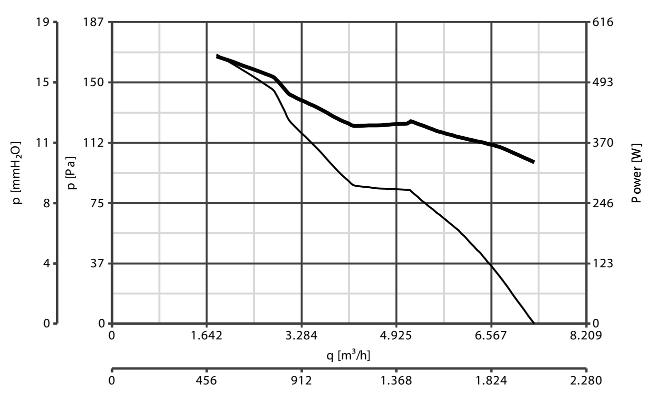
A-E 564 T code 42336



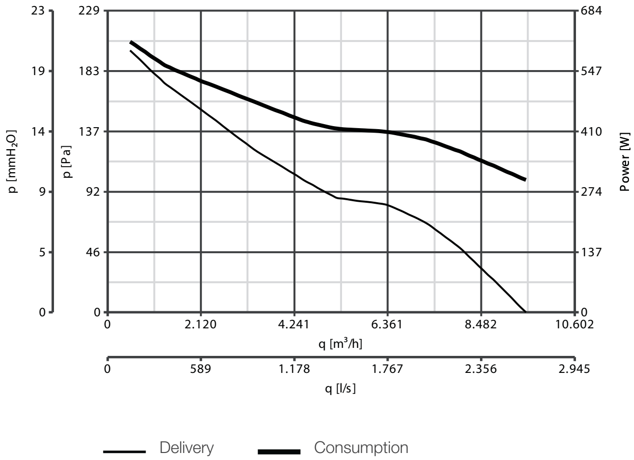
A-E 566 M code 42356



A-E 566 T code 42366



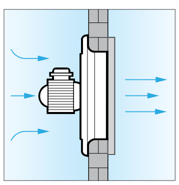
A-E 636 T code 42347



VORTICEL E RANGE

Low pressure plate axial fans

CE



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

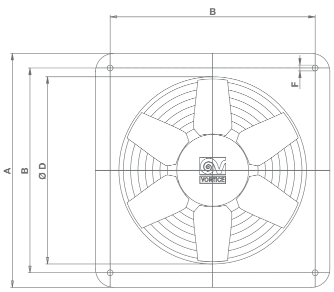
	Models	Code	V ~ 50 Hz	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A) a 3 m*	Max °C
Single-phase	**E 252 M**	**40203**	220 - 240	95 - 105	0.45 - 0.47	2	2800	1500	416.7	20	196	71	70
	E 254 M	**40303**		55 - 65	0.31 - 0.39	4	1400	1000	277.8	6.7	66	50.5	60
	E 304 M	**40503**		55 - 70	0.33 - 0.40			1360	377.8	7.5	74	54	65
	E 354 M	**40703**		85 - 95	0.44 - 0.45			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			1000	277.8	7.3	71	53	55
	E 304 T	**40556**		65 80	0.32 - 0.19 0.38 - 0.22			1400	389	8.2	81	53	**50**
	E 354 T	**40756**	220 - 380 240 - 415	90 100	0.34 - 0.20 0.38 - 0.22			1900	528	7.1	70	61.0	**60**

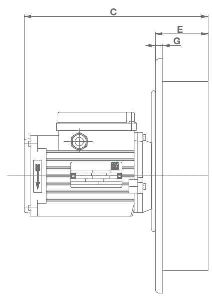
*Avalable only for the Extra EU market****

	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 302 M**	**40403**	220 - 240	190 - 195	0.85 - 0.90	2	2800	2350	653	31.5	309	**66.0**	70
	E 404 M	**40903**		190 - 200	0.90 - 0.95	4	1400	3150	875	12.0	118	**57.0**	
	E 454 M	**41153**		195 - 210	0.93 - 0.95			3900	1083	9.0	88	66.0	
	E 504 M	**41219**		200 - 220	0.90 - 0.92			4500	1250	6.0	59	61.5	
	E 604 M	**41459**		320 - 345	1.45 - 1.45			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
	E 404 T	**40956**		190 200	0.60 - 0.35 0.65 - 0.38	4	1400	3200	889	17.7	174	**60.0**	70
	E 454 T	**41154**		230 240	0.69 - 0.40 0.72 - 0.42			3900	1083	15.0	147	66.0	
	E 504 T	**41157**		235 245	0.74 - 0.43 0.74 - 0.43			4800	1333	11.7	115	61.5	
	E 506 T	**41206**		145 165	0.43 - 0.25 0.46 - 0.27	6	1000	3900	1083	6.8	67	56.0	
	E 604 T	**41457**		360 380	1.00 - 0.62 1.00 - 0.62	4	1400	7700	2139	14.5	142	69.5	
	E 606 T	**41506**		145 165	0.44 - 0.26 0.46 - 0.27	6	1000	4800	1333	4.7	46	65.0	

* 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

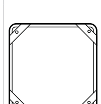




Models	Ø nom.	◫ A	◫ B	C	Ø D	E	Ø F	G	Kg
E 252 M	250	320	280	201	256	68	8	10	3.5
E 254 M E 254 T									3
E 302 M E 302 T	315	380	330	254	308	70			
E 304 M E 304 T	315	380	330	203	308	70			
E 354 M E 354 T	355	450	380		360				4
E 404 M E 404 T	400	510	430	274	410	90			5.0
E 454 M E 454 T	450	630	530	269	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

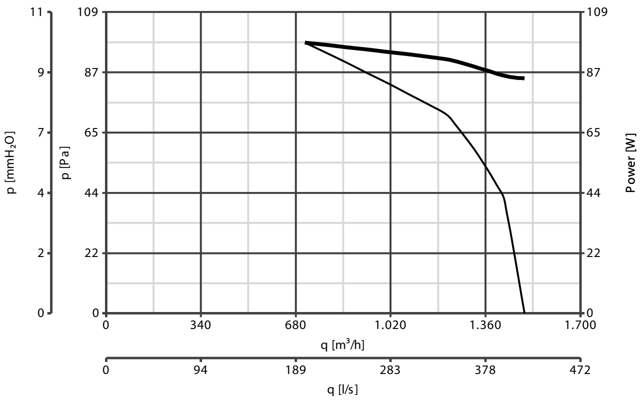
Models		Code	E 252 M code 40203	E 254 M code 40303	E 302 M code 40403	E 304 M code 40503	E 354 M code 40703	E 404 M code 40903	E 454 M code 41153	E 504 M code 41219	E 604 M code 41459	E 254 T code 40356	E 302 T code 40456	E 304 T code 40556	E 354 T code 40756	E 404 T code 40956	E 454T code 41154	E 504 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	**12931**	●	●	●	●	●	●	●	●	●										
	**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.

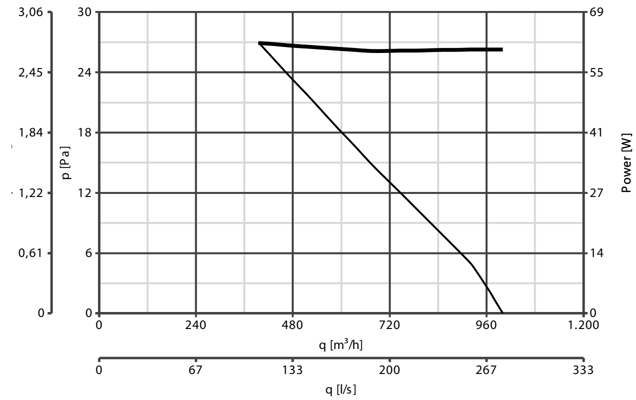
Description and sizes on page 325; System components on page 330.

PERFORMANCE CURVES

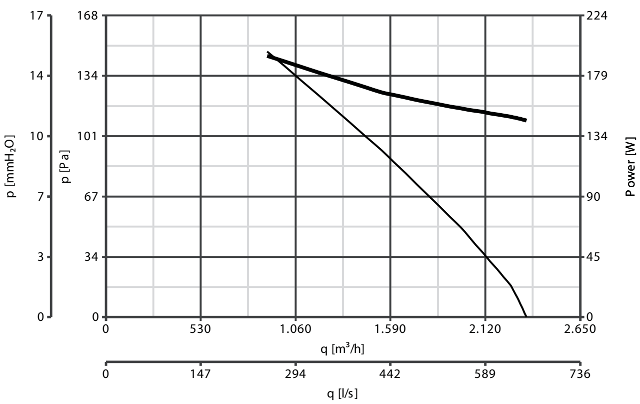
E 252 M code 40203



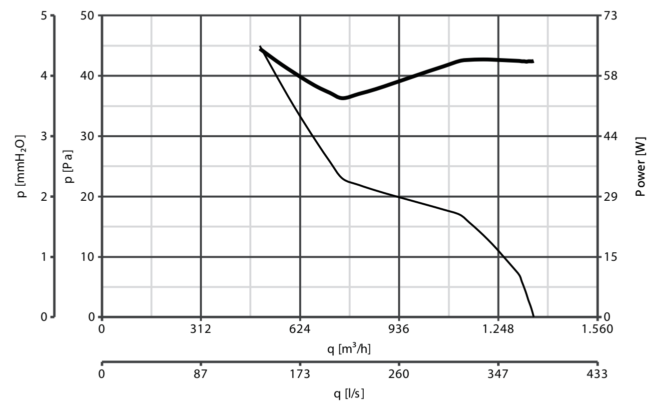
E 254 M code 40303



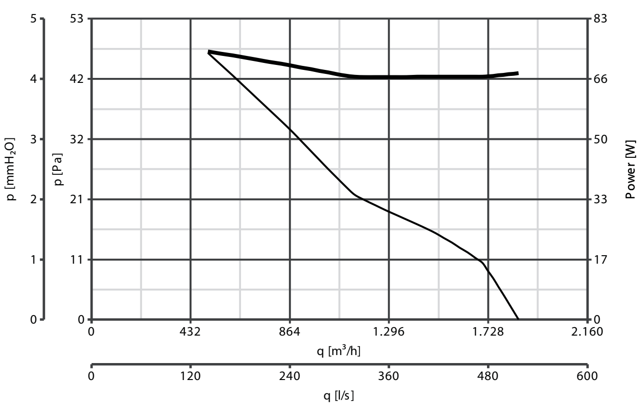
E 302 M code 40403



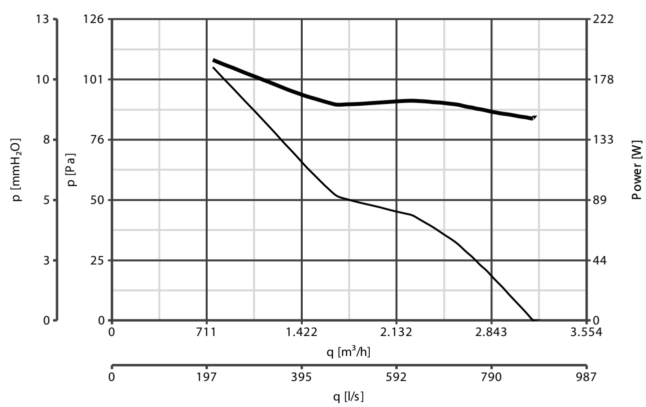
E 304 M code 40503



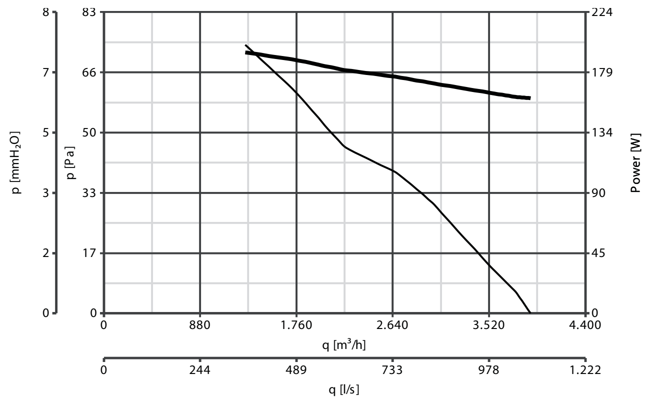
E 354 M code 40703



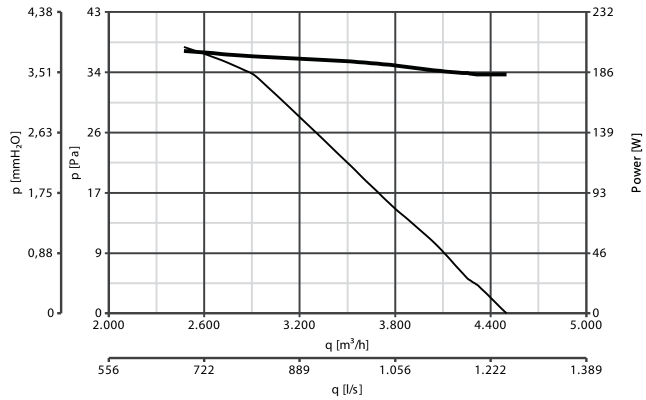
E 404 M code 40903



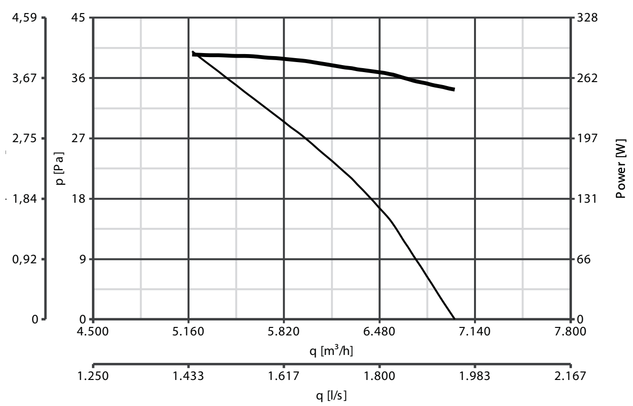
E 454 M code 41153



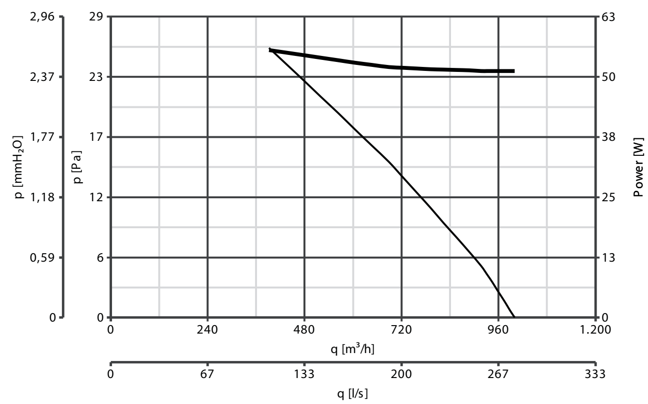
E 504 M code 41219



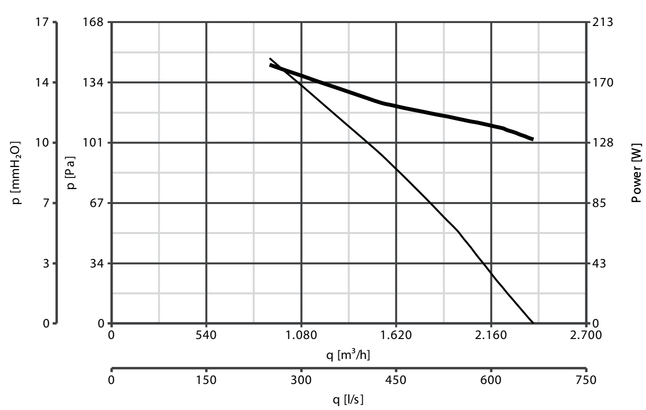
E 604 M code 41459



E 254 T code 40356



E 302 T code 40456



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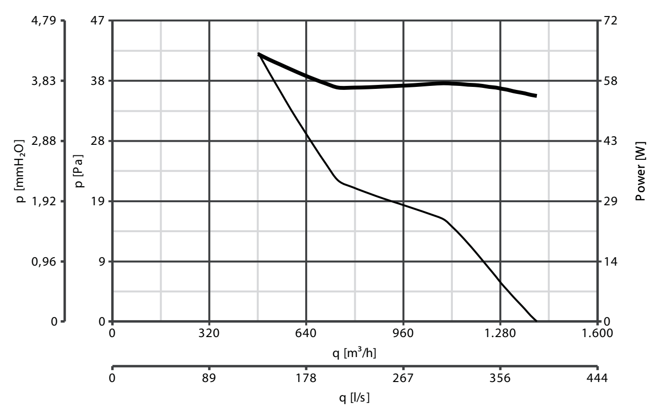
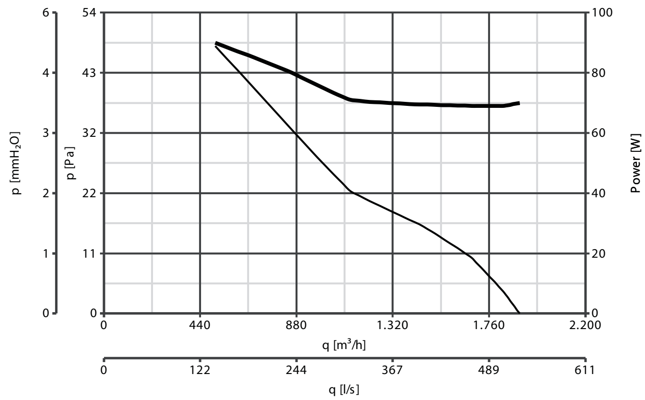
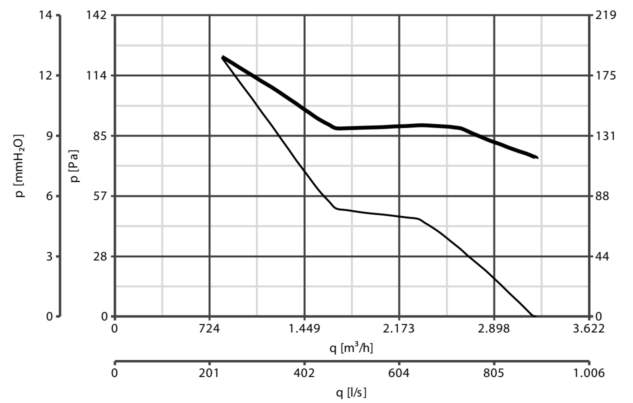


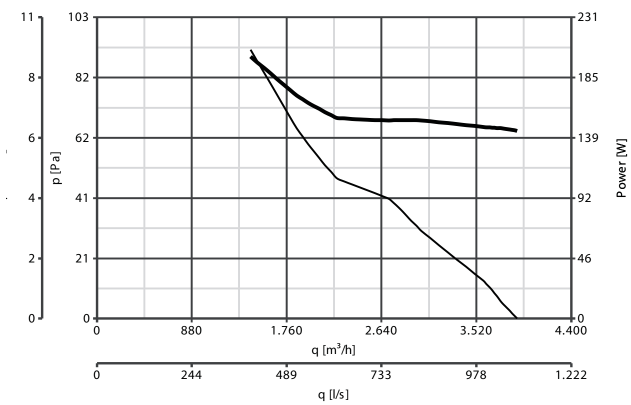
E 354 T code 40756



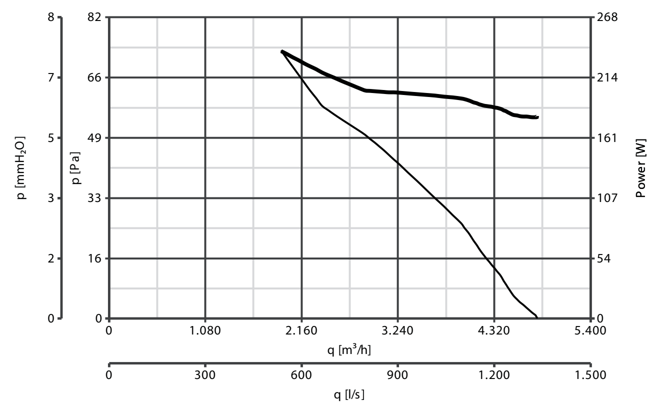
E 404 T code 40956



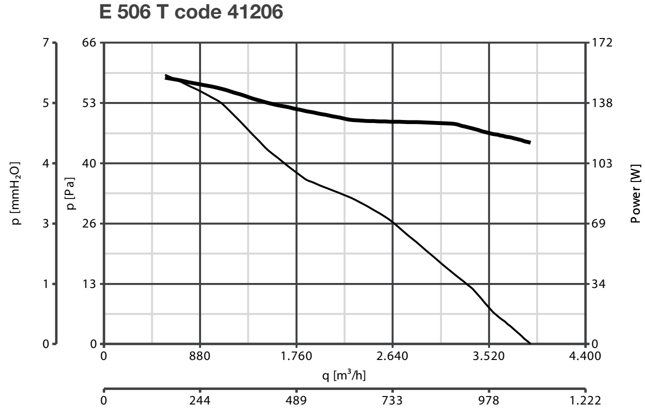
E 454 T code 41154



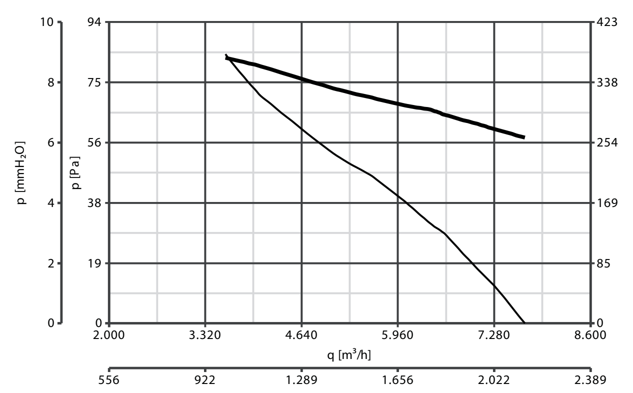
E 504 T code 41157



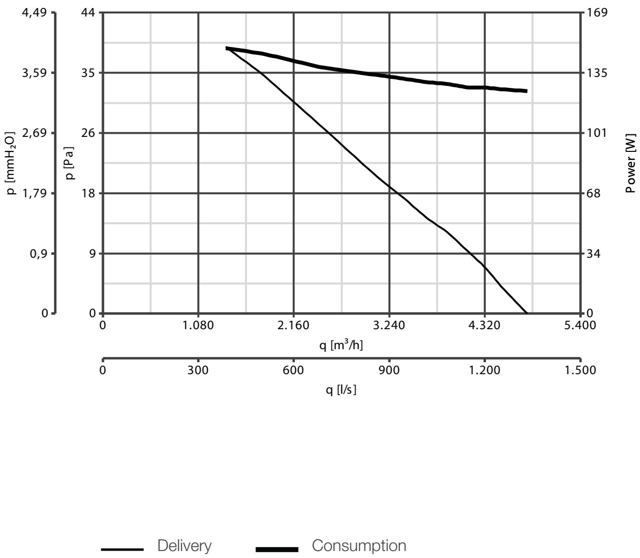
E 506 T code 41206



E 604 T code 41457



E 606 T code 41506

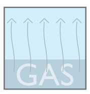


E ATEX RANGE

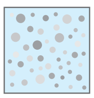
Axial plate-mounted fans for installation in potentially explosive areas

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.

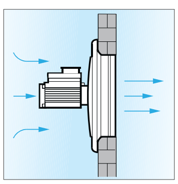
- **14 models: 5 single phase, 9 three phase**.
- 1 speed.
- Double-coated galvanised steel wire mesh over the outlet port.
- Double-coated galvanised steel wire mesh over the inlet port.
- Impeller with aluminium hub and plastic blades.
- Frames with double-coated sheet steel mesh and nozzle.
- In single 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.***

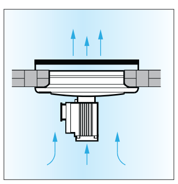


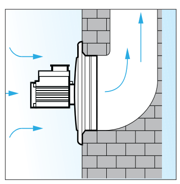
GAS



DUST





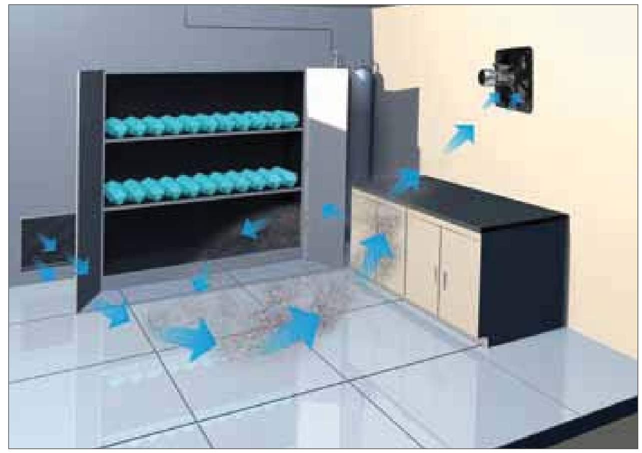


Wiring diagrams shown from page 458

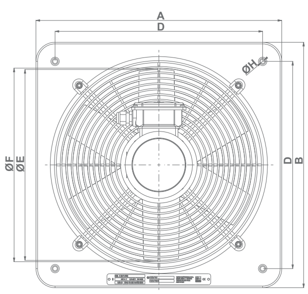
TECHNICAL DATA

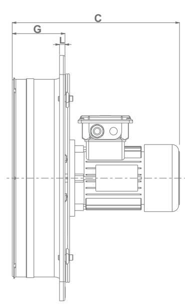
<table>
<tr><th rowspan="2"></th><th rowspan="2">Models</th><th rowspan="2">Code</th><th rowspan="2">W</th><th rowspan="2">A</th><th rowspan="2">POLES</th><th rowspan="2">RPM</th><th colspan="2">Max Airflow</th><th colspan="2">Max Pressure</th><th rowspan="2">Lp dB(A) a 3 m*</th><th rowspan="2">Max °C</th></tr>
<tr><th>m³/h</th><th>l/s</th><th>mmH$_2$O</th><th>Pa</th></tr>
<tr><td rowspan="5">Single-phase</td><td>E 254 M ATEX</td><td>40301</td><td>167</td><td>0.75</td><td rowspan="11">4</td><td rowspan="11">1400</td><td>1040</td><td>288.9</td><td>8.9</td><td>87.5</td><td>63.2</td><td rowspan="14">40</td></tr>
<tr><td>E 304 M ATEX</td><td>40302</td><td>175</td><td>0.77</td><td>1600</td><td>444.4</td><td>14</td><td>137.7</td><td>59.6</td></tr>
<tr><td>E 354 M ATEX</td><td>40304</td><td>204</td><td>0.97</td><td>2220</td><td>616.7</td><td>17.3</td><td>169.4</td><td>66</td></tr>
<tr><td>E 404 M ATEX</td><td>40306</td><td>294</td><td>1.27</td><td>3550</td><td>986.1</td><td>19.8</td><td>193.8</td><td>62</td></tr>
<tr><td>E 454 M ATEX</td><td>40308</td><td>346</td><td>1.50</td><td>4634</td><td>1287.2</td><td>19.1</td><td>187.6</td><td>70</td></tr>
<tr><td rowspan="9">Three-phase</td><td>E 254 T ATEX</td><td>40309</td><td>121</td><td>0.49</td><td>1050</td><td>291.7</td><td>9.6</td><td>94.2</td><td>59.6</td></tr>
<tr><td>E 304 T ATEX</td><td>40310</td><td>162</td><td>0.53</td><td>1585</td><td>440.3</td><td>14.1</td><td>138.3</td><td>62</td></tr>
<tr><td>E 354 T ATEX</td><td>40313</td><td>208</td><td>0.50</td><td>2550</td><td>708.3</td><td>18.4</td><td>180.5</td><td>66</td></tr>
<tr><td>E 404 T ATEX</td><td>40314</td><td>268</td><td>0.61</td><td>3480</td><td>966.7</td><td>17.4</td><td>170.3</td><td>64.8</td></tr>
<tr><td>E 454 T ATEX</td><td>40315</td><td>345</td><td>0.70</td><td>4443</td><td>1234.2</td><td>18.2</td><td>178.3</td><td>69.8</td></tr>
<tr><td>E 504 T ATEX</td><td>40316</td><td>293</td><td>0.64</td><td>4900</td><td>1361.1</td><td>17.7</td><td>173.8</td><td>72.7</td></tr>
<tr><td>E 506 T ATEX</td><td>40319</td><td>166</td><td>0.47</td><td>6</td><td>1000</td><td>3823</td><td>1061.9</td><td>10.1</td><td>99.2</td><td>64</td></tr>
<tr><td>E 604 T ATEX</td><td>40317</td><td>374</td><td>0.71</td><td>4</td><td>1400</td><td>6900</td><td>1916.7</td><td>20.8</td><td>203.7</td><td>75.4</td></tr>
<tr><td>E 606 T ATEX</td><td>40318</td><td>223</td><td>0.49</td><td>6</td><td>1000</td><td>5715</td><td>1587.5</td><td>12.2</td><td>119.4</td><td>65.5</td></tr>
</table>

* 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



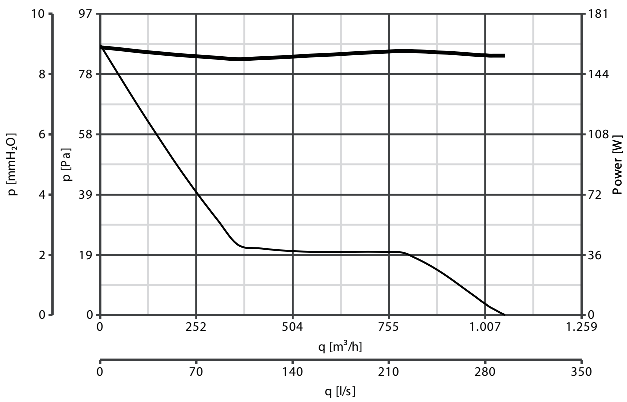


Models	Ø nom	A	B	C	D	Ø E	Ø F	G	Ø H	L	Kg
E 254 M ATEX	250	320	320	305	280	256	250	95	8	10	8
E 304 M ATEX	315	380	380	307	330	308	300	97			8.8
E 354 M ATEX	355	450	450		380	360	350				9.5
E 404 M ATEX	400	510	510	327	430	410	400	117	12	15	11.5
E 454 M ATEX	450	630	630	325	530	460	448	112			14
E 254 T ATEX	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

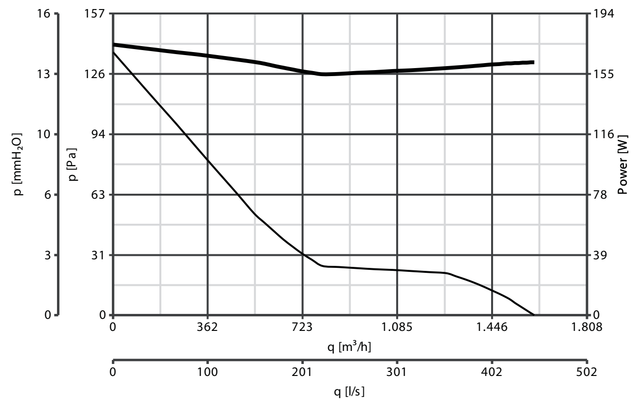
Dimensions (mm)

PERFORMANCE CURVES

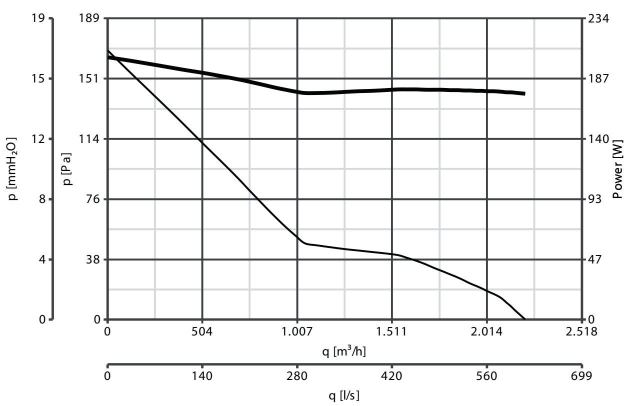
E 254 M ATEX code 40301



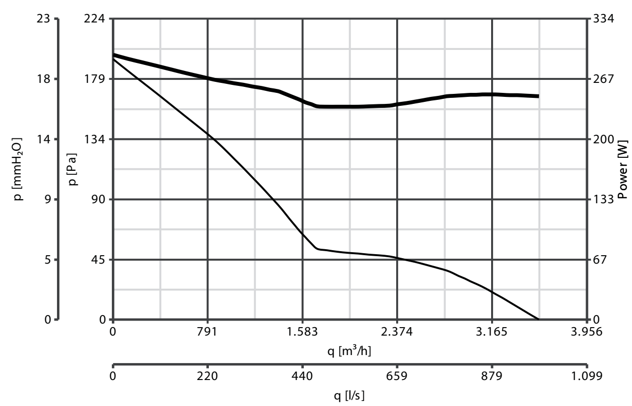
E 304 M ATEX ATEX code 40302



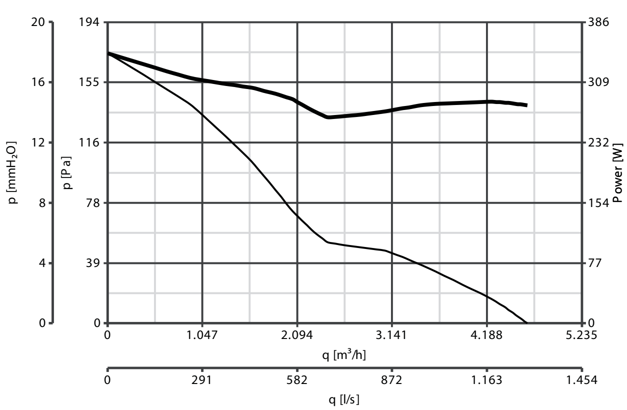
E 354 M ATEX code 40304



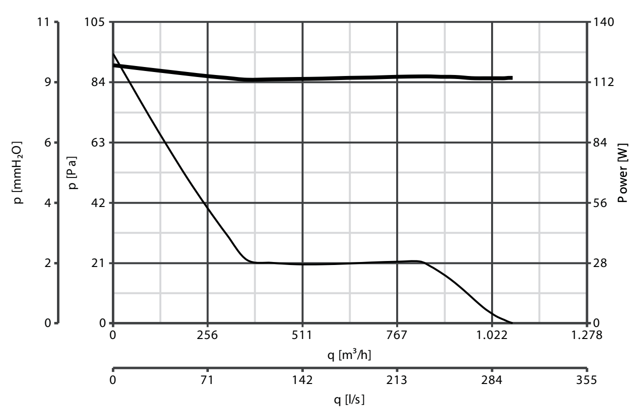
E 404 M ATEX code 40306



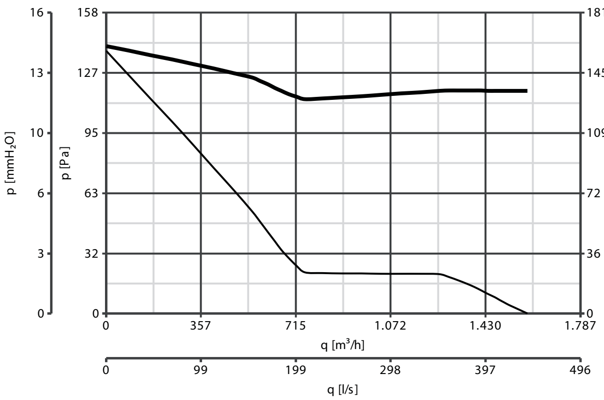
E 454 M ATEX code 40308



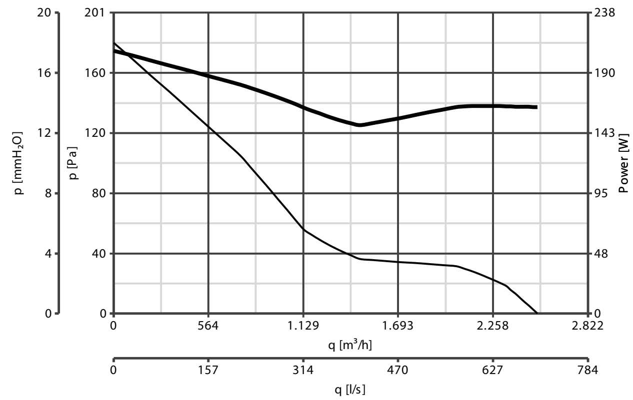
E 254 T ATEX code 40309



E 304 T ATEX code 40310



E 354 T ATEX code 40313



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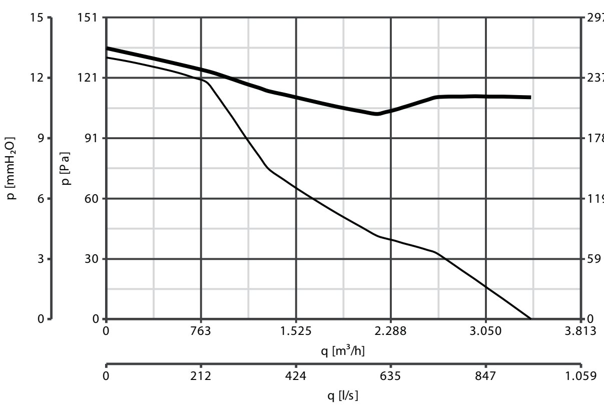
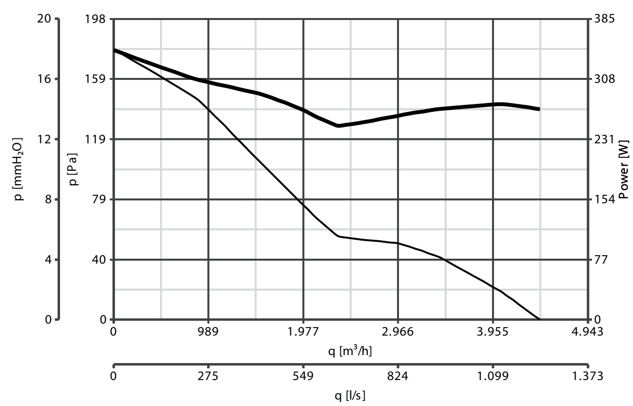
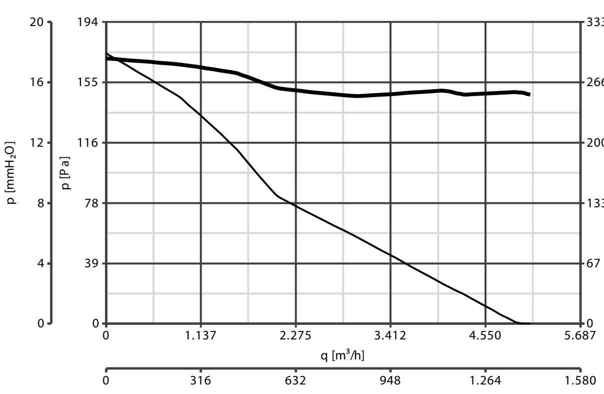


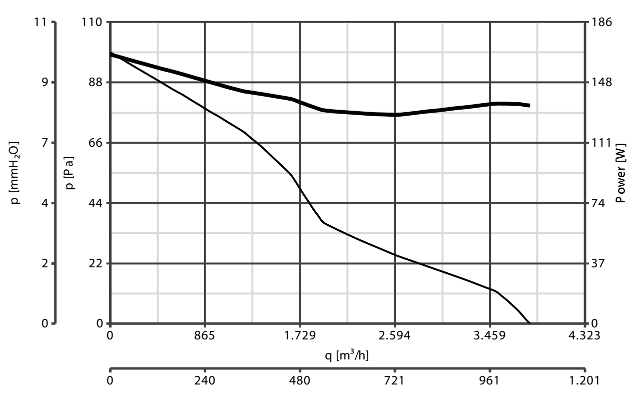
E 454 T ATEX code 40315



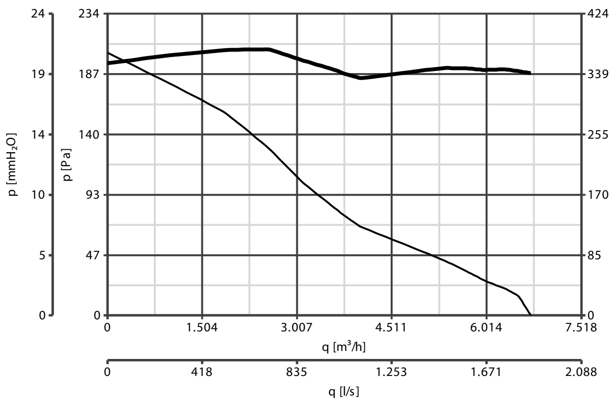
E 504 T ATEX code 40316



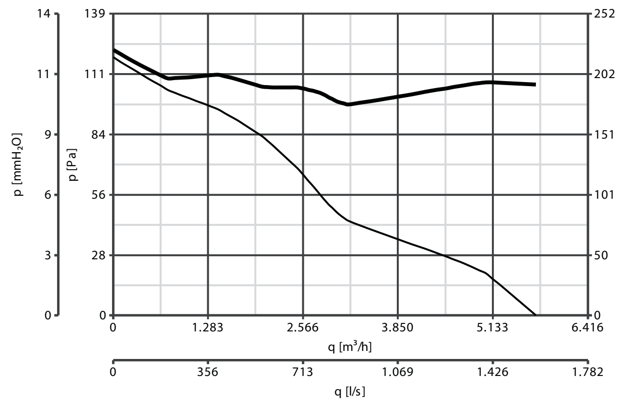
E 506 T ATEX code 40319



E 604 T ATEX code 40317



E 606 T ATEX code 40318



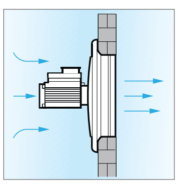
Delivery   Consumption

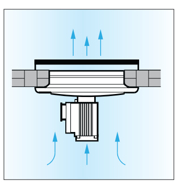
Note

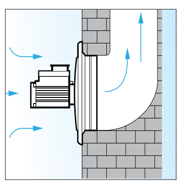
CE

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

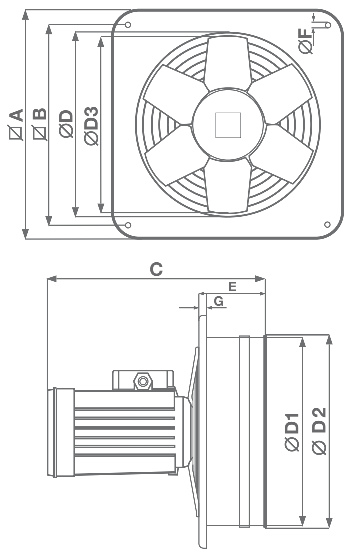
TECHNICAL DATA

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

	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	l/s	Max Pressure mmH₂O	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	
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			2200	611	13	127	59	
Single-phase	MP 354 M	42214	240 - 270	1.15 - 1.18	4	1400	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			2200	611	15	147	59	70
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	4	1400	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



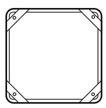
Models	Ø nom	⧄A	⧄B	C	Ø D	Ø D 1	Ø D 2	Ø D 3	E	Ø F	G	Kg
MP 252 M MP 254 M MP 254 T	250	320	280	279	256	258.5	264	250	92	8	10	6.1
MP 302 M MP 302 T	315	380	330	308	308	310.5	316	300	94			9.4
MP 304 M MP 304 T												6.9
MP 354 M MP 354 T	355	450	380	288	360	362.5	368	350				10.2
MP 404 M MP 404 T	400	510	430	308	410	412.5	418	400	114	12	15	11.2
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	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	●			●	●	●									●	

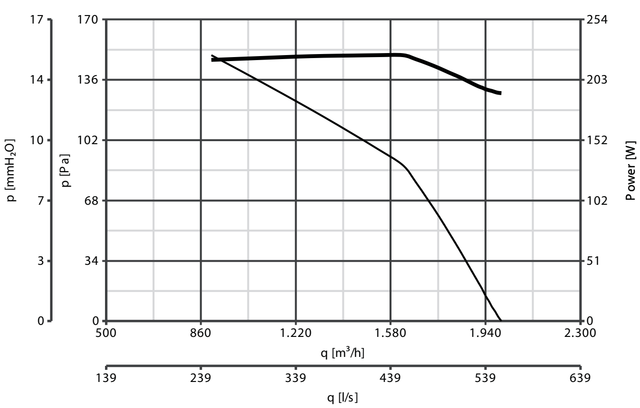
* Can control several fans up to a max of 5 A. ** Intended to simultaneously control appliances, up to a max of 9 A.

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**						●					●					

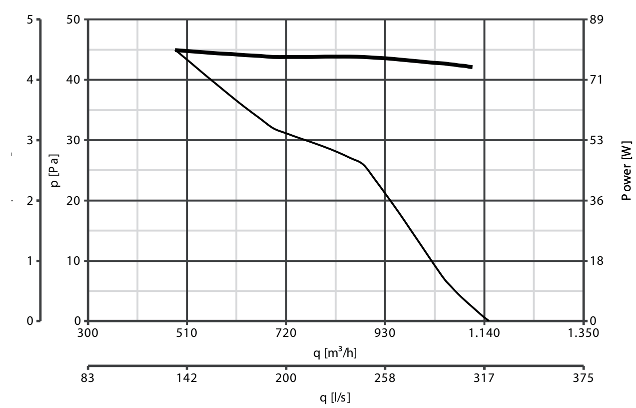
Description and sizes on page 1325; System components on page 330

PERFORMANCE CURVES

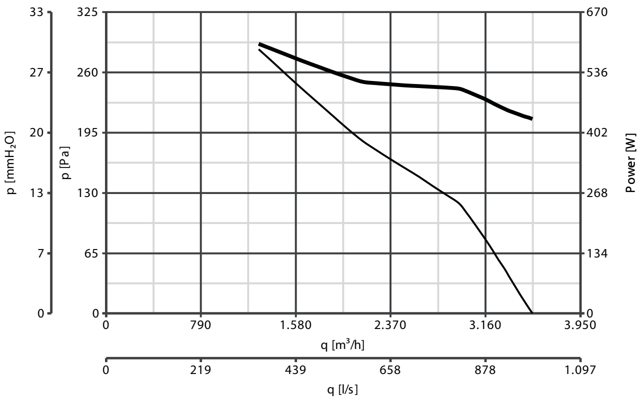
MP 252 M code 42252



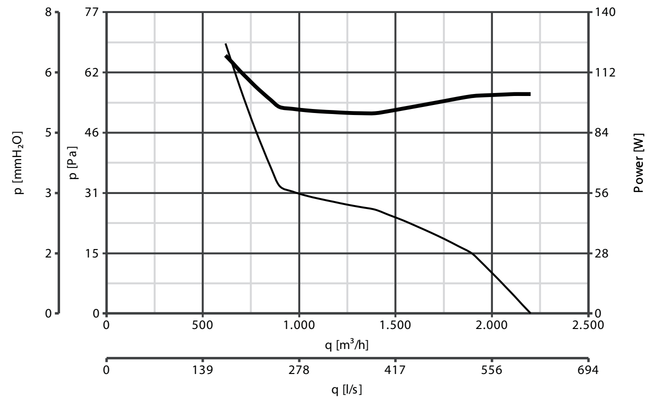
MP 254 M code 42254



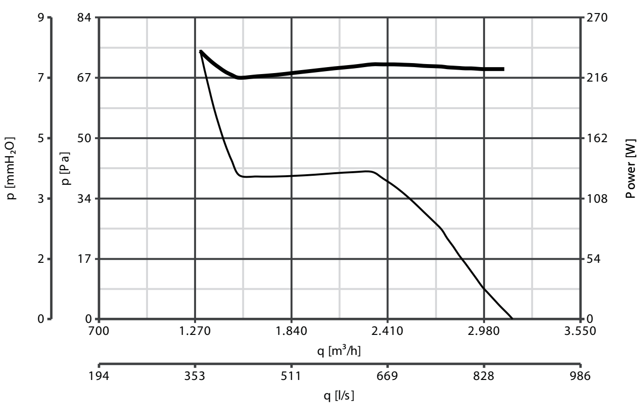
MP 302 M code 42202



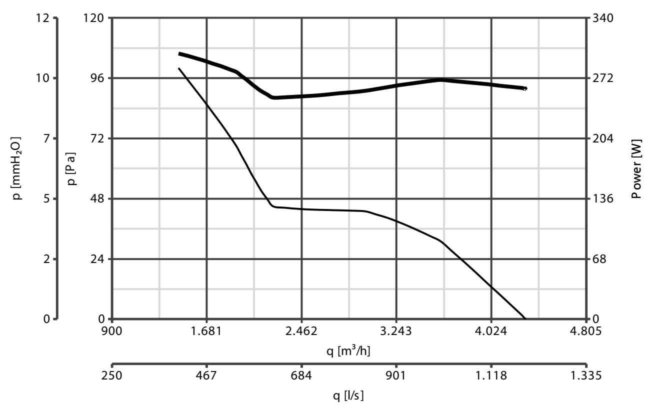
MP 304 M code 42204



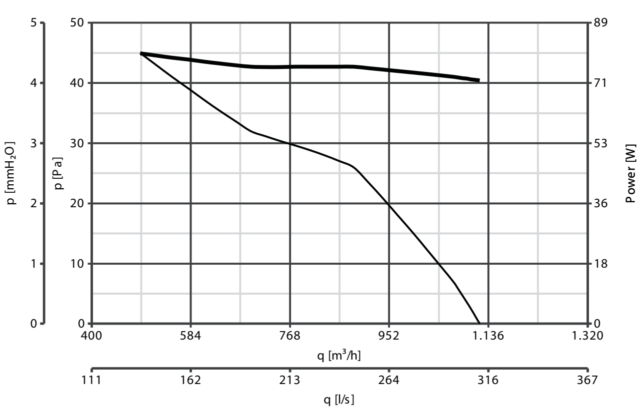
MP 354 M code 42214



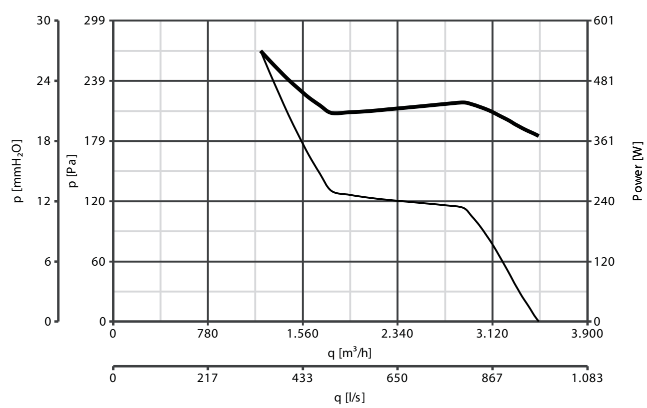
MP 404 M code 42224



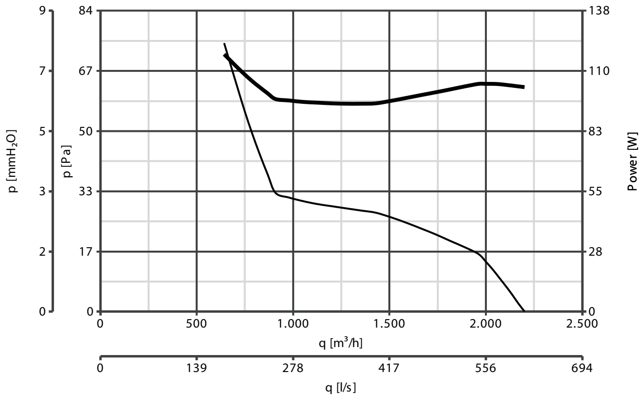
MP 254 T code 42354



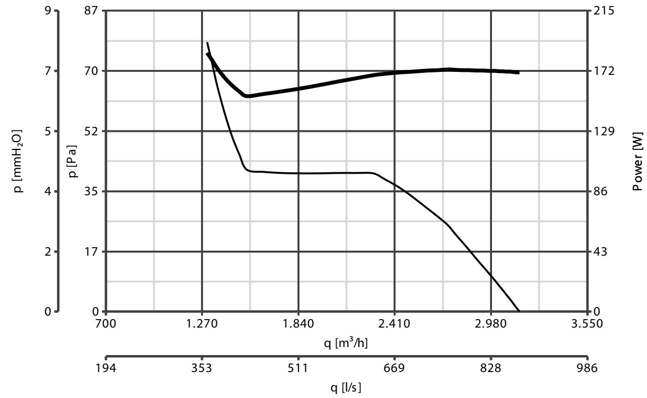
MP 302 T code 42302



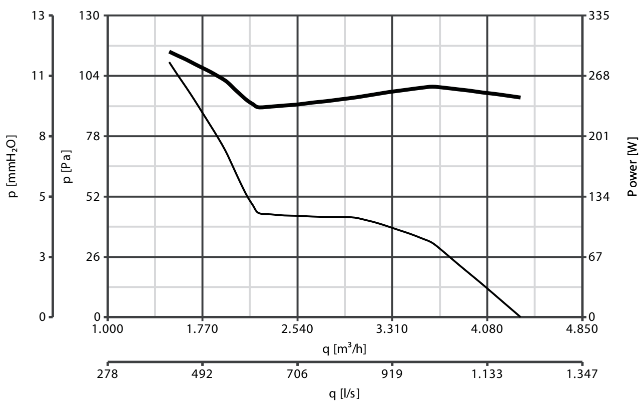
MP 304 T code 42304



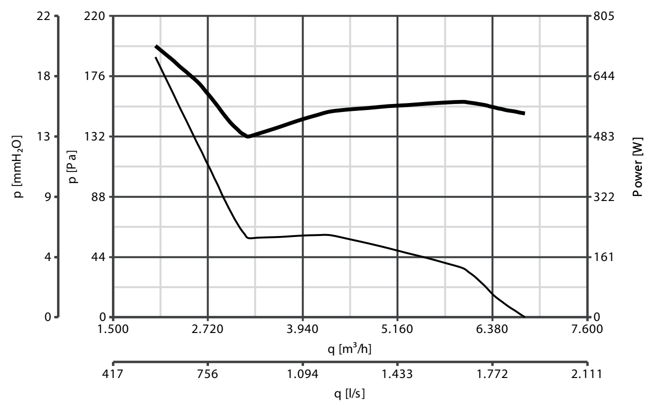
MP 354 T code 42314



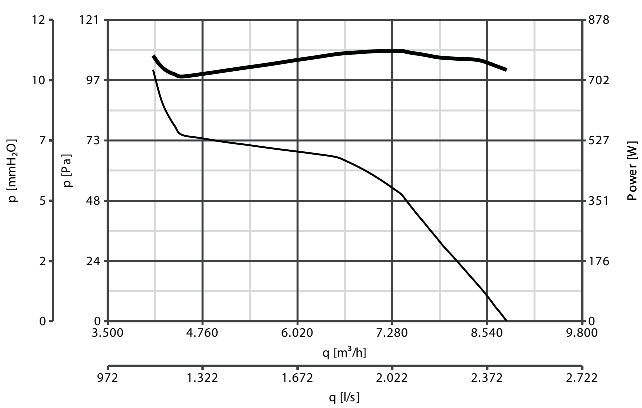
MP 404 T code 42324



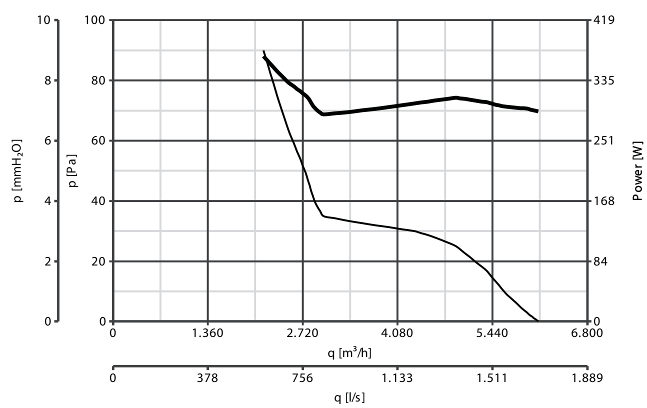
MP 454 T code 42335



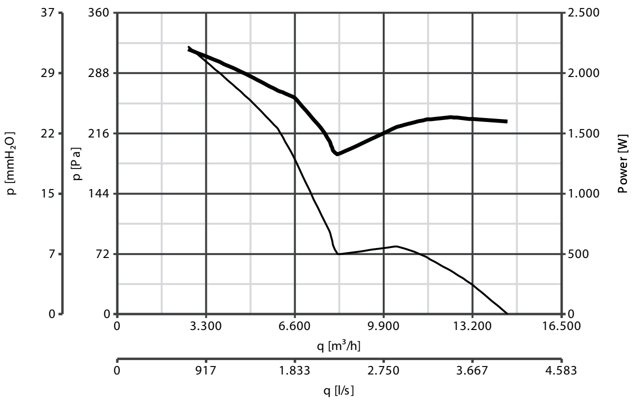
MP 504 T code 42344



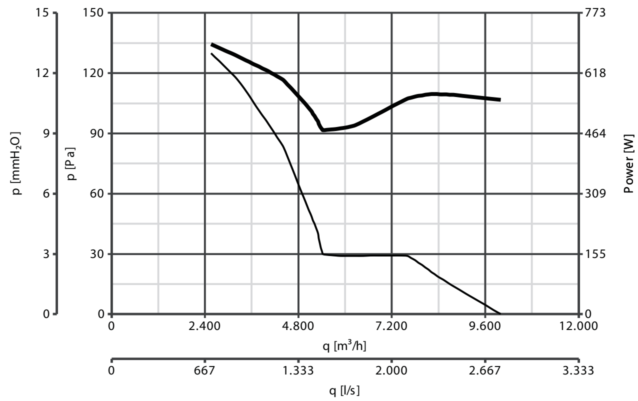
MP 506 T code 42334



MP 604 T code 42374



MP 606 T code 42364



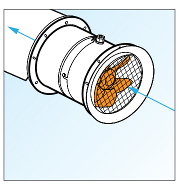
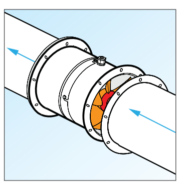
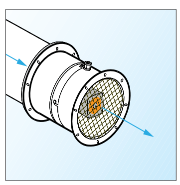
Delivery Consumption

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 mmH_2O	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
Single-phase	**MPC-E 302 M**	**42209**	380	1.93	2	2930	2860	794	60.9	597	53.1	73.6	70
Single-phase	**MPC-E 304 M**	**42210**	110	0.5	4	1390	2160	600	10.1	99	34.8	55.3	70
Single-phase	**MPC-E 354 M**	**42217**	200	0.95	4	1420	3500	972	14.2	139	41.7	62.2	70
Single-phase	**MPC-E 404 M**	**42228**	313	1.5	4	1417	5000	1389	17	167	49.1	69.6	50
Three-phase	**MPC-E 254 T**	**42359**	60	0.21	4	1460	1210	336	8.2	80	25.3	45.8	70
Three-phase	**MPC-E 302 T**	**42309**	397	1.15	2	2930	2900	805	62	608	53.1	73.6	70
Three-phase	**MPC-E 304 T**	**42310**	107	0.24	4	1400	2250	625	10.4	102	34.8	55.3	70
Three-phase	**MPC-E 354 T**	**42317**	198	0.42	4	1412	3770	1047	14.2	139	42.5	63	70
Three-phase	**MPC-E 404 T**	**42328**	285	0.52	4	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.

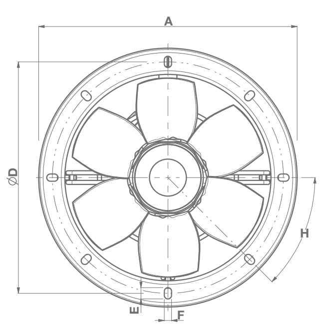
ErP data

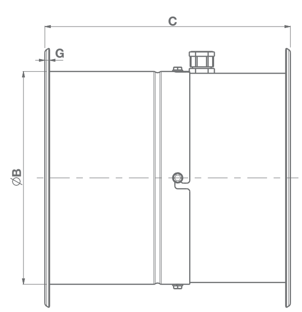
Directive 2009/125/EC ErP (Energy related Products)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	BEP*						Spec. ratio <1.04
							η	N.	(kW) Pe	m³/h q	Pa p	RPM	
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

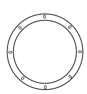
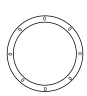
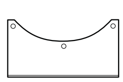
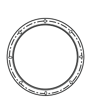
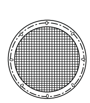




Models	Ø A	Ø B	C	Ø D	E	F	G	H	Kg
MPC-E 254 M	319	264	300	292	14	9	4	45°	8.2
MPC-E 254 T									8.2
MPC-E 302 M	393	316	330	366					12.3
MPC-E 302 T									12.3
MPC-E 304 M									10.2
MPC-E 304 T									10.2
MPC-E 354 M	432	368		405					13.4
MPC-E 354 T									13.4
MPC-E 404 M	475	418		448					14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

Dimensions (mm)

PRODUCT ACCESSORIES

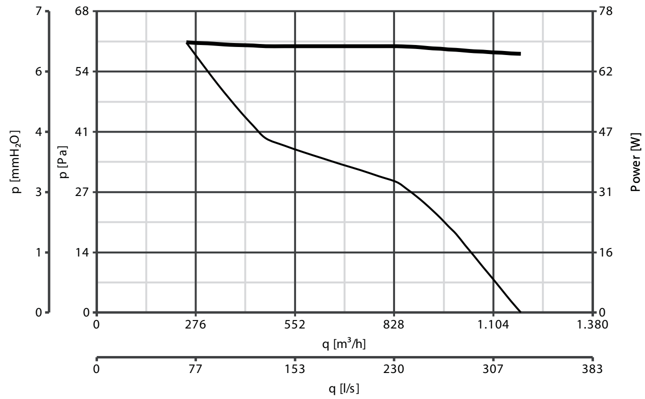
Models		Code	Product									
			MPC-E 254 M code 42263	**MPC-E 302 M** code 42209	**MPC-E 304 M** code 42210	**MPC-E 354 M** code 42217	**MPC-E 404 M** code 42228	**MPC-E 254 T** code 42359	**MPC-E 302 T** code 42309	**MPC-E 304 T** code 42310	**MPC-E 354 T** code 42317	**MPC-E 404 T** code 42328
	**IRM 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.

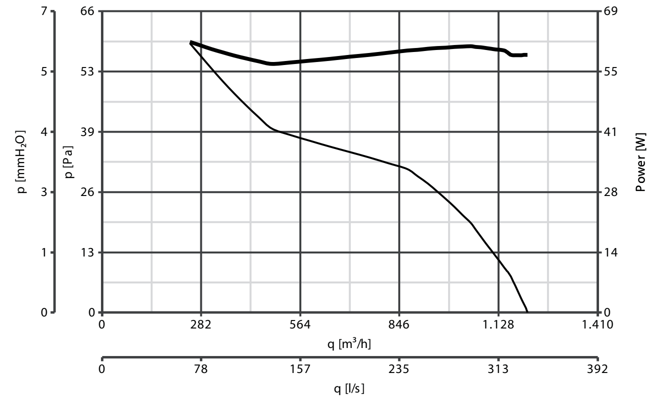
Description and sizes on page 325; ystem components on page 300.

PERFORMANCE CURVES

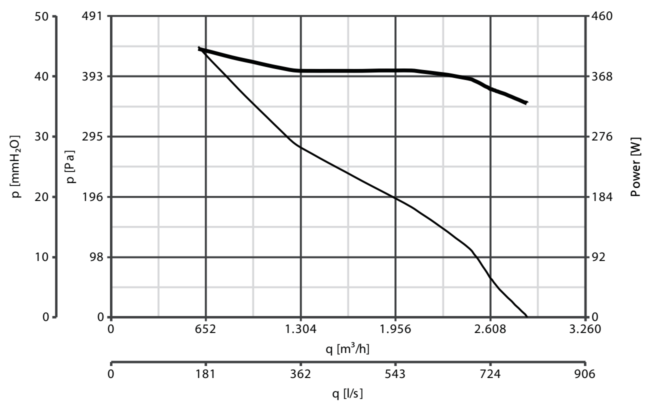
MPC-E 254 M code 42263



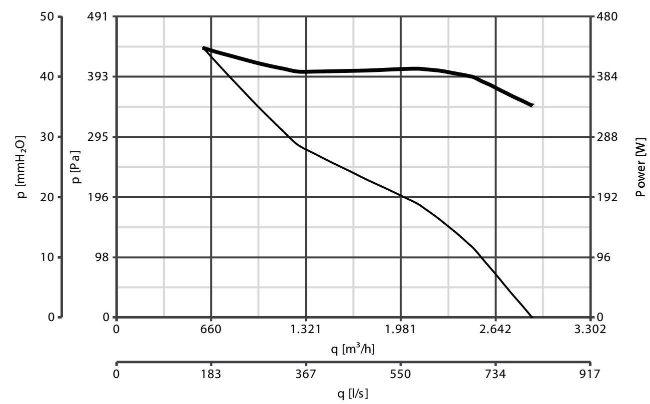
MPC-E 254 T code 42359



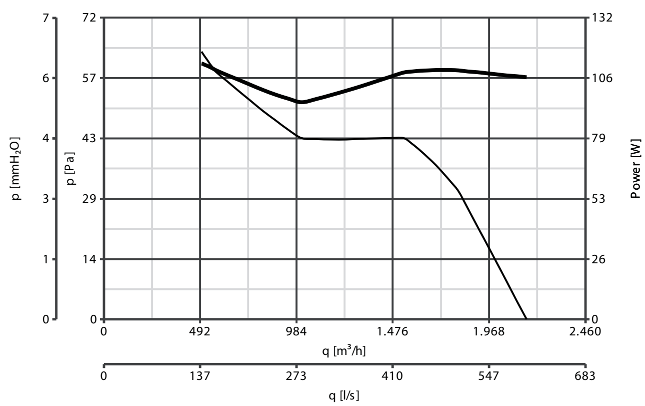
MPC-E 302 M code 42209



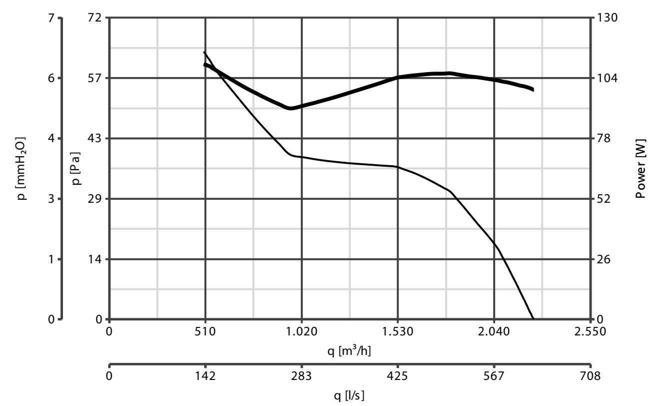
MPC-E 302 T code 42309



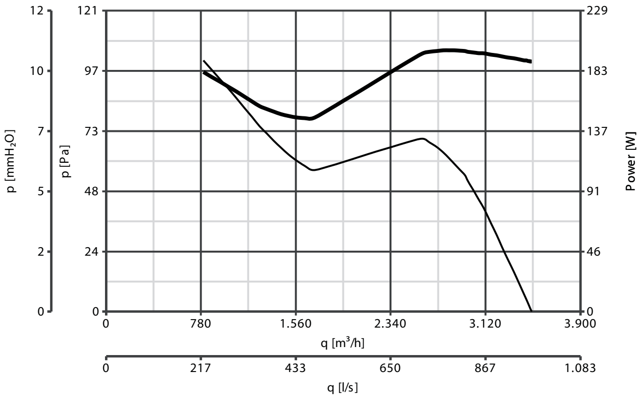
MPC-E 304 M code 42210



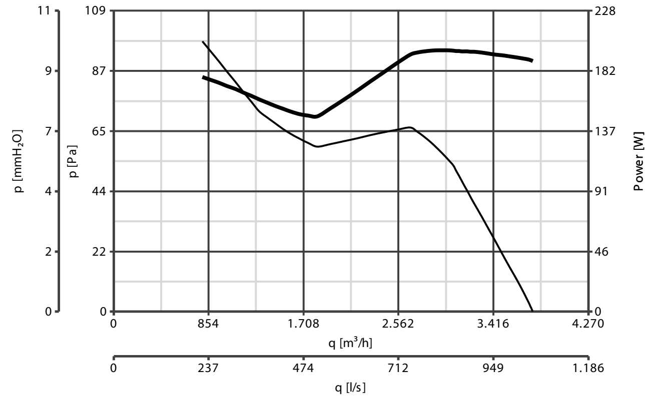
MPC-E 304 T code 42310



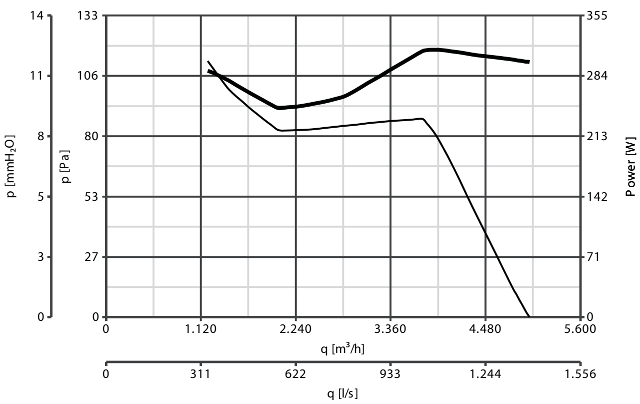
MPC-E 354 M code 42217



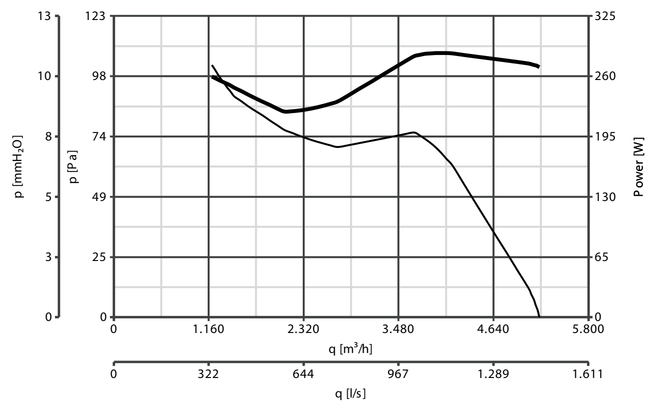
MPC-E 354 T code 42317



MPC-E 404 M code 42228



MPC-E 404 T code 42328



Delivery Consumption

Note

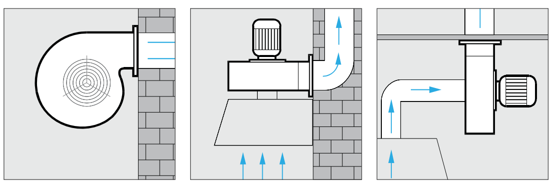
NEW

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$_2$O	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	
	C 15/2 T	**30951**	160	0.35	2	2800	430	119.4	43	422	59	50
	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

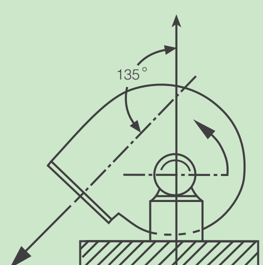
Directive 2009/125/EC ErP (Energy related Products)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	(kW) Pe	BEP* m³/h q	Pa p	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.

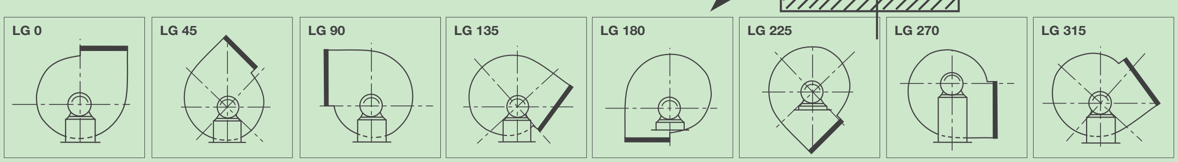
Orientation

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.

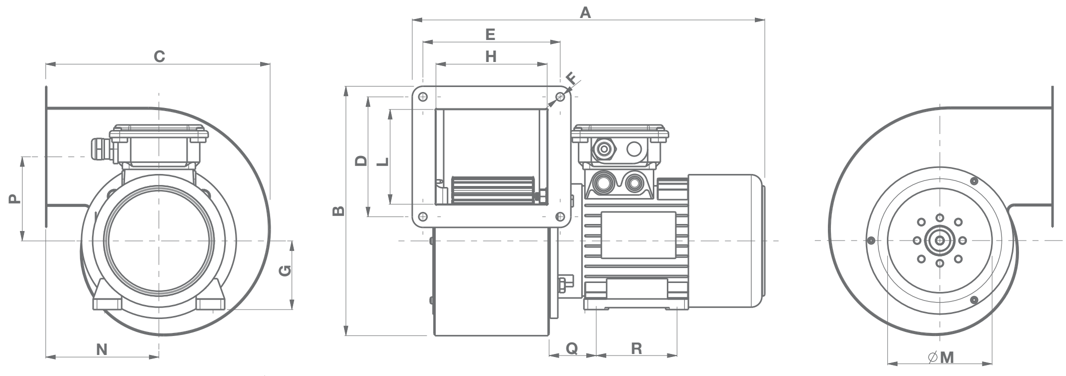


Designation of delivery outlet position for radial fans.

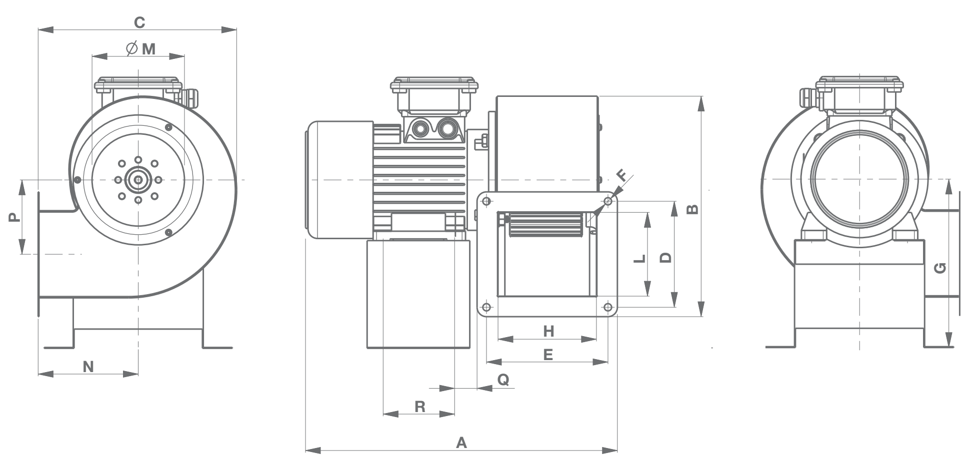
Adjacent example: LG 135



DIMENSIONS



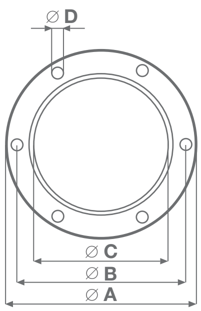
Models	A	B	C	D	E	F	G	H	L	Ø M	N	P	Q	R	Kg
C 10/2 M	260	186	171	72	82	6.5	56	68	63	80	81	66.5	36	71	2.7
C 10/2 T															4.6
C 15/2 M	281	234	206	108	100	7		83	88	108	99	79			5
C 15/2 T															3.3
C 20/2 M E	350	258	232	123	123	8.5	71	102	98		117	87	45	90	6
C 20/2 T E															6.3
C 25/2 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



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<tr><td>C 10</td><td>111.5</td><td>100</td><td>80</td><td rowspan="5">7</td><td rowspan="5">6</td></tr>
<tr><td>C 15</td><td>141</td><td>128</td><td rowspan="3">108</td></tr>
<tr><td>C 20</td><td rowspan="2">152</td><td rowspan="2">132</td></tr>
<tr><td>C 25</td></tr>
<tr><td>C 30</td><td>190</td><td>170</td><td>132</td></tr>
<tr><td>C 31</td><td rowspan="2">240</td><td rowspan="2">220</td><td rowspan="2">170</td><td rowspan="6">8.5</td><td rowspan="6">8</td></tr>
<tr><td>C 35</td></tr>
<tr><td>C 37</td><td rowspan="2">282</td><td rowspan="2">262</td><td rowspan="2">199</td></tr>
<tr><td>C 40</td></tr>
<tr><td>C 45</td><td>320</td><td>300</td><td>236</td></tr>
<tr><td>C 46</td><td>420</td><td>395</td><td>288</td></tr>
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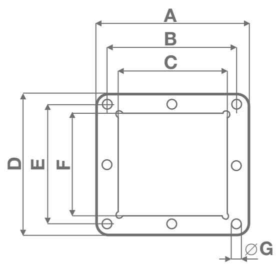
Delivery outlet



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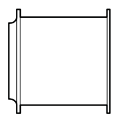
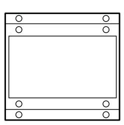
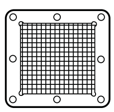
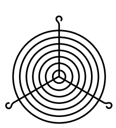
<tr><td>C 10</td><td>98</td><td>82</td><td>68</td><td>88</td><td>72</td><td>63</td><td>6.5</td><td rowspan="5">4</td></tr>
<tr><td>C 15</td><td>125</td><td>100</td><td>83</td><td>132</td><td>108</td><td>88</td><td>7</td></tr>
<tr><td>C 20</td><td>145</td><td>123</td><td>102</td><td>145</td><td>123</td><td rowspan="2">98</td><td rowspan="7">8.5</td></tr>
<tr><td>C 25</td><td>164</td><td>142</td><td>115</td><td>146</td><td>124</td></tr>
<tr><td>C 30</td><td>162</td><td>137</td><td>117</td><td>150</td><td>126</td><td>108</td></tr>
<tr><td>C 31</td><td>165</td><td>139</td><td>112</td><td rowspan="2">190</td><td rowspan="2">164</td><td rowspan="2">137</td><td rowspan="6">8</td></tr>
<tr><td>C 35</td><td>200</td><td>174</td><td rowspan="2">149</td></tr>
<tr><td>C 37</td><td>218</td><td>182</td><td rowspan="2">250</td><td>220</td><td rowspan="2">187</td></tr>
<tr><td>C 40</td><td>244</td><td>208</td><td>185</td><td>214</td></tr>
<tr><td>C 45</td><td>260</td><td>228</td><td>200</td><td>260</td><td>228</td><td>200</td><td>9</td></tr>
<tr><td>C 46</td><td>295</td><td>264</td><td>236</td><td>336</td><td>306</td><td>277</td><td>11.5</td></tr>
</table>

PRODUCT ACCESSORIES

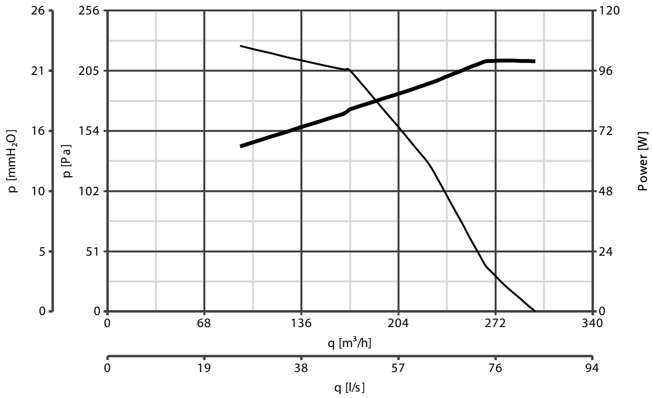
Models		Code	Product																				
			C 10/2 M code 30302	C 15/2 M code 30902	C 20/2 M E code 30321	C 25/2 M E code 30323	C 30/2 M E code 30325	C 30/4 M E code 30327	C 35/4 M E code 30330	C 37/4 M E code 30332	C 40/4 M E code 30334	C 10/2 T code 30351	C 15/2 T code 30951	C20/2 T code 30322	C 25/2 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**																					●

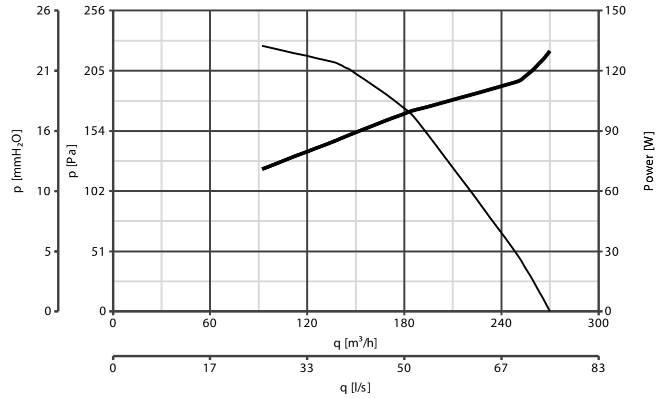
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

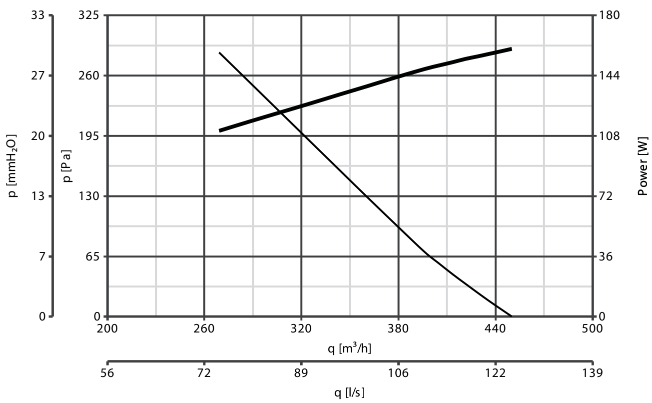
C 10/2 M code 30302



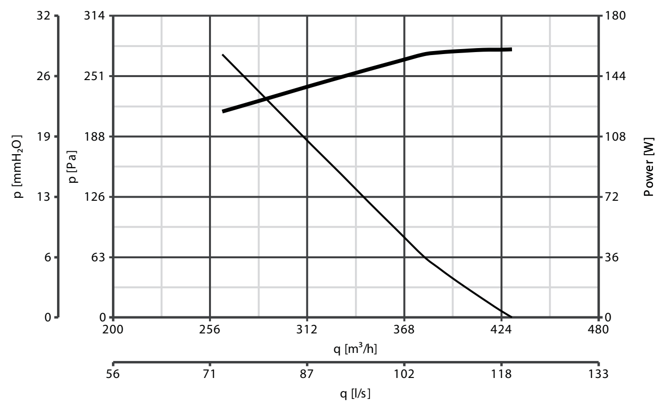
C 10/2 T code 30351



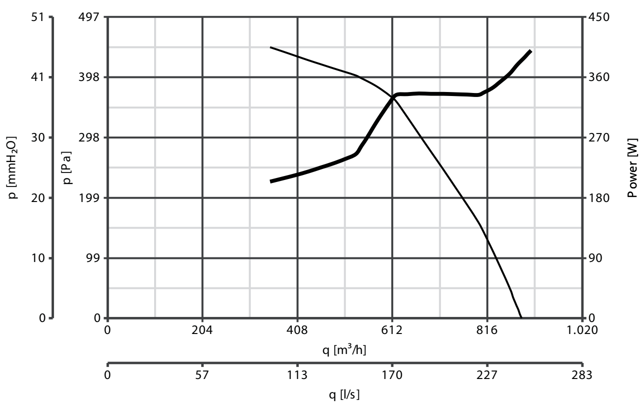
C 15/2 M code 30902



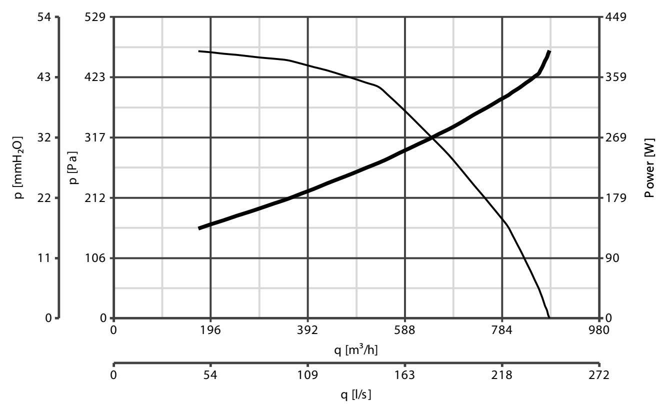
C 15/2 T code 30951



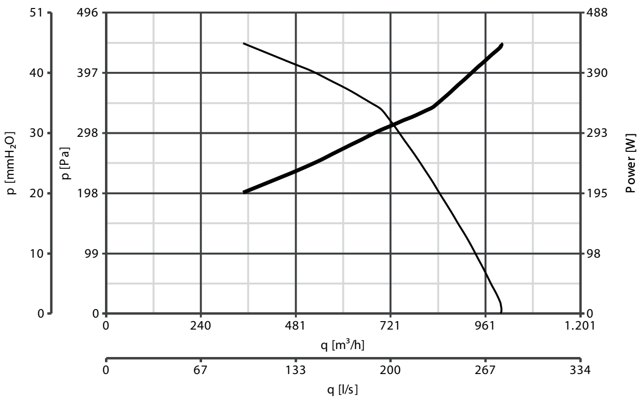
C 20/2 M E code 30321



C 20/2 T E code 30322



C 25/2 M E code 30323



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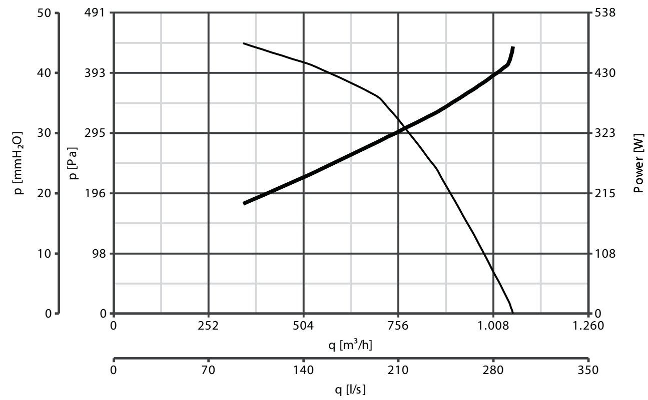
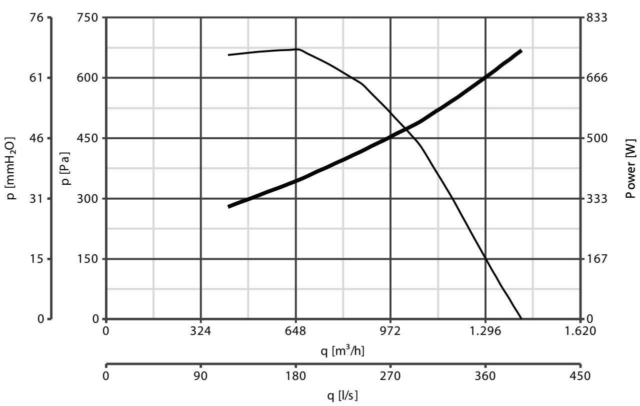
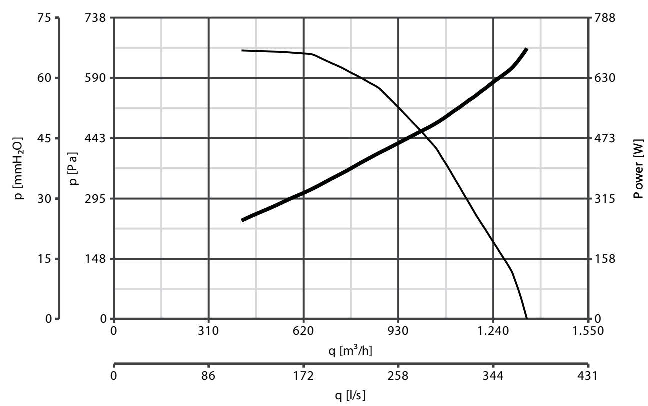


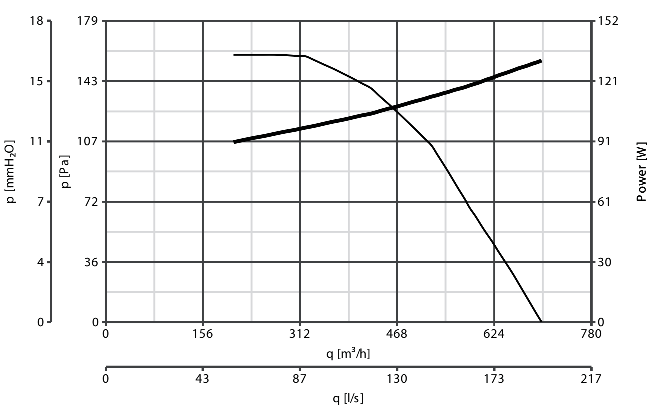
C 30/2 M E code 30325



C 30/2 T E code 30326



C 30/4 M E code 30327



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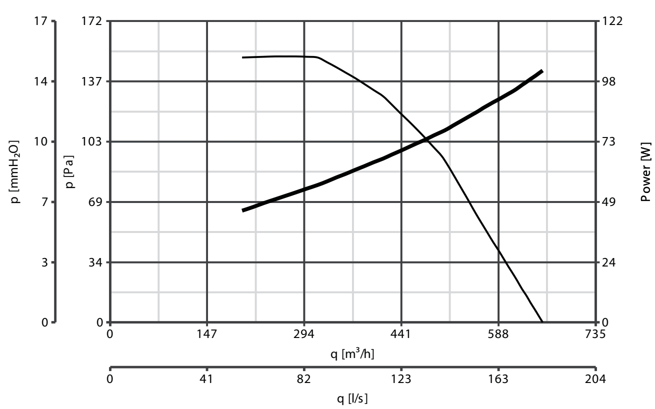
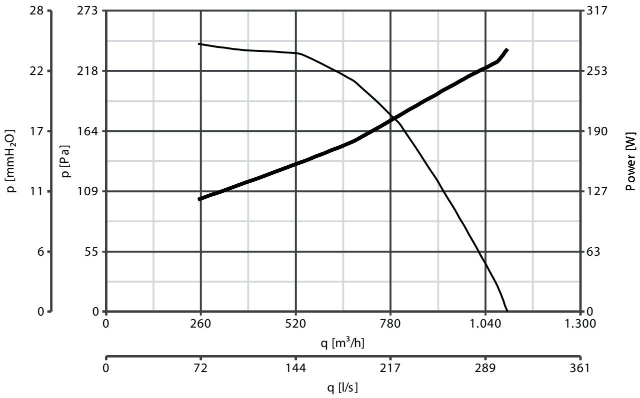
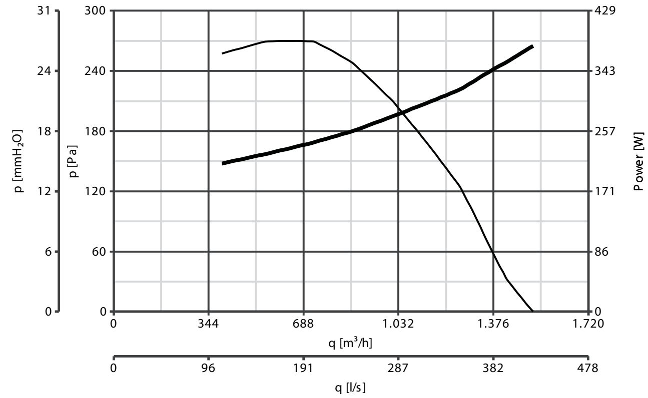


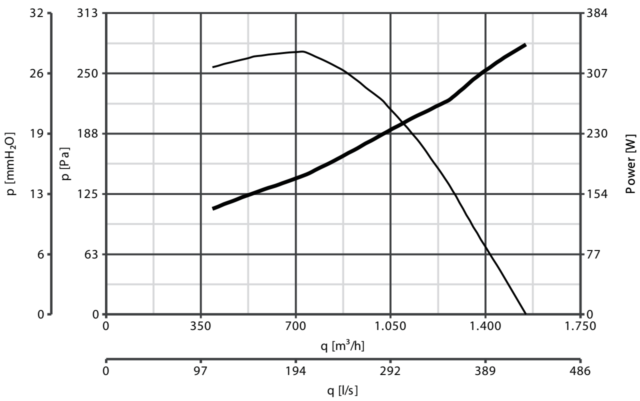
C 31/4 T E code 30329



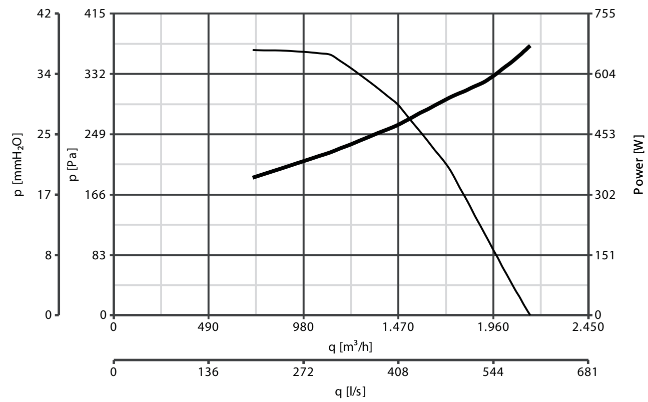
C 35/4 M E code 30330



C 35/4 T E code 30331



C 37/4 M E code 30332



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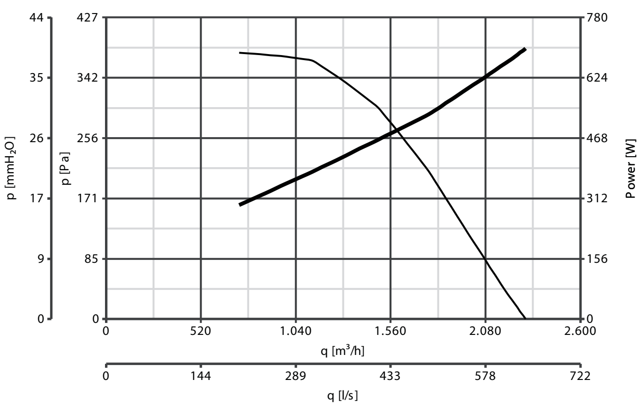
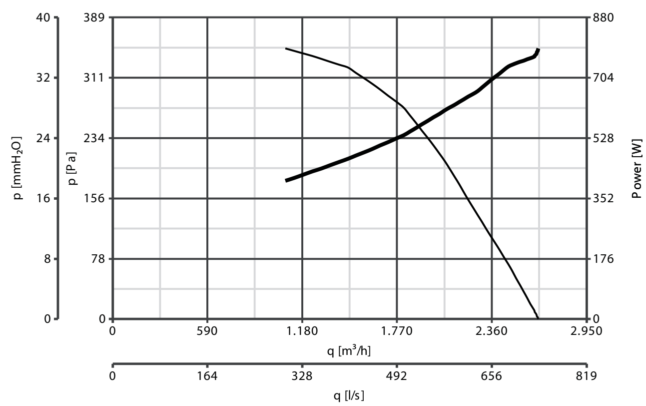
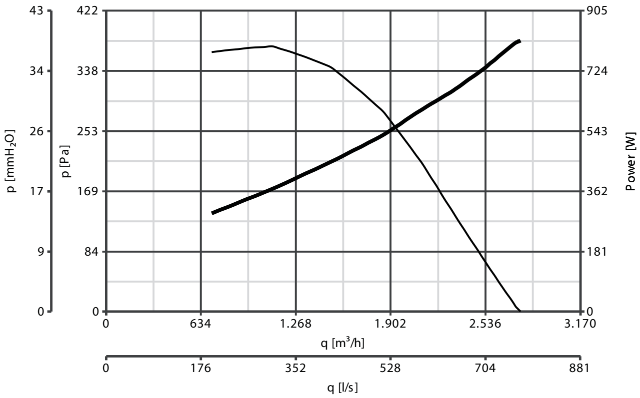


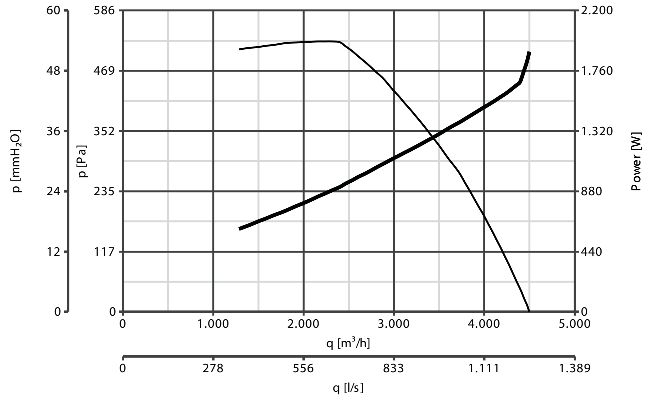
C 40/4 M E code 30334



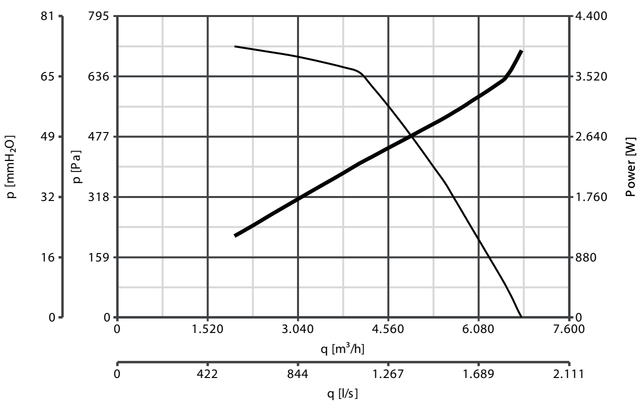
C 40/4 T E code 30335



C 45/4 T E code 30336



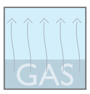
C 46/4 T E code 30337



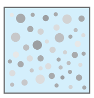
Delivery Consumption

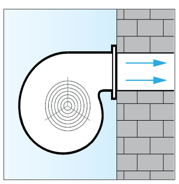
C ATEX RANGE

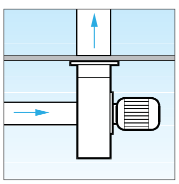
Centrifugal fans for installation in potentially explosive areas

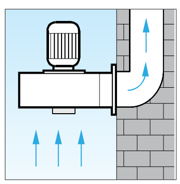


GAS


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.

- **9 models**: ***9 three-phase***.
- One speed.
- Double-coated sheet-steel frame with spiral housing.
- Brushed copper nozzles.
- Double-coated galvanised steel wire mesh over the inlet port.
- Aluminium centrifugal impeller with front blades and die-cast aluminium hub.
- Painting consisting of protective base coat and polyurethane finishing paint.
- Airflow up to 2150 m³/h.
- High pressures over 800 Pa.
- Constant operating temperature between -20°C and +40°C.
- Electric supply 400 V / 50 Hz
- 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***.

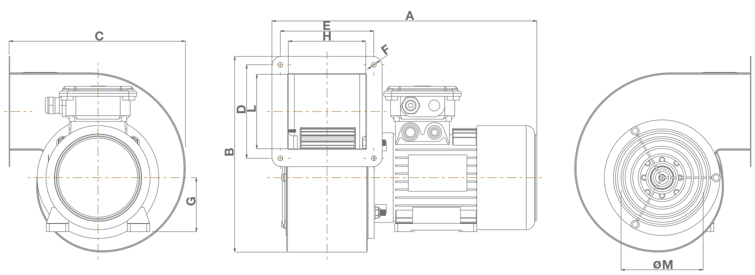
Wiring diagrams shown from page 458

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
Three-phase	**C 10/2 T ATEX**	**30301**	120	0.36	2	2800	280	77.8	26	255	55.5	40
	C 15/2 T ATEX	**30304**	175	0.39			430	119.4	44	430	59	
	C 20/2 T ATEX	**30305**	472	1.09			1000	277.8	56	549	66	
	C 25/2 T ATEX	**30306**	482	1.10			1100	305.6	67	657	66.5	
	C 30/2 T ATEX	**30307**	902	1.57			1350	375	83	814	71	
	C 30/4 T ATEX	**30308**	226	0.95	4	1400	700	194.4	18	177	55	
	C 31/4 T ATEX	**30309**	375	1.01			1120	311.1	31	304	61	
	C 35/4 T ATEX	**30310**	401	1.02			1500	416.7	34	334	61	
	C 37/4 T ATEX	**30311**	803	1.80			2150	597.2	48	470	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 3741:2009.

DIMENSIONS

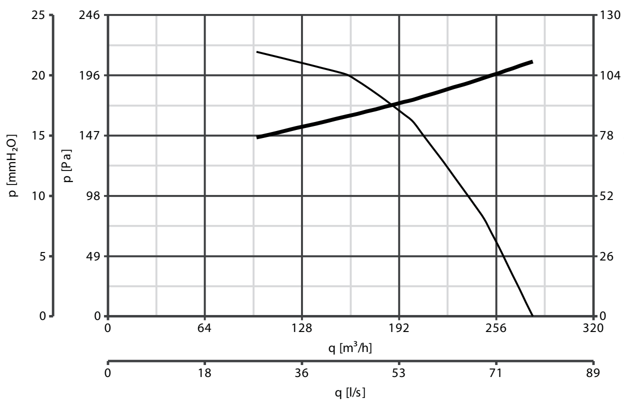


Models	A	B	C	D	E	F	G	H	L	Ø M	Kg
C 10/2 T ATEX	260	186	171	72	82	6.5	56	68	63	80	4
C 15/2 T ATEX	280	234	206	108	100	7	56	83	88	108	4.5
C 20/2 T ATEX	350	258	232	123	123	8.50	71	102	98	108	8.5
C 25/2 T ATEX	365	258	232	124	142	8.50	71	115	98	108	8.5
C 30/2 T ATEX	365	308	272	126	137	8.50	71	117	108	132	10
C 30/4 T ATEX	365	308	272	126	137	8.50	71	117	108	132	7.5
C 31/4 T ATEX	365	400	340	164	139	8.50	71	112	137	170	10.5
C 35/4 T ATEX	400	400	340	164	174	8.50	71	149	137	170	11.5
C 37/4T ATEX	425	471	416.50	220	182	8.50	80	149	187	199	17

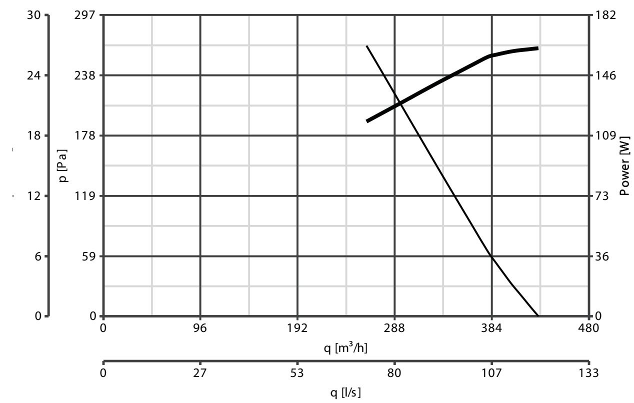
Dimensions (mm)

PERFORMANCE CURVES

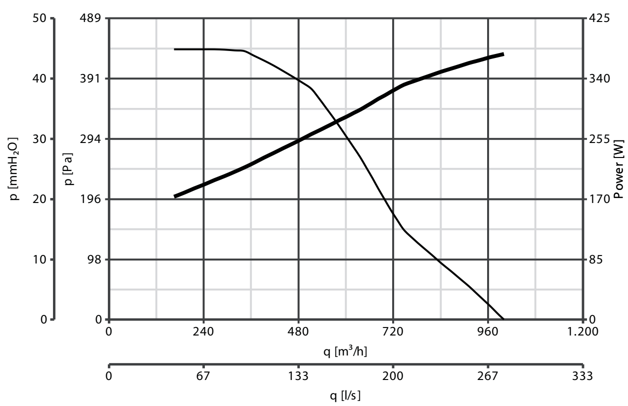
C 10/2 T ATEX code 30301



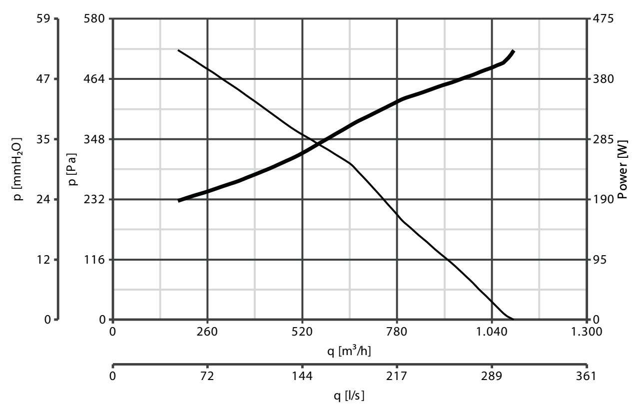
C 15/2 T ATEX code 30304



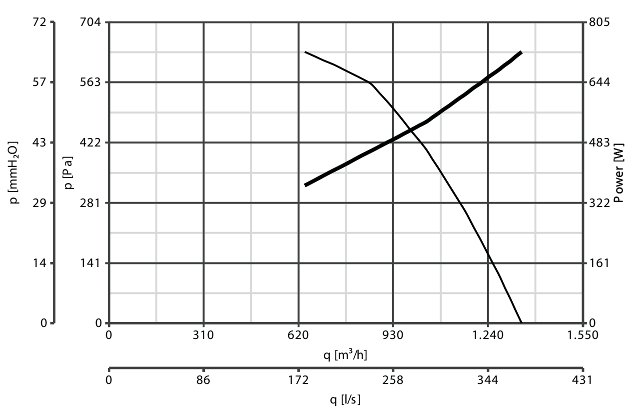
C 20/2 T ATEX code 30305



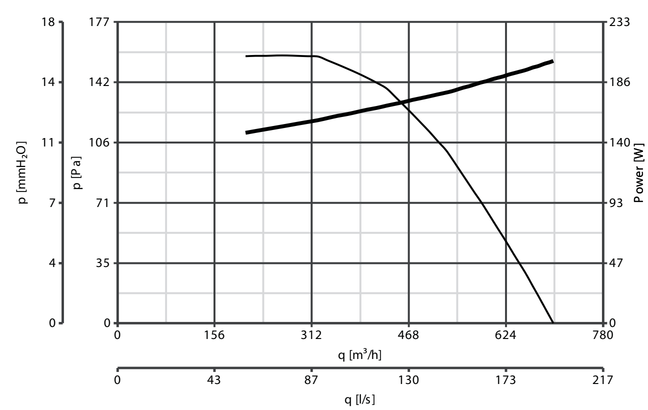
C 25/2 T ATEX code 30306



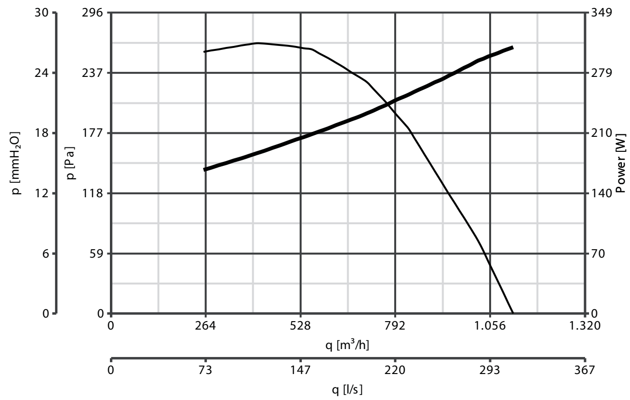
C 30/2 T ATEX code 30307



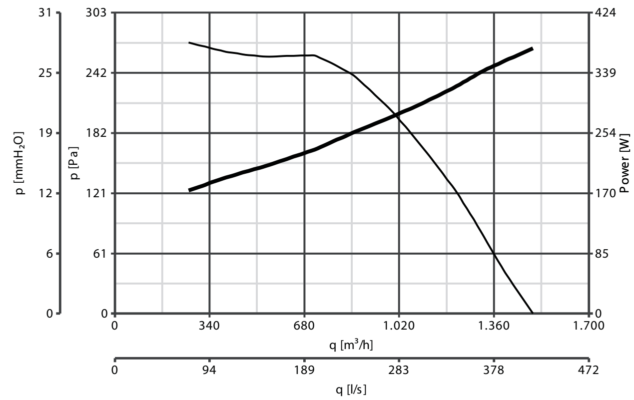
C 30/4 T ATEX code 30308



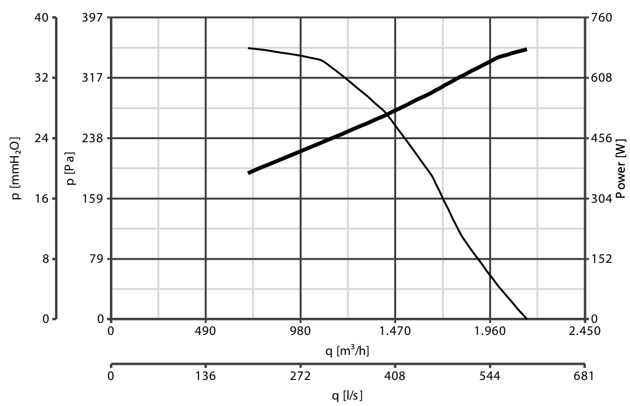
C 31/4 T ATEX code 30309



C 35/4 T ATEX code 30310



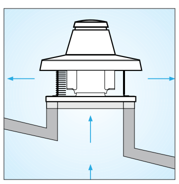
C 37/4 T ATEX code 30311

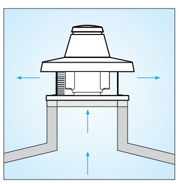


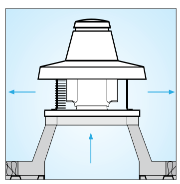
Delivery   Consumption

TORRETTE TR E RANGE

Centrifugal roof fans for horizontal discharge







Suitable for application in residential and industrial environments, for factories, hospitals, nightclubs, offices, theatres, apartment blocks, gyms, restaurants, etc... Easy to install on top of all roofs.

- **20 models**: ***6 single-phase*** *and* ***14 three-phase***.
- Metal frame coated in corrosion-proof epoxy resin to assure long life and weather resistance.
- Aerodynamic suction nozzle in polyester painted steel sheet.
- All models fitted with steel bird guard.
- Asynchronous induction motor, standard size UNELMEC B5, self-ventilated, with rotor mounted on ball bearings.
- Galvanised steel sheet fan with self cleaning, backward curved blades, self-ventilating, die cast aluminium hub, clockwise rotation (intake view).
- Single phase models can be controlled by an optional speed controller. Alternatively they can be controlled by means of optional inverters.
- Max airflow up to 18.000 m³/h.
- Motor insulation class H for models 15205, 15073, 15076, 15078, 15079; F for all other models.
- Protection rating: IP55.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

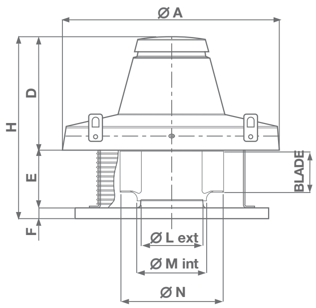
TECHNICAL DATA

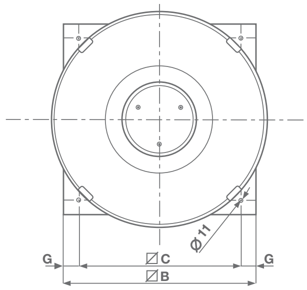
	Models	Code	W	A	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A)*	Max °C
Single-phase	**TRM 10 E 4P**	**15115**	100	0.50	4	1400	1100	306	22	216	56	90
Single-phase	**TRM 15 E 4P**	**15205**	150	0.70	4	1400	1400	389	26	255	58.5	80
Single-phase	**TRM 20 E 4P**	**15216**	280	1.30	4	1415	2600	722	36	353	62	85
Single-phase	**TRM 30 E 4P**	**15356**	400	1.80	4	1425	3300	917	44	432	67	70
Single-phase	**TRM 50 E 4P**	**15556**	800	3.70	4	1480	4800	1333	55	540	72.5	80
Single-phase	**TRM 70 E 4P**	**15070**	1000	4.35	4	1415	6400	1778	67.5	662	77	90
Three-phase	**TRT 10 E 4P**	**15155**	100	0.30	4	1400	1100	306	22	216	56	90
Three-phase	**TRT 15 E 4P**	**15255**	150	0.30	4	1400	1400	389	26	255	58.5	90
Three-phase	**TRT 20 E 4P**	**15215**	300	0.60	4	1400	2700	750	35	343	62	90
Three-phase	**TRT 30 E 4P**	**15355**	400	0.75	4	1400	3200	889	46	451	67	90
Three-phase	**TRT 50 E 4P**	**15555**	800	1.45	4	1400	4900	1361	61	598	72.5	90
Three-phase	**TRT 70 E 4P**	**15071**	950	1.85	4	1440	6400	1778	69	674	77	90
Three-phase	**TRT 70 E 6P**	**15072**	600	1.30	6	950	7000	1944	38	373	74	90
Three-phase	**TRT 100 E 4P**	**15073**	1900	3.25	4	1420	10000	2778	84.5	830	84	70
Three-phase	**TRT 100 E 6P**	**15074**	1100	2.30	6	950	10800	3000	48	471	77	85
Three-phase	**TRT 100 E 8P**	**15075**	930	2.10	8	715	11000	3056	34	334	71	80
Three-phase	**TRT 150 E 6P**	**15076**	1930	3.45	6	930	15000	4167	61	598	80	80
Three-phase	**TRT 150 E 8P**	**15077**	1600	3.10	8	715	15000	4167	45	441	74	75
Three-phase	**TRT 180 E 6P**	**15078**	3100	5.95	6	970	16000	4444	79	775	83	80
Three-phase	**TRT 210 E 6P**	**15079**	3400	6.40	6	980	18000	5000	79	775	84	70

* The sound pressure values conform to standard ISO 3744.
The appliances are designed so that they are able to operate at an air temperature more than 65°C.

Electric supply: 230 V ~ 50 Hz (Single-phase)
400 V ~ 50 Hz (Three-phase).

DIMENSIONS





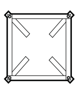
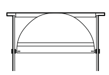
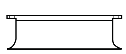
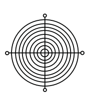
Models	Ø A	B	C	D	E	F	G	H	Ø L	Ø M	Ø N	Kg
TRM 10 E 4P	600	410	357	310	108	38	26.5	456	170	187.5	283	14.5
TRM 15 E 4P	600	410	357	310	108	38	26.5	456	182	199	315	15
TRM 20 E 4P	780	550	500	398	128	38	25	564	219	236.5	359	22
TRM 30 E 4P	780	550	500	398	146	38	25	582	244	265.5	404	23
TRM 50 E 4P	780	550	500	398	173	38	25	609	278	298	454	28
TRM 70 E 4P	1015	830	750	449	283	38	40	770	328	335	504	79
TRT 10 E 4P	600	410	357	310	108	38	26.5	456	170	187.5	283	14.5
TRT 15 E 4P	600	410	357	310	108	38	26.5	456	182	199	315	15
TRT 20 E 4P	780	550	500	398	128	38	25	564	219	236.5	359	22
TRT 30 E 4P	780	550	500	398	146	38	25	582	244	265.5	404	23
TRT 50 E 4P	780	550	500	398	173	38	25	609	278	298	454	28
TRT 70 E 4P	1015	830	750	449	283	38	40	770	328	335	504	77
TRT 70 E 6P	1015	830	750	449	283	38	40	770	365	375	564	80
TRT 100 E 4P	1015	830	750	449	283	38	40	770	365	375	564	81
TRT 100 E 6P	1165	980	900	605	383	38	40	1026	415	421	635	117
TRT 100 E 8P	1165	980	900	605	383	38	40	1026	465	472	715	127
TRT 150 E 6P	1165	980	900	605	383	38	40	1026	465	472	715	128
TRT 150 E 8P	1165	980	900	605	383	38	40	1026	520	529	805	132
TRT 180 E 6P	1165	980	900	605	383	38	40	1026	520	529	805	130
TRT 210 E 6P	1165	980	900	605	383	38	40	1026	520	529	805	180

Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	TRM 10 E 4P code 15115	TRM 15 E 4P code1 5205	TRM 20 E 4P code 15216	TRM 30 E 4P code 15356	TRM 50 E 4P code 15556	TRM 70 E 4P code 15070	TRT 10 E 4P code 15155	TRT 15 E 4P code 15255	TRT 20 E 4P code 15215	TRT 30 E 4P code 15355	TRT 50 E 4P code 15555	TRT 70 E 4P code 15071	TRT 70 E 6P code 15072	TRT 100 E 4P code 15073	TRT 100 E 6P code 15074	TRT 100 E 8P code 15075	TRT 150 E 6P code 15076	TRT 150 E 8P code 15077	TRT 180 E 6P code 15078	TRT 210 E 6P code 15079
	**IRM 30** Three position single-phase speed controller	12921	●	●																		
	IRM 40 Three position single-phase speed controller	12922			●	●																
	IRM 50 Three position single-phase speed controller	12928					●															
	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					●	●			●											
	**IREM 9**** Single-phase speed controller	12933	●	●				●														
	**IRET 6** Three-phase speed controller	12934												●	●		●	●	●	●		

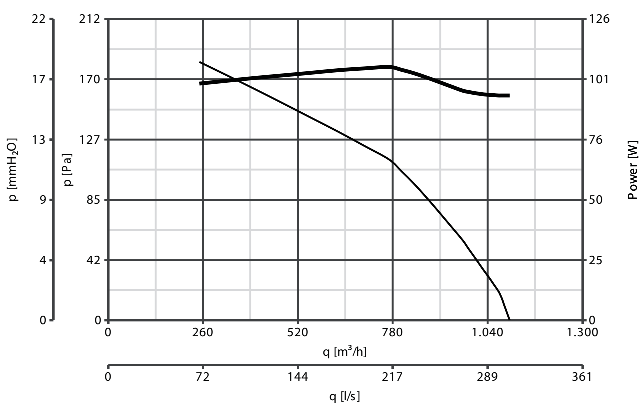
* Can control multiple fans up to a maximum 5A.
** Used for simultaneous control of multiple appliances up to a maximum 9A.

Models		Code	Product																			
			TRM 10 E 4P code 15115	**TRM 15 E 4P** code 15205	**TRM 20 E 4P** code 15216	**TRM 30 E 4P** code 15356	**TRM 50 E 4P** code 15556	**TRM 70 E 4P** code 15070	**TRT 10 E 4P** code 15155	**TRT 15 E 4P** code 15255	**TRT 20 E 4P** code 15215	**TRT 30 E 4P** code 15355	**TRT 50 E 4P** code 15555	**TRT 70 E 4P** code 15071	**TRT 70 E 6P** code 15072	**TRT 100 E 4P** code 15073	**TRT 100 E 6P** code 15074	**TRT 100 E 8P** code 15075	**TRT 150 E 6P** code 15076	**TRT 150 E 8P** code 15077	**TRT 180 E 6P** code 15078	**TRT 210 E 6P** code 15079
	**IRET INVERTER 1.2** Three-phase speed controller INVERTER	**12909**							●	●	●	●										
	IRET INVERTER 2.2 Three-phase speed controller INVERTER	**12925**											●	●	●		●	●				
	IRET INVERTER 5 Three-phase speed controller INVERTER	**12947**														●			●	●		
	IRET INVERTER 8 Three-phase speed controller INVERTER	**12989**																			●	●
	**IREM INVERTER 1.4** Single-phase speed controller INVERTER	**12935**							●	●	●	●										
	IREM INVERTER 4.2 Single-phase speed controller INVERTER	**12936**											●	●	●		●	●				
	IREM INVERTER 7 Single-phase speed controller INVERTER	**12937**														●			●	●		
	**C 1.5** Speed controller	**12966**	●	●																		
	**TR-CU 10/15** Sub-frame	**22511**	●	●					●	●												
	TR-CU 20/30/50 Sub-frame	**22512**			●	●	●				●	●	●									
	TR-CU 70/100 Sub-frame	**22539**						●						●	●	●						
	TR-CU 100/150-6P/8P Sub-frame	**22540**															●	●	●	●	●	●
	**TR-S 10/15** Backdraught shutter	**22500**	●	●					●	●												
	TR-S 20/30/50 Backdraught shutter	**22510**			●	●	●				●	●	●									
	TR-S 70/100 4P Backdraught shutter	**22541**						●						●	●	●						
	TR-S 100 6P-8P/150/180/210 Backdraught shutter	**22542**															●	●	●	●	●	●
	**TR-B 10/15** Suction connector	**22600**	●	●					●	●												
	TR-B 20/30/50 Suction connector	**22610**			●	●	●				●	●	●									
	TR-B 70/100 4P Suction connector	**22508**						●						●	●	●						
	TR-B 100 6P-8P/150/180/210 Intake port protection grille	**22509**															●	●	●	●	●	●
	**TR-G 10/15** Intake port protection grille	**22700**	●	●					●	●												
	TR-G 20/30/50 Intake port protection grille	**22710**			●	●	●				●	●	●									
	TR-G 70/100 Intake port protection grille	**22506**						●						●	●	●						
	TR-G 100/150-6P/8P Intake port protection grille	**22507**															●	●	●	●	●	●

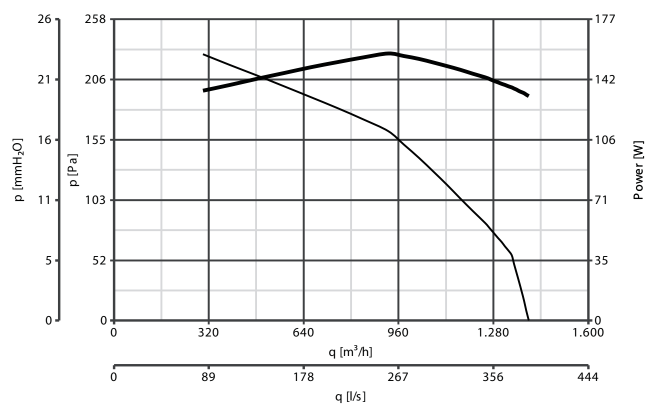
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

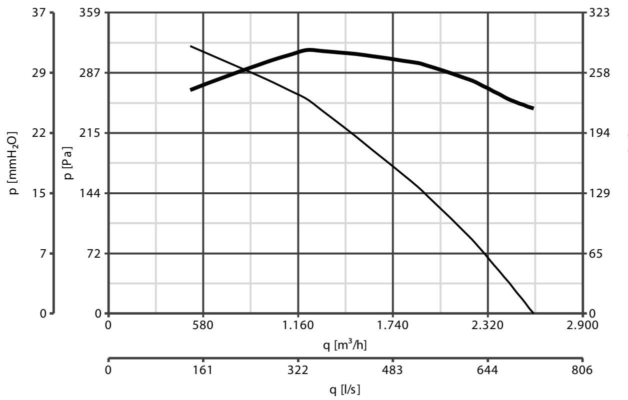
TRM 10 E 4P code 15115



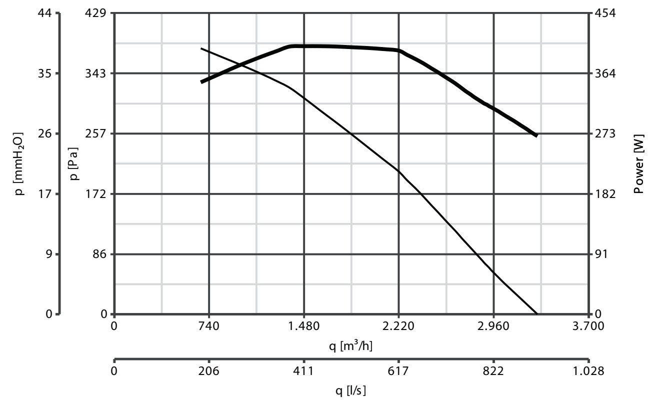
TRM 15 E 4P code 15205



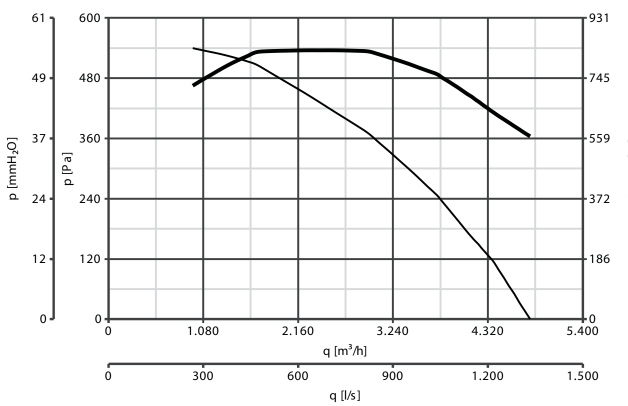
TRM 20 E 4P code 15216



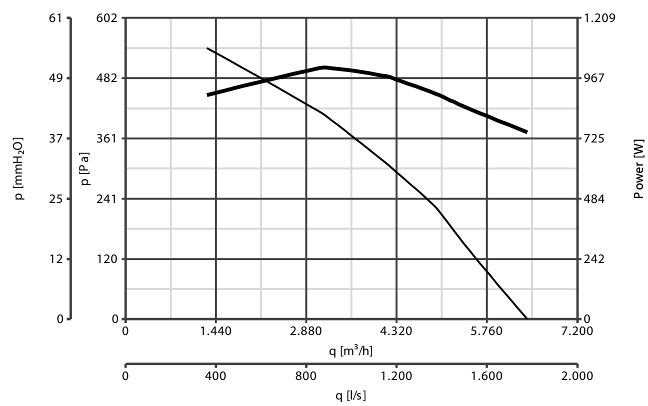
TRM 30 E 4P code 15356



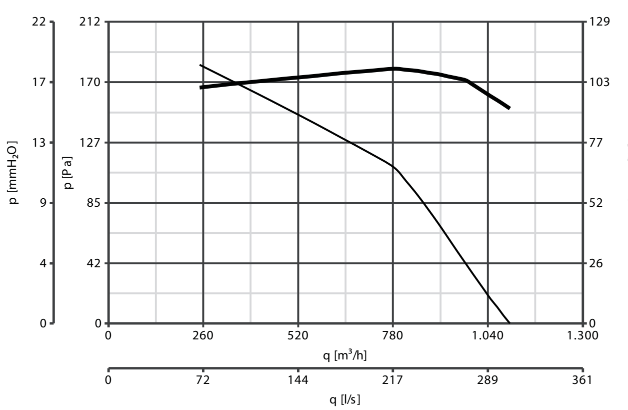
TRM 50 E 4P code 15556



TRM 70 E 4P code 15070



TRT 10 E 4P code 15155



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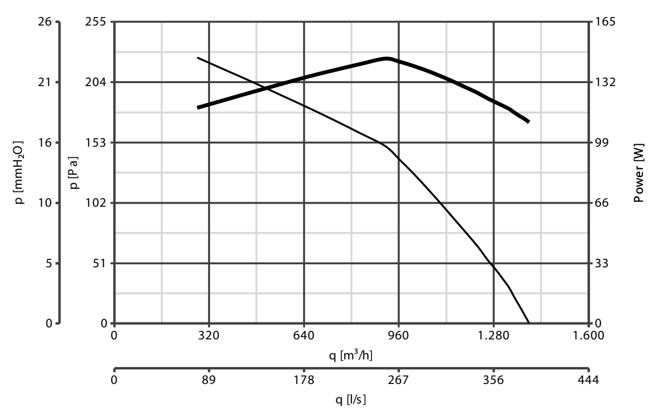

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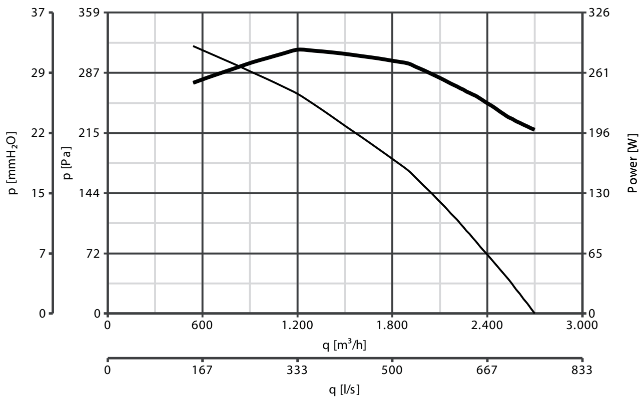

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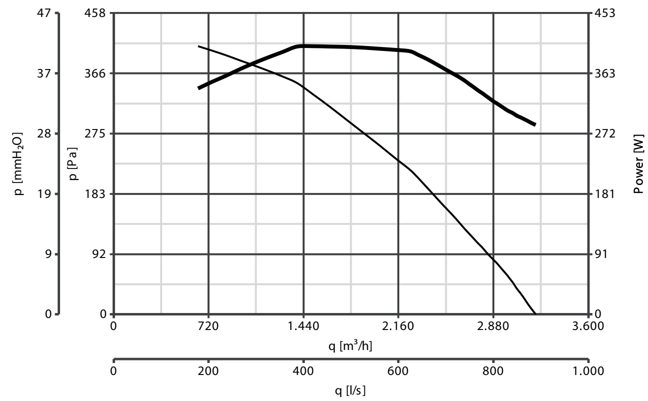

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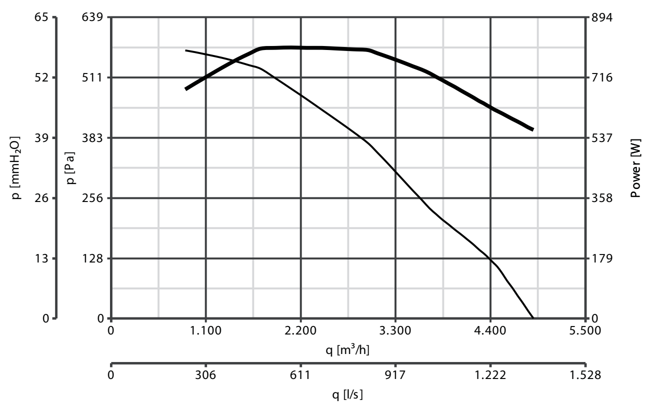

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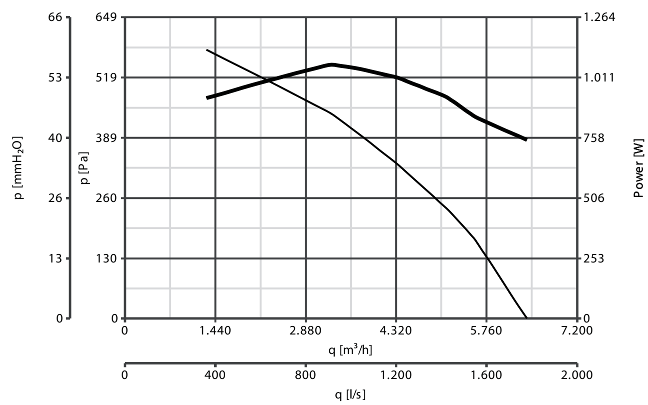
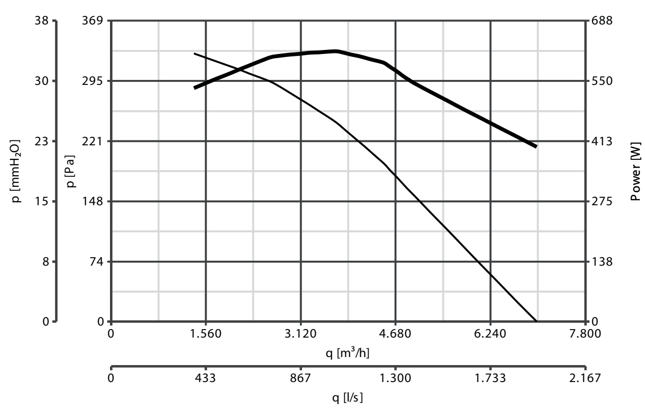


TRT 70 E 6P code 15072



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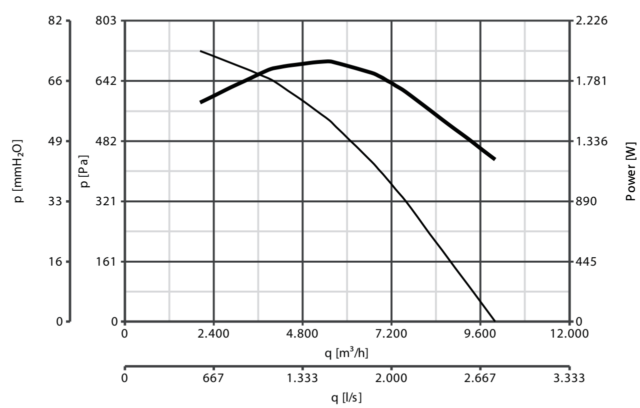

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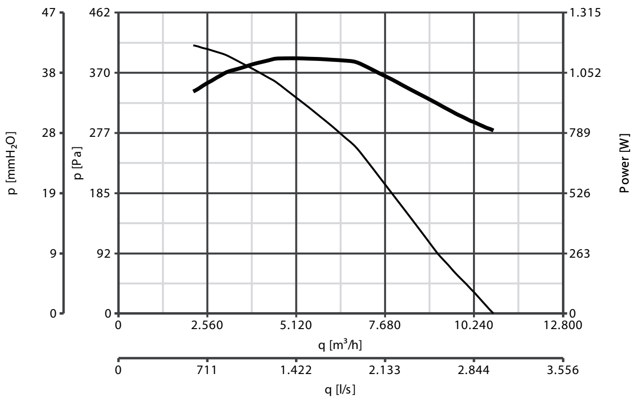

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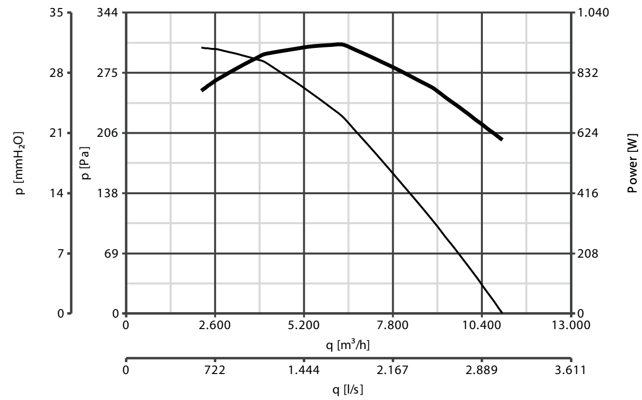
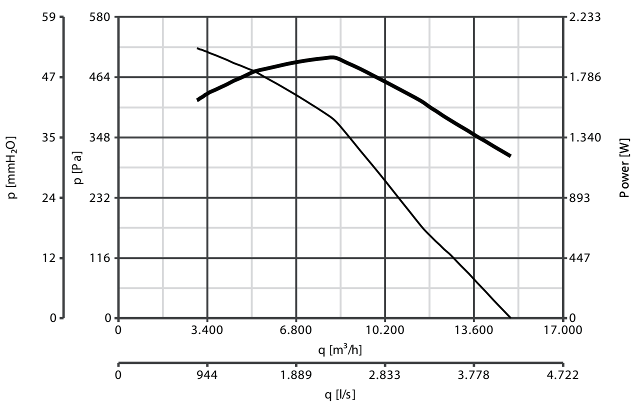


TRT 150 E 6P code 15076



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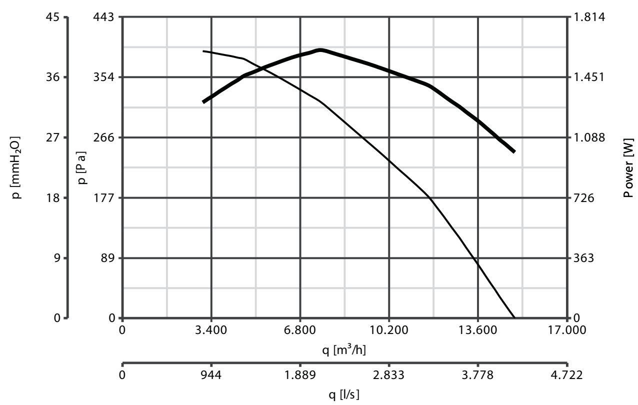

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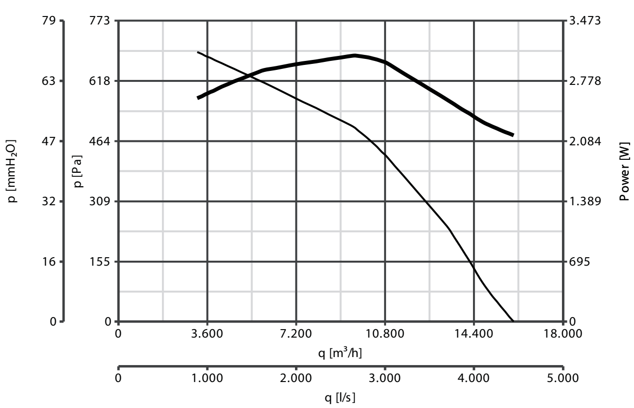

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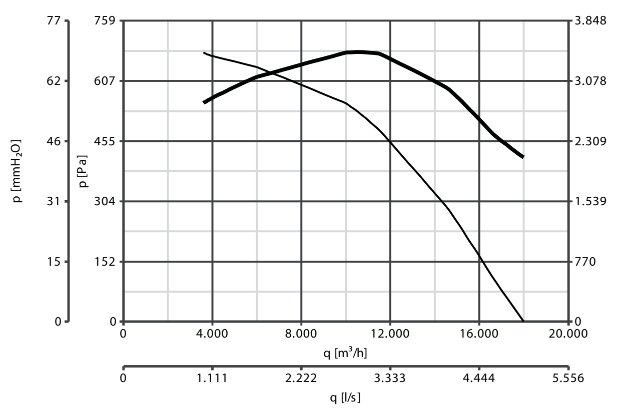
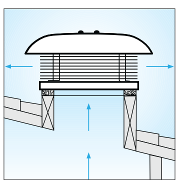


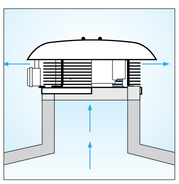
Delivery Consumption

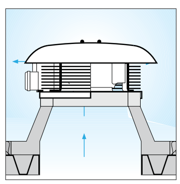
NEW

TORRETTE RF-EU RANGE

Centrifugal roof fans with horizontal discharge







Suitable for residential and industrial applications as factories, hospitals, nightclubs, offices, theatres, apartment blocks, gyms, restaurants, etc...
Easy to install on top of all roofs.

- **17 models**: ***6 single-phase*** *and* ***11 three-phase***.
- Induction motors (single and three phase) of external rotor design, equipped with thermal overload cutouts and mounted on ball bearings.
- Centrifugal impellers, plastic or aluminium made with self-cleaning backward-curved blades.
- Sheet steel motor cover, pickled and phosphated with polyester powder coated finish, colour metallic grey.
- Protective safety and bird-stop grille, fashioned from electrically welded steel rings with galvanizing treatment.
- Protection rating motor IP44 (models M10, M15, M20, T10, T15); IP54 (models M30, M50, M70, T20, T30, T50, T70, T100 4P-6P-8P, T150 6P).
- Operating temperatures: -15°C to +40°C for models T10, T20, T70 6P, T100 6P; -20°C to +40°C for models M30, M50, M70, T15, T30, T50, T70 4P, T100 4P, T100 8P, T150; -30°C a +40°C for models M10, M15, M20.
- Motor insulation class F.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

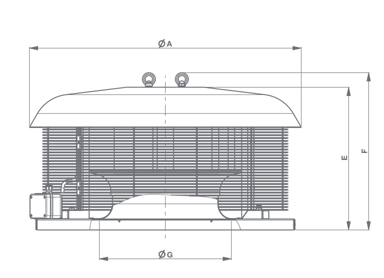
TECHNICAL DATA

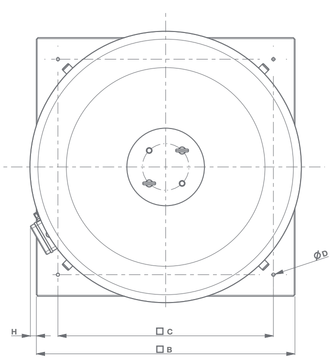
	Models	Code	W	A	Phase	POLES	RPM	Max Airflow m³/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A)*	Lw dB(A)	Max °C
Single-phase	RF-EU M10 4P	15120	92	0.41	1	4	1345	1365	379	18.8	184	35.8	56.3	40
	RF-EU M15 4P	15121	118	0.56			1400	1440	400	22.8	223	28.3	48.8	
	RF-EU M20 4P	15122	150	0.66			1395	2150	597	28.7	281	34.1	54.6	
	RF-EU M30 4P	15123	500	2.33			1370	4000	1111	43.7	428	43.6	64.1	
	RF-EU M50 4P	15124	470	2.14			1328	3900	1083	50.6	496	39.7	60.2	
	RF-EU M70 4P	15125	906	4.42			1310	6700	1861	44.4	435	47.2	67.7	
Three-phase	RF-EU T10 4P	15126	93	0.21	3		1367	1350	375	20.7	203	30.5	51.0	
	RF-EU T15 4P	15127	137	0.28			1387	1810	503	25.9	254	37.7	58.2	
	RF-EU T20 4P	15128	258	0.49			1395	2980	828	37.2	365	36.6	57.1	
	RF-EU T30 4P	15129	523	1.04			1400	4100	1139	54.9	538	38.7	59.2	
	RF-EU T50 4P	15130	700	1.44			1400	5100	1417	66.1	648	50.3	70.8	
	RF-EU T70 4P	15131	853	1.63			1370	5850	1625	66.2	649	49.1	69.6	
	RF-EU T70 6P	15132	721	1.57			900	8100	2250	40.7	399	43.8	64.3	
	RF-EU T100 4P	15133	2700	4.92			1430	13100	3639	98.0	961	58.3	78.8	
	RF-EU T100 6P	15134	1210	2.60		6	910	12000	3333	51.8	508	46.9	67.4	
	RF-EU T100 8P	15135	830	1.85			650	11000	3055	30.9	303	43.5	64.0	
	RF-EU T150 6P	15136	1990	3.85			890	14500	4028	56.0	549	46.1	66.6	

* The sound pressure values conform to standard ISO 9614-3.

Electric supply: 230 V ~ 50 Hz (Single-phase)
400 V ~ 50 Hz (Three-phase).

DIMENSIONS





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<tr><th>Models</th><th>Ø A</th><th>□B</th><th>□C</th><th>Ø D</th><th>E</th><th>F</th><th>Ø G</th><th>H</th><th>Kg</th></tr>
<tr><td>RF-EU M10 4P</td><td rowspan="3">540</td><td rowspan="3">410</td><td rowspan="3">357</td><td rowspan="17">11</td><td>215</td><td>254</td><td>242</td><td rowspan="3">69</td><td>13.9</td></tr>
<tr><td>RF-EU M15 4P</td><td>255</td><td>293</td><td>235</td><td>14.8</td></tr>
<tr><td>RF-EU M20 4P</td><td>281</td><td>320</td><td>261</td><td>15.5</td></tr>
<tr><td>RF-EU M30 4P</td><td rowspan="3">720</td><td rowspan="3">550</td><td rowspan="3">500</td><td>358</td><td>397</td><td rowspan="2">325</td><td rowspan="3">76</td><td>29.1</td></tr>
<tr><td>RF-EU M50 4P</td><td>328</td><td>366</td><td>31.3</td></tr>
<tr><td>RF-EU M70 4P</td><td>455</td><td>506</td><td>410</td><td>32</td></tr>
<tr><td>RF-EU T10 4P</td><td rowspan="2">540</td><td rowspan="2">410</td><td rowspan="2">357</td><td>256</td><td>295</td><td>235</td><td rowspan="6">69</td><td>15</td></tr>
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<tr><td>RF-EU T50 4P</td><td>330</td><td>369</td><td rowspan="2">362</td><td>32.2</td></tr>
<tr><td>RF-EU T70 4P</td><td>366</td><td>405</td><td>33</td></tr>
<tr><td>RF-EU T70 6P</td><td rowspan="5">945</td><td rowspan="5">900</td><td rowspan="5">750</td><td>497</td><td>548</td><td>460</td><td rowspan="5">21</td><td>57</td></tr>
<tr><td>RF-EU T100 4P</td><td>490</td><td>540</td><td>456</td><td>60</td></tr>
<tr><td>RF-EU T100 6P</td><td>535</td><td>586</td><td>510</td><td>66</td></tr>
<tr><td>RF-EU T100 8P</td><td rowspan="2">595</td><td rowspan="2">646</td><td rowspan="2">576</td><td>81</td></tr>
<tr><td>RF-EU T150 6P</td><td>81</td></tr>
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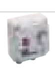
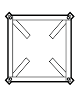
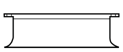
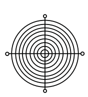
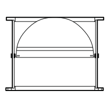
Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	Product																
			RF-EU M10 4P code 15120	RF-EU M15 4P code 15121	RF-EU M20 4P code 15122	RF-EU M30 4P code 15123	RF-EU M50 4P code 15124	RF-EU M70 4P code 15125	RF-EU T10 4P code 15126	RF-EU T15 4P code 15127	RF-EU T20 4P code 15128	RF-EU T30 4P code 15129	RF-EU T50 4P code 15130	RF-EU T70 4P code 15131	RF-EU T70 6 code 15132	RF-EU T100 4P code 15133	RF-EU T100 6P code 15134	RF-EU T100 8P code 15135	RF-EU T150 6P code 15136
	**IRM 30** Three position single-phase speed controller	12921	●	●	●														
	IRM 40 Three position single-phase speed controller	12922				●	●												
	IRM 50 Three position single-phase speed controller	12928						●											
	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 9**** Single-phase speed controller	12933	●	●	●	●	●												
	**IRET 3** Single-phase speed controller	12834							●	●	●	●	●	●	●		●	●	
	**IRET 6** Three-phase speed controller	12934																	●
	**C 1.5** Electronic speed controller	12966	●	●	●														

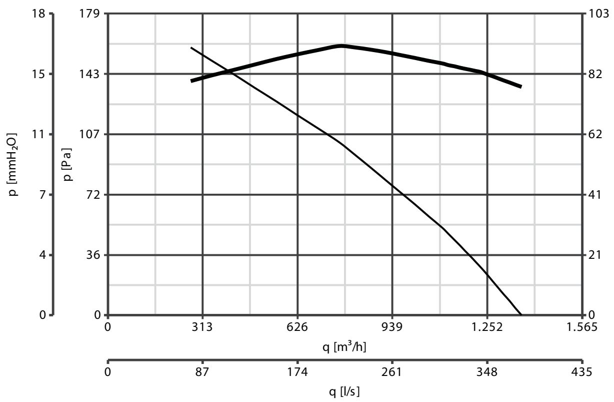
** Used for simultaneous control of multiple appliances up to a maximum 9A.

Models		Code	Product																
			RF-EU M10 4P code 15120	**RF-EU M15 4P** code 15121	**RF-EU M20 4P** code 15122	**RF-EU M30 4P** code 15123	**RF-EU M50 4P** code 15124	**RF-EU M70 4P** code 15125	**RF-EU T10 4P** code 15126	**RF-EU T15 4P** code 15127	**RF-EU T20 4P** code 15128	**RF-EU T30 4P** code 15129	**RF-EU T50 4P** code 15130	**RF-EU T70 4P** code 15131	**RF-EU T70 6** code 15132	**RF-EU T100 4P** code 15133	**RF-EU T100 6P** code 15134	**RF-EU T100 8P** code 15135	**RF-EU T150 6P** code 15136
	**IREM INVERTER 4 M** Single-phase speed controller	**12815**	●	●	●	●	●												
	IREM INVERTER 6 M Single-phase speed controller	**12818**						●											
	**IRET INVERTER 2.5 M** Three-phase speed controller	**12816**							●	●	●	●	●	●	●		●	●	
	IRET INVERTER 5 M Three-phase speed controller	**12817**														●			●
	**POTENTIOMETER**	**12819**		For INVERTERS codes 12815 - 12818 - 12816 - 12817															
	**TR-CU 10/15** Sub frame	**22511**	●	●	●				●	●									
	TR-CU 20/30/50 Sub frame	**22512**				●	●	●			●	●	●	●					
	TR-CU 70/100 4P Sub frame	**22539**													●	●	●	●	●
	**TR-B 20/30/50** Suction connector	**22610**	●	●	●				●	●									
	TR-B 70/100 4P Suction connector	**22508**				●	●	●			●	●	●	●					
	TR-B 100 6P-8P/150/180/210 Suction connector	**22509**													●	●	●	●	●
	**TR-G 20/30/50** Protection grille	**22710**	●	●	●				●	●									
	TR-G 70/100 4P Protection grille	**22506**				●	●	●			●	●	●	●					
	TR-G 100 6P-8P/150/180/210 Protection grille	**22507**													●	●	●	●	●
	**TR-S 20/30/50** Backdraught shutter	**22510**	●	●	●				●	●									
	TR-S 70/100 Backdraught shutter	**22541**				●	●	●			●	●	●	●					
	TR-S 100/150 Backdraught shutter	**22542**													●	●	●	●	●

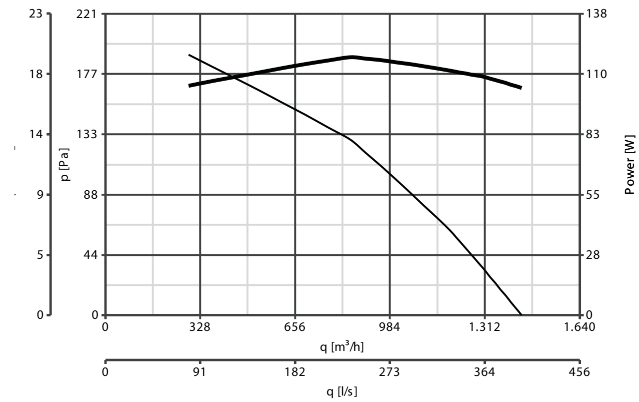
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

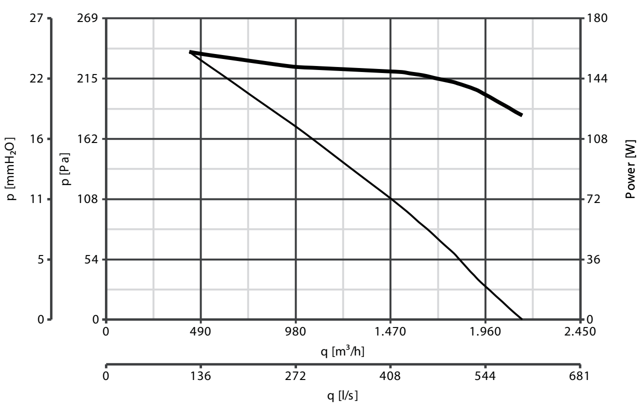
RF-EU M10 4P code 15120



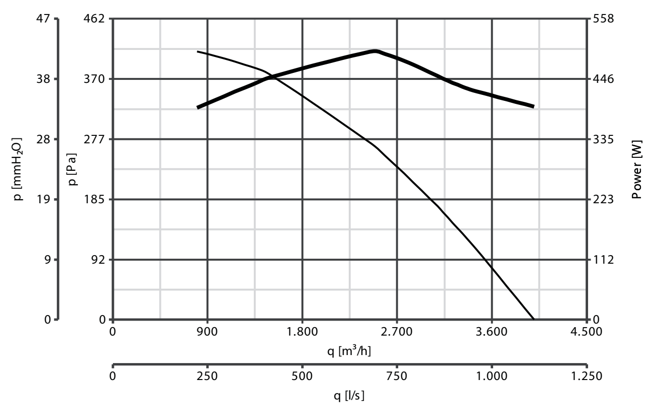
RF-EU M15 4P code 15121



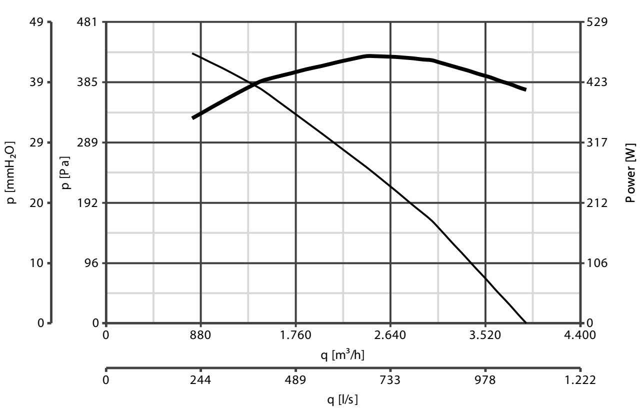
RF-EU M20 4P code 15122



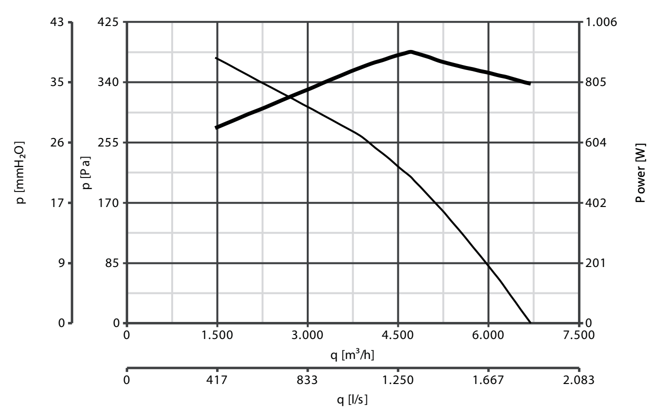
RF-EU M30 4P code 15123



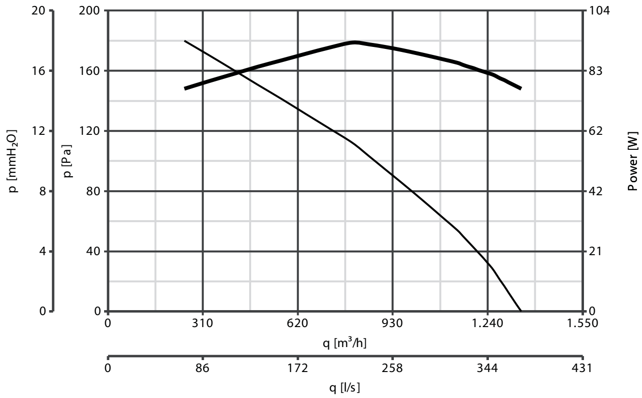
RF-EU M50 4P code 15124



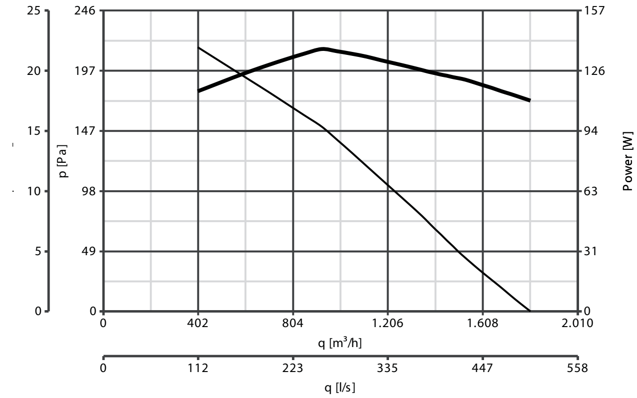
RF-EU M70 4P code 15125



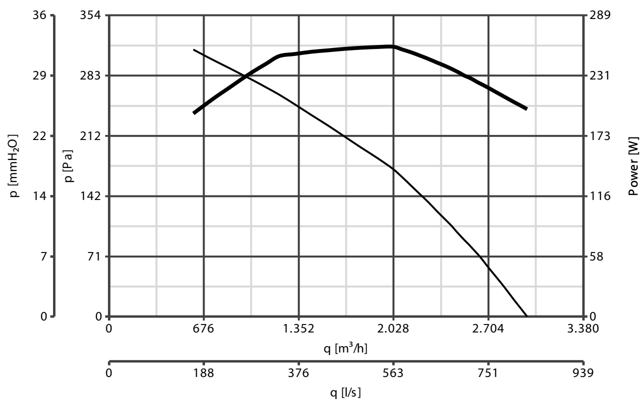
RF-EU T10 4P code 15126



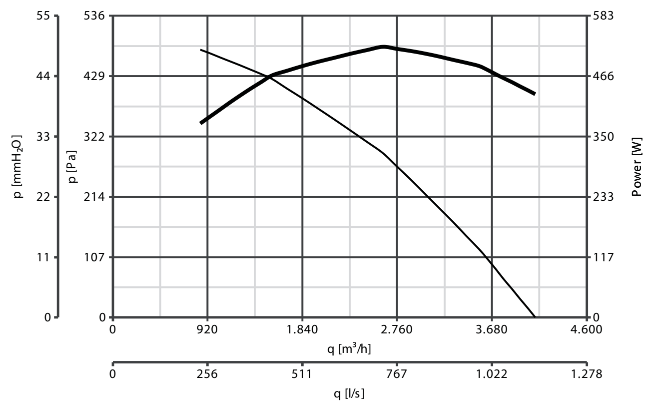
RF-EU T15 4P code 15127



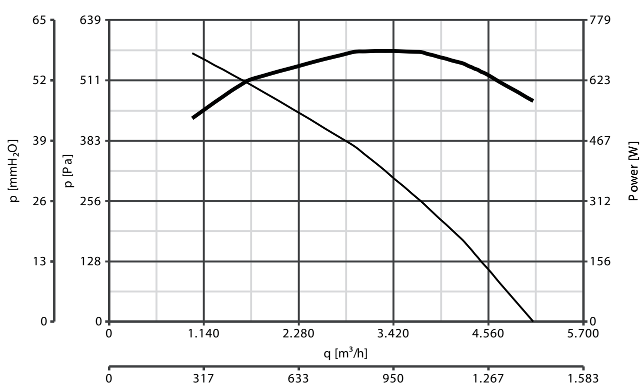
RF-EU T20 4P code 15128



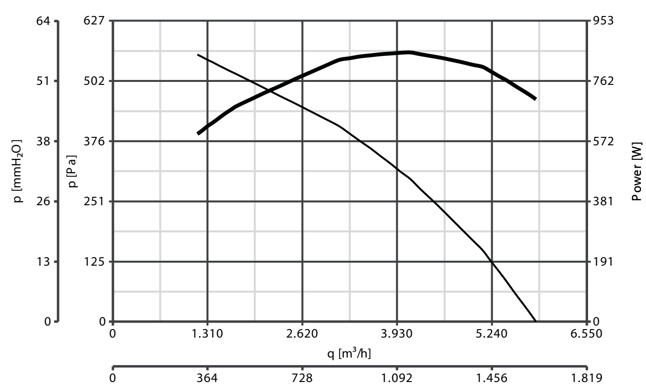
RF-EU T30 4P code 15129



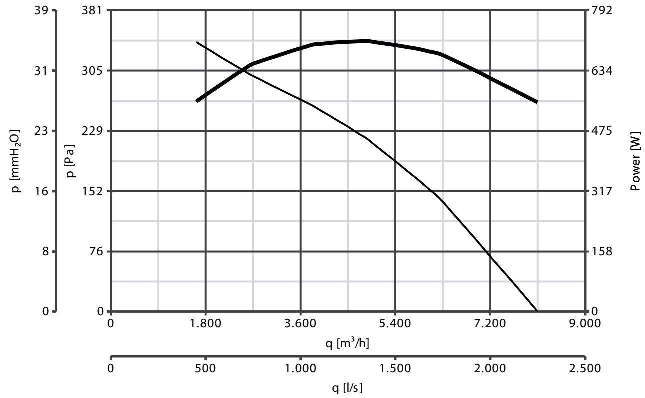
RF-EU T50 4P code 15130



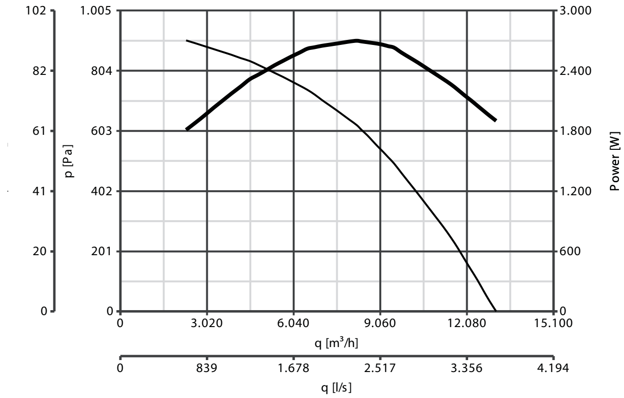
RF-EU T70 4P code 15131



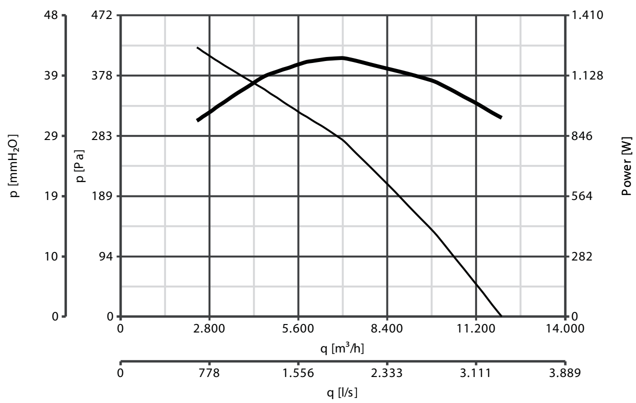
RF-EU T70 6P code 15132



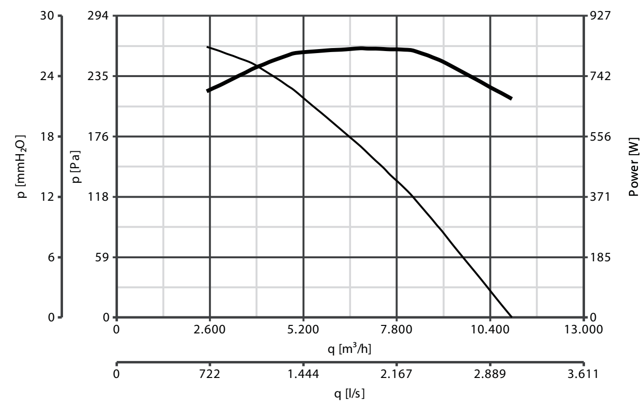
RF-EU T100 4P code 15133



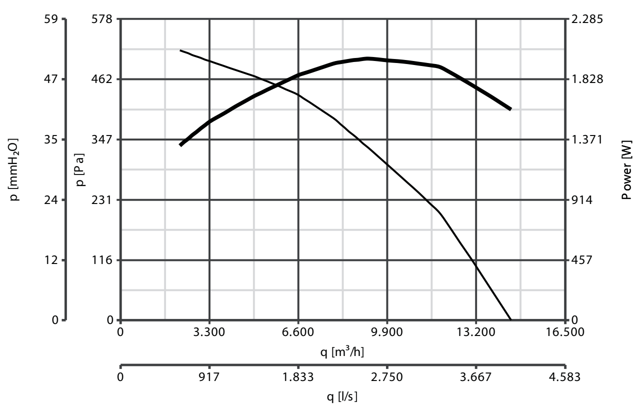
RF-EU T100 6P code 15134



RF-EU T100 8P code 15135



RF-EU T150 6P code 15136



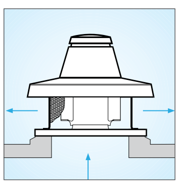
Delivery — Consumption

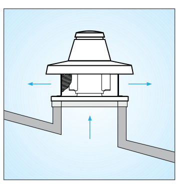
TORRETTE TR ED RANGE

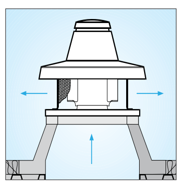
Centrifugal roof fans with horizontal discharge for hot fumes extraction

Suitable for mounting on flat roofs of commercial, industrial buildings and blocks of flats, etc.

- **20 models**: ***6 single-phase*** *and* ***14 three-phase***.
- All models fitted with steel bird guards.
- Asynchronous induction motors, standard UNELMEC B5, ball bearing mounted shafts.
- Galvanised steel sheet fans with self cleaning, backward curved blades, die casted aluminium hubs, clockwise rotation (intake view).
- Streamlined cross-section intake port, made of polyestere painted steel.
- For long term safety each unit has a safety cable to anchor it to the base.
- Max airflow up to 18.000 m³/h.
- The usage is admitted also in ambient temperature between -25°C and +90°C only in countries where the N°327/2011/UE European Regulation is not recognized.
- Minimum speed operation is admitted for products used for cold air treatment (fans not intended for hot fumes 400°C / 2h aspiration) in countries that do not adhere to N°327/2011/UE European Regulation.
- Motors insulation class H.
- Protection rating: IP55.
- Insulation class: I. ⏚







Wiring diagrams shown from page 458

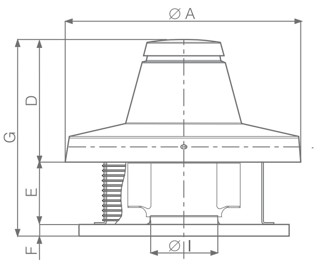
TECHNICAL DATA

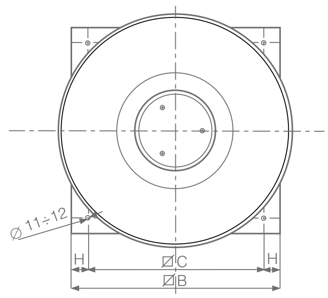
	Models	Code	W min/max	A min/max	POLES	RPM min/max	Max Airflow m³/h min/max	Max Airflow l/s min/max	Max Pressure mmH_2O min/max	Max Pressure Pa min/max	Lp dB(A)*	Max °C
Single-phase	TRM 10 ED 4P	15039	110	0.46	4	1395	1000	278	20	196	56	400 °C/2h
	TRM 15 ED 4P	15041	140	0.60		1315	1400	389	24	235	58.5	
	TRM 20 ED 4P	15043	270	1.20		1375	2200	611	34	334	68	
	TRM 30 ED 4P	15046	420	1.90		1285	3100	861	40	392	67	
	TRM 50 ED 4P	15048	720	3.30		1290	4500	1250	52	510	72.5	
	TRM 70 ED 4P	15080	1020	4.50		1415	5800	1611	65	638	77	
Three-phase	TRT 10 ED 4P	15040	72 100	0.13 0.24		1270 1430	890 1100	247 306	17 21	167 206	56	
	TRT 15 ED 4P	15042	93 130	0.16 0.27		1150 1400	1100 1400	306 389	16 24	157 235	58.5	
	TRT 20 ED 4P	15045	208 270	0.32 0.53		1050 1400	1800 2200	500 611	24 34	235 334	68	
	TRT 30 ED 4P	15047	305 420	0.48 0.75		1070 1400	2555 3100	710 861	30 43	294 422	67	
	TRT 50 ED 4P	15049	530 690	0.80 1.20		1150 1400	3800 4500	1056 1250	38 52	373 510	72.5	
	TRT 70 ED 4P	15081	820 1090	1.50 2.00		1150 1400	5300 6000	1472 1667	52 67	510 657	77	
	TRT 70 ED 6P	15082	420 580	0.80 1.30	6	750 950	5300 6000	1472 1667	30 38	294 373	74	
	TRT 100 ED 4P	15083	1400 1950	2.30 4.90	4	1200 1400	8300 9100	2306 2528	72 84	706 824	84	
	TRT 100 ED 6P	15084	900 1130	1.40 2.40	6	730 950	7550 8600	2097 2389	38 47	373 461	77	
	TRT 100 ED 8P	15085	600 860	1.20 2.00	8	570 715	8200 9200	2278 2556	28 34	275 334	71	
	TRT 150 ED 6P	15086	1280 1930	2.40 3.50	6	700 930	11000 12800	3056 3556	42 59	412 579	80	
	TRT 150 ED 8P	15087	1000 1500	2.00 3.00	8	610 715	11600 13500	3222 3750	34 42	334 412	74	
	TRT 180 ED 6P	15919	3200	6.11	6	950	16500	4583	79	775	83	
	TRT 210 ED 6P	15920	3460	6.42		950	18000	5000	80	785	84	

* The sound pressure values conform to standard ISO 3744. The appliances are designed so that they are able to operate at an air temperature more than 65°C.

Electric supply: 230 V ~ 50 Hz (Single-phase)
400 V ~ 50 Hz (Three-phase).

DIMENSIONS



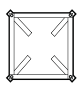
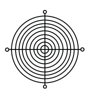


Models	Ø A	B	C	D	E	F	G	H	Ø L	Ø M	Ø N	Kg
TRM 10 ED 4P	600	410	357	309	166	38	26.5	513	183	187.5	280	18.5
TRM 15 ED 4P									206	211	315	19
TRM 20 ED 4P	780	550	500	397	226		25	661	231	236.5	355	33
TRM 30 ED 4P									2600	265.5	400	35
TRM 50 ED 4P	780	550	500	397	243		25	678	292	298	450	40
TRM 70 ED 4P	1015	830	750	449	283		40	770	328	335	504	80
TRT 10 ED 4P	600	410	357	309	166		26.5	513	183	187.5	280	19
TRT 15 ED 4P									206	211	315	19
TRT 20 ED 4P	780	550	500	397	226		25	661	231	236.5	355	33
TRT 30 ED 4P									2600	265.5	400	35
TRT 50 ED 4P	780	550	500	397	243		25	678	292	298	450	40
TRT 70 ED 4P	1015	830	750	449	283		40	770	328	335	504	78
TRT 70 ED 6P									365	375	562	81
TRT 100 ED 4P												81.5
TRT 100 ED 6P	1165	980	900	605	383			1026	415	421	635	114
TRT 100 ED 8P										472	715	124
TRT 150 ED 6P									465			125
TRT 150 ED 8P									520	529	805	129
TRT 180 ED 6P												220
TRT 210 DE 6P												222

Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	TRM 10 ED 4P code 15039	TRM 15 ED 4P code 15041	TRM 20 ED 4P code 15043	TRM 30 ED 4P code 15046	TRM 50 ED 4P code 15048	TRM 70 ED 4P code 15080	TRT 10 ED 4P code 15040	TRT 15 ED 4P code 15042	TRT 20 ED 4P code 15045	TRT 30 ED 4P code 15047	TRT 50 ED 4P code 15049	TRT 70 ED 4P code 15081	TRT 70 ED 6P code 15082	TRT 100 ED 4P code 15083	TRT 100 ED 6P code 15084	TRT 100 ED 8P code 15085	TRT 150 ED 6P code 15086	TRT 150 ED 8P code 15087	TRT 180 ED 6P code 15919	TRT 210 ED 6P code 15920
	**IRM 30*** Three position single-phase speed controller	12921	●	●																		
	IRM 40* Three position single-phase speed controller	12922			●	●																
	IRM 50* Three position single-phase speed controller	12928					●															
	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					●															
	**IREM 9* ***** Single-phase speed controller	12933						●														
	**IRET 6*** Three-phase speed controller	12934												●	●	●	●	●	●	●		

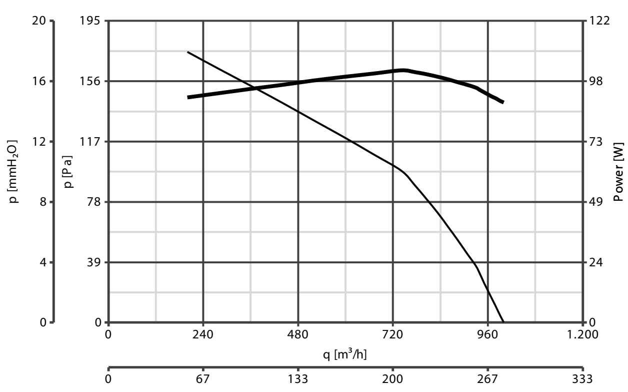
Models		Code	TRM 10 ED 4P code 15039	TRM 15 ED 4P code 15041	TRM 20 ED 4P code 15043	TRM 30 ED 4P code 15046	TRM 50 ED 4P code 15048	TRM 70 ED 4P code 15080	TRT 10 ED 4P code 15040	TRT 15 ED 4P code 15042	TRT 20 ED 4P code 15045	TRT 30 ED 4P code 15047	TRT 50 ED 4P code 15049	TRT 70 ED 4P code 15081	TRT 70 ED 6P code 15082	TRT 100 ED 4P code 15083	TRT 100 ED 6P code 15084	TRT 100 ED 8P code 15085	TRT 150 ED 6P code 15086	TRT 150 ED 8P code 15087	TRT 180 ED 6P code 15919	TRT 210 ED 6P code 15920
	**IRET INVERTER 1.2** Three-phase speed controller INVERTER	**12909**							●	●	●	●										
	IRET INVERTER 2.2 Three-phase speed controller INVERTER	**12925**											●	●	●			●				
	IRET INVERTER 5 Three-phase speed controller INVERTER	**12947**														●	●		●	●		
	IRET INVERTER 8 Three-phase speed controller INVERTER	**12989**																			●	●
	**TR-CU 10/15** Sub-frame	**22511**	●	●					●	●												
	TR-CU 20/30/50 Sub-frame	**22512**			●	●	●				●	●	●									
	TR-CU 70/100 Sub-frame	**22539**						●						●	●	●						
	TR-CU 100/150-6P/8P Sub-frame	**22540**															●	●	●	●	●	●
	**TR-G 10/15** Intake port protection grille	**22700**	●	●					●	●												
	TR-G 20/30/50 Intake port protection grille	**22710**			●	●	●				●	●	●									
	TR-G 70/100 Intake port protection grille	**22506**						●						●	●	●						
	TR-G 100/150-6P/8P Intake port protection grille	**22507**															●	●	●	●	●	●

* Use in conjunction with appliances having speed selectors or controllers is not permitted in countries implementing European regulation 327/2011/EU.
** Can control multiple fans up to a maximum 5A.
*** Used for simultaneous control of multiple appliances up to a maximum 9A.

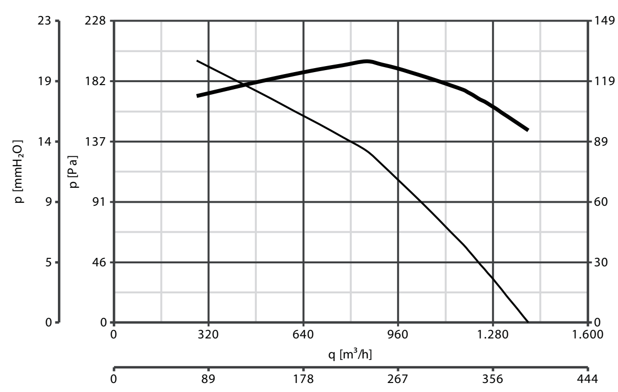
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

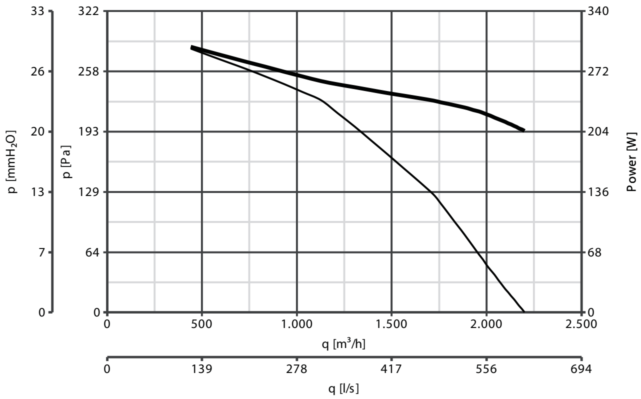
TRM 10 ED 4P code 15039



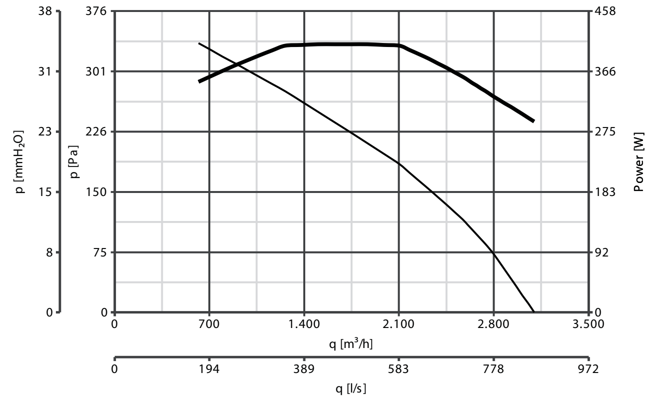
TRM 15 ED 4P code 15041



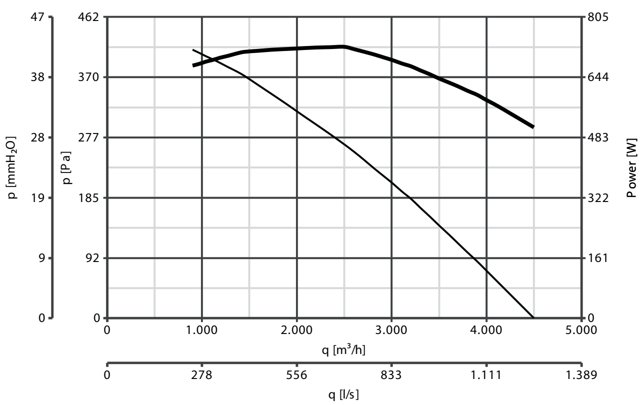
TRM 20 ED 4P code 15043



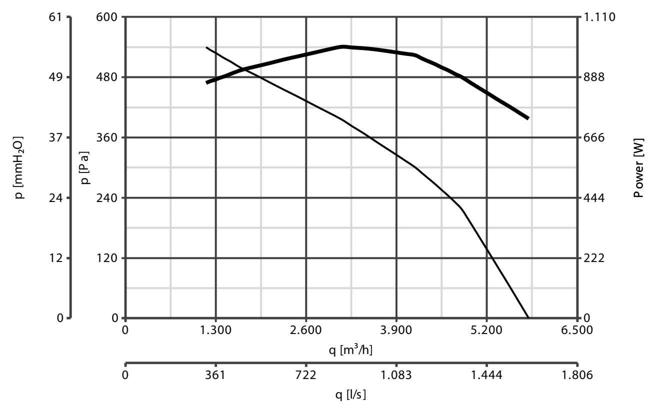
TRM 30 ED 4P code 15046



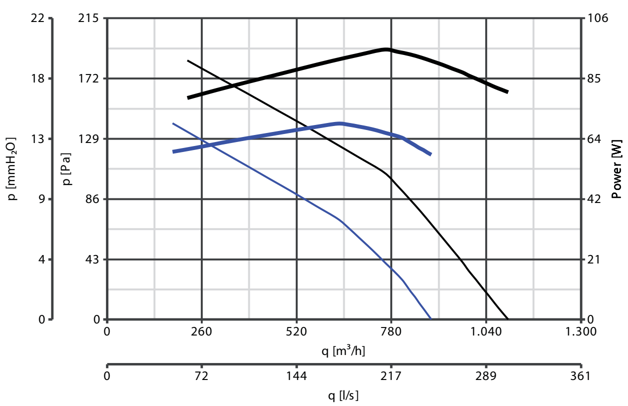
TRM 50 ED 4P code 15048



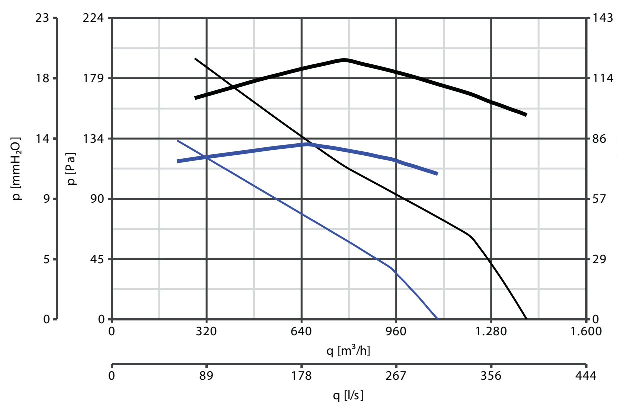
TRM 70 ED 4P CODE 15080



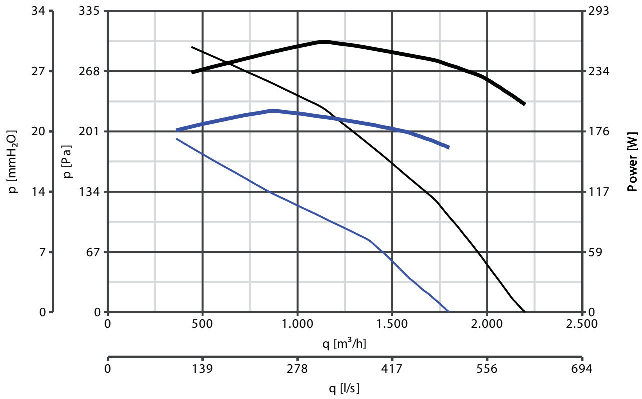
TRT 10 ED 4P code 15040



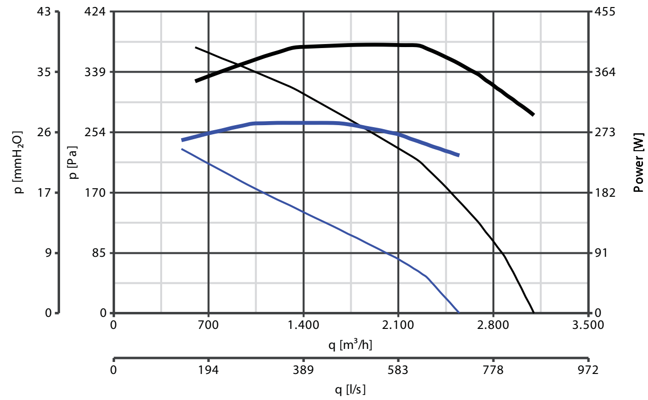
TRT 15 ED 4P code 15042



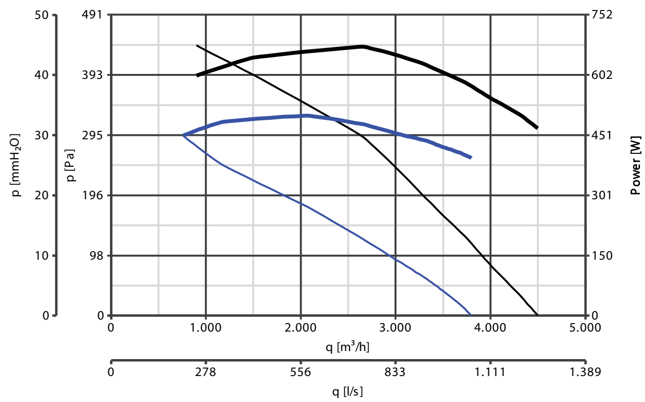
TRT 20 ED 4P code 15045



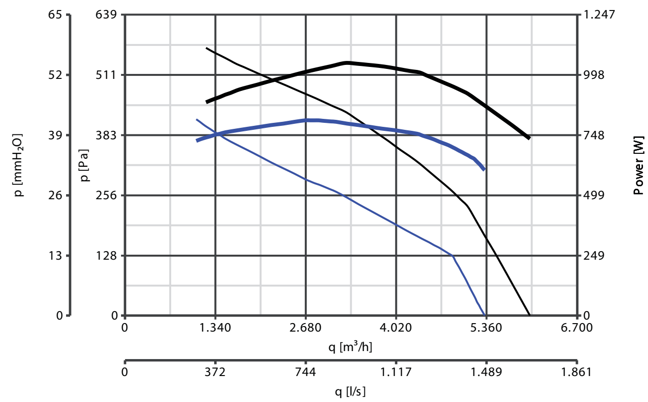
TRT 30 ED 4P code 15047



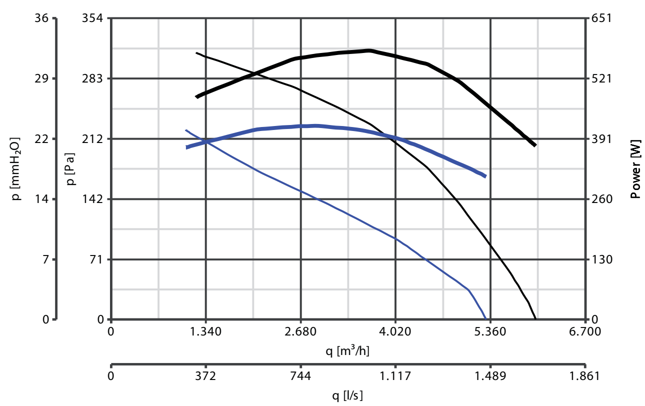
TRT 50 ED 4P code 15049



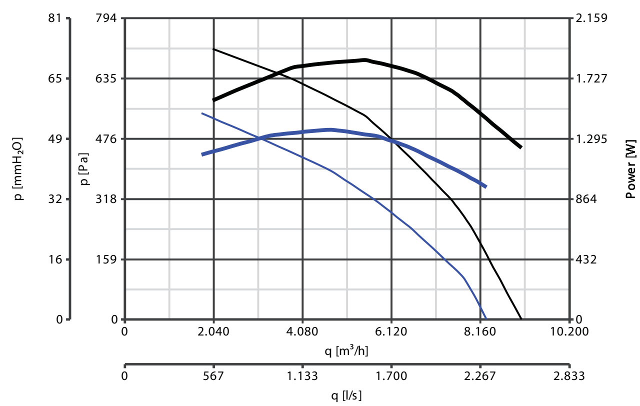
TRT 70 ED 4P code 15081



TRT 70 ED 6P code 15082

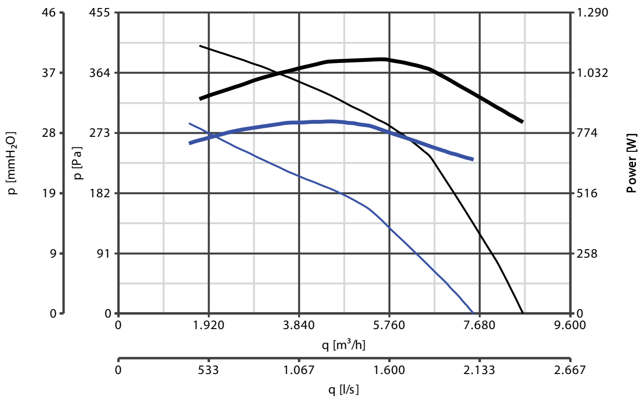


TRT 100 ED 4P code 15083

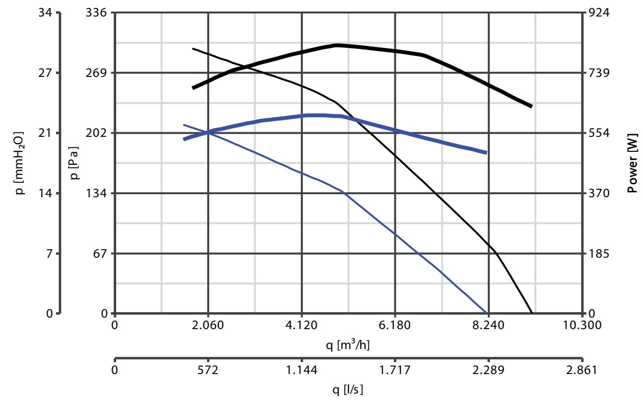


VORTICE

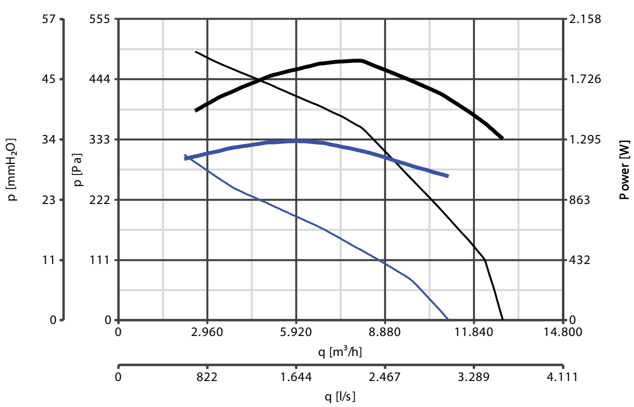
TRT 100 ED 6P code 15084



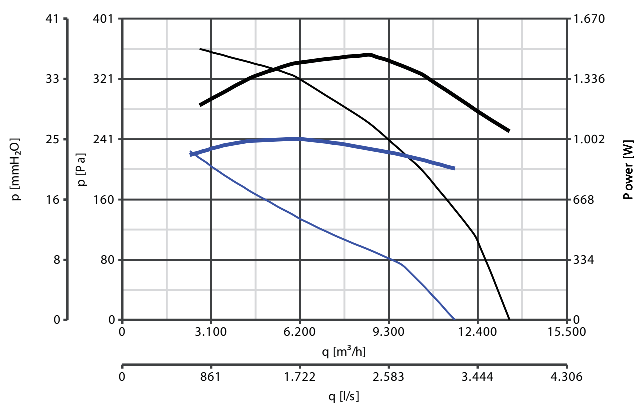
TRT 100 ED 8P code 15085



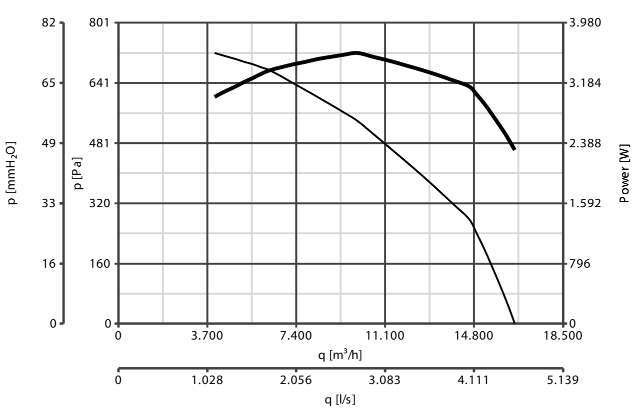
TRT 150 ED 6P code 15086



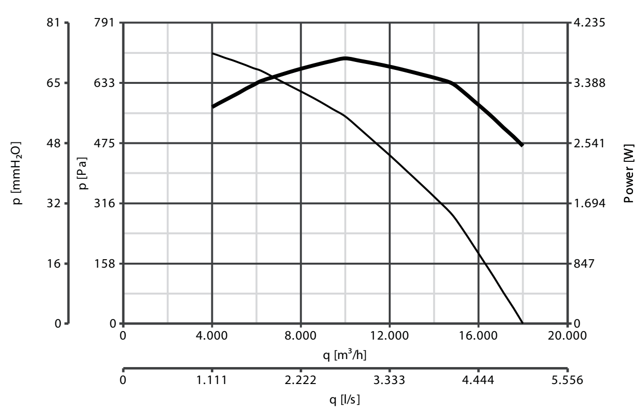
TRT 150 ED 8P code 15087



TRT 180 ED 6P code 15919



TRT 210 ED 6P code 15920



Delivery   Consumption

DECLARATION OF PERFORMANCE CE

VORTICE ELETTROSOCIALI S.p.A
Strada Cerca, 2 - frazione di Zoate
20067 TRIBIANO Milano, Italy

hereby declares that the performance of products:

Model	Code	Notified Body
TRM 10 ED 4P	15039	TÜV
TRT 10 ED 4P	15040	TÜV
TRM 15 ED 4P	15041	TÜV
TRT 15 ED 4P	15042	TÜV
TRM 20 ED 4P	15043	TÜV
TRT 20 ED 4P	15045	TÜV
TRM 30 ED 4P	15046	TÜV
TRT 30 ED 4P	15047	TÜV
TRM 50 ED 4P	15048	TÜV
TRT 50 ED 4P	15049	TÜV
TRM 70 ED 4P	15080	TÜV
TRT 70 ED 4P	15081	TÜV
TRT 70 ED 6P	15082	TÜV
TRT 100 ED 4P	15083	TÜV
TRT 100 ED 6P	15084	TÜV
TRT 100 ED 8P	15085	TÜV
TRT 150 ED 6P	15086	TÜV
TRT 150 ED 8P	15087	TÜV
TRT 180 ED 6P	15919	APPLUS
TRT 210 ED 6P	15920	APPLUS

Model	Code	Notified Body
TRM 10 ED-V 4P	15160	APPLUS
TRT 10 ED-V 4P	15161	APPLUS
TRM 15 ED-V 4P	15162	APPLUS
TRT 15 ED-V 4P	15163	APPLUS
TRM 20 ED-V 4P	15164	APPLUS
TRT 20 ED-V 4P	15165	APPLUS
TRM 30 ED-V 4P	15166	APPLUS
TRT 30 ED-V 4P	15167	APPLUS
TRM 50 ED-V 4P	15168	APPLUS
TRT 50 ED-V 4P	15169	APPLUS
TRM 70 ED-V 4P	15170	APPLUS
TRT 70 ED-V 4P	15171	APPLUS
TRT 70 ED-V 6P	15172	APPLUS
TRT 100 ED-V 4P	15173	APPLUS
TRT 100 ED-V 6P	15174	APPLUS
TRT 100 ED-V 8P	15175	APPLUS
TRT 150 ED-V 6P	15176	APPLUS
TRT 150 ED-V 8P	15177	APPLUS
TRT 180 ED-V 6P	15178	APPLUS
TRT 210 ED V-6P	15179	APPLUS

used for the evacuation of fumes and heat, is as follows:

Essential characteristics	Performance	Harmonised standard
400°C for a duration of 120 minutes	F400	***Smoke and heat control system*** *Specification for powered smoke and heat exhaust ventilators* **EN 12101-3(2002)+AC(2005)**

verified by the following European Notified Bodies:

TÜV SÜD INDUSTRIE SERVICE GMBH MÜNCHEN : Certification Body N° 0036
Certificate No.:

- **0036 CPD RG03 01**
- **0036 CPD RG03 02**
- **0036 CPD RG03 03**
- **0036 CPD RG03 04**

APPLUS- LGAI TECHNOLOGICAL CENTRE SA : Certification Body N° 0370
Certificate No.:

- **0370 CPR 0860**
- **0370 CPR 0861**

The consistent performance of the above products is guaranteed by a Grade 1 system, in accordance with appendix V of European Regulation No. **305/2011 (EU)**.

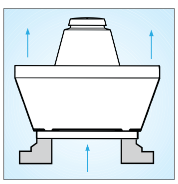
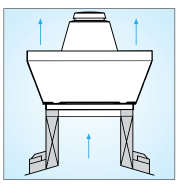
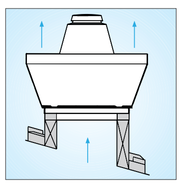
WARNING

TR ED ROOF FANS (400 °C/2H) ARE CERTIFIED ACCORDING TO THE EN 12101-3 STANDARD FOR OPERATING AT MAX SPEED; NOT SUITABLE FOR COUPLING WITH COMMUTARS ABD SPEED CONTROLLERS IF USED FOR THESE FUNCTIONS.

Note

TORRETTE TR E-V RANGE

Centrifugal roof fans with vertical discharge

Suitable for residential and industrial applications as factories, hospitals, nightclubs, offices, theatres, apartment blocks, gyms, restaurants, etc...
Easy to install on top of all roofs.

- **20 models**: ***6 single-phase*** *and* ***14 three-phase***.
- Vertical air extraction with polyester painted, galvanised steel reinforcements.
- Metal frames coated in corrosion-proof epoxy resin to assure long life and weather resistance.
- Aerodynamic suction nozzles in polyester painted steel sheet.
- All models fitted with steel bird guards.
- Asynchronous induction motors, standard size UNELMEC B5, self-ventilated, with rotors mounted on ball bearings.
- Galvanised steel sheet fans with self cleaning, backward curved blades, self-ventilating, die cast aluminium hubs, clockwise rotation (intake view).
- Single phase models can be controlled by an optional speed controller. Alternatively they can be controlled by means of optional inverters.
- Max airflow up to 18.000 m^3/h.
- Motor insulation class H for models 15182, 15190, 15193, 15195, 15196; F for all other models.
- Protection rating: IP55.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

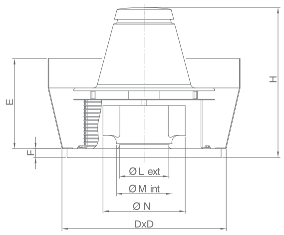
TECHNICAL DATA

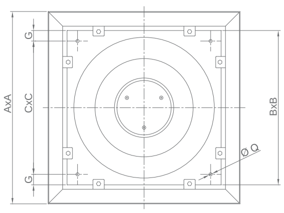
	Models	Code	W	A	POLES	RPM	Max Airflow m^3/h	Max Airflow l/s	Max Pressure mmH_2O	Max Pressure Pa	Lp dB(A)* 3 m	Max °C
Single-phase	**TRM 10 E-V 4P**	**15180**	100	0.50	4	1400	1100	306	22	216	56	90
Single-phase	**TRM 15 E-V 4P**	**15182**	150	0.70	4	1400	1400	389	26	255	58.5	80
Single-phase	**TRM 20 E-V 4P**	**15197**	280	1.30	4	1415	2600	722	36	353	62	85
Single-phase	**TRM 30 E-V 4P**	**15198**	400	1.80	4	1425	3300	917	44	432	67	70
Single-phase	**TRM 50 E-V 4P**	**15199**	800	3.70	4	1480	4800	1333	55	540	72.5	80
Single-phase	**TRM 70 E 4P**	**15188**	1000	4.35	4	1415	6400	1778	67.5	662	77	90
Three-phase	**TRT 10 E-V 4P**	**15181**	100	0.30	4	1400	1100	306	22	216	56	90
Three-phase	**TRT 15 E-V 4P**	**15183**	150	0.30	4	1400	1400	389	26	255	58.5	90
Three-phase	**TRT 20 E-V 4P**	**15184**	300	0.60	4	1400	2700	750	35	343	62	90
Three-phase	**TRT 30 E-V 4P**	**15185**	400	0.75	4	1400	3200	889	46	451	67	90
Three-phase	**TRT 50 E-V 4P**	**15186**	800	1.45	4	1400	4900	1361	61	598	72.5	90
Three-phase	**TRT 70 E-V 4P**	**15187**	950	1.85	4	1440	6400	1778	69	674	77	90
Three-phase	**TRT 70 E-V 6P**	**15189**	600	1.30	6	950	7000	1944	38	373	74	90
Three-phase	**TRT 100 E-V 4P**	**15190**	1900	3.25	4	1420	10000	2778	84.5	830	84	70
Three-phase	**TRT 100 E-V 6P**	**15191**	1100	2.30	6	950	10800	3000	48	471	77	85
Three-phase	**TRT 100 E-V 8P**	**15192**	930	2.10	8	715	11000	3056	34	334	71	80
Three-phase	**TRT 150 E-V 6P**	**15193**	1930	3.45	6	930	15000	4167	61	598	80	80
Three-phase	**TRT 150 E-V 8P**	**15194**	1600	3.10	8	715	15000	4167	45	441	74	75
Three-phase	**TRT 180 E-V 6P**	**15195**	3100	5.95	6	970	16000	4444	79	775	83	80
Three-phase	**TRT 210 E-V 6P**	**15196**	3400	6.40	6	980	18000	5000	79	775	84	70

* The sound pressure values conform to standard ISO 3744.
The appliances are designed so that they are able to operate at an air temperature more than 65°C.

Electric supply: 230 V ~ 50 Hz (Single-phase)
400 V ~ 50 Hz (Three-phase).

DIMENSIONS

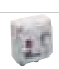




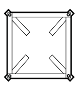
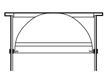
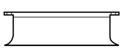
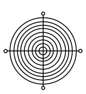
Models	Ø A	⌀B	⌀C	D	E	F	G	H	Ø L	Ø M	Ø N	Ø Q	Kg
TRM 10 E-V 4P	652	410	357	440	328	38	26.5	502	170	187.5	283	11	23
TRM 15 E-V 4P									182	199	315		24
TRM 20 E-V 4P	907	550	500	580	432		25	586	219	236.5	359		43
TRM 30 E-V 4P								604	244	265.5	404		45
TRM 50 E-V 4P								631	278	298	454		51
TRM 70 E 4P	1144	830	750	860	491		40	723	328	335	504	12	105
TRT 10 E-V 4P	652	410	357	440	328		26.5	502	170	187.5	283	11	23
TRT 15 E-V 4P								502	182	199	315		24
TRT 20 E-V 4P	907	550	500	580	432		25	586	219	236.5	359		43
TRT 30 E-V 4P								604	244	265.5	404		45
TRT 50 E-V 4P								631	278	298	454		51
TRT 70 E-V 4P	1144	830	750	860	491		40	723	328	335	504	12	103
TRT 70 E-V 6P									365	375	564		106
TRT 100 E-V 4P											504		107
TRT 100 E-V 6P	1462	980	900	1010	595			903	415	421	635		161
TRT 100 E-V 8P									465	472	715		171
TRT 150 E-V 6P													172
TRT 150 E-V 8P									520	529	805		176
TRT 180 E-V 6P													176
TRT 210 E-V 6P													180

Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	Product																			
			TRM 10 E-V 4P code15180	**TRM 15 E-V 4P** code15182	**TRM 20 E-V 4P** code15197	**TRM 30 E-V 4P** code15198	**TRM 50 E-V 4P** code15199	**TRM 70 E-V 4P** code15188	**TRT 10 E-V 4P** code15181	**TRT 15 E-V 4P** code15183	**TRT 20 E-V 4P** code15184	**TRT 30 E-V 4P** code15185	**TRT 50 E-V 4P** code15186	**TRT 70 E-V 4P** code15187	**TRT 70 E-V 6P** code15189	**TRT 100 E-V 4P** code15190	**TRT 100 E-V 6P** code15191	**TRT 100 E-V 8P** code15192	**TRT 150 E-V 6P** code15193	**TRT 150 E-V 8P** code15194	**TRT 180 E-V 6P** code15195	**TRT 210 E-V 6P** code15196
	**IRM 30** Three position single-phase speed controller	**12921**	●	●																		
	IRM 40 Three position single-phase speed controller	**12922**			●	●																
	IRM 50 Three position single-phase speed controller	**12928**					●															
	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**	●	●			●	●														
	**IREM 9**** Single-phase speed controller	**12933**	●	●				●														
	**IRET 6** Three-phase speed controller	**12934**												●	●		●	●	●	●		

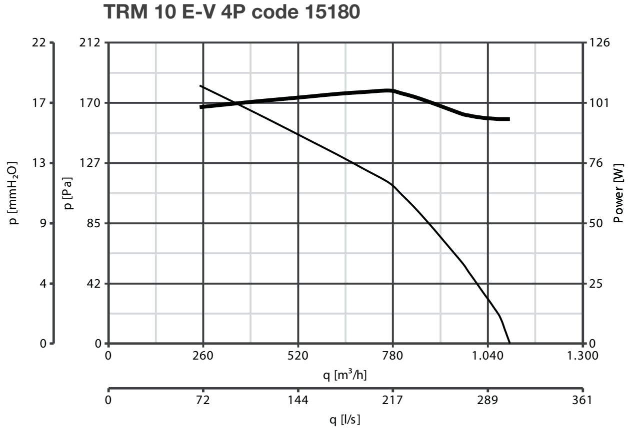
* Can control multiple fans up to a maximum 5A.
** Used for simultaneous control of multiple appliances up to a maximum 9A.

Models		Code	Product																			
			TRM 10 E-V 4P code15180	TRM 15 E-V 4P code15182	TRM 20 E-V 4P code15197	TRM 30 E-V 4P code15198	TRM 50 E-V 4P code15199	TRM 70 E-V 4P code15188	TRT 10 E-V 4P code15181	TRT 15 E-V 4P code15183	TRT 20 E-V 4P code15184	TRT 30 E-V 4P code15185	TRT 50 E-V 4P code15186	TRT 70 E-V 4P code15187	TRT 70 E-V 6P code15189	TRT 100 E-V 4P code15190	TRT 100 E-V 6P code15191	TRT 100 E-V 8P code15192	TRT 150 E-V 6P code15193	TRT 150 E-V 8P code15194	TRT 180 E-V 6P code15195	TRT 210 E-V 6P code15196
	**IRET INVERTER 1.2** Three-phase speed controller INVERTER	**12909**							●	●	●	●										
	IRET INVERTER 2.2 Three-phase speed controller INVERTER	**12925**											●	●	●		●	●				
	IRET INVERTER 5 Three-phase speed controller INVERTER	**12947**														●			●	●		
	IRET INVERTER 8 Three-phase speed controller INVERTER	**12989**																			●	●
	**IREM INVERTER 1.4** Single-phase speed controller INVERTER	**12935**							●	●	●	●										
	IREM INVERTER 4.2 Single-phase speed controller INVERTER	**12936**											●	●	●		●	●				
	IREM INVERTER 7 Single-phase speed controller INVERTER	**12937**														●			●	●		
	**C 1.5** Speed controller	**12966**	●	●																		
	**TR-CU 10/15** Sub-frame	**22511**	●	●					●	●												
	TR-CU 20/30/50 Sub-frame	**22512**			●	●	●				●	●	●									
	TR-CU 70/100 Sub-frame	**22539**						●						●	●	●						
	TR-CU 100/150-6P/8P Sub-frame	**22540**															●	●	●	●	●	●
	**TR-S 10/15** Backdraught shutter	**22500**	●	●					●	●												
	TR-S 20/30/50 Backdraught shutter	**22510**			●	●	●				●	●	●									
	TR-S 70/100 4P Backdraught shutter	**22541**						●						●	●	●						
	TR-S 100 6P-8P/150/180/210 Backdraught shutter	**22542**															●	●	●	●	●	●
	**TR-B 10/15** Suction connector	**22600**	●	●					●	●												
	TR-B 20/30/50 Suction connector	**22610**			●	●	●				●	●	●									
	TR-B 70/100 4P Suction connector	**22508**						●						●	●	●						
	TR-B 100 6P-8P/150/180/210 Intake port protection grille	**22509**															●	●	●	●	●	●
	**TR-G 10/15** Intake port protection grille	**22700**	●	●					●	●												
	TR-G 20/30/50 Intake port protection grille	**22710**			●	●	●				●	●	●									
	TR-G 70/10 Intake port protection grille	**22506**						●						●	●	●						
	TR-G 100/150-6P/8P Intake port protection grille	**22507**															●	●	●	●	●	●

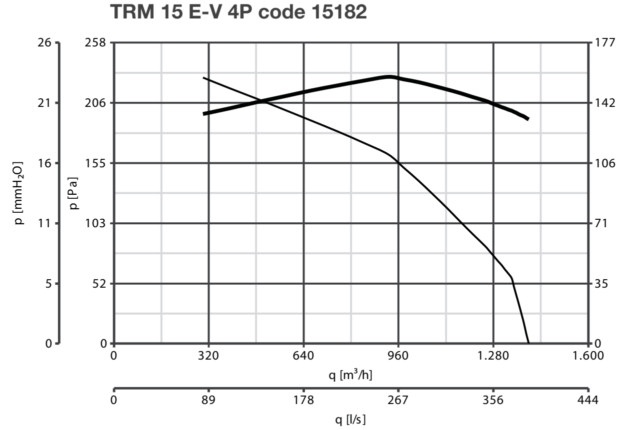
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

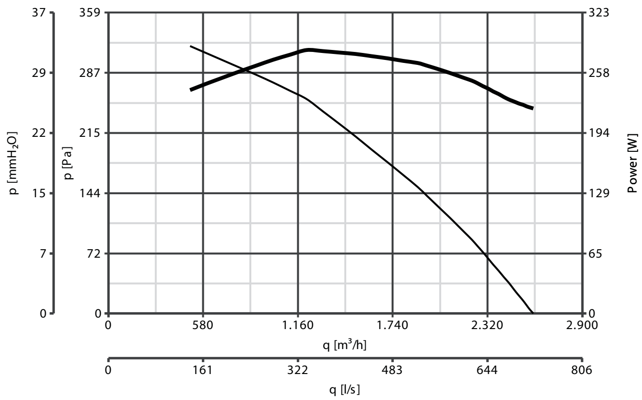
TRM 10 E-V 4P code 15180



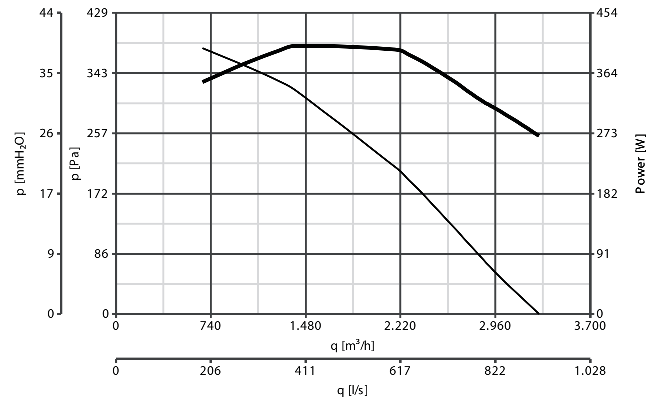
TRM 15 E-V 4P code 15182



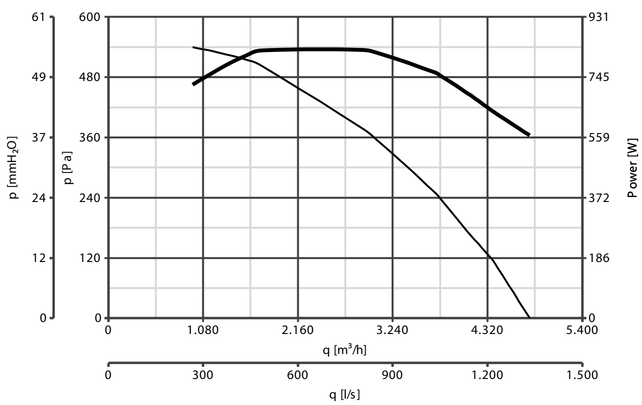
TRM 20 E-V 4P code 15197



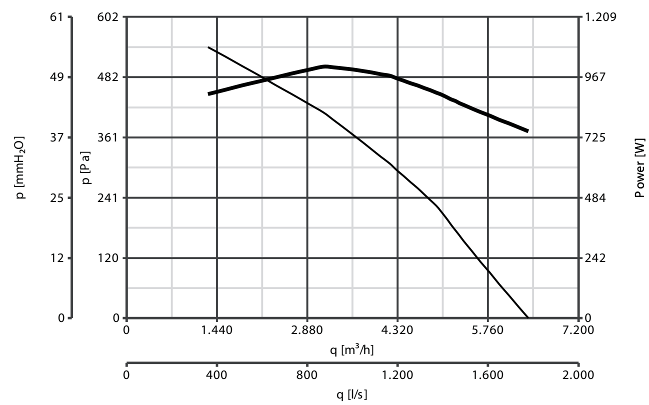
TRM 30 E-V 4P code 15198



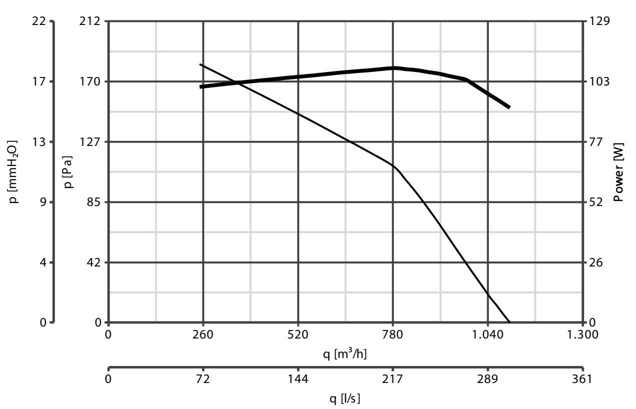
TRM 50 E-V 4P code 15199



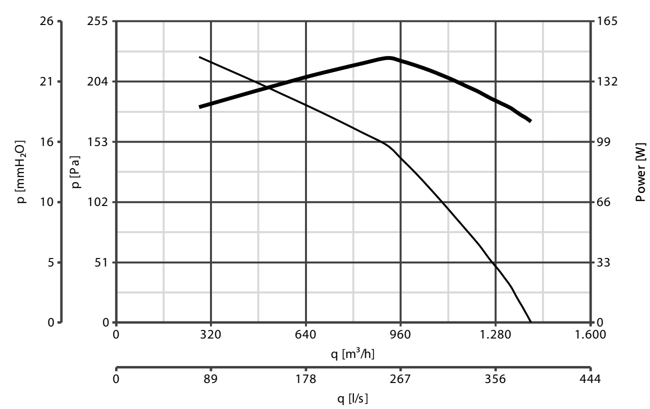
TRM 70 E-V 4P code 15188



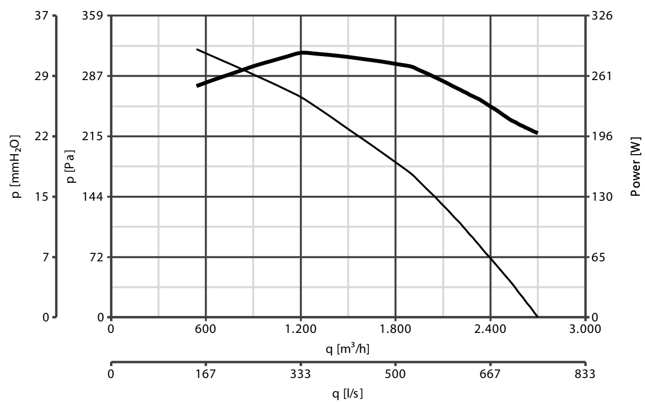
TRT 10 E-V 4P code 15189



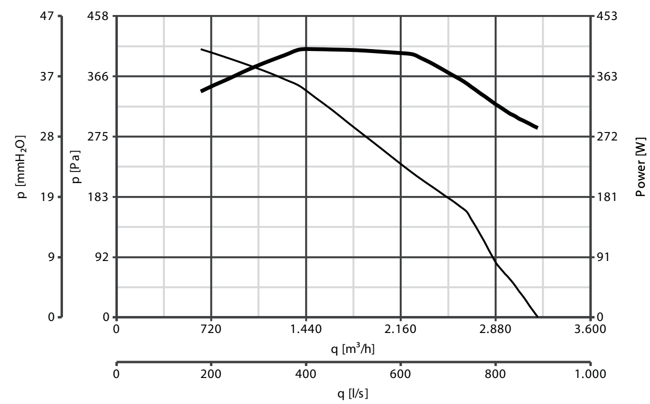
TRT 15 E-V 4P code 15190



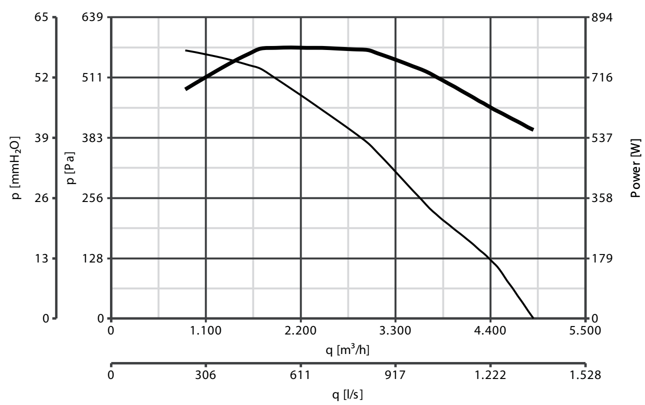
TRT 20 E-V 4P code 15191



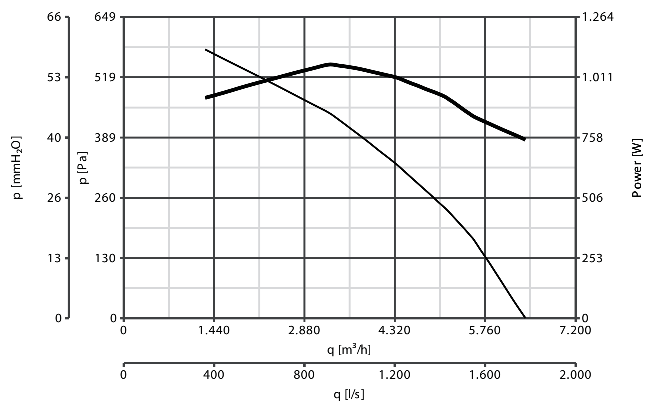
TRT 30 E-V 4P code 15192



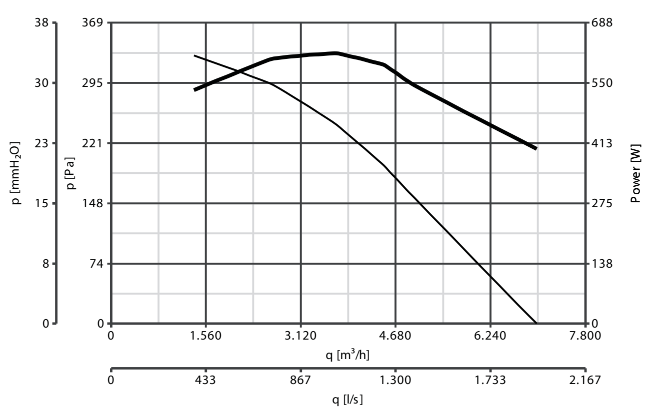
TRT 50 E-V 4P code 15193



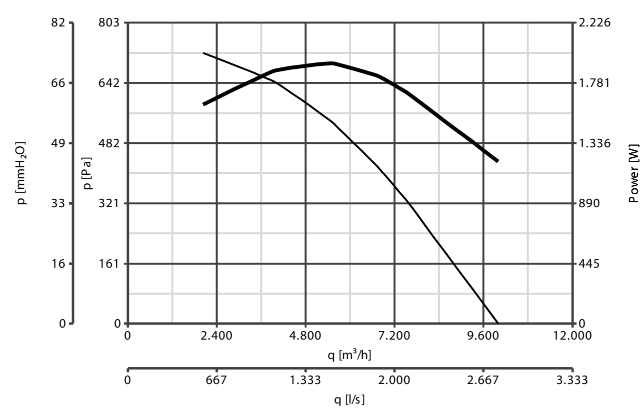
TRT 70 E-V 4P code 15194



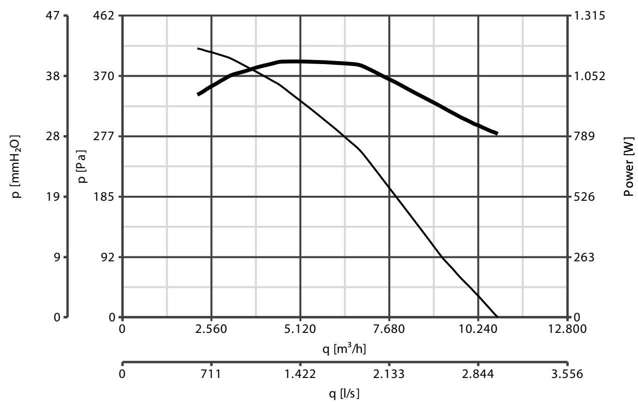
TRT 70 E-V 6P code 15195



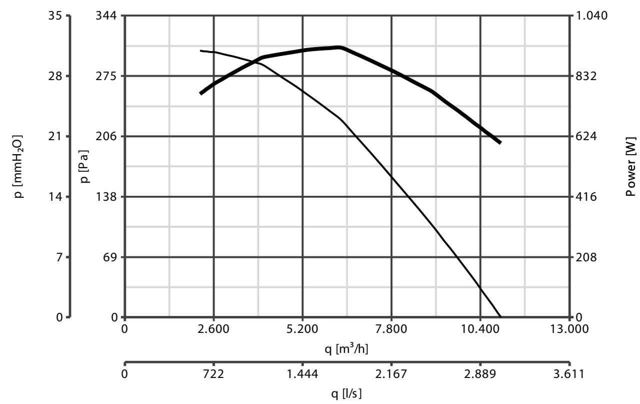
TRT 100 E-V 4P code 15196



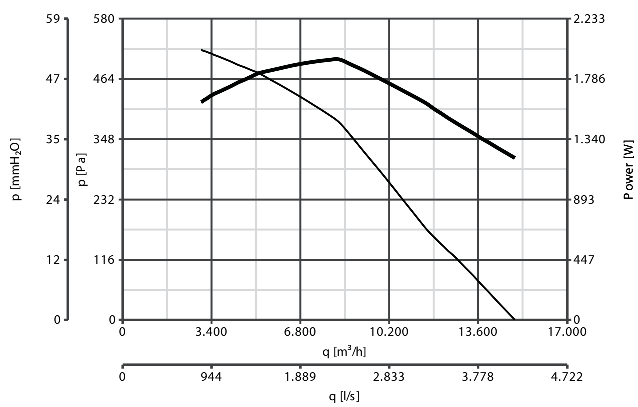
TRT 100 E-V 6P



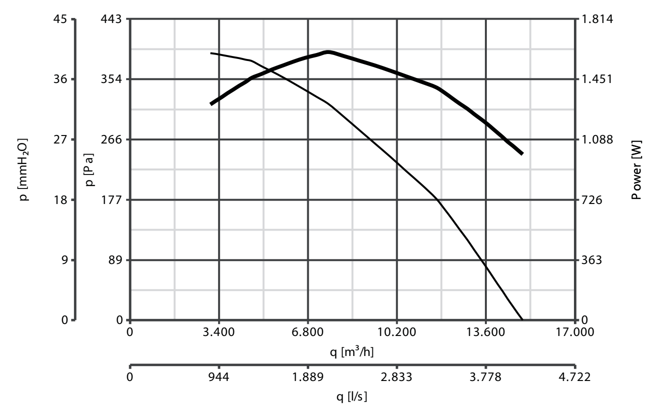
TRT 100 E-V 8P



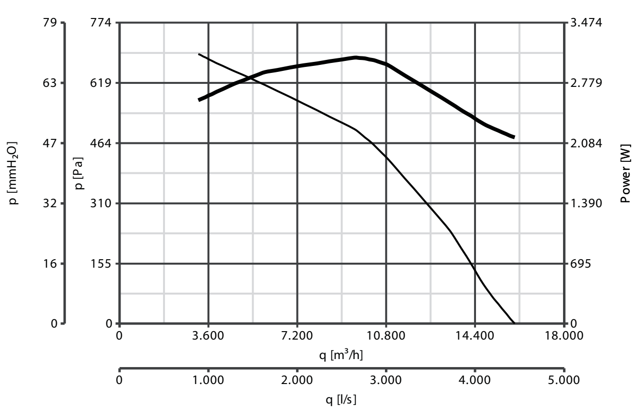
TRT 150 E-V 6P



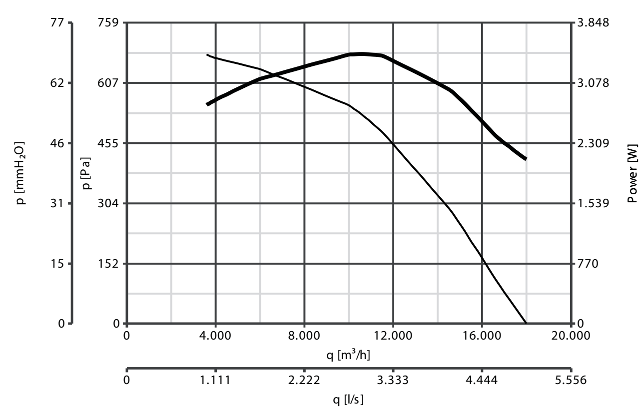
TRT 150 E-V 8P



TRT 180 E-V 6P



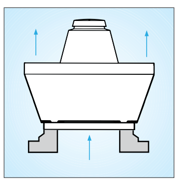
TRT 210 E-V 6P

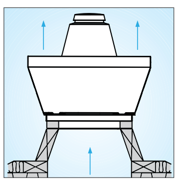


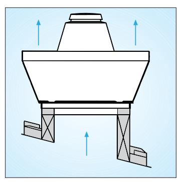
Delivery   Consumption

TORRETTE TR ED-V RANGE

Centrifugal roof fans with vertical discharge
for hot fumes extraction







Suitable for commercial and industrial applications as industrial buildings, blocks of flats, etc.

- **20 models**: ***6 single-phase*** *and* ***14 three-phase***.
- All models fitted with steel bird guards.
- Asynchronous induction motors, standard UNELMEC B5, ball bearing mounted shafts.
- Galvanised steel sheet fans with self cleaning, backward curved blades, self-ventilating, die casted aluminium hubs, clockwise rotation (intake view).
- Streamlined cross-section intake ports, made of polyestere steel painted.
- For long term safety each unit has a safety cable to anchor it to the base.
- Max airflow up to 18.000 m^3/h.
- The usage is admitted also in ambient temperature between -25°C and +90°C only in countries where the N°327/2011/UE European Regulation is not recognized.
- Minimum speed operation is admitted for products used for cold air treatment (fans not intended for hot fumes 400°C / 2h aspiration) in countries that do not adhere to N°327/2011/UE European regulation.
- Motor insulation class H.
- Protection rating: IP55.
- Insulation class: I. ⏚

Wiring diagrams shown from page 458

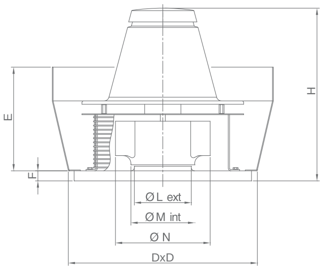
TECHNICAL DATA

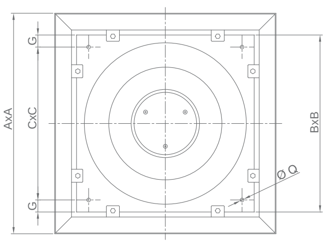
	Models	Code	W	A	POLES	RPM	Max Airflow		Max Pressure		Lp dB(A)	Max
			min/max	min/max		min/max	m^3/h min/max	l/s min/max	mmH_2O min/max	Pa min/max	3 m	°C
Single-phase	TRM 10 ED-V 4P**	15160	100	0.45	4	1450	1000	278	20	196	56	400 °C/2h
	TRM 15 ED-V 4P**	15162	130	0.57	4	1400	1400	389	24	235	58.5	
	TRM 20 ED-V 4P**	15164	250	1.20	4	1400	2200	611	34	334	68	
	TRM 30 ED-V 4P**	15166	410	1.75	4	1380	3100	861	40	392	67	
	TRM 50 ED-V 4P**	15168	720	3.30	4	1350	4500	1250	52	510	72.5	
	TRM 70 ED-V 4P**	15170	1000	4.35	4	1350	5800	1611	65	638	77	
Three-phase	TRT 10 ED-V 4P**	15161	75 / 100	0.15 / 0.25	4	1250 / 1400	890 / 1100	247 / 306	17 / 21	167 / 206	56	
	TRT 15 ED-V 4P**	15163	85 / 125	0.15 / 0.27	4	1100 / 1400	1100 / 1400	306 / 389	16 / 24	157 / 289	58.5	
	TRT 20 ED-V 4P**	15165	200 / 250	0.35 / 0.50	4	1100 / 1420	1800 / 2200	500 / 611	24 / 34	235 / 334	68	
	TRT 30 ED-V 4P**	15167	300 / 410	0.50 / 0.70	4	1100 / 1380	2550 / 3100	710 / 861	30 / 43	294 / 422	67	
	TRT 50 ED-V 4P**	15169	550 / 710	0.90 / 1.25	4	1100 / 1380	3800 / 4500	1056 / 1250	38 / 52	373 / 510	72.5	
	TRT 70 ED-V 4P**	15171	900 / 1100	1.50 / 2.00	4	1200 / 1400	5300 / 6000	1472 / 1667	52 / 67	510 / 657	77	
	TRT 70 ED-V 6P**	15172	450 / 620	0.90 / 1.30	6	760 / 940	5300 / 6000	1472 / 1667	30 / 38	294 / 373	74	
	TRT 100 ED-V 4P**	15173	1400 / 1870	2.40 / 4.50	4	1180 / 1400	8300 / 9100	2306 / 2528	72 / 84	706 / 824	84	
	TRT 100 ED-V 6P**	15174	800 / 1110	1.60 / 2.30	6	760 / 940	7550 / 8600	2097 / 2389	38 / 47	373 / 461	77	
	TRT 100 ED-V 8P**	15175	700 / 810	1.30 / 2.00	8	610 / 720	8200 / 9200	2278 / 2556	28 / 34	275 / 334	71	
	TRT 150 ED-V 6P**	15176	1470 / 1880	2.45 / 3.45	6	710 / 920	11100 / 12800	3056 / 3556	42 / 59	412 / 579	80	
	TRT 150 ED-V 8P**	15177	1170 / 1450	2.15 / 2.95	8	540 / 720	11600 / 13500	3222 / 3750	34 / 42	334 / 412	74	
	TRT 180 ED-V 6P**	15178	3200	6.11	6	950	16500	4583	79	775	83	
	TRT 210 ED-V 6P**	15179	3460	6.42	6	950	18000	5000	80	785	84	

** Certified by LGAI (Applus) according to EN 12101-3

Electric supply: 230 V ~ 50 Hz (Single-phase)
400 V ~ 50 Hz (Three-phase).

DIMENSIONS



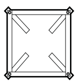
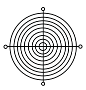


Models	Ø A	⌀B	⌀C	D	E	F	G	H	Ø L	Ø M	Ø N	Ø Q	Kg
TRM 10 ED-V 4P	652	410	357	440	328		26.5	502	170	187.5	283		23
TRM 15 ED-V 4P									182	199	315		24
TRM 20 ED-V 4P								586	219	236.5	359	11	43
TRM 30 ED-V 4P	907	550	500	580	432		25	604	244	265.5	404		45
TRM 50 ED-V 4P								631	278	298	454		51
TRM 70 ED 4P	1144	830	750	860	491		40	723	328	335	504	12	105
TRT 10 ED-V 4P	652	410	357	440	328		26.5	502	170	187.5	283		23
TRT 15 ED-V 4P									182	199	315		24
TRT 20 ED-V 4P								586	219	236.5	359	11	43
TRT 30 ED-V 4P	907	550	500	580	432	38	25	604	244	265.5	404		45
TRT 50 ED-V 4P								631	278	298	454		51
TRT 70 ED-V 4P									328	335	504		103
TRT 70 ED-V 6P	1144	830	750	860	491			723	365	375	564		106
TRT 100 ED-V 4P													107
TRT 100 ED-V 6P									415	421	635		161
TRT 100 ED-V 8P							40		465	472	715	12	171
TRT 150 ED-V 6P	1462	980	900	1010	595			923					172
TRT 150 ED-V 8P													176
TRT 180 ED-V 6P									520	529	805		
TRT 210 ED-V 6P													180

Dimensions (mm)

PRODUCT ACCESSORIES

Models		Code	TRM 10 ED-V 4P code 15160	TRM 15 ED-V 4P code 15162	TRM 20 ED-V 4P code 15164	TRM 30 ED-V 4P code 15166	TRM 50 ED-V 4P code 15168	TRM 70 ED-V 4P code 15170	TRT 10 ED-V 4P code 15161	TRT 15 ED-V 4P code 15163	TRT 20 ED-V 4P code 15165	TRT 30 ED-V 4P code 15167	TRT 50 ED-V 4P code 15169	TRT 70 ED-V 4P code 15171	TRT 70 ED-V 6P code 15172	TRT 100 ED-V 4P code 15173	TRT 100 ED-V 6P code 15174	TRT 100 ED-V 8P code 15175	TRT 150 ED-V 6P code 15176	TRT 150 ED-V 8P code 15177	TRT 180 ED-V 6P code 159178	TRT 210 ED-V 6P code 15179
	**IRM 30*** Three position single-phase speed controller	12921	●	●																		
	IRM 40* Three position single-phase speed controller	12922			●	●																
	IRM 50* Three position single-phase speed controller	12928					●															
	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					●															
	**IREM 9* ***** Single-phase speed controller	12933						●														
	**IRET 6*** Three-phase speed controller	12934												●	●	●	●	●	●	●		

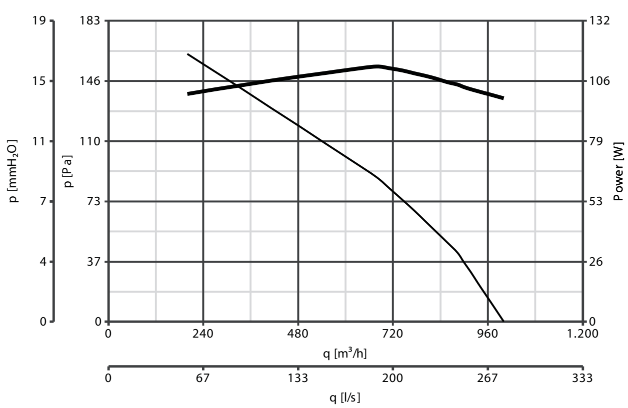
Models		Code	TRM 10 ED-V 4P code 15160	TRM 15 ED-V 4P code 15162	TRM 20 ED-V 4P code 15164	TRM 30 ED-V 4P code 15166	TRM 50 ED-V 4P code 15168	TRM 70 ED-V 4P code 15170	TRT 10 ED-V 4P code 15161	TRT 15 ED-V 4P code 15163	TRT 20 ED-V 4P code 15165	TRT 30 ED-V 4P code 15167	TRT 50 ED-V 4P code 15169	TRT 70 ED-V 4P code 15171	TRT 70 ED-V 6P code 15172	TRT 100 ED-V 4P code 15173	TRT 100 ED-V 6P code 15174	TRT 100 ED-V 8P code 15175	TRT 150 ED-V 6P code 15176	TRT 150 ED-V 8P code 15177	TRT 180 ED-V 6P code 159178	TRT 210 ED-V 6P code 15179
	**IRET INVERTER 1.2** Three-phase speed controller INVERTER	12909							●	●	●	●										
	IRET INVERTER 2.2 Three-phase speed controller INVERTER	12925											●	●	●			●				
	IRET INVERTER 5 Three-phase speed controller INVERTER	12947														●	●		●	●		
	IRET INVERTER 8 Three-phase speed controller INVERTER	12989																			●	●
	**TR-CU 10/15** Sub-frame	22511	●	●					●	●												
	TR-CU 20/30/50 Sub-frame	22512			●	●	●	●			●	●	●									
	TR-CU 70/100 Sub-frame	22539												●	●	●	●					
	TR-CU 100/150-6P/8P Sub-frame	22540																●	●	●	●	●
	**TR-G 10/15** Intake port protection grille	22700	●	●					●	●												
	TR-G 20/30/50 Intake port protection grille	22710			●	●	●				●	●	●									
	TR-G 70/100 Intake port protection grille	22506												●	●	●	●					
	TR-G 100/150-6P/8P Intake port protection grille	22507																●	●	●	●	●

* Use in conjunction with appliances having speed selectors or controllers is not permitted in countries implementing European regulation 327/2011/EU.
** Can control multiple fans up to a maximum 5A.
*** Used for simultaneous control of multiple appliances up to a maximum 9A.

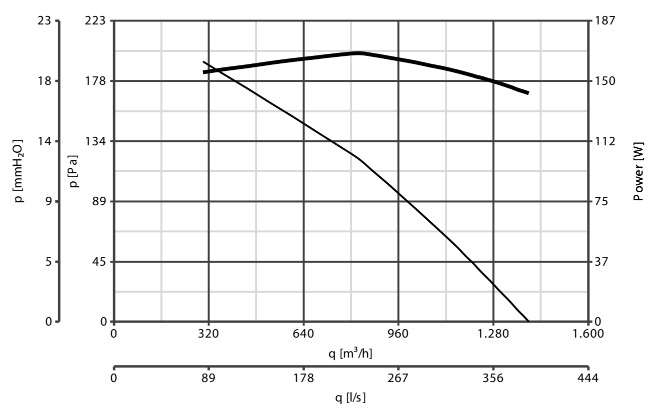
Description and sizes on page 325; System components on page 300.

PERFORMANCE CURVES

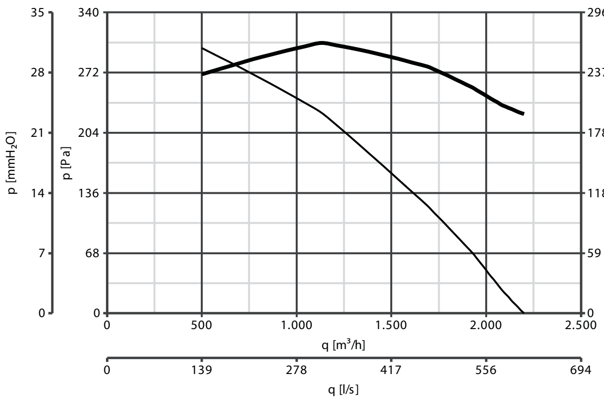
TRM 10 ED-V 4P code 15160



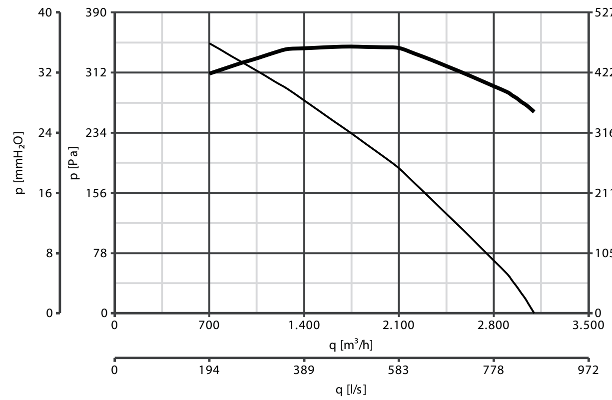
TRM 15 ED-V 4P code 15162



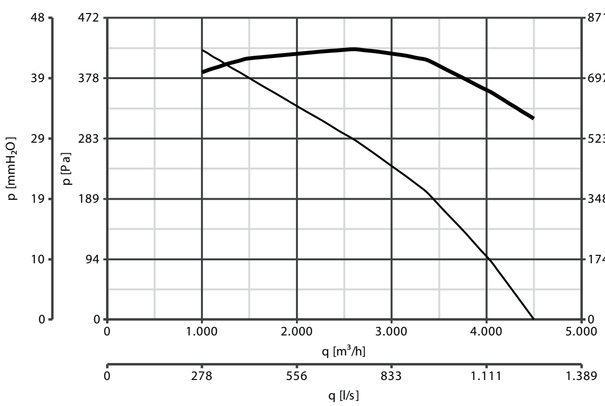
TRM 20 ED-V 4P code 15164



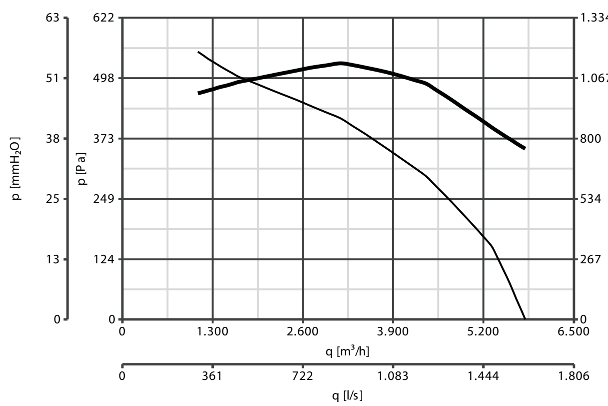
TRM 30 ED-V 4P code 15166



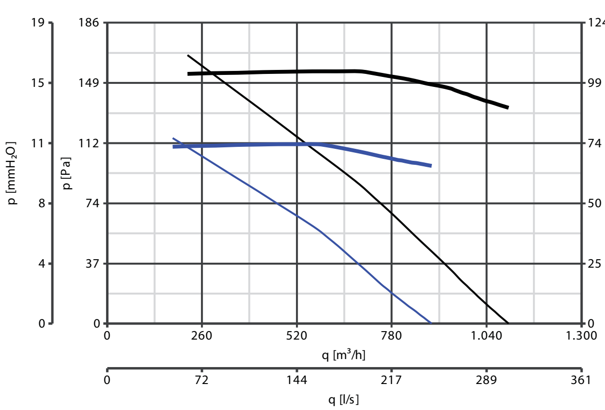
TRT 50 ED-V 4P code 15168



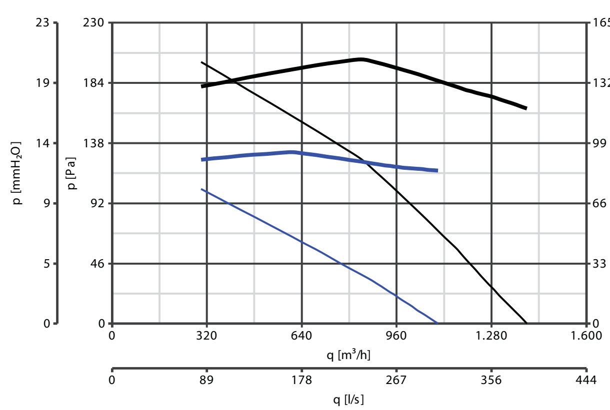
TRM 70 ED-V 4P code 15170



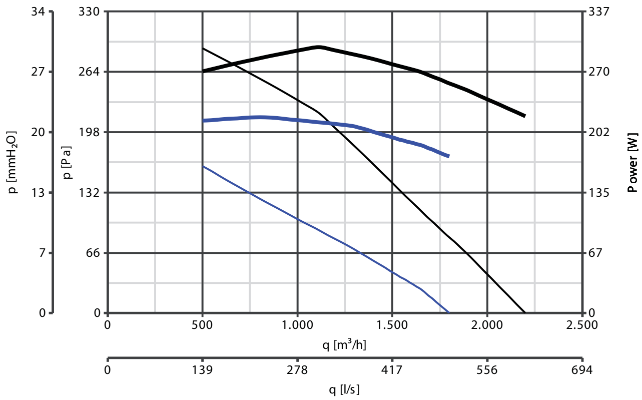
TRT 10 ED-V 4P code 15161



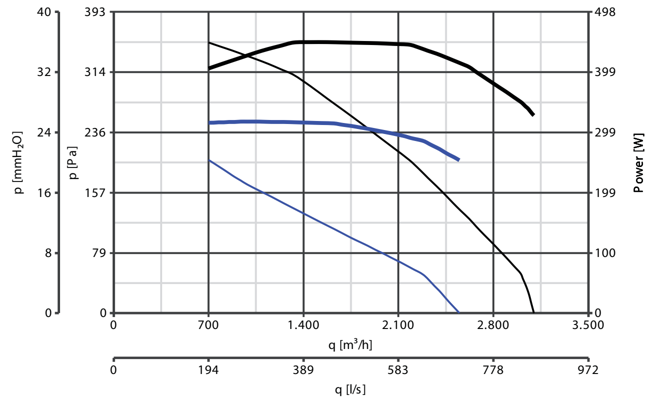
TRT 15 ED-V 4P code 15163



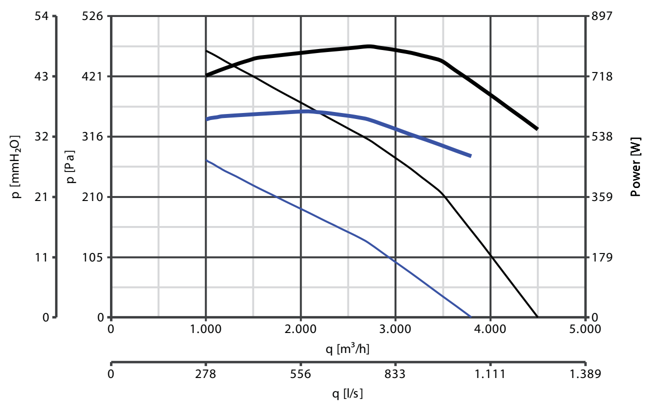
TRT 20 ED-V 4P code 15165



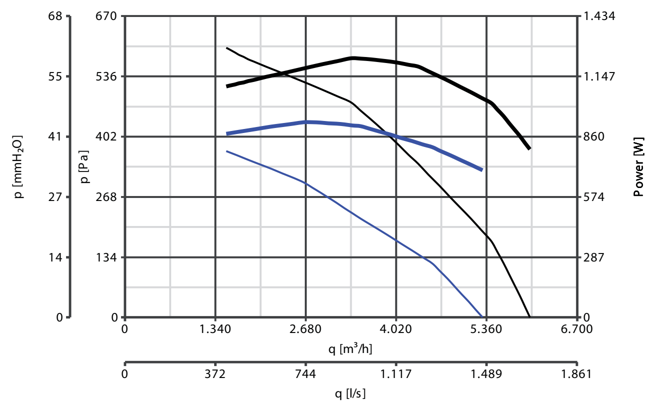
TRT 30 ED-V 4P code 15167



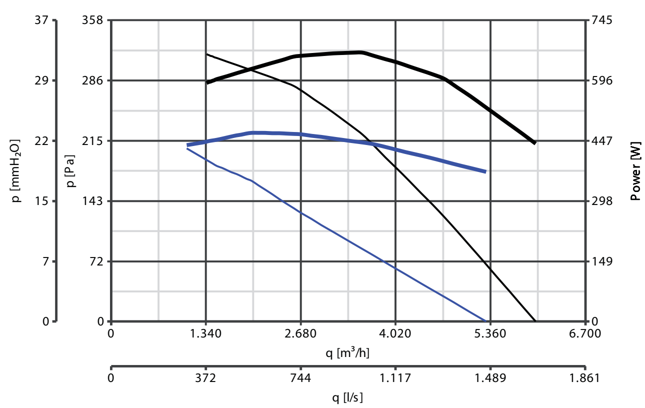
TRT 50 ED-V 4P code 15169



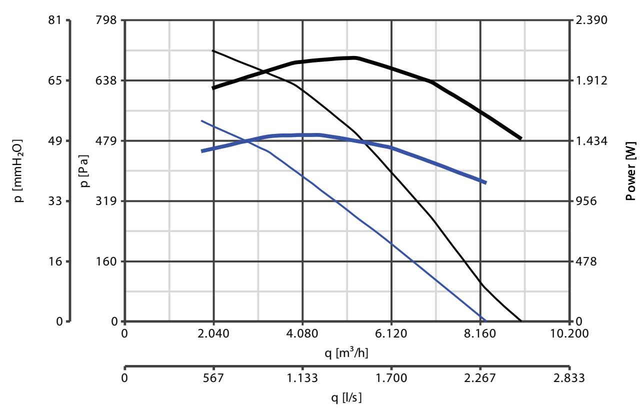
TRT 70 ED-V 4P code 15171



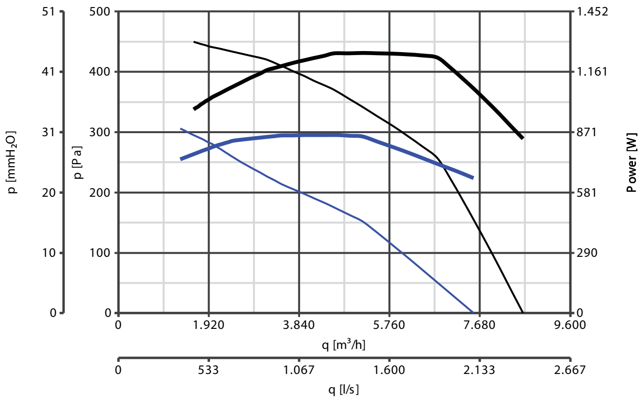
TRT 70 ED-V 6P code 15172



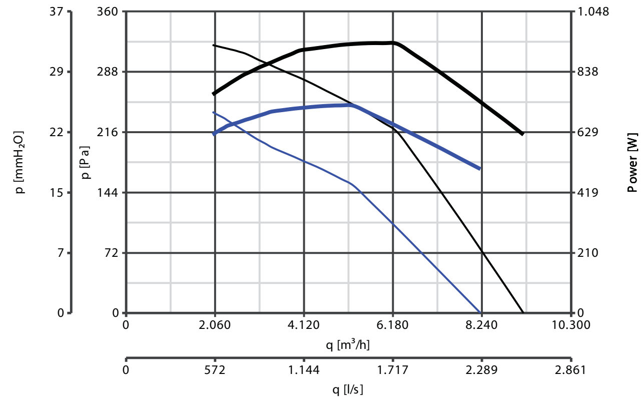
TRT 100 ED-V 4P code 15173



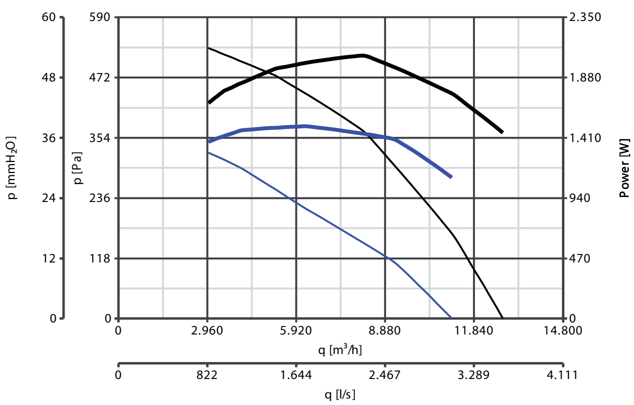
TRT 100 ED-V 6P code 15174



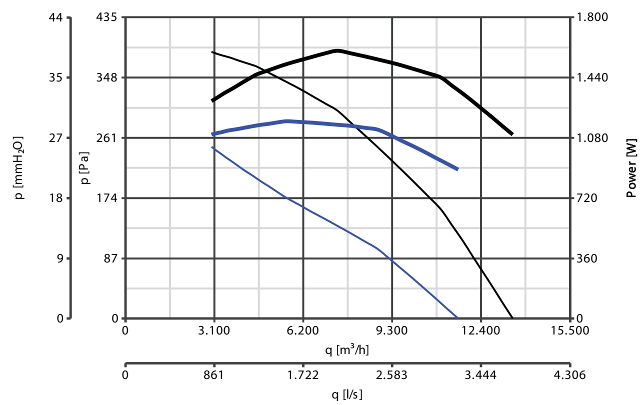
TRT 100 ED-V 8P code 15175



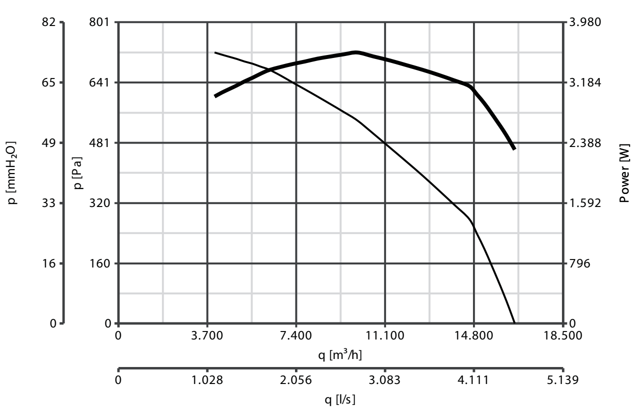
TRT 150 ED-V 6P code 15176



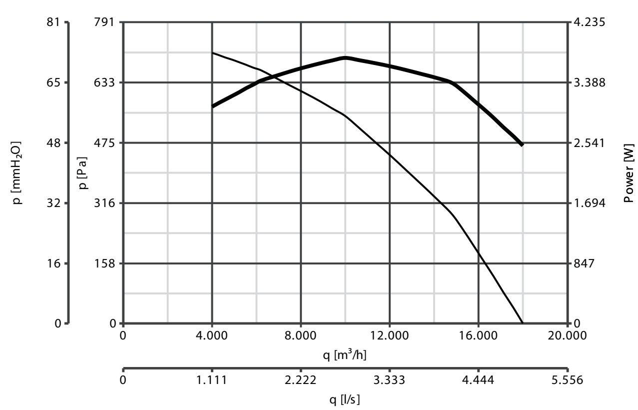
TRT 150 ED-V 8P code 15177



TRT 180 ED-V 6P code 15178



TRT 210 ED-V 6P code 15179



Delivery Consumption

DECLARATION OF PERFORMANCE CE

VORTICE ELETTROSOCIALI S.p.A
Strada Cerca, 2 - frazione di Zoate
20067 TRIBIANO Milano, Italy

hereby declares that the performance of products:

Model	Code	Notified Body
TRM 10 ED 4P	15039	TÜV
TRT 10 ED 4P	15040	TÜV
TRM 15 ED 4P	15041	TÜV
TRT 15 ED 4P	15042	TÜV
TRM 20 ED 4P	15043	TÜV
TRT 20 ED 4P	15045	TÜV
TRM 30 ED 4P	15046	TÜV
TRT 30 ED 4P	15047	TÜV
TRM 50 ED 4P	15048	TÜV
TRT 50 ED 4P	15049	TÜV
TRM 70 ED 4P	15080	TÜV
TRT 70 ED 4P	15081	TÜV
TRT 70 ED 6P	15082	TÜV
TRT 100 ED 4P	15083	TÜV
TRT 100 ED 6P	15084	TÜV
TRT 100 ED 8P	15085	TÜV
TRT 150 ED 6P	15086	TÜV
TRT 150 ED 8P	15087	TÜV
TRT 180 ED 6P	15919	APPLUS
TRT 210 ED 6P	15920	APPLUS

Model	Code	Notified Body
TRM 10 ED-V 4P	15160	APPLUS
TRT 10 ED-V 4P	15161	APPLUS
TRM 15 ED-V 4P	15162	APPLUS
TRT 15 ED-V 4P	15163	APPLUS
TRM 20 ED-V 4P	15164	APPLUS
TRT 20 ED-V 4P	15165	APPLUS
TRM 30 ED-V 4P	15166	APPLUS
TRT 30 ED-V 4P	15167	APPLUS
TRM 50 ED-V 4P	15168	APPLUS
TRT 50 ED-V 4P	15169	APPLUS
TRM 70 ED-V 4P	15170	APPLUS
TRT 70 ED-V 4P	15171	APPLUS
TRT 70 ED-V 6P	15172	APPLUS
TRT 100 ED-V 4P	15173	APPLUS
TRT 100 ED-V 6P	15174	APPLUS
TRT 100 ED-V 8P	15175	APPLUS
TRT 150 ED-V 6P	15176	APPLUS
TRT 150 ED-V 8P	15177	APPLUS
TRT 180 ED-V 6P	15178	APPLUS
TRT 210 ED V-6P	15179	APPLUS

used for the evacuation of fumes and heat, is as follows:

Essential characteristics	Performance	Harmonised standard
400°C for a duration of 120 minutes	F400	***Smoke and heat control system*** *Specification for powered smoke and heat exhaust ventilators* **EN 12101-3(2002)+AC(2005)**

verified by the following European Notified Bodies:

TÜV SÜD INDUSTRIE SERVICE GMBH MÜNCHEN : Certification Body N° 0036
Certificate No.:

- **0036 CPD RG03 01**
- **0036 CPD RG03 02**
- **0036 CPD RG03 03**
- **0036 CPD RG03 04**

APPLUS- LGAI TECHNOLOGICAL CENTRE SA : Certification Body N° 0370
Certificate No.:

- **0370 CPR 0860**
- **0370 CPR 0861**

The consistent performance of the above products is guaranteed by a Grade 1 system, in accordance with appendix V of European Regulation No. **305/2011 (EU)**.

WARNING

TR ED-V ROOF FANS (400 °C/2H) ARE CERTIFIED ACCORDING TO THE EN 12101-3 STANDARD FOR OPERATING AT MAX SPEED; NOT SUITABLE FOR COUPLING WITH COMMUTARS ABD SPEED CONTROLLERS IF USED FOR THESE FUNCTIONS.

INDUSTRIAL VENTILATION ACCESSORIES

Models		Code	Dimensions

IRM - IRT **Variable voltage drive for industrial extractor fans**

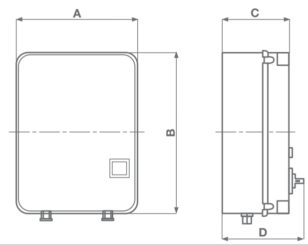
- *3-position variable speed drive*

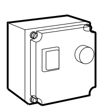
Models	Code	V~50Hz	A	Kg	Isulation	IP
IRM 30	12921	220-240	1.2	3.8	Cl.I	56
IRM 40	12922	220-240	3.5	6.1	Cl.I	56
IRM 50	12928	220-240	4.8	6	Cl.I	56
IRT 15	12923	220-240	0.75	6.3	Cl.I	56
IRT 35	12924	220-240	2.6	11	Cl.I	56
IRT 40	12927	220-240	4.5	13	Cl.I	56

Code: 12921, 12922, 12928, 12923, 12924, 12927

Models	Code	A	B	C	D
IRM 30	12921	200	254	99	128
IRM 40	12922	236	315	128	157
IRM 50	12928	236	315	128	157
IRT 15	12923	236	315	128	157
IRT 35	12924	236	315	128	157
IRT 40	12927	236	315	128	157

Dimensions (mm)





IREM **Electrical speed controller**
IREM 3
IREM 5
IREM 9
IRET 3
IRET 6

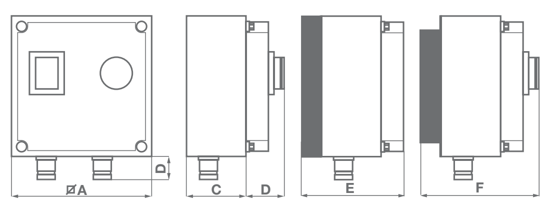
- *Single-phase and three-phase speed controllers*

Models	code	V~50Hz	A	Kg	Isulation	IP
IREM 3	12931	220-240	3	0.4	Cl.I	54
IREM 5	12932	220-240	5	0.4	Cl.I	54
IREM 9	12933	220-240	9	0.7	Cl.I	54
IRET 3	12834	400	3	1.7	Cl.I	20
IRET 6	12934	380-415	6	0.7	Cl.I	54

Code: 12931, 12932, 12933, 12834, 12934

Models	Code	⌀ A	C	D	E	F
IREM 3	12931	125	57	31	25	-
IREM 5	12932	125	57	31	25	-
IREM 9	12933	125	-	-	25	103
IRET 6	12934	175	-	-	30	105

Dimensions (mm)

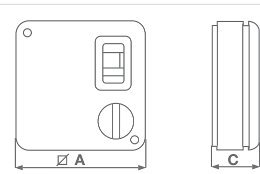


IREM 3/5 **IRET 6** **IREM 9**

C 1.5 **Non reversible variable electronic speed controller**

- *Not suitable for products with timer or automatic shutters*
- *Convertible to flush-mounted using SCB kit*
- *Weight 0.2 Kg*
- *Maximum load: 200 W*
- *Double insulation*

Code: 12966



⌀ A	C
120	43

Dimensions (mm)

IREM INVERTER - IRET INVERTER

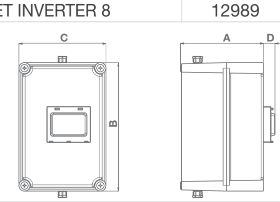
Speed controllers for single-phase and three-phase extractor fans

Models	Code	V~50Hz	Kg	Isulation	IP
IREM INVERTER 1.4	12935	230	2.4	Cl.I	20
IREM INVERTER 4.2	12936	230	3.1	Cl.I	20
IREM INVERTER 7	12937	230	3.6	Cl.I	20
IRET INVERTER 1.2	12909	230	3.2	Cl.I	20
IRET INVERTER 2.2	12925	230	3.2	Cl.I	20
IRET INVERTER 5	12947	230	3.8	Cl.I	20
IRET INVERTER 8	12989	230	1.9	Cl.I	20

Code: 12935, 12936, 12937, 12909, 12925, 12947, 12989

Models	Code	A	B	C	D
IREM INVERTER 1.4	12935	190	280	130	25
IREM INVERTER 4.2	12936	190	280	180	25
IREM INVERTER 7	12937	190	280	180	25
IRET INVERTER 1.2	12909	190	280	180	25
IRET INVERTER 2.2	12925	190	280	180	25
IRET INVERTER 5	12947	190	280	180	25
IRET INVERTER 8	12989	190	280	230	25

Dimensions (mm)



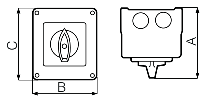
Models		Code	Dimensions

TR-CVT Three-phase speed controller
- 3-position selector (0-1-3)

Code: **22910**

Models	Code	A	B	C
TR-CVT	22910	92	64	78

Dimensions (mm)



Models	code	V~50Hz	A	Kg	Isulation	IP
TR-CVT	22910	380-415	3	0.4	Cl.I	54

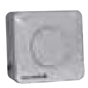
IREM INVERTER, IRET INVERTER
Speed controllers for single-phase and three-phase extractor fans
- Protection rating: IP54
- Insulation class: Cl.I.

Models	Code	V~50Hz	A	Kg
IREM INVERTER 4 M	12815	230	4	2.7
IREM INVERTER 6 M	12818	230	6	5.4
IRET INVERTER 2.5 M	12816	400	2.5	2.7
IRET INVERTER 5 M	12817	400	5	5.4

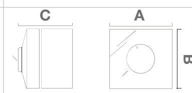
Code: **12815 12816 12817 12818**

Models	Code	A	B	C
IREM INVERTER 4 M	12815	240	284	115
IREM INVERTER 6 M	12818	250	302	195.5
IRET INVERTER 2.5 AM	12816	240	284	115
IRET INVERTER 5 AM	12817	250	302	195.5

Dimensions (mm)

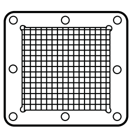


POTENTIOMETER for INVERTER codes 12815, 12818, 12816, 12817
- IP54



Models	Code	A	B	C	Kg
POTENTIOMETER	12819	82	82	65	0.14

Dimensions (mm)

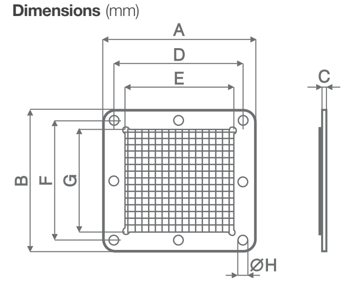


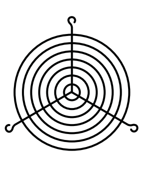
C-GM Outlet protective grille
- Fitted to the appliance delivery side to prevent accidental contact with moving parts if the appliance is installed in an accessible position (STANDARD EN 294)

Code: **22811 22812 22813 22814 22816 22817 22818 22819 22820 22821 22822**

Models	Code	A	B	C	D	E	F	G	Ø H	N. fix
C-GM 10	22811	98	88	1	82	67.5	72	67.5	6.5	4
C-GM 15	22812	125	132	1	100	90.5	108	90.5	7	4
C-GM 20	22813	145	145	1	123	102	123	102	8.5	4
C-GM 25	22814	164	146	1	142	113.5	124	102	8.5	4
C-GM 30	22816	162	150	1	137	113.5	126	113.5	8.5	4
C-GM 31	22817	165	190	1	139	113.5	164	136.5	8.5	8
C-GM 35	22818	200	190	1	174	148	164	136.5	8.5	8
C-GM 37	22819	212	205	1	182	148	220	182.5	8.5	8
C-GM 40	22820	244	250	1	208	182.5	214	182.5	8.5	8
C-GM 45	22821	260	260	1	228	205.5	228	205.5	9	8
C-GM 46	22822	295	336	1	265	240	306	274.5	11.5	8

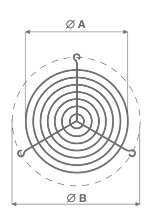
Dimensions (mm)





C-GA Intake port protection grille
- Fitted to the appliance delivery side to prevent accidental contact with moving parts if the appliance is installed in an accessible position

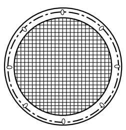
Code: **22801 22802 22803 22804 22805 22806 22807 22808**



Models	Code	Ø A	Ø B	N. fix
C-GA 10	22801	80	104	3x120°
C-GA 15	22802	100	134	3x120°
C-GA 20/25	22803	120	142	3x120°
C-GA 30	22804	140	176	3x120°
C-GA 31/35	22805	180	220	4x90°
C-GA 37/40	22806	220	262	4x90°
C-GA 45	22807	260	300	4x90°
C-GA 46	22808	340	395	4x90°

Dimensions (mm)

Models		Code	Dimensions



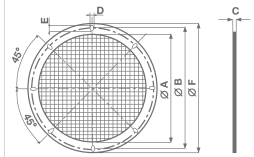
MPC RP Protection grille

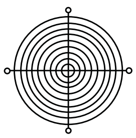
- Fitted on top of the appliance intake to prevent accidental contact with moving parts if the appliance is installed in an accessible position (STANDARD EN 294)

22527
22528
22529
22530

Models	Code	Ø A	Ø B	C	Ø F	DxE
MPC RP 250	22527	260	292	8	325	9x14
MPC RP 250	22528	312	366	8	399	9x14
MPC RP 250	22529	364	405	8	438	9x14
MPC RP 250	22530	414	448	8	481	9x14

Dimensions (mm)





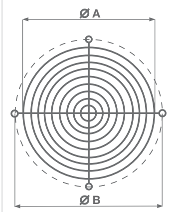
TR-G Intake port protection grille

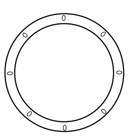
- Fitted to the appliance intake to prevent accidental contact with moving parts if the appliance is installed in an accessible position (Standard EN 294)

22700
22710
22506
22507

Models	Code	Ø A	Ø B	
TR-G 10/15	22700	223	254	4x90°
TR-G 20/30/50	22710	323	359	4x90°
TR-G 70/100	22506	463	500	6x60°
TR-G 100/150/180/210 6P/8P	22507	588	640	6x60°

Dimensions (mm)





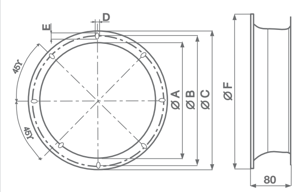
MPC BO Intake nozzle

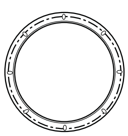
- To facilitate air entry from the intake side

22535
22536
22537
22538

Models	Code	Ø A	Ø B	Ø C	DxE	Ø F
MPC BO 250	22535	260	292	310	9x14	323
MPC BO 300	22536	312	366	384	9x14	384
MPC BO 350	22537	364	405	423	9x14	440
MPC BO 400	22538	414	448	466	9x14	500

Dimensions (mm)





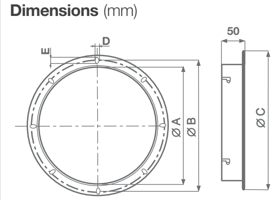
MPC FL Flange fitting

- To make it easier to join the appliance to the intake or outlet pipe

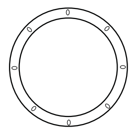
22523
22524
22525
22526

Models	Code	Ø A	Ø B	Ø C	DxE
MPC FL 250	22523	260	292	318	9x14
MPC FL 300	22524	312	366	392	9x14
MPC FL 350	22525	364	405	431	9x14
MPC FL 400	22526	414	448	472	9x14

Dimensions (mm)



Models		Code	Dimensions

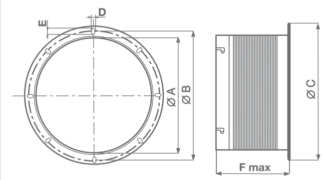


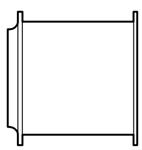
MPC RA Flexible fitting
- To make it easier to join the appliance to the intake or outlet pipe

22516
22517
22518
22519

Models	Code	Ø A	Ø B	Ø C	DxE	F max
MPC RA 250	22516	260	292	318	9x14	200
MPC RA 300	22517	312	366	392	9x14	225
MPC RA 350	22518	364	405	431	9x14	200
MPC RA 400	22519	414	448	472	9x14	200

Dimensions (mm)



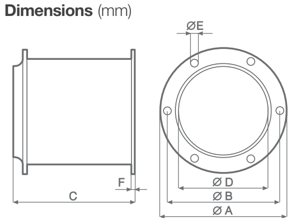


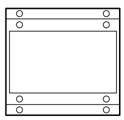
C-RA Flanged fitting for intake tube
- To make it easier to join the appliance to the intake or outlet pipe

22825
22826
22828
22829
22830
22832
22833
22834
22835

Models	Code	Ø A	Ø B	C	Ø D	Ø E	F
C-RA 10	22825	111.5	100	83	80	7	0.8
C-RA 15	22826	141	128	114	108	7	0.8
C-RA 20/25	22828	152	132	117	108	7	1
C-RA 30	22829	190	170	141	132	7	1
C-RA 31/35	22830	240	210	169	170	8.5	1
C-RA 37	22832	282	255	224	199	8.5	1
C-RA 40	22833	282	255	229	199	8.5	1
C-RA 45	22834	320	290	235	240	8.5	1
C-RA 46	22835	420	390	270	288	8.5	1

Dimensions (mm)



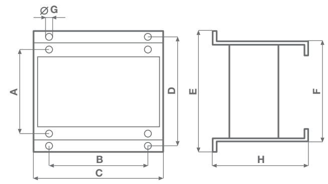


C-MS Support for wall mounting with fixings
- To fix the fan to the wall

22836
22837
22838
22839
22840

Models	Code	A	B	C	D	E	F	Ø G	H	MEC
C-MS 20/25	22836	112	90	120	187	220	152	8	125	71
C-MS 30	22837	112	90	120	187	220	160	8	170	71
C-MS 31/35	22838	112	90	120	187	220	160	8	200	71
C-MS 37/40	22839	125	100	140	200	235	165	10	230	80
C-MS 45	22840	140	125	175	215	250	180	10	300	90

Dimensions (mm)



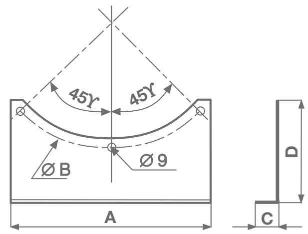
Models		Code	Dimensions

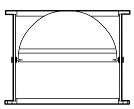
MPC SU Mounting feet
- *To fix the fan to the wall*

22531
22532
22533
22534

Models	Code	A	Ø B	C	D
MPC SU 250	22531	240	292	25	120
MPC SU 300	22532	295	366	25	120
MPC SU 350	22533	320	405	25	130
MPC SU 400	22534	360	448	25	140

Dimensions (mm)



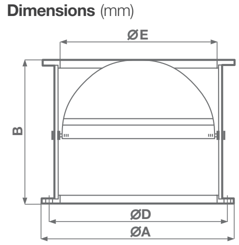


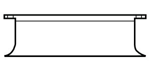
TR-S Galvanized sheet-metal backdraught shutter
- *Fitted to the appliance delivery side to prevent air from re-entering when the appliance is switched off*

22500
22510
22541
22542

Models	Code	Ø A	B	Ø D	Ø E
TR-S 10/15	22500	270	210	254	225
TR-S 20/30/50	22510	375	210	359	327
TR-S 70/100	22541	520	260	500	430
TR-S 100/150/180/210 6P/8P	22542	660	310	640	570

Dimensions (mm)



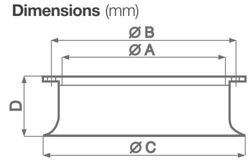


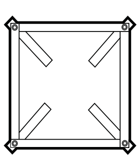
TR-B Section connector
- *To facilitate air entry from the intake side*

22600
22610
22508
22509

Models	Code	Ø A	B	Ø D	Ø E
TR-B 10/15	22600	275	80	225	254
TR-B 20/30/50	22610	380	80	330	359
TR-B 70/100	22508	480	100	430	500
TR-B 100/150/180/210 6P/8P	22509	620	100	570	640

Dimensions (mm)



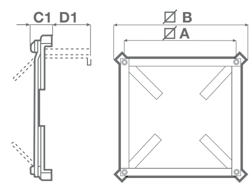


TR-CU Installation base counter-frame
- *To fix the fan to the wall*

22511
22512
22539
22540

Models	Code	⧄A	⧄B	C1	D1
TR-CU 10/15	22511	357	401	140	37
TR-CU 20/30/50	22512	500	541		
TR-CU 70/100	22539	750	791		
TR-CU 100/150/180/210 6P/8P	22540	900	941		

Dimensions (mm)



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Vortice® research has produced lightweight extractor fans for industrial premises, where the air being breathed has to be controlled as much as possible.
These industrial fans include Axial, Centrifugal, Roof Ranges.

CE MARKING

Industrial Ventilation appliances conform to the following European Directives:

- 2006/42/EC Machine Directive (MD)
- 2004/108/EC Electromagnetic Compatibility
- 89/106/ EC Construction Products
- 2009/125/EC ErP Directive, Ecocompatible design of energy-related products in accordance with EU regulation 327/2011.
- EU regulation 305/2011 (EN 12101-3)

According to the following state-of-the-art Standards:

Safety:
EN 60204-1
EN ISO 12100-1
EN ISO 12100-2
EN ISO 12499
EN ISO 13857
EN 12101-3 (TR ED; TR ED-V)

EMC:
EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3

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