



INDUSTRIAL
VENTILATION

A photograph of a modern building's glass facade, showing a grid of windows reflecting the sky. A hand is holding a small globe of the Earth, centered in front of the building, symbolizing global reach or environmental concern.

NEW



HEADQUARTERS



Our current Vortice Headquarters have been located in Tribiano (Milan) since 1972.

Vortice main company's philosophy is the concept that "air is our life". Our mission is always to provide effective solutions for improved air quality using the latest technology to develop and manufacture effective products worldwide.

Vortice has achieved European market leadership by dedicating their efforts to the production of products for ventilation, climate control, heating, extraction, purification and the treatment of air, for domestic, commercial and industrial applications. Since 1954 Vortice has been synonymous with quality and excellence and continues to make significant improvements by investing in continuous research to improve the efficiency and quality of its products.



VORTICE IN THE WORLD



Founded in 1974, Vortice France is located at Crétail about 10 Km from Paris.



Founded in 1977, Vortice Limited is located at Burton on Trent in the East Midlands.



2010 - Our Moscow representative office was established.



Founded in 2012, Vortice Ventilation System is located about 200 Km from Shanghai.



Founded in 2012, Vortice Latam in San José Costa Rica.

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Practical steps towards saving energy

Following ratification of the Kyoto Protocol, the European Commission launched the “**20-20-20**” plan, which sets Member States **the target of reducing energy consumption by 20% and increasing their share of renewable energies by 20% by 2020.**

Directive 2009/125/EC ErP (Energy-related Products) is aimed at achieving these results. Its purpose is to limit the direct and indirect energy consumption of products placed on EU markets. It replaces *Directive 2005/32/CE EuP (Energy-using Products)*, which referred to a smaller number of products, largely intended for private use.

The ErP Directive is applied in a series of Regulations which establish, for each type of energy-consuming product or device, the minimum efficiency limit below which they are not eligible for CE marking and may not therefore be placed on the markets of Member States.

These Regulations have the status of European Union laws. As such, they are not subject to the approval of national parliaments, and compliance with them is binding in the event of any conflict with national laws.

A common feature of all the Regulations in question is the criterion used for their application: to facilitate their assimilation by manufacturers, the legislator has established a two-stage pathway, under which the final efficiency target is preceded, generally two years earlier, by an intermediate target intended to be easier and less costly to reach.



Vortice and its commitment to the ErP Directive

The Regulations approved to date which affect Vortice products are summarised below.

» **EC Regulation N°1275/2008**, in force since January 2010, which establishes the maximum consumption of electrical appliances in stand-by mode.

» **EC Regulation N°640/2009**, in force since August 2009, which sets a minimum efficiency limit for all single-speed and three-phase electric motors having 2 to 6 poles and whose power rating is between 750 W and 375 kW.

The Regulation does not apply to certain types of motor:

- *motors which are fully integrated into a product* (e.g. a fan), whose energy performance cannot be tested independently of the product itself;
- *motors designed specifically to operate at ambient air temperatures exceeding 40 °C*;
- *motors designed to operate in potentially explosive atmospheres (ATEX)*.

» **EU Regulation N°206/2012**, in force since January 2013, which establishes the minimum energy efficiency requirements for **CONDITIONERS** with rated capacity of up to 12 kW, and requires that performance, energy consumption and sound power level be declared for **COMFORT FANS** with electric power input of up to 125 W.

» **EU Regulation N°66/2014**, in force since February 2015, which establishes the minimum values of efficiency (energy and air flow) and average illumination on the cooking surface of **RANGE HOODS FOR DOMESTIC USE**.

» **EU Regulation N°327/2011**, in force since January 2013, which sets a minimum efficiency limit on all fans (whether axial, centrifugal, cross flow or mixed flow fans, such as those in the **VORTICEL E, VORTICEL A-E, VORTICEL MPC-E** and **VORTICENT C-E Series**), whose electric input power at its optimum energy efficiency point is between 125 W and 500 kW.

The Regulation does not apply to certain types of fan, including the following:

- *cooling fans of electric motors*;
- *fans specifically designed to operate in potentially explosive atmospheres (E ATEX and C ATEX Series)*;
- *fans designed for emergency use only*, at short-time duty, with regard to fire safety requirements (such as those installed in the **TORRETTE TR ED** and **TR ED-V Series**);
- *fans specifically designed to operate where the operating ambient temperature for the motor, if located outside the gas stream, driving the fan, exceeds 65°C* (like those used in the **TR E** and **TR E-V Seires**).

Compliance with the ErP Directive of fans placed on the markets of European Union Member States (the requirement obviously does not apply to devices intended for sale in countries outside the EU), is indicated by affixing the **CE mark** and, in the case of fans sold individually (i.e. not integrated into products of greater complexity), by the indication of a series of data, including maximum efficiency and the speed corresponding to maximum efficiency, which the manufacturer is required to publish in the respective technical documentation, on its publicly accessible web sites, and, in certain cases, on the fan itself.



In addition to the series listed above, **EU Regulation N° 327/2011** also covers products such as our **CA MD E** *in-line centrifugal extractor fans*, **VORT QBK**, **VORT QBK SAL**, **VORT QBK COMFORT** and **VORT QBK QUIET** *box fans*, **RF-EU** *EU extractor fans for roof application* and **VORT NRG**, heat recovery units, whose fans must in turn meet the stipulated efficiency requirements (the requirement to make a declaration of efficiency that applies to fans does not apply to these appliances); *These ranges will in turn be required to comply with a further Regulation, specifically designed to improve the energy efficiency levels of finished products. This Regulation is scheduled to come into force in January 2016.*

The Commercial and Industrial range Vortice ErP 2015

After the steps taken in 2012 to bring the following series into line with regulatory requirements ahead of 2015:

- **CA MD E,**
- **CA ES,**
- **CA VO E,**
- **CA WE D E**
- **CA MD E RF,**
- **CA MD E W,**
- **VORTICEL E,**

Vortice completed the process of bringing the following series into line with 2015 ErP requirements:

- **VORTICEL A-E,**
- **VORTICEL MPC-E,**
- **VORTICENT C-E**

The same process was also completed for the fans installed in the following series:

- **VORT QBK,**
- **VORT QBK SAL,**
- **VORT QBK COMFORT,**
- **VORT QBK QUIET,**
- **VORT NRG,**
- **TORRETTE RF-EU.**

To simplify the management of the new appliances along the entire distribution chain, **Vortice has decided to keep the respective part numbers unchanged**, and assume responsibility for issues connected with managing the interim period.

WARNING: THE OBLIGATIONS/RESTRICTIONS REFER ONLY TO MANUFACTURERS AND IMPORTERS, NOT WHOLESALE DISTRIBUTORS OF ELECTRICAL GOODS, RETAILERS, INSTALLERS OR END USERS.

LEGEND



ErP COMPLIANT - The ErP compliant logo indicates that the appliance is eco-compatible and adheres to ErP Directive 2009/125/EC.

Er DATA: under the terms of the regulatory framework, the energy efficiency data of fans with electric input power of between 125 W and 500 kW must be declared in all technical and commercial documentation, in addition to the electrical data and pressure/performance curves.

- **Measurement cat.** = test category (A; B; C; D)
- **Efficiency cat.** = efficiency category (Static - Total)
- **Year of market release** = year
- **Variable drive** = variable speed drive
- η = overall energy efficiency
- n. = efficiency grade
- (kW) Pe = electric input power at optimum energy efficiency point
- (m³/h) q = air flow at optimum energy efficiency point
- (Pa) p = pressure (Static - Total) at optimum energy efficiency point
- **RPM** = revolutions per minute at optimum energy efficiency point
- **Rapp spec. <1.04** = specific ratio



ENERGY SAVING - The ES label shows that the appliances are fitted with EC Brushless motors and therefore offer guaranteed energy savings, thanks to the wide range of speed regulation options and significantly reduced consumption levels.

LONG LIFE 30.000 h

VERSIONE LONG LIFE - The Long Life 30,000 h label certifies that the appliance is guaranteed to operate for 30,000 continuous hours without mechanical failure thanks to its motor, which is equipped with ball bearings. This special configuration allows the appliance to be run continuously, and ensures efficient, silent operation throughout its service life.

HABITAT

VERSIONE HABITAT - The Habitat label indicates that the product is suitable for ventilating small or medium domestic or commercial environments on a continuous or intensive basis with high performance and low energy consumption.



This label means that the products are designed to offer energy savings by means of heat exchange between the inlet and outlet air flows in room ventilation systems, thereby combining comfort with a higher energy efficiency class.



The IMQ logo denotes compliance with C.E.I product safety regulations, and this is certified by the Istituto Italiano del Marchio di Qualità.



The IMQ logo denotes compliance with C.E.I product performance regulations, and this is certified by the Istituto Italiano del Marchio di Qualità.

CE MARKING

Commercial Ventilation appliances conform to the following European Directives:

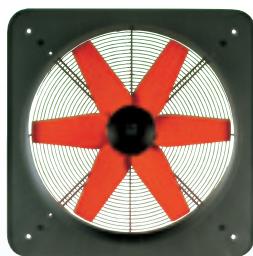
- 2009/125/EC ErP Directive (ERP)
- 94/9/EC Atex Directive
- 2006/95/EC Low Voltage Directive (LVD)
- 2004/108/EC Electromagnetic Compatibility (EMC)

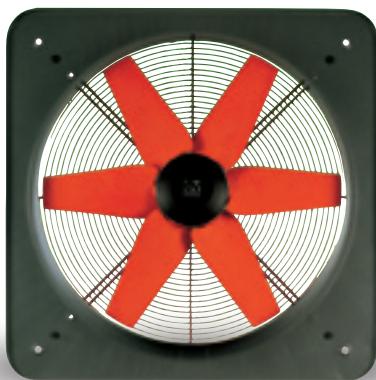
According to the following state-of-the-art standards:

- Safety:
EN 60204-1, EN ISO 12100-1, EN ISO 12100-2,
EN 12101-3 (only TR-ED; TR ED-V), EN ISO 12499, EN ISO 13857
- Electromagnetic Compatibility:
EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3
- Ecocompatible design of energy-related products:
EU regulation N° 327/2011;
EU regulation N° 305/2011 (EN 12101-3).



INDUSTRIAL VENTILATION





LONG LIFE 30.000 h

VORTICEL E RANGE

Low pressure plate axial fans

PRODUCT SPECIFICATIONS

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

- **7 models** 4 single-phase and 3 three-phase.
- Frames equipped with air intake with aerodynamic section, made using sheet steel protected with polyester paint.
- Class F ball bearing motors.
- Impellers with optimized blades profiles to reduce noise caused by turbulence, made of shock-proof polypropylene. All die-cast aluminium hubs.
- Protective grilles made of steel rings, black epoxy polyester painted, removable for maintenance and cleaning purpose.
- 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. (I)

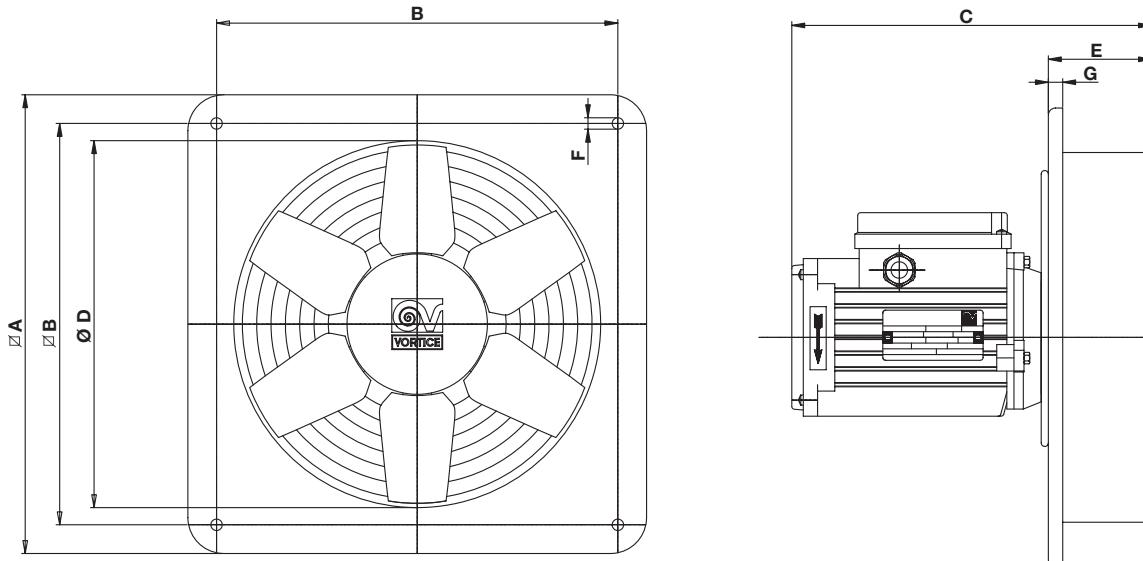
Fans used in VORTICEL E range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A) 3 m*	°C Max	Kg
								m³/h	l/s	mmH ₂ O	Pa			
SINGLE-FASE	E 252 M	40203	220 - 240	95 - 105	0.45 - 0.47	2	2800	1500	416.7	20	196	71	70	3.5
	E 254 M	40303		55 - 65	0.31 - 0.39			1000	277.8	6.7	66	50.5	60	3
	E 304 M	40503		55 - 70	0.33 - 0.40			1360	377.8	7.5	74	54	65	4
	E 354 M	40703		85 - 95	0.44 - 0.45			1850	514	4.6	45	66.5		
THREE-FASE	E 254 T	40356	220 - 380 240 - 415	55 70	0.35/0.20 0.40/0.23	4	1400	1000	277.8	7.3	71	53	55	3
	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		90 100	0.34/0.20 0.38/0.22			1900	528	7.1	70	61	60	4

* 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	\varnothing nom.	A	B	C	\varnothing D	E	\varnothing F	G
E 252	250	320	280	201	256	68		
E 254							8	10
E 304	315	380	330		308			
E 354	355	450	380	203	360	70		

Dimensions (mm)

PRODUCT ACCESSORIES

Models	Description	Code	Product
	IRM 30 - Three position single-phase speed controller	12921	40203 - 40303 - 40503 - 40703
	IRT 15 - Three position three-phase speed controller	12923	40356 - 40556 - 40756
	IREM 3 - Single-phase speed controller	12931	40203 - 40303 - 40503 - 40703
	IREM 5 - Single-phase speed controller*	12932	
	IREM 9 - Single-phase speed controller**	12933	
	DPU - Spacer for panel installation	250	40203 - 40303 - 40356
		300	40503 - 40556
		350	40703 - 40756

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

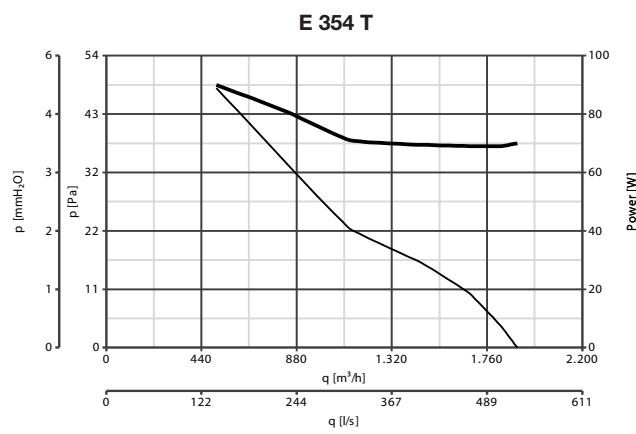
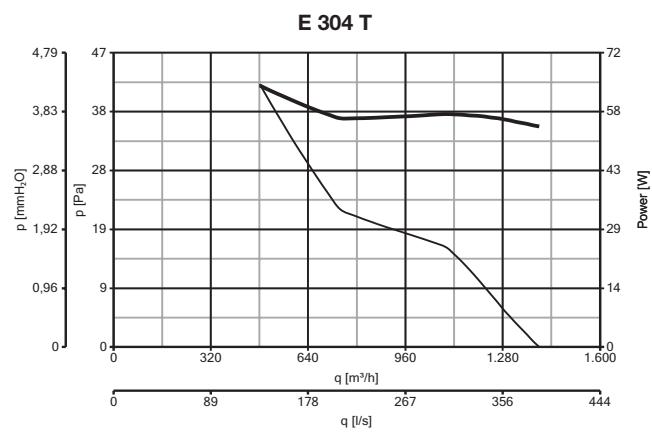
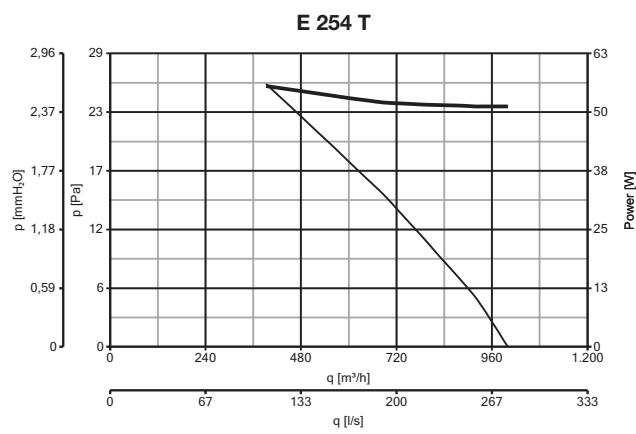
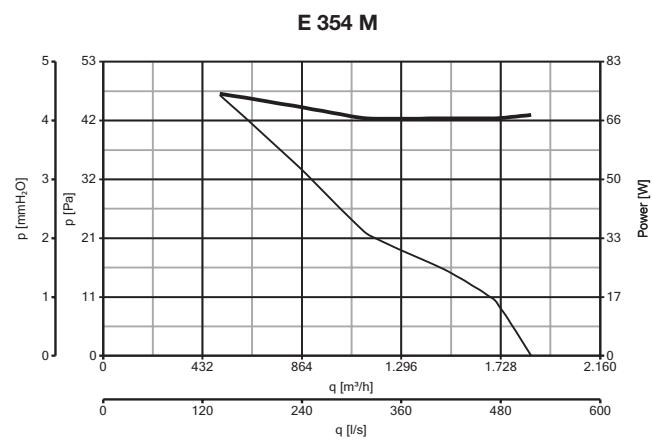
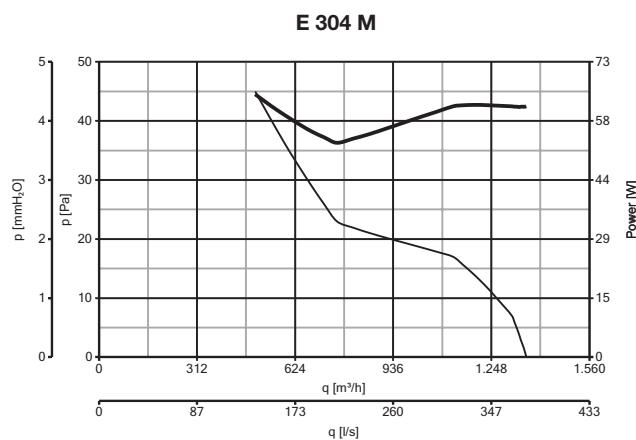
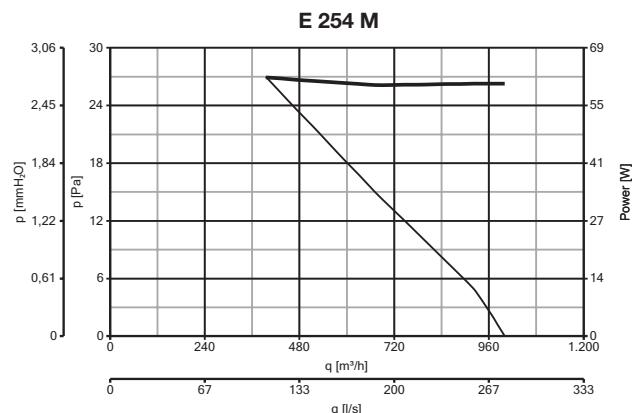
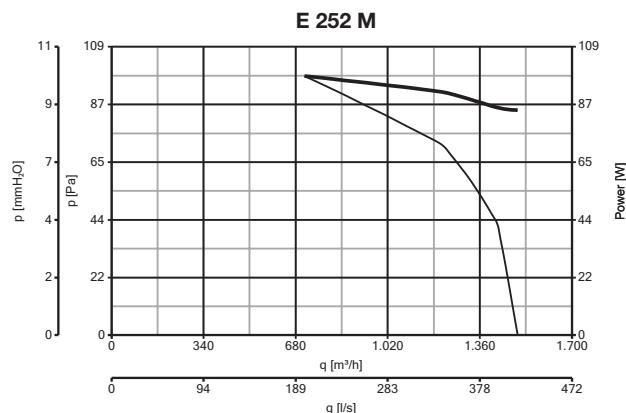
** Intended to simultaneously control appliances, up to a max of 9 A.

Description and sizes on page 162



INDUSTRIAL VENTILATION

PERFORMANCE CURVES



— Consumption — Delivery

NOTE



LONG LIFE 30.000 h



E ATEX RANGE

Low pressure plate axial fans

PRODUCT SPECIFICATIONS

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.

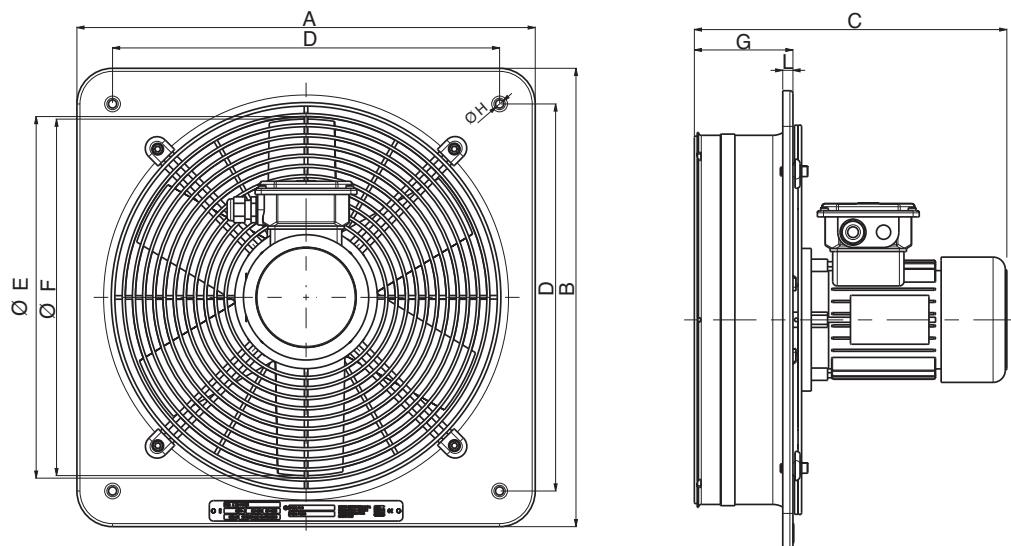
- **14 models.** 5 single phase, 9 three phase.
- 1 speed motors.
- Double-coated galvanised steel wire mesh over both outlet and inlet ports.
- Impeller with aluminium hub and plastic blades.
- In single phase models condenser is housed in explosion-proofcasing.
- Painting consisting of protective base 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: Cl. 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.**
- **IMQ 10 ATEX 029 X certified.**
- **GR II cat 2G/D b T4/135 X.**

Constructed in compliance with EN 14986 standards governing the design of fans operating in potentially explosive areas.

TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		L _p dB(A) a 3 m*	°C Max	Kg
SINGLE-FASE	E 254 M ATEX	40301	230	167	0.75	4	1400	1040	288.9	8.9	87.5	63.2	8.0	
	E 304 M ATEX	40302		175	0.77			1600	444.4	14	137.7	59.6		
	E 354 M ATEX	40304		204	0.97			2220	616.7	17.3	169.4	66		
	E 404 M ATEX	40306		294	1.27			3550	986.1	19.8	193.8	62		
	E 454 M ATEX	40308		346	1.50			4634	1287.2	19.1	187.6	70		
THREE-FASE	E 254 T ATEX	40309	400	121	0.49	4	1400	1050	291.7	9.6	94.2	59.6	40	7.0
	E 304 T ATEX	40310		162	0.53			1585	440.3	14.1	138.3	62		8.0
	E 354 T ATEX	40313		208	0.50			2550	708.3	18.4	180.5	66		8.8
	E 404 T ATEX	40314		268	0.61			3480	966.7	17.4	170.3	64.8		10.5
	E 454 T ATEX	40315		345	0.70			4443	1234.2	18.2	178.3	69.8		13.6
	E 504 T ATEX	40316		293	0.64			4900	1361.1	17.7	173.8	72.7		14.5
	E 506 T ATEX	40319		166	0.47	6	1000	3823	1061.9	10.1	99.2	64		18.0
	E 604 T ATEX	40317		374	0.71	4	1400	6900	1916.7	20.8	203.7	75.4		19.5
	E 606 T ATEX	40318		223	0.49	6	1000	5715	1587.5	12.2	119.4	65.5		

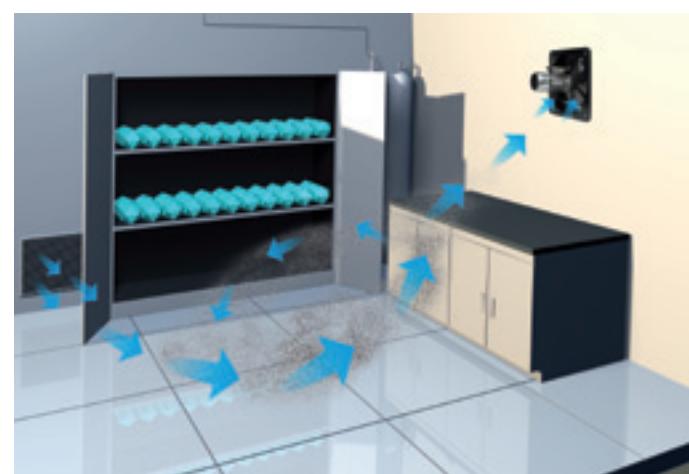
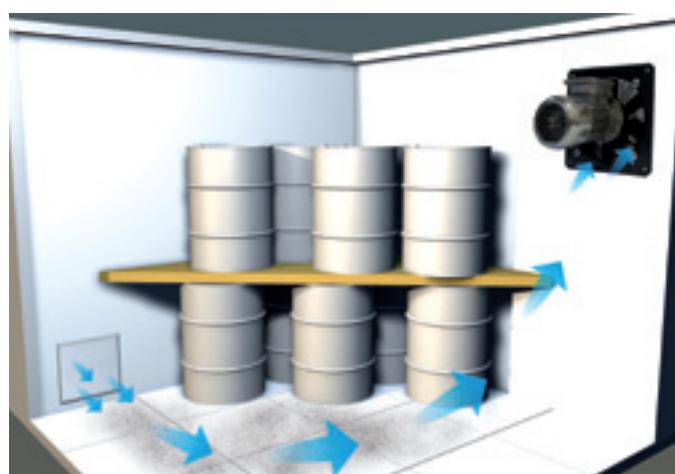
DIMENSIONS



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

Dimensions (mm)

APPLICATIONS

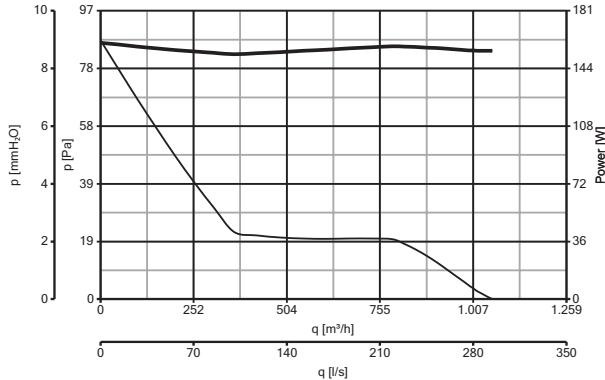




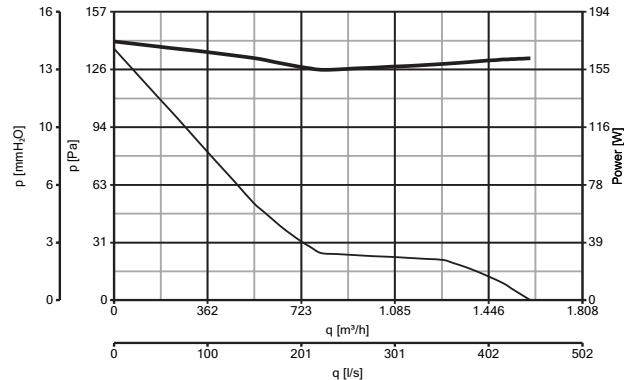
INDUSTRIAL VENTILATION

PERFORMANCE CURVES

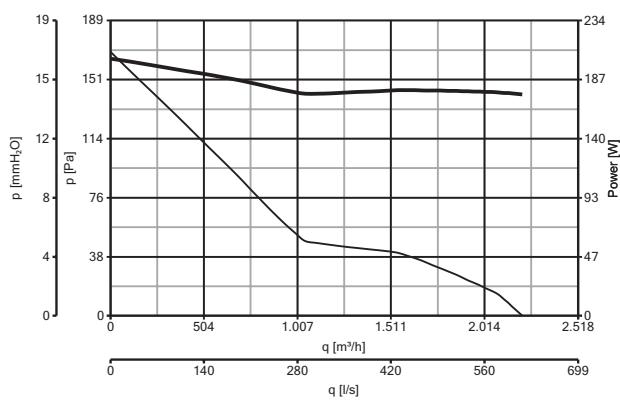
E 254 M ATEX



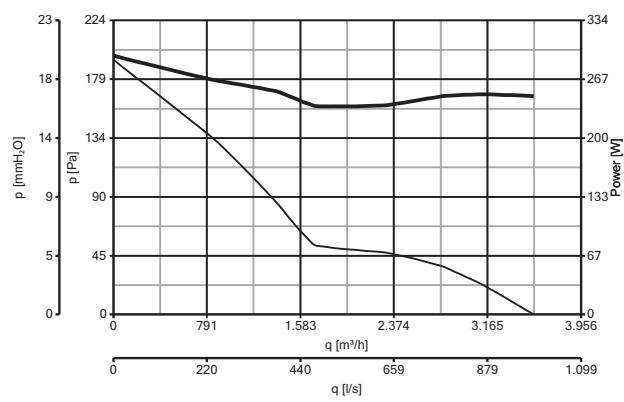
E 304 M ATEX



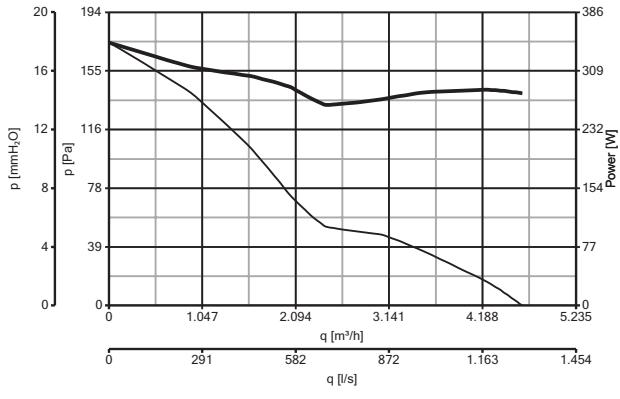
E 354 M ATEX



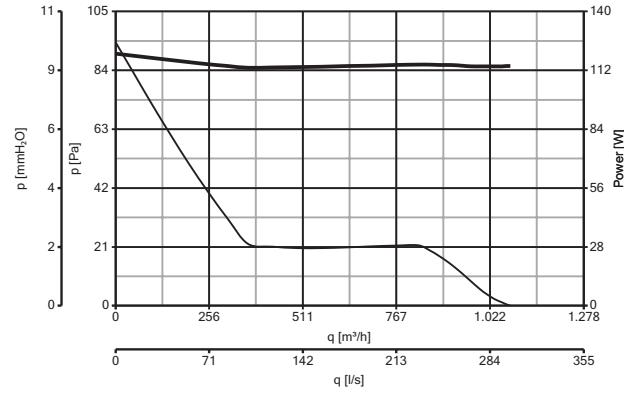
E 404 M ATEX



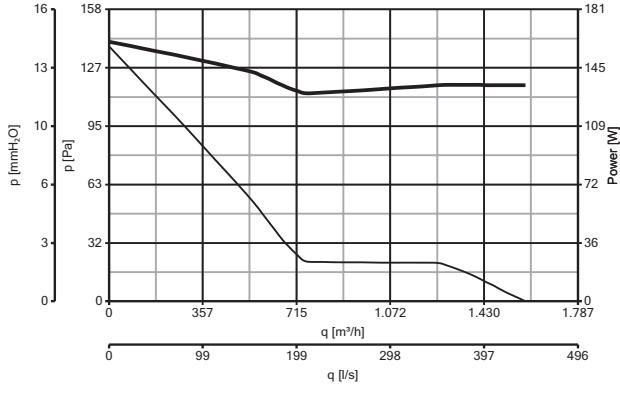
E 454 M ATEX



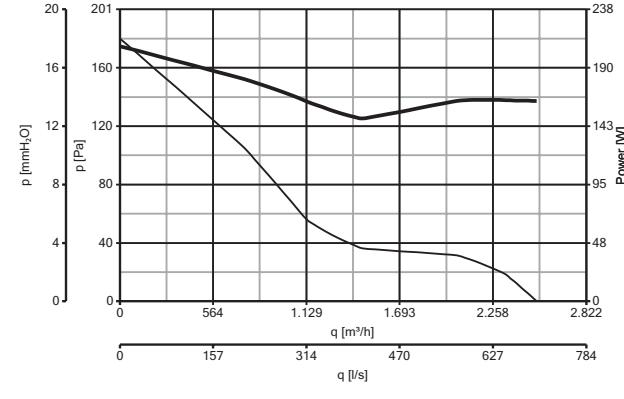
E 254 T ATEX



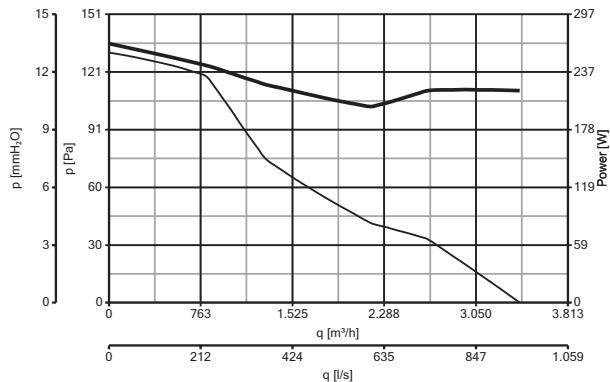
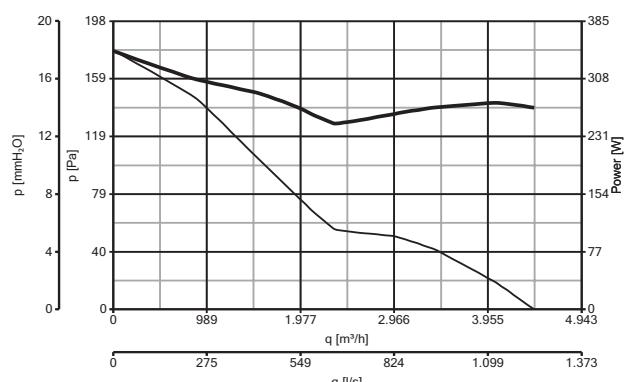
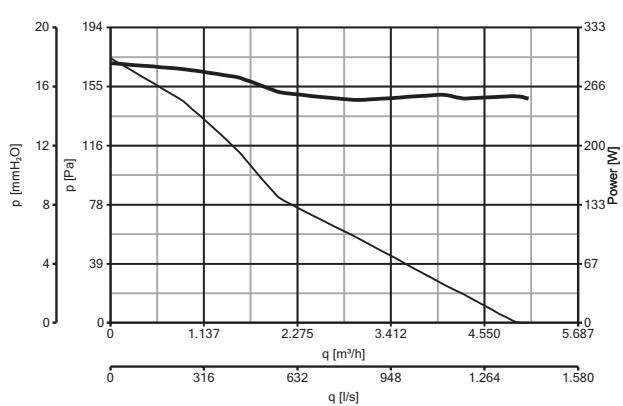
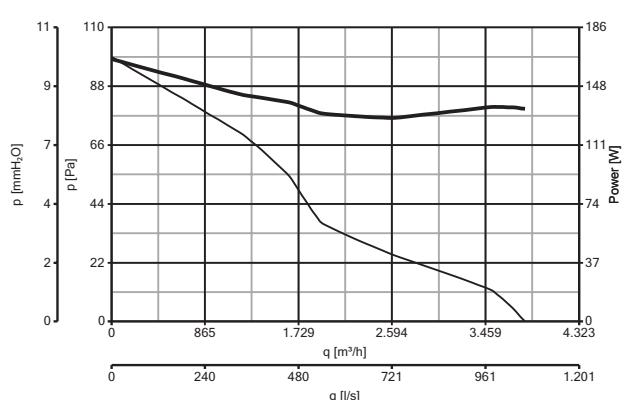
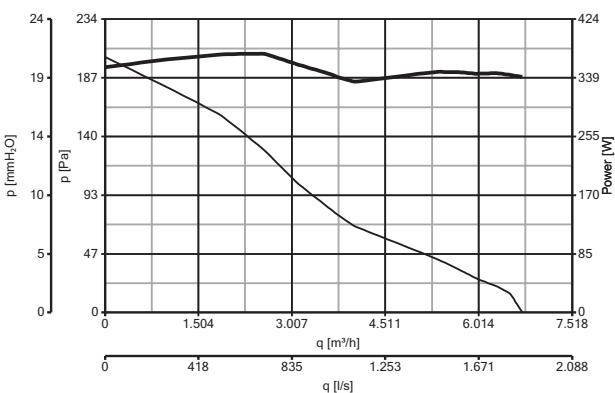
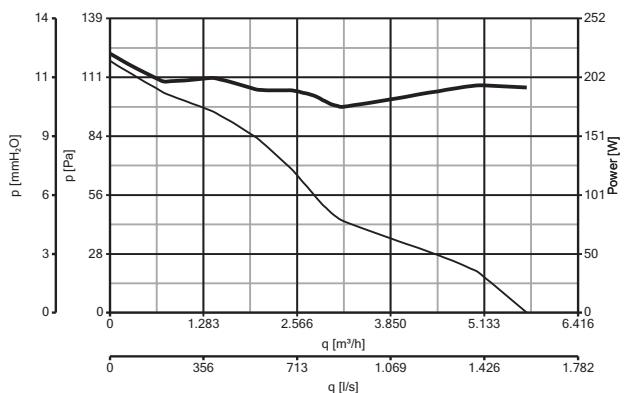
E 304 T ATEX



E 354 T ATEX



PERFORMANCE CURVES

E 404 T ATEX**E 454 T ATEX****E 504 T ATEX****E 506 T ATEX****E 604 T ATEX****E 606 T ATEX**

— Consumption

— Delivery



LONG LIFE 30.000 h

VORTICEL A-E RANGE

Compact plate axial fans

PRODUCT SPECIFICATIONS

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, class F, 1 speed, motors equipped with ball bearings.
- High aeraulic performance impellers with electro-galvanised sheet steel blades, painted with polyester paint.
- Low noise levels.
- Motor holders blade acting 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.

Fans used in VORTCEL A-E range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lw dB(A)	Lp dB(A)* 1 - 3 m	°C Max	Kg
A-E 252 M	42207	230	95	0.41	4	1400	1365	379	18.0	177	73.5	62.5 - 53.0	2.1	
A-E 254 M	42208		38	0.17			764	212	6.0	61	59.0	48.0 - 38.5		
A-E 304 M	42216		81	0.35			1563	434	13.0	130	63.5	52.5 - 43.0		
A-E 354 M	42258		170	0.75			2960	822	10.2	100	70.0	59.0 - 49.5		
A-E 404 M	42260		300	1.33			4310	1197	15.5	152	76.1	65.1 - 55.6		
A-E 454 M	42307		230	1.13			5250	1458	12.9	127	75.3	64.3 - 54.8		
A-E 504 M	42316		482	2.12			6639	1844	19.0	186	79.5	68.5 - 59.0		
A-E 506 M	42337		290	1.27	6	1000	4805	1335	15.5	152	77.7	66.7 - 57.2	50	
A-E 566 M	42356		350	1.60			6715	1865	13.7	134				
A-E 254 T	42357	400	50	0.22	4	1400	785	218	13.5	134	59.5	48.5 - 39.0	2.5	
A-E 304 T	42227		79				1696	471	13.0	129	66.5	55.5 - 46.0	3.4	
A-E 354 T	42259		166				2980	828	11.7	115	69.2	58.2 - 48.7	6.2	
A-E 404 T	42261		318				3832	1064	25.0	246	73.5	53.0 - 62.5	6.3	
A-E 454 T	42308		370				1350	5187	1440	155	78.5	67.5 - 58.0	6.5	
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		250	0.79	6	1000	5040	1400	9.8	96	73.2	62.2 - 52.7	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		480	1.06	6	1000	8050	2236	17.8	175	77.2	66.2 - 56.7	20.8	
A-E 636 T	42347		522	1.10			9502	2639	15.7	154	78.5	67.5 - 58.0	50	
													15.8	

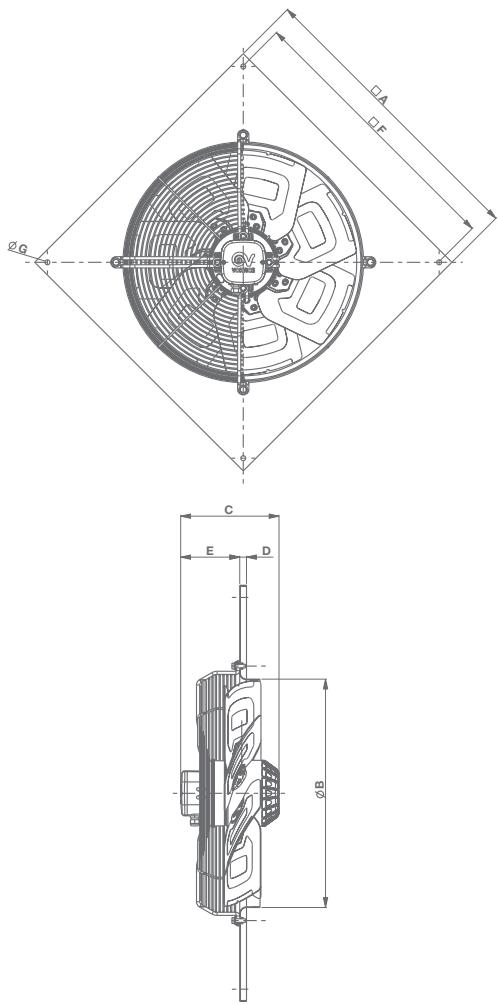
* Sound pressure level measured at 1-3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

ERP DATA | DIRECTIVE N° 327/2011/UE (LOTTO 11, 1ST TIER)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	(kW) Pe	(m³/h) q	BEP* p Pa	RPM	Spec. ratio <1.04	
SINGLE-FASE	A-E 354 M	42258	A	STATIC	2015	NO	29.0	41.0	0.1405	1975	74.1	1333	YES	
	A-E 404 M	42260					32.1	42.0	0.2282	3121	84.6	1375		
	A-E 454 M	42307					31.6	41.5	0.2749	3501	89.4	1309		
	A-E 504 M	42316			2013		32.2	41.0	0.3972	4749	101	1285		
	A-E 506 M	42337			2015		29.9	40.0	0.2293	3681	67.1	924		
	A-E 566 M	42356					32.7	42.0	0.2816	4468	74.3	891		
	A-E 354 T	42259					29.5	41.0	0.1415	2107	71.2	1332		
	A-E 404 T	42261			2013		29.2	40.0	0.2078	2376	96	1428		
	A-E 454 T	42308			2015		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					29.5	40.0	0.2162	3408	68.3	957		
	A-E 564 T	42336			2013		36.6	44.0	0.7527	6528	159	1349		
	A-E 566 T	42366			2015		31.7	41.0	0.3749	5249	81.4	936		
	A-E 636 T	42347					33.8	43.0	0.410	6309	82	923		

* Best efficiency point.

DIMENSIONS



Models	Nr. pale	A	B	C	D	E	F	G	
A-E 252 M	5	320	264	149	10	82	280	8	
A-E 254 M									
A-E 254 T									
A-E 304 M		380	316	151		84	330		
A-E 304 T		450	361	155	12	85	380	9	
A-E 354 M			366						
A-E 354 T	4	510	406	200	15	105	430	12	
A-E 404 M				207		67			
A-E 404 T		455		206	15	104	530		
A-E 454 M				207		67			
A-E 454 T		630	507	218	16	72	11		
A-E 504 M				198		52			
A-E 504 T		508		218	16	134	675		
A-E 506 M				198		114			
A-E 506 T	4	725	563	248	16	161	675		
A-E 564 T				218		131			
A-E 566 M		218		248	16	161	675		
A-E 566 T				218		131			
A-E 636 T	4	805	638			68	750		

Dimensions (mm)



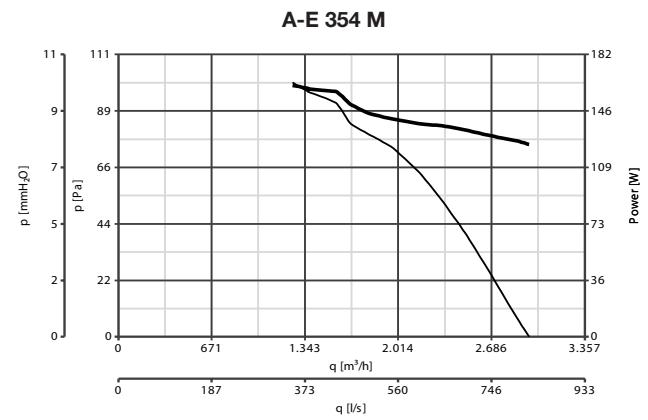
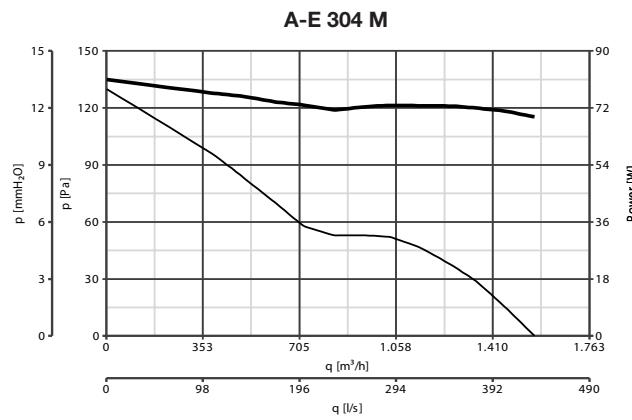
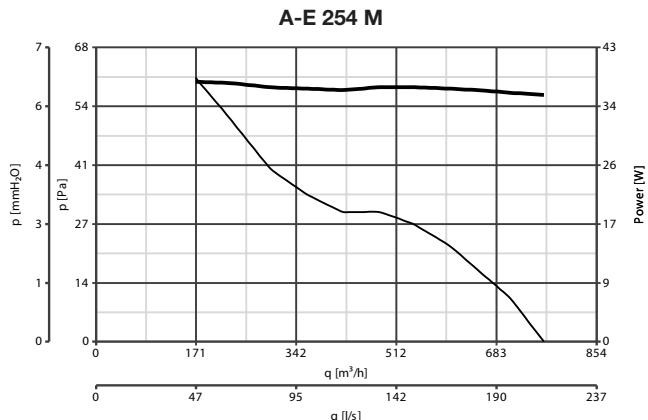
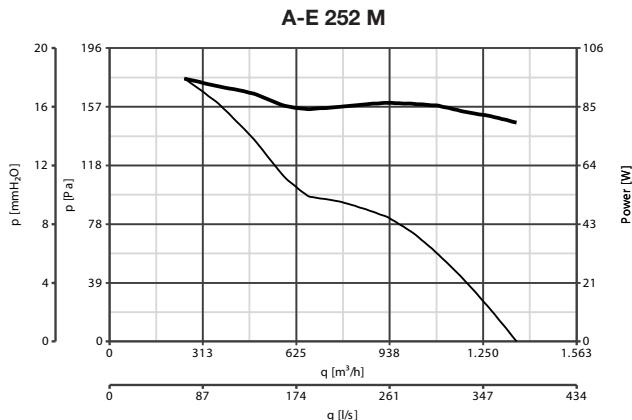
INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

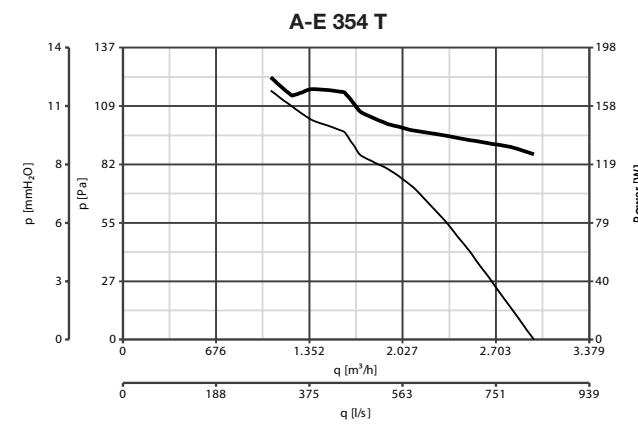
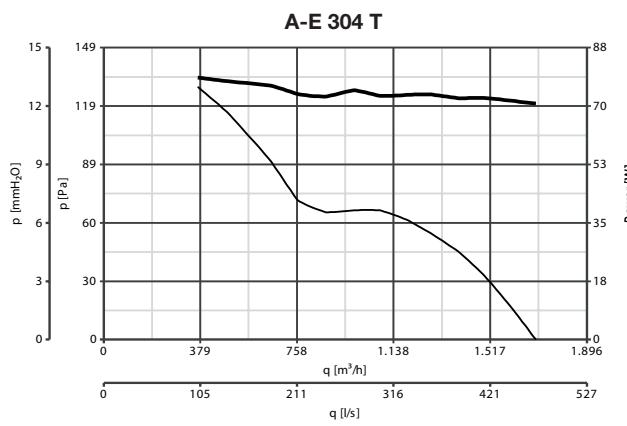
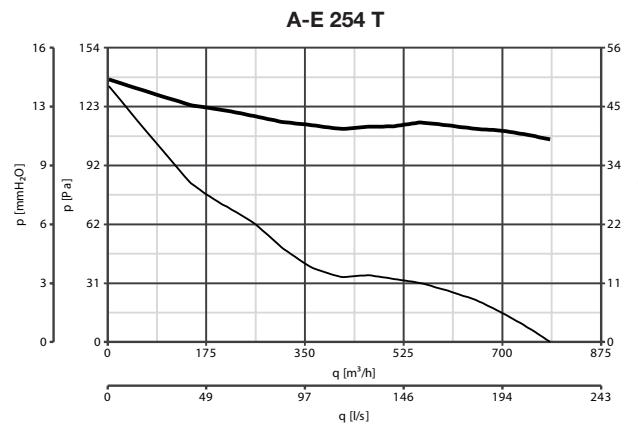
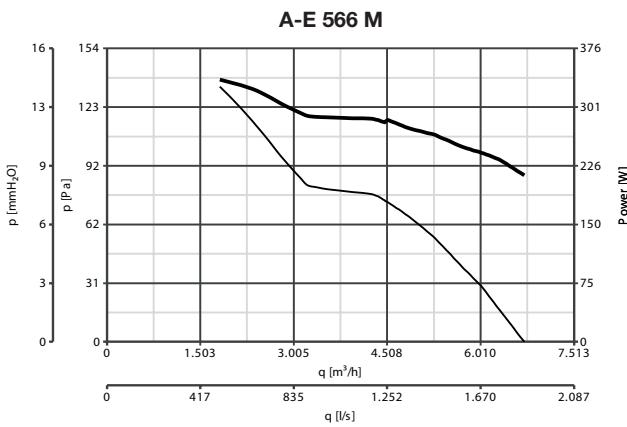
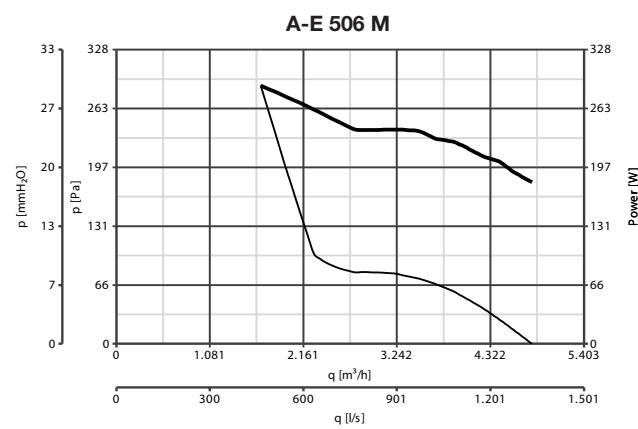
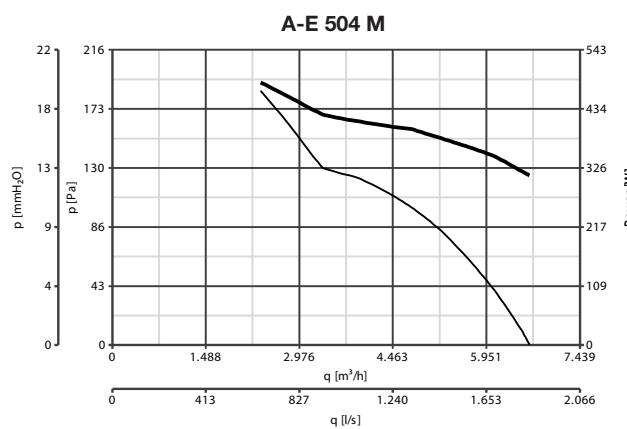
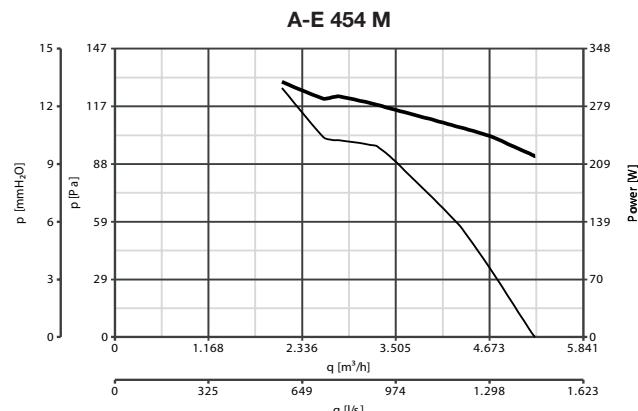
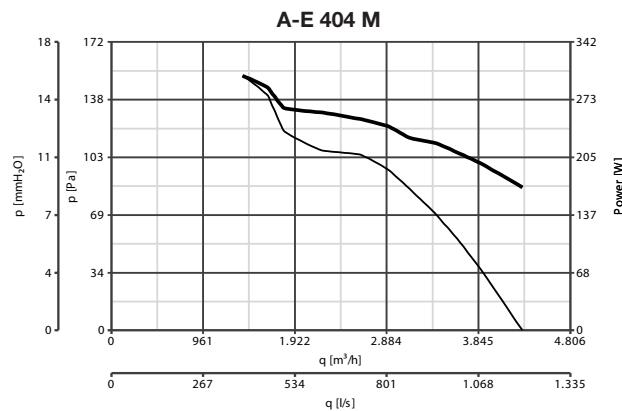
Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	42258 - 42260 - 42337 - 42356	
	IRT 15 - Three position three-phase speed controller	12923	42227 - 42259 - 42261 - 42346 - 42657	
	IRT 35 - Three-phase variable voltage drive	12924	42261 - 42308 - 42327 - 42336 - 42346 - 42347 - 42366	
	IREM 3 - Single-phase speed controller	12931	42207 - 42208 - 42216 - 42258 - 42260 - 42616 - 42337 - 42356	
	C 1.5 - Electronic speed controller	12966	42207 - 42208 - 42216 - 42258	
	DPU - Spacer for panel installation	250	52151	42207 - 42208 - 42357
		300	52251	42216 - 42227
		350	52351	42258 - 42259

Description and sizes on page 162

PERFORMANCE CURVES

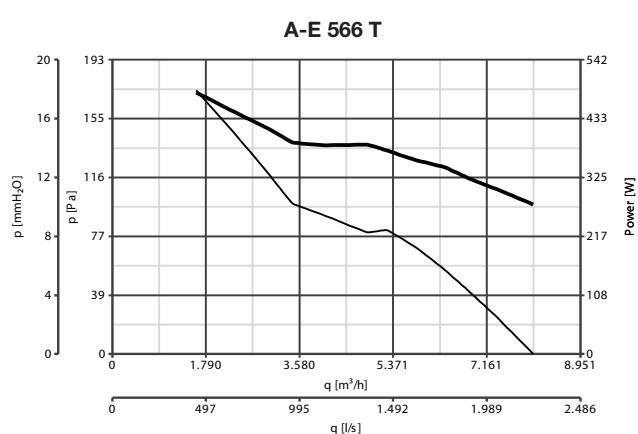
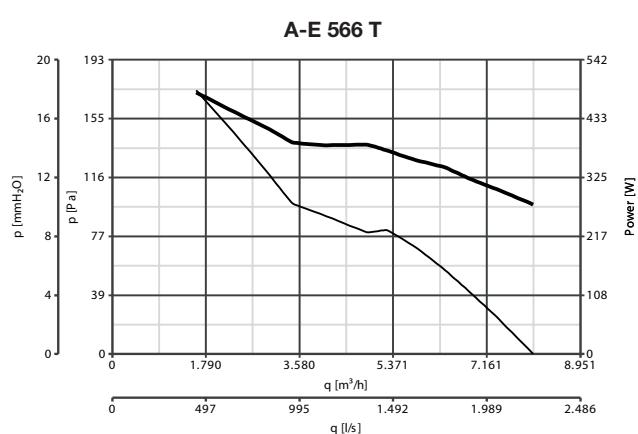
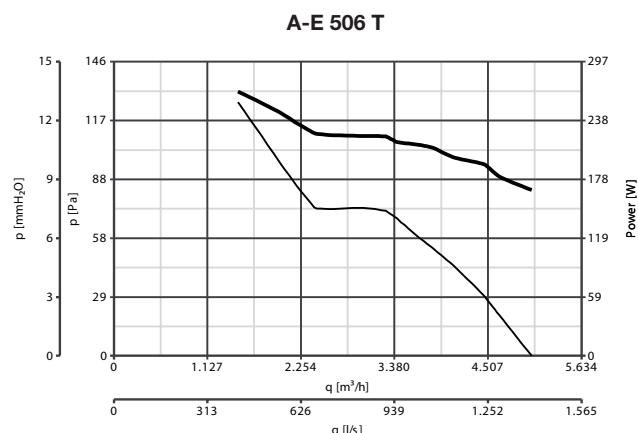
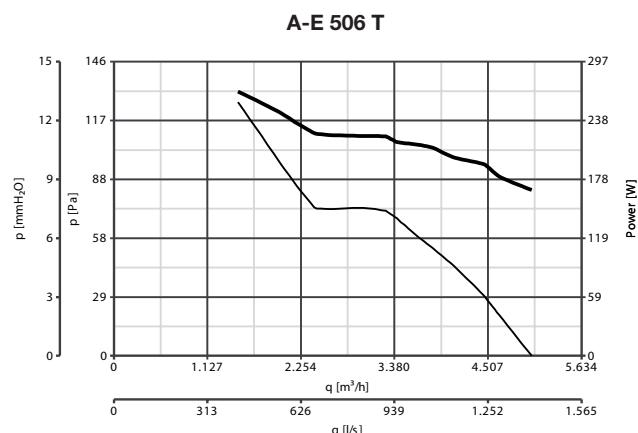
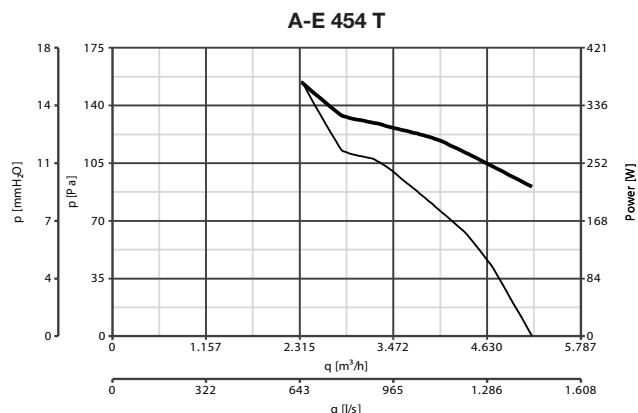
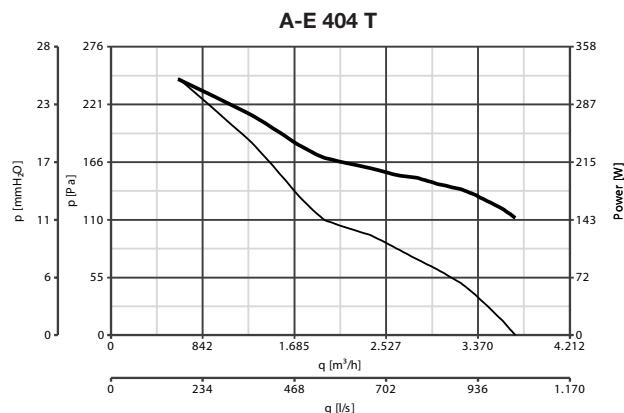


PERFORMANCE CURVES

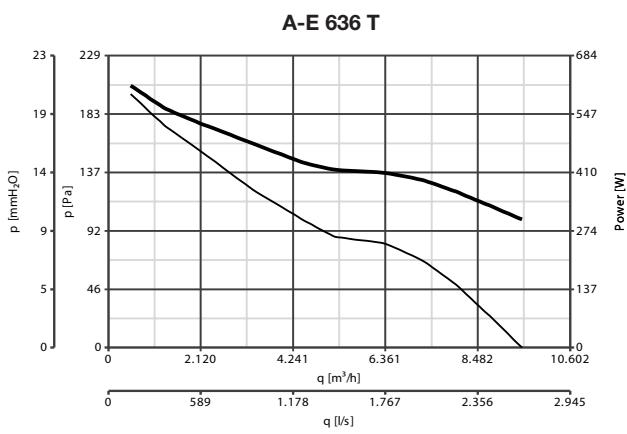




PERFORMANCE CURVES



— Consumption — Delivery



NOTE



LONG LIFE 30.000 h

VORTICEL MPC-E RANGE

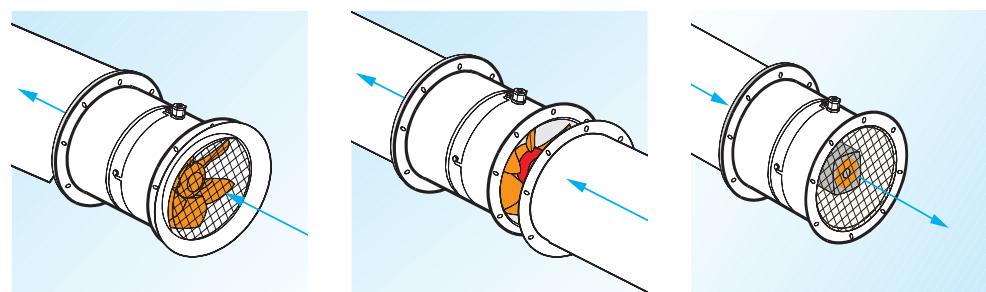
Medium-pressure long cased axial fans

PRODUCT SPECIFICATIONS

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.
- Structures consisting of two flanged parts, held together by screws, allowing connection to standardised pipes.
- Single-phase and three-phase class F, ball bearings motors complete with highly efficient impellers.
- Steel motor support protected by black epoxy polyester paint.
- 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.

Fans used in VORTICEL MPC-E range comply with ErP Lot. 6 Reg. N° 327/2011/UE.



TECHNICAL DATA

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

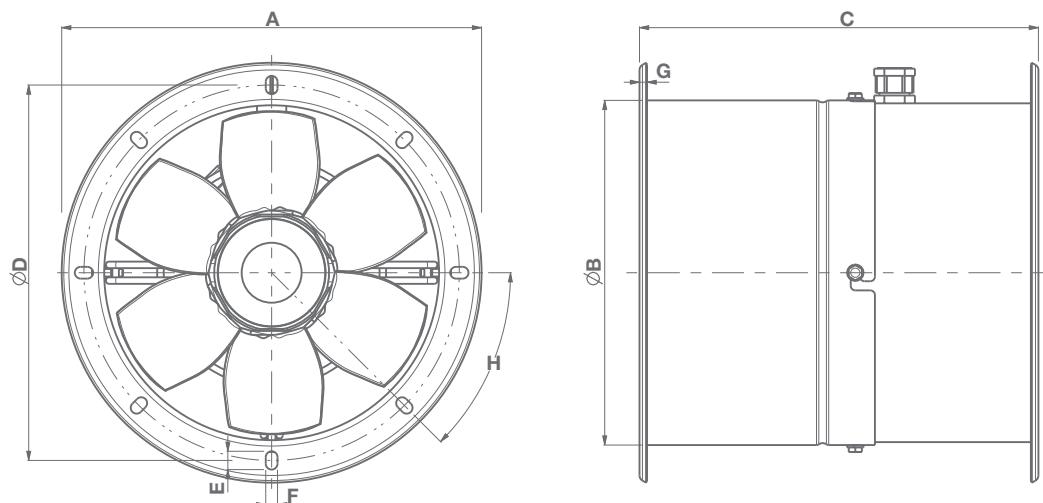
* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

ERP DATA | DIRECTIVE N° 327/2011/UE (LOTTO 11, 1ST TIER)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	(kW) Pe	(m³/h) q	BEP* p Pa	RPM	Spec. ratio <1.04
SINGLE-FASE	MPC-E 302 M	42209	C	STATIC	2015	NO	31.2	40.4	0.35	2080	186	2930	YES
	MPC-E 354 M	42217					29.9	41.5	0.15	2086	76	1450	
	MPC-E 404 M	42228					30.5	40.4	0.27	3711	80	1435	
	MPC-E 302 T	42309					31.0	40.2	0.34	2072	179	2920	
	MPC-E 354 T	42317					29.4	40.8	0.15	2565	64	1415	
	MPC-E 404 T	42328					30.5	41.0	0.24	2886	78	1373	

* Best efficiency point.

DIMENSIONS



Models	\varnothing A	\varnothing B	C	\varnothing D	E	F	G	H
MPC-E 254	319	264	300	292				
MPC-E 302								
MPC-E 304	393	316		366				
MPC-E 354	432	368	330	405	14	9	4	45°
MPC-E 404	475	418		448				

Dimensions (mm)



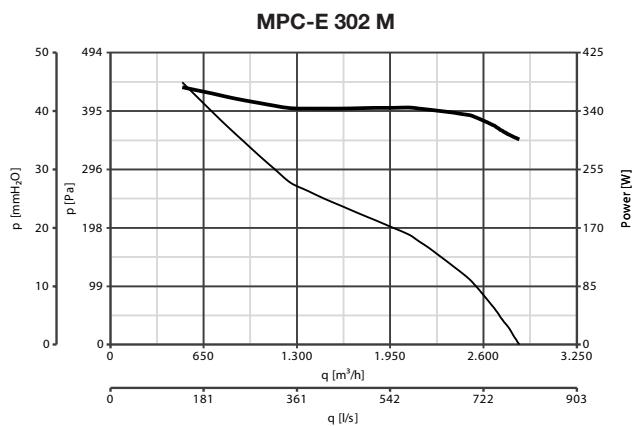
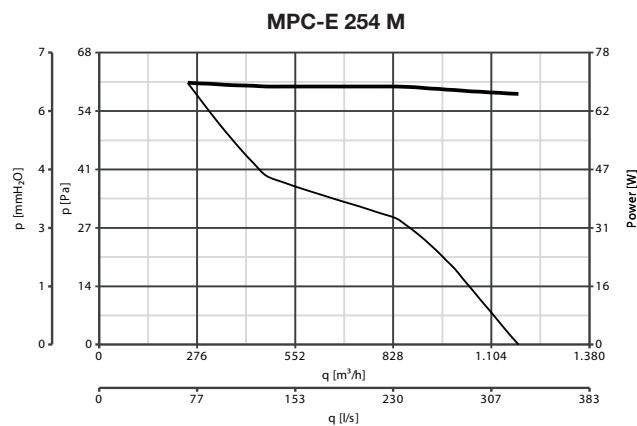
INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

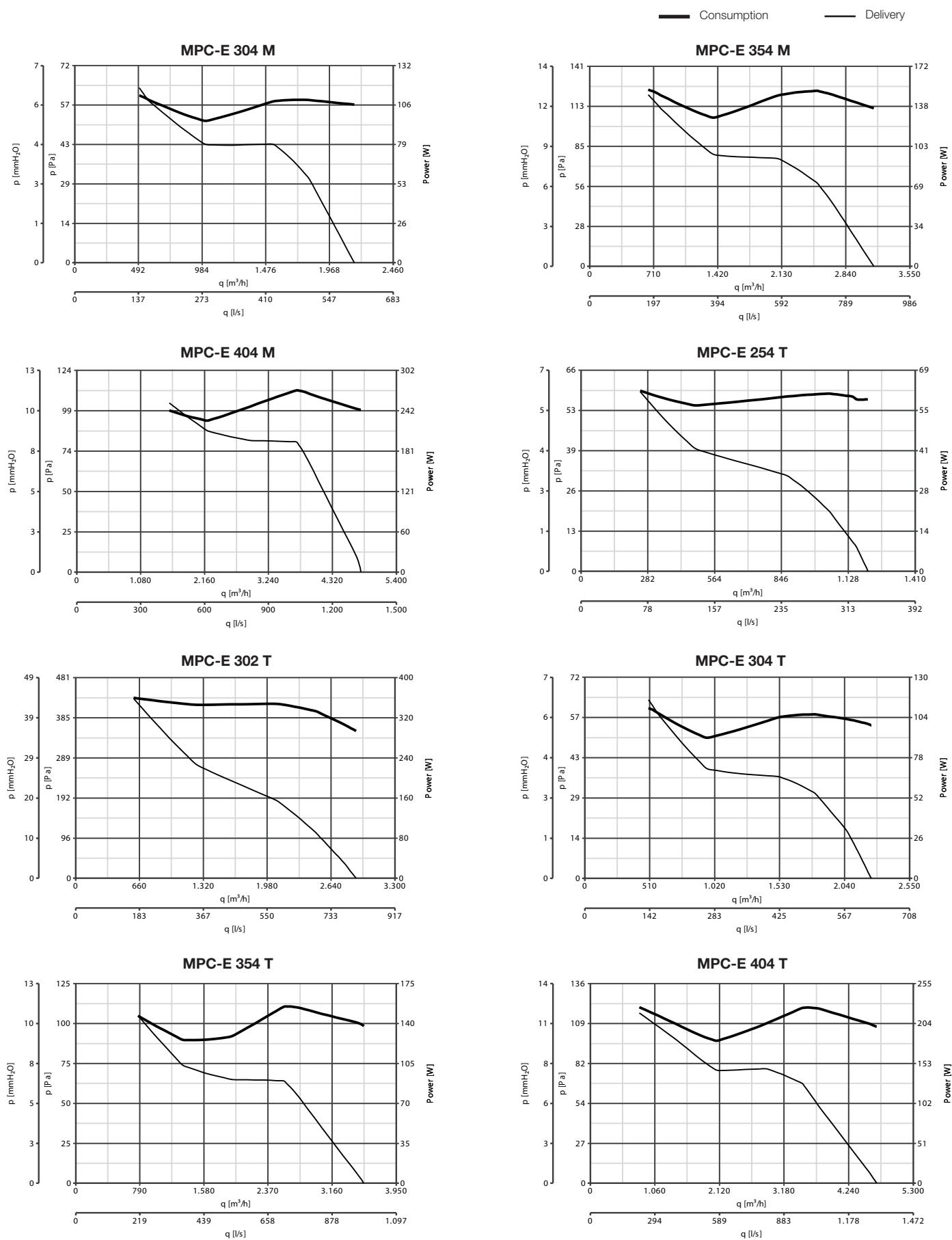
Models	Description	Code	Product
	IRM 30 - Three-position single-phase speed controller	12921	42263 - 42210
	IRM 40 - Three-position single-phase speed controller	12922	42209 - 42217 - 42228
	IRT 15 - Three-position single-phase speed controller	12923	42359 - 42310 - 42317 - 42328
	IREM 3 - Single-phase speed controller	12931	42263 - 42210 - 42217 - 42228
	IRET 6 - Three-phase speed controller	12934	42359 - 42309 - 42310 - 42317 - 42328
	MPC BO - Suction connector	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC RA - Flexible connector	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC SU - Mounting feet	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC FL - Coupling flange	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328
	MPC RP - Protection grille	250	42263 - 42359
		300	42209 - 42210 - 42309 - 42310
		350	42217 - 42317
		400	42228 - 42328

Description and sizes on page 162

PERFORMANCE CURVES



PERFORMANCE CURVES





VORTICENT C E RANGE

Centrifugal fans

PRODUCT SPECIFICATIONS

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

- **21 models**, including 9 single phase and 12 three phase.
- Sheet steel scroll with epoxy resin powder coated finish, and fixing holes configured to allow alignment of the motor in 8 different positions relative to the outlet port.
- Class F asynchronous motors, with shafts mounted on ball bearings.
- High efficiency forward blade centrifugal impellers made of zinc-coated steel; easy removal of fan for maintenance and cleaning purposes, even when permanently installed.
- Continuous operating temperature between -25 °C and +50 °C.
- Protection rating: IP55.
- Insulation class: I.

Fans used in VORTICENT C E range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	°C Max	Kg
								m³/h	l/s	mmH ₂ O	Pa			
SINGLE-FASE	C 10/2 M	30302	230	100	0.45	2	2800	300	83.3	25.0	245	55.5*	50	2.7
	C 15/2 M	30902		160	0.70			450	125	45.0	441	59*		5.0
	C 20/2 M E	30321		350	0.91			810	225	51.1	501	66**		6.0
	C 25/2 M E	30323		390	1.15			955	265	59.5	584	66.5**		6.8
	C 30/2 M E	30325		740	3.20			1420	394.4	84.0	824	71**		8.4
	C 30/4 M E	30327		132	0.582	4	1400	700	194	19.8	194	55**	50	9.0
	C 35/4 M E	30330		310	1.37			1270	353	33.1	325	61**		11.0
	C 37/4 M E	30332		600	2.70			2100	583	43.0	422	70**		20.5
	C 40/4 M E	30334		870	3.80			2700	750	51.0	500	73**		21.0
	C 10/2 T	30351	230/400	130	0.50/0.30	2	2800	270	75	25.0	245	55.5*	50	4.6
	C 15/2 T	30951		160	0.60/0.35			430	119.4	43.0	422	59*		3.3
THREE-FASE	C 20/2 T E	30322	400	330	0.54			800	222	52.7	517	66**	50	5.8
	C 25/2 T E	30324		390	0.63			970	269	58.0	569	66.5**		6.3
	C 30/2 T E	30326		720	1.50			1350	375	85.0	834	71**		8.1
	C 30/4 T E	30328		110	0.19	4	1400	655	182	13.2	176	55**	50	9.5
	C 31/4 T E	30329		175	0.28			825	229	28.7	281	61**		9.3
	C 35/4 T E	30331		350	0.70			1550	430.6	34.0	334	70**		20.5
	C 37/4 T E	30333		530	0.90			1900	528	44.5	436	73**		21.5
	C 40/4 T E	30335		780	1.25			2460	683	49.1	482	70.5**		23.3
	C 45/4 T E	30336		1900	4.35			4500	1250	74.0	726	76.5**	30	61.0
	C 46/4 T E	30337		3400	5.50			6650	1847	83.0	814	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.

** 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.

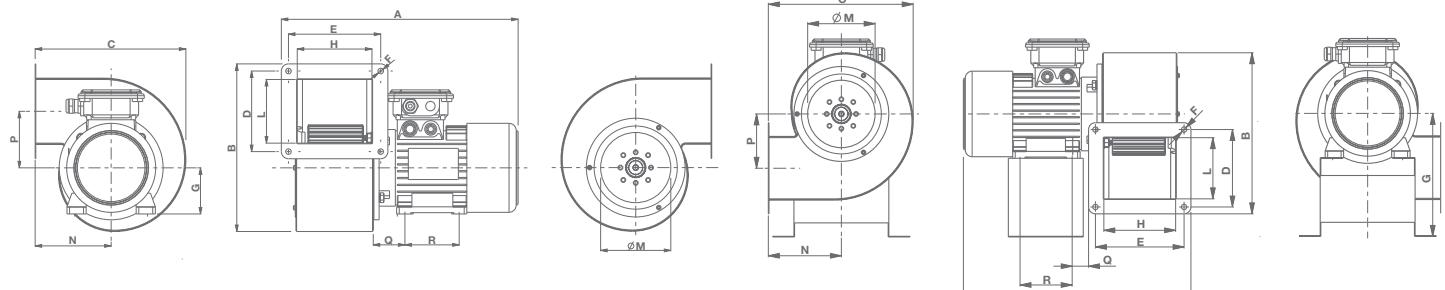
ERP DATA | DIRECTIVE N° 327/2011/UE (LOTTO 11, 1ST TIER)

	Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	(kW) Pe	(m³/h) q	p Pa	RPM	Spec. ratio <1.04	
SINGLE-FASE	C 20/2 M E	30321	B	TOTAL	2015	NO	38.2	49.0	0.196	522	506	2840	YES	
	C 25/2 M E	30323					38.9	49.0	0.257	697	509	2845		
	C 30/2 M E	30325					41.6	50.0	0.465	876	584	2892		
	C 35/4 M E	30330			2013		38.7	50.0	0.191	847	313	1400		
	C 37/4 M E	30332					39.8	49.0	0.415	1445	412	1462		
	C 40/4 M E	30334					40.5	49.0	0.474	1535	450	1442		
	C 20/2 T E	30322			2015		40.3	51.0	0.182	522	505	2877		
	C 25/2 T E	30324					38.1	49.0	0.179	511	481	2915		
	C 30/2 T E	30326					43.2	51.8	0.434	866	779.5	2914		
THREE-FASE	C 35/4 T E	30331			2013		41.1	51.5	0.230	1021	222	1443		
	C 37/4 T E	30333					37.8	49.0	0.298	1051	385	1458		
	C 40/4 T E	30335			2015		39.8	49.0	0.429	1480	415	1402		
	C 45/4 T E	30336					49.7	56.3	0.913	2399	681.5	1472		
	C 46/4 T E	30337					45.0	49.0	2.054	4103	811	1432		

* Best efficiency point.

DIMENSIONS

C 10 ÷ C 45



Models	A	B	C	D	E	F	G	H	L	Ø M	N	P	Q	R											
C 10/2 M-T*	260	186	171	72	82	6.5	56	68	63	80	81	66.5	36	71											
C 15/2 M-T*	281	234	206	108	100	7		83	88	102	99	79													
C 20/2 E M-T*	350	258	232	123	123	71					117	87	45	90											
C 25/2 E M*	369			124	142																				
C 25/2 E T*	358			126	137																				
C 30/2 E M-T*	366	308	272	126	137																				
C 30/4 E M-T*	352																								
C 31/4 E T**	357	400	340	164	139	8.5				102	98	117	87	45											
C 35/4 E M**	390																								
C 35/4 E T**	387																								
C 37/4 E M-T**	437	471	416.5	220	182	80	137	170	152	144	45	90	50												
C 40/4 E M-T**	468	472	418	214	208																				
C 45/4 E T**	549	557.2	484.5	228	228	9	90	200	200	240	222	217	56	125											

Dimensions (mm)

* Equipment supplied with scroll oriented counterclockwise (CCW) when seen from the opposite side of air intake LG 90°.

** Equipment supplied with scroll oriented counterclockwise (CCW) when seen from the opposite side of air intake LG 270°.

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

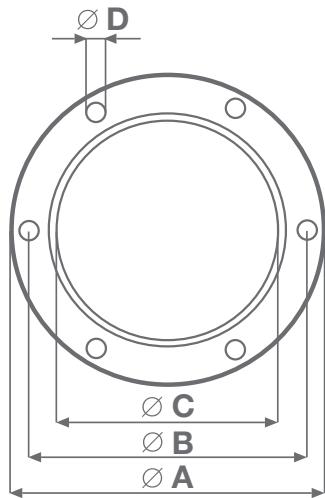
Dimensions (mm)



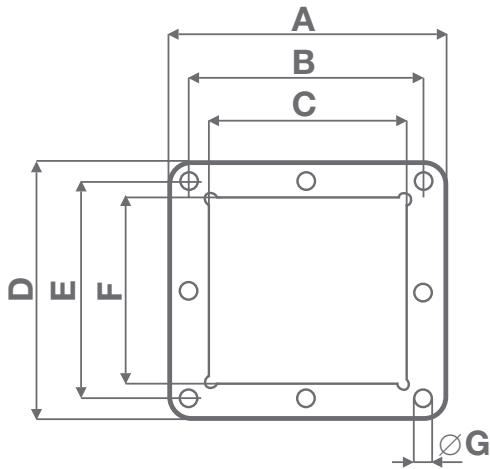
INDUSTRIAL VENTILATION

PERFORMANCE CURVES

Air intake



Delivery outlet



Models	$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	n° holes
C 10	111.5	100	80		
C 15	141	128			
C 20			108		
C 25	152	132			
C 30	190	170	132		
C 31					
C 35	240	220	170		
C 37					
C 40	282	262	199		
C 45	320	300	236	8.5	
C 46	420	395	288	12	

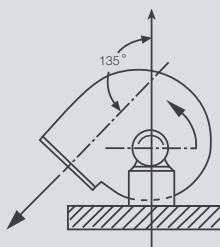
Dimensions (mm)

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

Dimensions (mm)

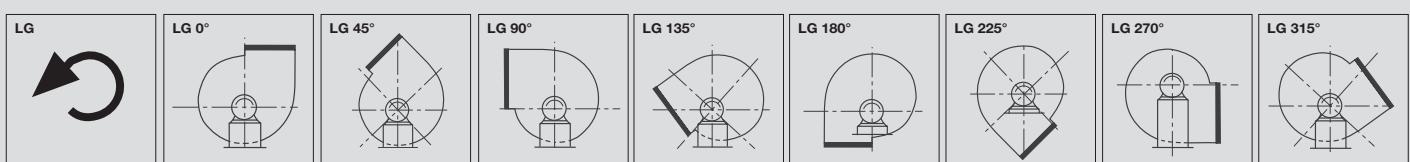
Orientation

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.

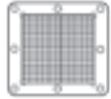


Designation of delivery outlet position for radial fans.

Adjacent example: LG 135



PERFORMANCE CURVES

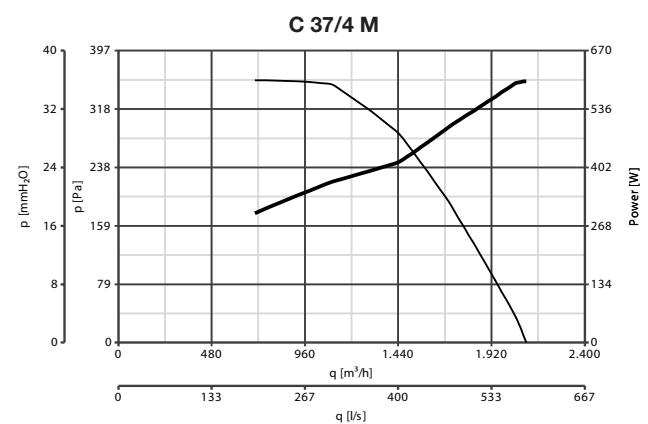
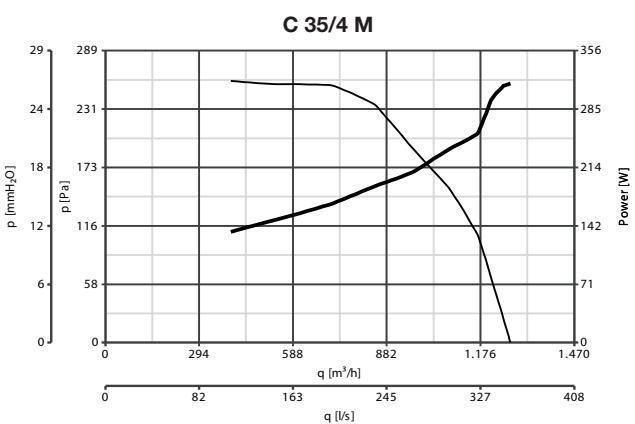
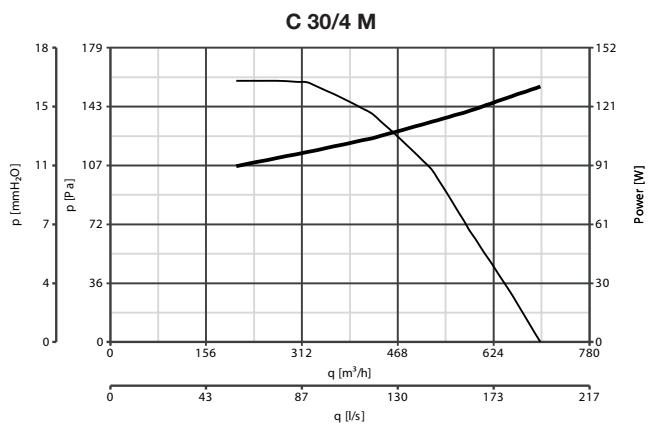
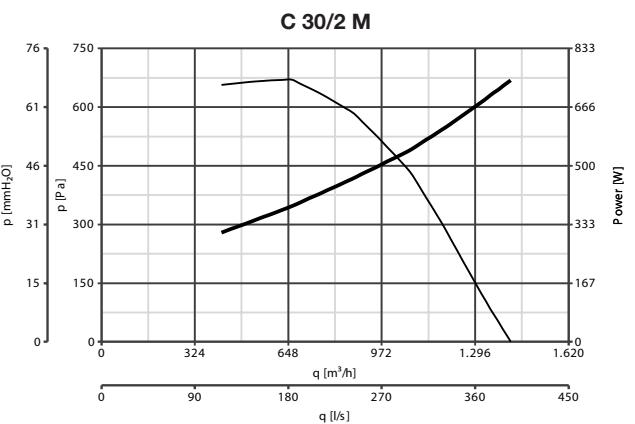
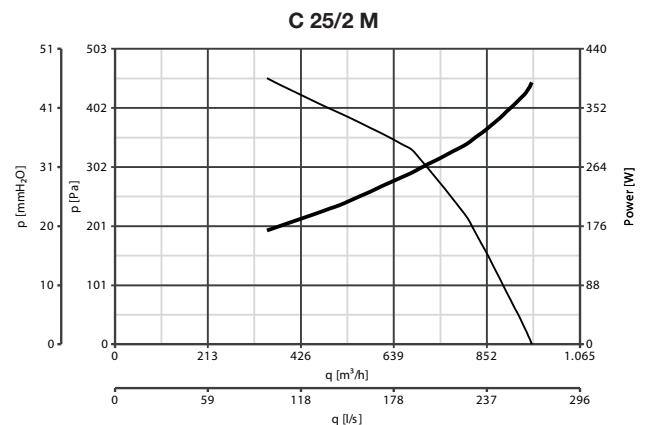
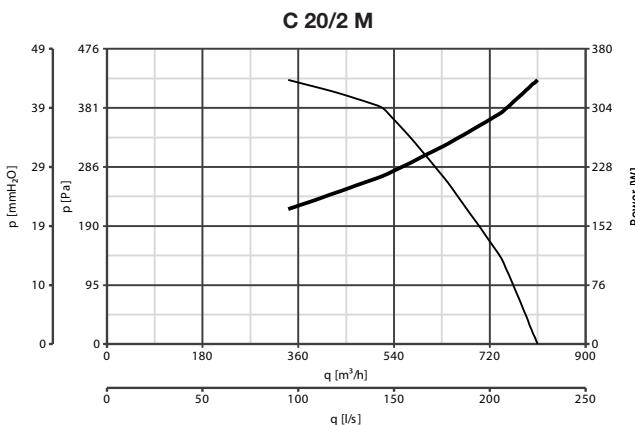
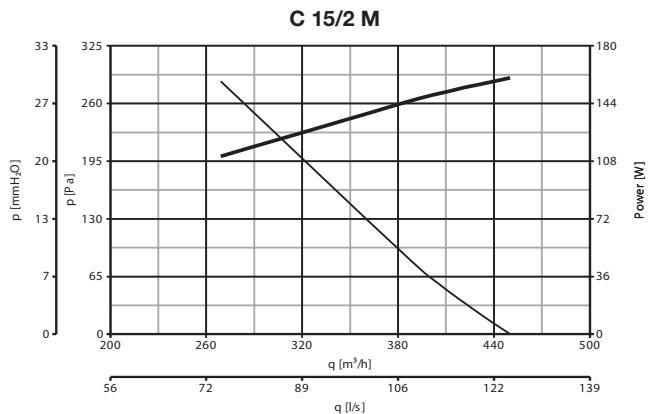
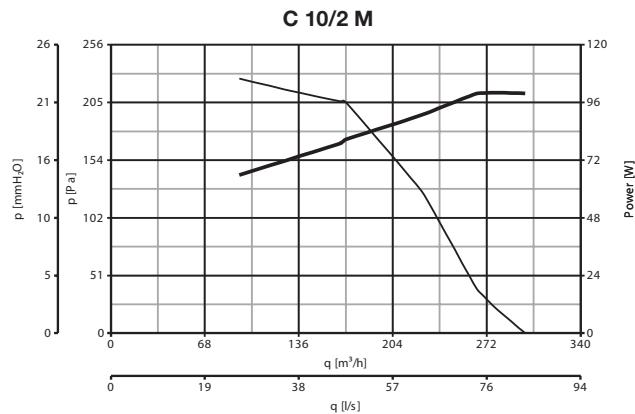
Models	Description	Code	Product
	C RA - Raccordo flangiato aspirazione	10	22825 30302 - 30351
		15	22826 30902 - 30951
		20/25	22828 30321 - 30322 - 30323 - 30324
		30	22829 30325 - 30326 - 30327 - 30328
		31/35	22830 30329 - 30330 - 30331
		37	22832 30332
		40	22833 30334
		45	22834 30336
		46	22835 30337
	C MS - Supporto motore	20/25	22836 30321 - 30322 - 30323 - 30324
		30	22837 30325 - 30326 - 30327 - 30328
		31/35	22838 30329 - 30330 - 30331
		37/40	22839 30332 - 30334
		45	22840 30336
	C GM - Griglia protezione mandata	10	22811 30302 - 30351
		15	22812 30902 - 30951
		20	22813 30321 - 30322
		25	22814 30323 - 30324
		30	22816 30325 - 30326 - 30327 - 30328
		31	22817 30329
		35	22818 30330 - 30331
		37	22819 30332
		40	22820 30334
		45	22821 30336
		46	22822 30337
		10	22801 30302 - 30351
	C GA - Griglia protezione aspirazione	15	22802 30902 - 30951
		20/25	22803 30321 - 30322 - 30323 - 30324
		30	22804 30325 - 30326 - 30327 - 30328
		31/35	22805 30329 - 30330 - 30331
		37/40	22806 30332 - 30334
		45	22807 30336
		46	22808 30337

Description and sizes on page 162

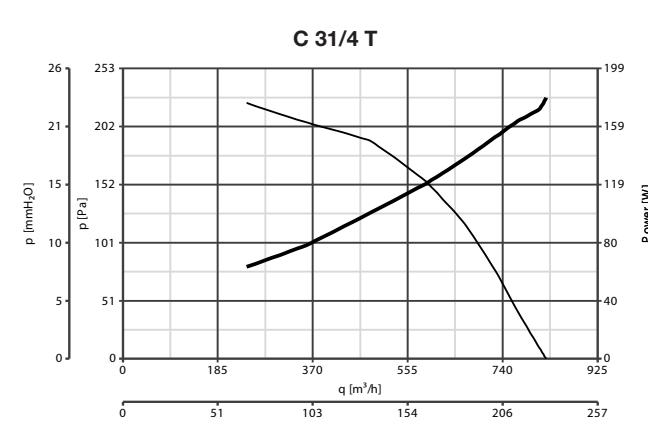
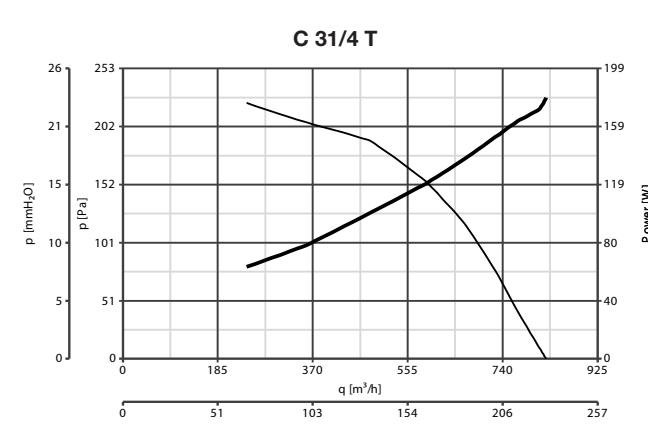
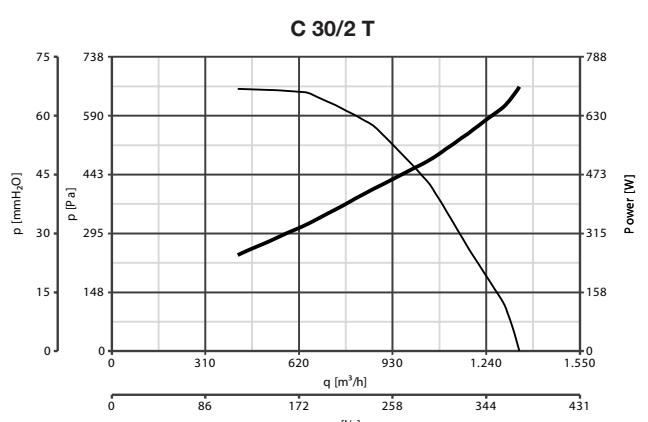
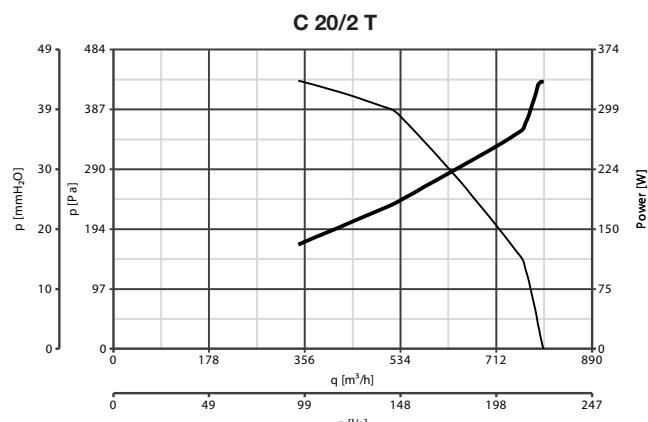
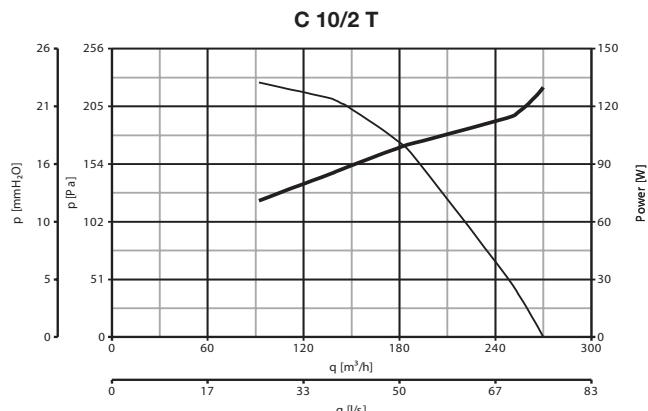
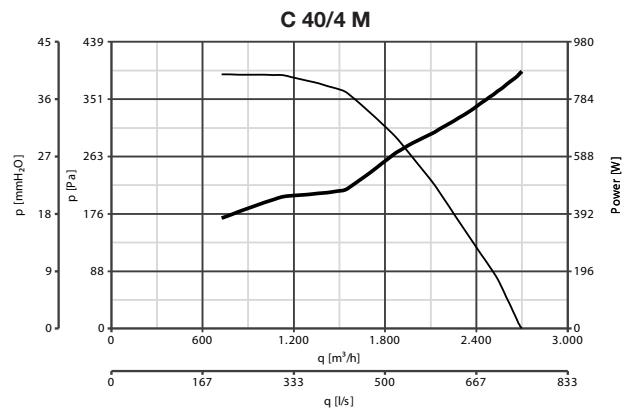


INDUSTRIAL VENTILATION

PERFORMANCE CURVES

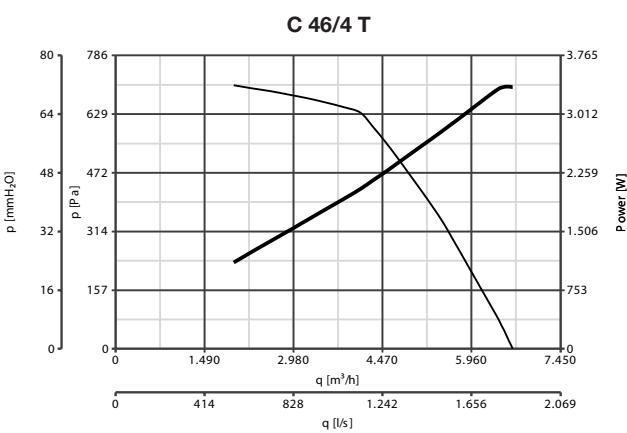
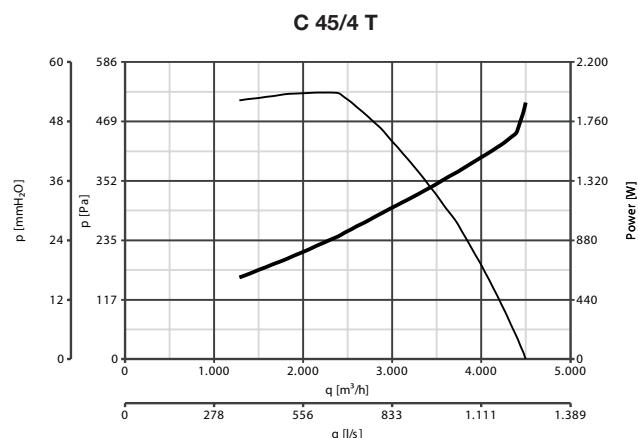
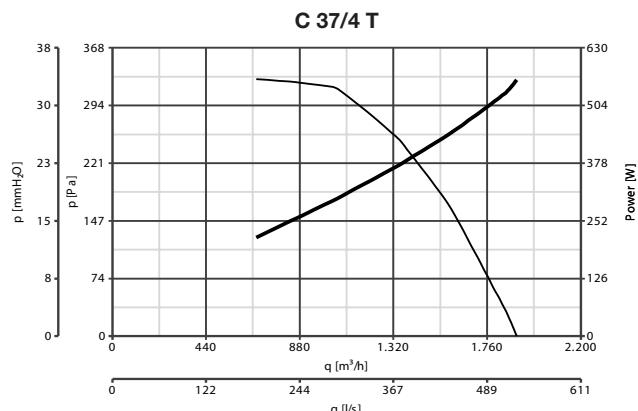
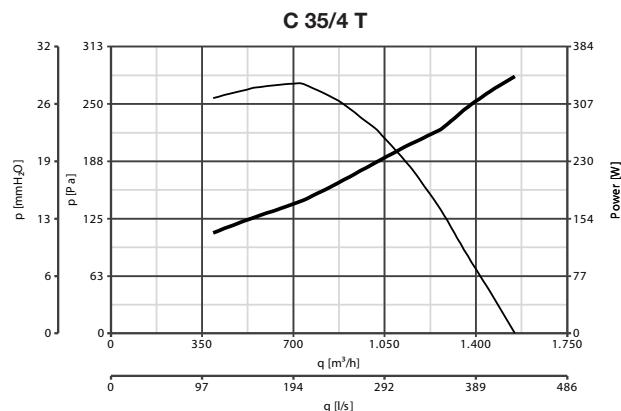


PERFORMANCE CURVES





PERFORMANCE CURVES



— Consumption — Delivery

NOTE



C ATEX RANGE

Centrifugal fans for installation in potentially explosive areas

PRODUCT SPECIFICATIONS

Suitable for installation in environments (home, commercial and industrial) where potentially explosive atmospheres can be expected, such as battery charging bays, or industrial process areas.



LONG LIFE 30.000 h



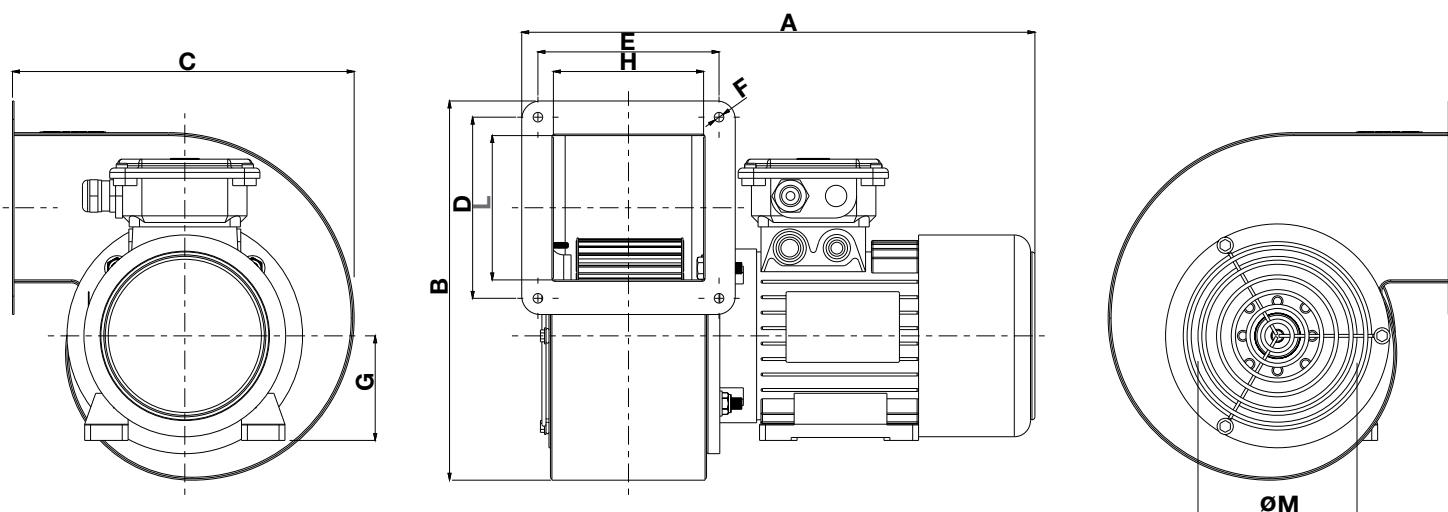
- **9 models** three-phase.
- One speed.
- Double-coated sheet-steel frames with spiral housings.
- Brushed copper nozzles.
- Double-coated galvanised steel wire mesh over the inlet port.
- Aluminium centrifugal impeller with front blades and die-cast aluminium hub.
- Painting consisting of protective 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.**
- **IMQ 10 ATEX 029 X certified.**
- **GR II cat 2G/D b T4/135 X.**

Constructed in compliance with EN 14986 standards governing the design of fans operating in potentially explosive areas.

TECHNICAL DATA

THREE-PHASE	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		L _p dB(A)* 3 m	°C Max	Kg
								m ³ /h	l/s	mmH ₂ O	Pa			
400	C 10/2 T ATEX	30301		120	0.36	2	2800	280	77.8	26	255	55.5	40	4
	C 15/2 T ATEX	30304		175	0.39			430	119.4	44	430	59		4.5
	C 20/2 T ATEX	30305		472	1.09			1000	277.8	56	549	66		8.5
	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		10
	C 30/4 T ATEX	30308		226	0.95	4	1400	700	194.4	18	177	55	61	7.5
	C 31/4 T ATEX	30309		375	1.01			1120	311.1	31	304			10.5
	C 35/4 T ATEX	30310		401	1.02			1500	416.7	34	334			11.5
	C 37/4 T ATEX	30311		803	1.80			2150	597.2	48	470	70		17

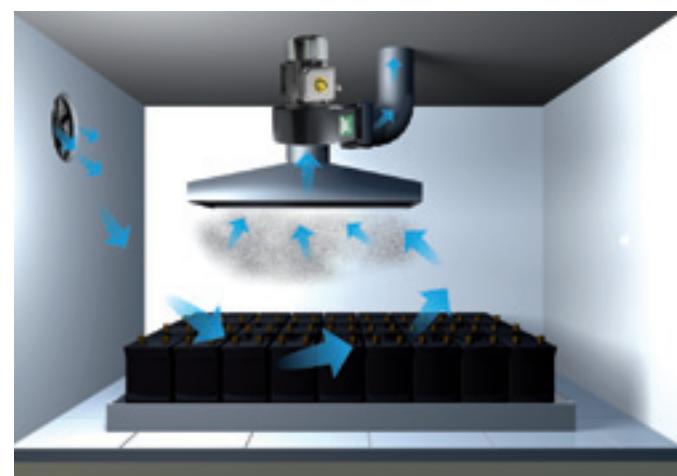
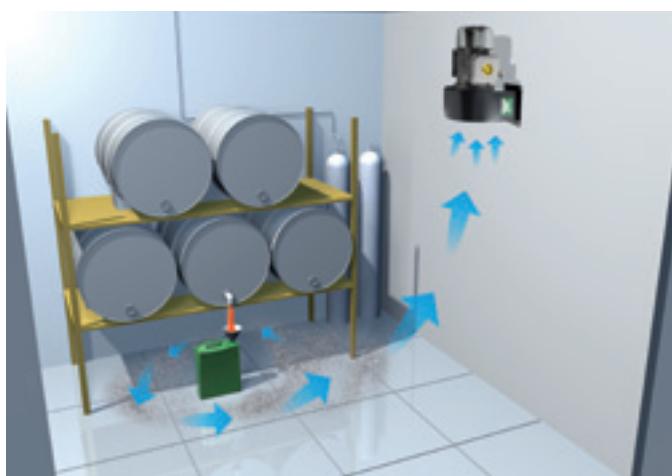
DIMENSIONS



Models	A	B	C	D	E	F	G	H	L	Ø M	
C 10/2 T ATEX	260	186	171	72	82	6.5	56	68	63	80	
C 15/2 T ATEX	280	234	206	108	100	7	56	83	88	108	
C 20/2 T ATEX	350	258	232	123	123	8.50	71	102	98		
C 25/2 T ATEX	365			124	142			115			
C 30/2 T ATEX	365	308	272	126	137	8.50	71	117	108	132	
C 30/4 T ATEX								112	137	170	
C 31/4 T ATEX	365	400	340	164	139	8.50	80	149			
C 35/4 T ATEX	400				174			187	199		
C 37/4 T ATEX	425	471	416.5	220	182						

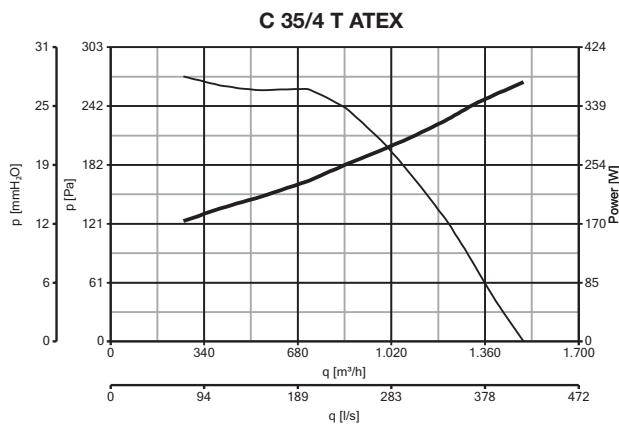
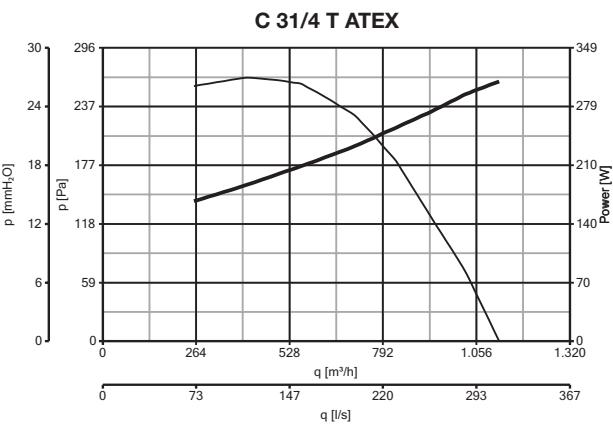
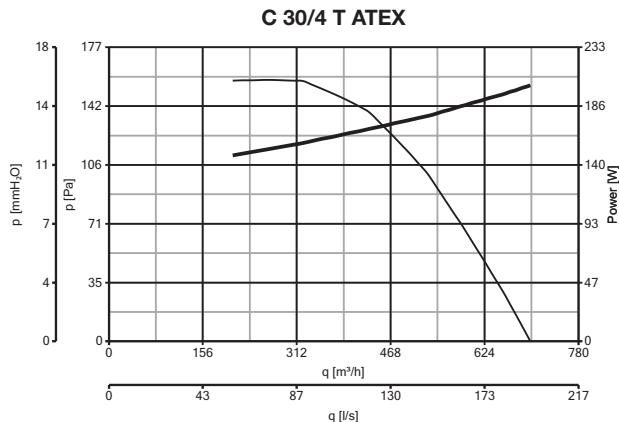
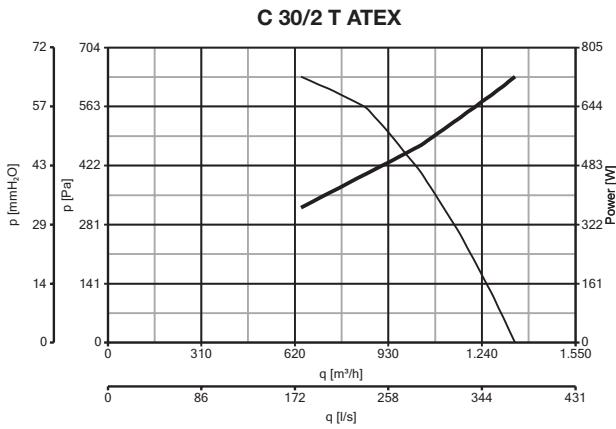
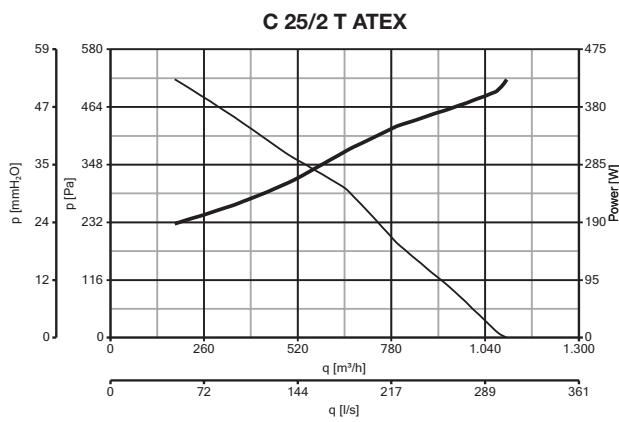
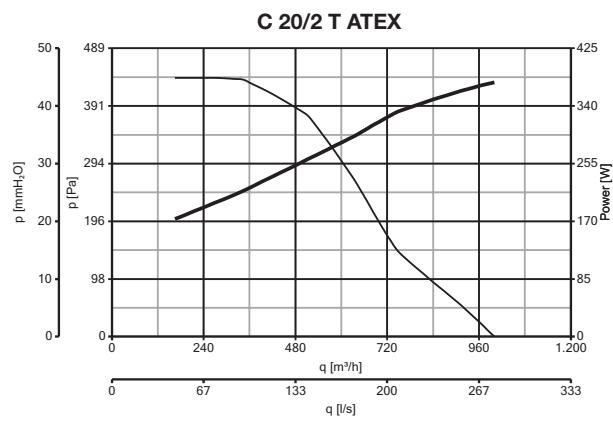
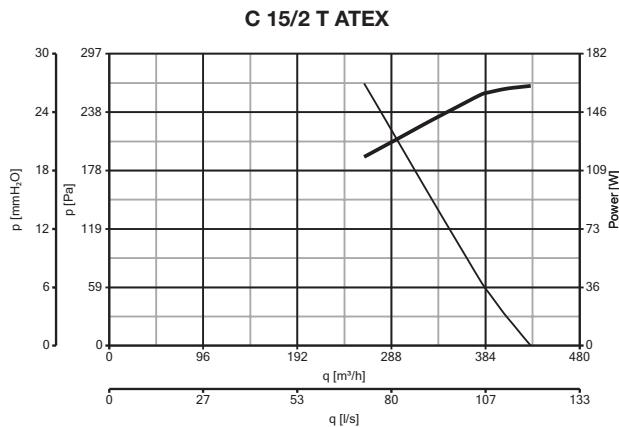
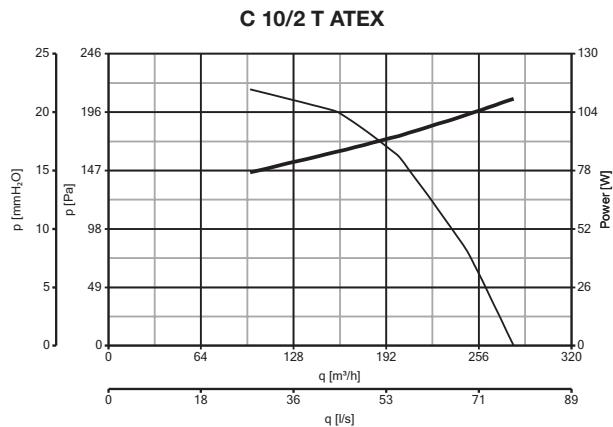
Dimensions (mm)

APPLICATIONS



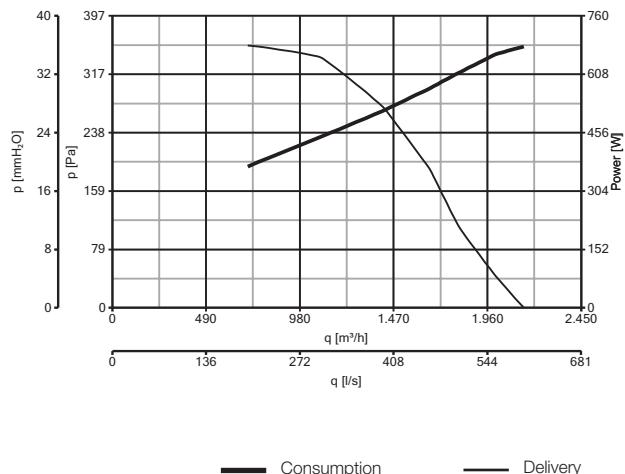


PERFORMANCE CURVES

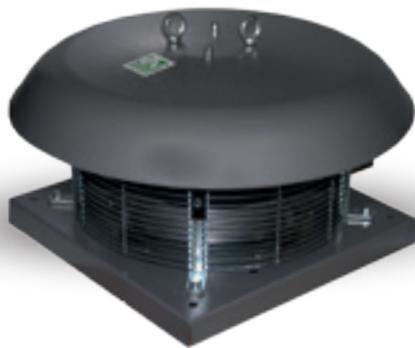


PERFORMANCE CURVES

C 37/4 T ATEX



— Consumption — Delivery



LONG LIFE 30.000 h

TORRETTE RF-EU RANGE

Centrifugal roof fans with horizontal discharge

PRODUCT SPECIFICATIONS

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.

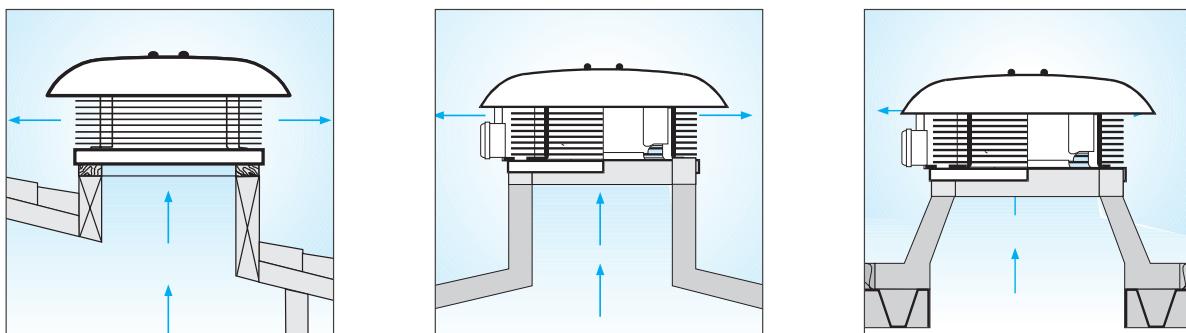
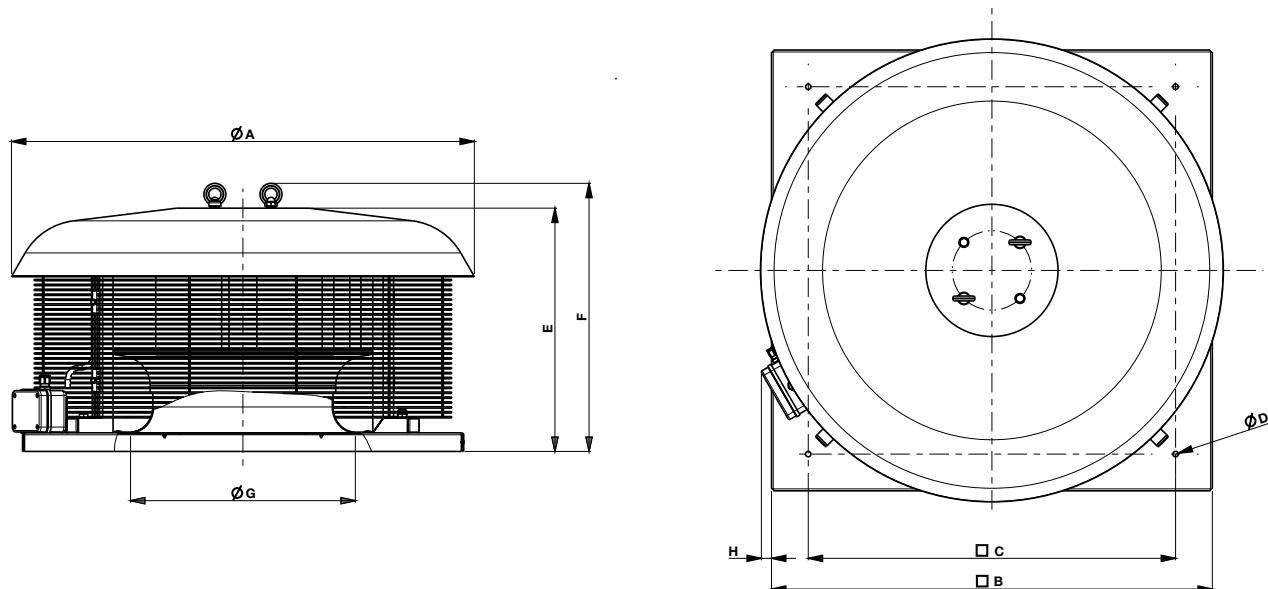
- **17 models** 6 single-phase e 11 three-phase.
- Thermo-protected, class F external rotor motors equipped with ball bearings.
- Centrifugal impellers, plastic or aluminium made with self-cleaning backward-curved blades.
- Sheet steel motor covers, pickled and phosphated with polyester powder coated finish, colour metallic grey.
- Protective safety and bird-stop grilles, made of 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.
- Insulation class: I.

Fans used in TORRETTE RF-EU range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	°C Max	Kg
MONO-FASE	RF-EU M10 4P	230	92	0.41	4	1345	1365	379	18.8	184	35.8	40	11.7
	RF-EU M15 4P		118	0.56		1400	1440	400	22.8	223	28.3		12.6
	RF-EU M20 4P		150	0.66		1395	2150	597	28.7	281	34.1		13
	RF-EU M30 4P		500	2.33		1370	4000	1111	43.7	428	43.6		25.4
	RF-EU M50 4P		470	2.14		1328	3900	1083	50.6	496	39.7		27.5
	RF-EU M70 4P		906	4.42		1310	6700	1861	44.4	435	47.2		33.8
THREE-FASE	RF-EU T10 4P	400	93	0.21	1400	1367	1350	375	20.7	203	30.5	40	12.8
	RF-EU T15 4P		137	0.28		1387	1810	503	25.9	254	37.7		13.8
	RF-EU T20 4P		258	0.49		1395	2980	828	37.2	365	36.6		22.3
	RF-EU T30 4P		523	1.04		4100	1139	54.9	538	38.7	25.4		25.4
	RF-EU T50 4P		700	1.44		5100	1417	66.1	648	50.3	28.2		28.2
	RF-EU T70 4P		853	1.63		1370	5850	1625	66.2	649	49.1		29.5
	RF-EU T70 6P		712	1.57	6	900	8100	2250	40.7	399	43.8	40	55.5
	RF-EU T100 4P		2700	4.92	4	1430	13100	3639	98.0	961	58.3		64.2
	RF-EU T100 6P		1210	2.60	6	910	12000	3333	51.8	508	46.9		64.7
	RF-EU T100 8P		830	1.85	8	650	11000	3055	30.9	303	43.5		76.8
	RF-EU T150 6P		1990	3.85	6	890	14500	4028	56.0	549	46.1		77.3

DIMENSIONS



Models	Ø A	Ø B	Ø C	Ø D	E	F	Ø G	H
RF-EU M10 4P					215	254	242	
RF-EU M15 4P	540	410	357		255	293	235	69
RF-EU M20 4P					281	320	261	
RF-EU M30 4P					358	397	325	
RF-EU M50 4P	720	550	500		328	366		76
RF-EU M70 4P					455	506	410	
RF-EU T10 4P	540	410	357		256	295	235	
RF-EU T15 4P					282	321	255	
RF-EU T20 4P					327		292	69
RF-EU T30 4P	720	550	500		328	366	325	
RF-EU T50 4P					330	369	362	
RF-EU T70 4P					366	405		
RF-EU T70 6P					497	548	460	
RF-EU T100 4P					490	540	456	
RF-EU T100 6P	945	900	750		535	586	510	21
RF-EU T100 8P					595	646	576	
RF-EU T150 6P								

Dimensions (mm)



INDUSTRIAL VENTILATION

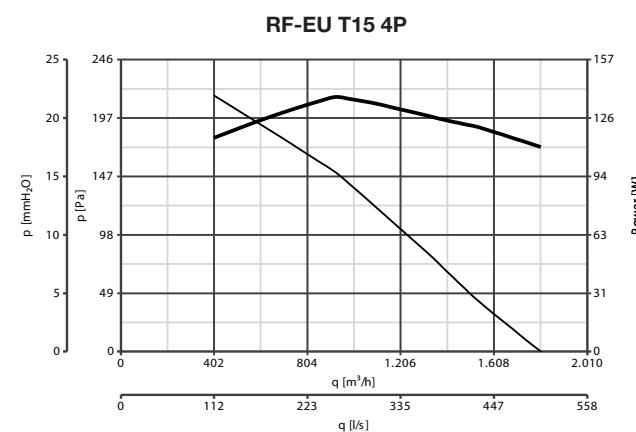
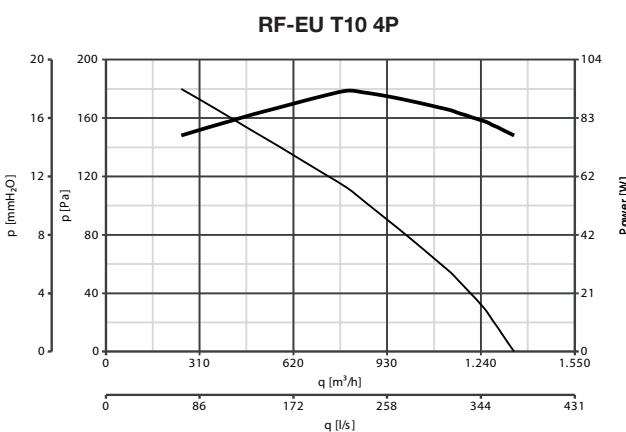
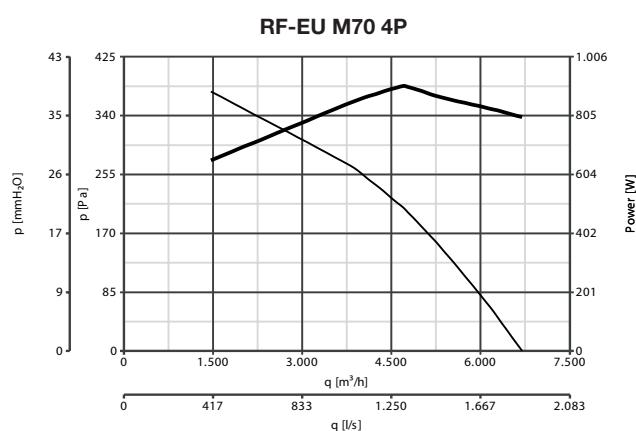
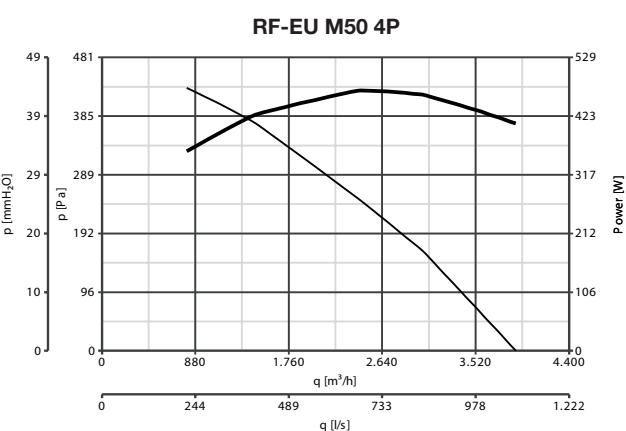
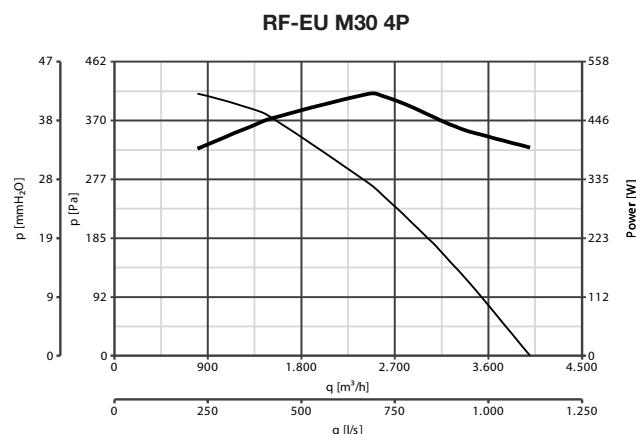
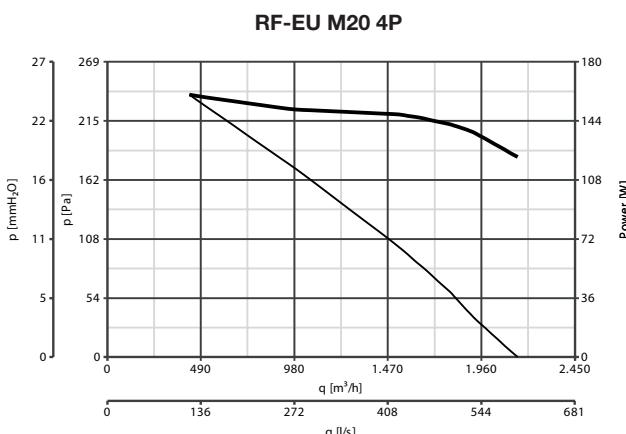
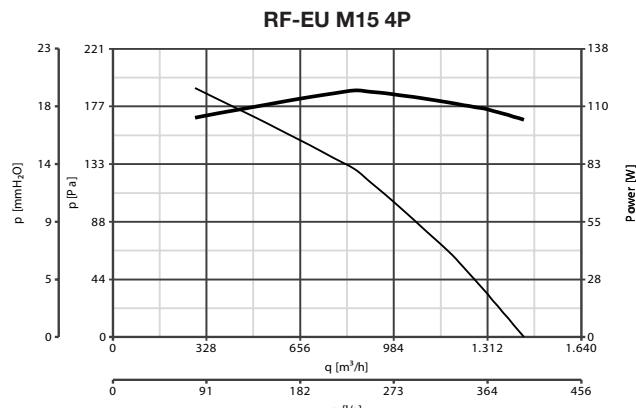
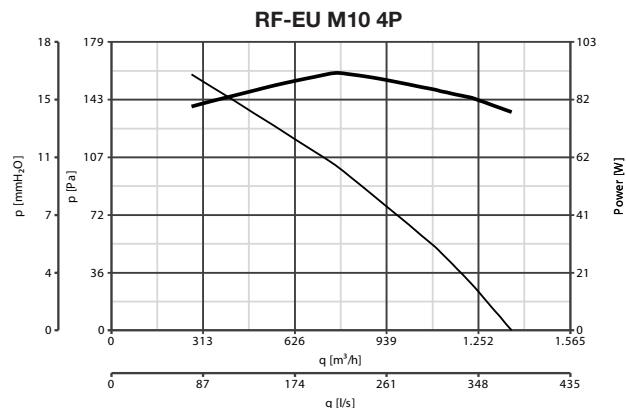
PRODUCT ACCESSORIES

Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	15120 - 15121 - 15122	
	IRM 40 - Three position single-phase speed controller	12922	15123 - 15124	
	IRM 50 - Three position single-phase speed controller	12928	15125	
	IRT 15 - Three position three-phase speed controller	12923	15126 - 15127 - 15128	
	IRT 35 - Three position three-phase speed controller	12924	15129 - 15130 - 15131 - 15132 - 15135	
	IRT 40 - Three position three-phase speed controller	12927	15134 - 15136	
	IREM 3 - Single-phase speed controller	12931	15120 - 15121 - 15122 - 15123 - 15124	
	IREM 5 - Single-phase speed controller	12932	15120 - 15121 - 15122 - 15123 - 15124	
	IREM 9 - Single-phase speed controller *	12933	15126 - 15127 - 15128 - 15129 - 15130 - 15131 - 15132 - 15134 - 15135	
	IRET 6 - Three-phase speed controller	12934	15136	
	C 1.5 - Electronic speed controller 1.5 A	12966	15120 - 15121 - 15122	
	IREM INVERTER 4 M	12815	15120 - 15121 - 15122 - 15123 - 15124	
	IREM INVERTER 6 M	12818	15125	
	IRET INVERTER 2.5 M	12816	15126 - 15127 - 15128 - 15129 - 15130 - 15131 - 15132 - 15134 - 15135	
	IRET INVERTER 2.5 M	12817	15133 - 15136	
	POTENZIOMETRO POTI 10K IP54	12819	per i codici 12815 - 12816 - 12817 - 12818	
	TR-CU - Control telaio di base	10/15	22511	15120 - 15121 - 15122 - 15126 - 15127
		20/30/50	22512	15123 - 15124 - 15125 - 15128 - 15129 - 15130 - 15131
		70/100	22539	15132 - 15133 - 15134 - 15135 - 15136
	TR-S - Backdraught shutter	20/30/50	22510	15120 - 15121 - 15122 - 15126 - 15127
		70/100	22541	15123 - 15124 - 15125 - 15128 - 15129 - 15130 - 15131
		100/150/180/210	22542	15132 - 15133 - 15134 - 15135 - 15136
	TR-B - Suction connector	20/30/50	22610	15120 - 15121 - 15122 - 15126 - 15127
		70/100	22508	15123 - 15124 - 15125 - 15128 - 15129 - 15130 - 15131
		100/150/180/210	22509	15132 - 15133 - 15134 - 15135 - 15136
	TR-G - Protection grille	20/30/50	22710	15120 - 15121 - 15122 - 15126 - 15127
		70/100	22506	15123 - 15124 - 15125 - 15128 - 15129 - 15130 - 15131
		100/150/180/210	22507	15132 - 15133 - 15134 - 15135 - 15136

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

Description and sizes on page 162

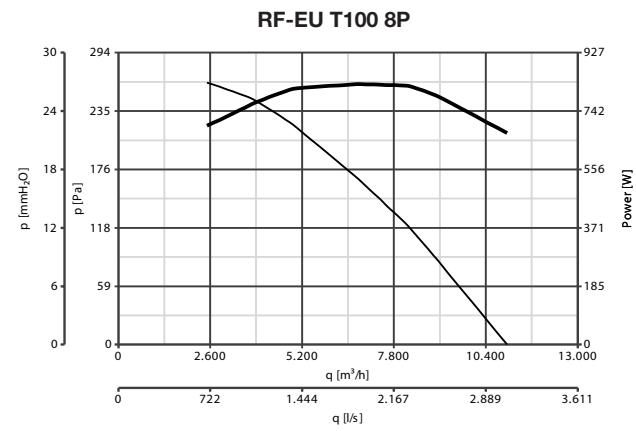
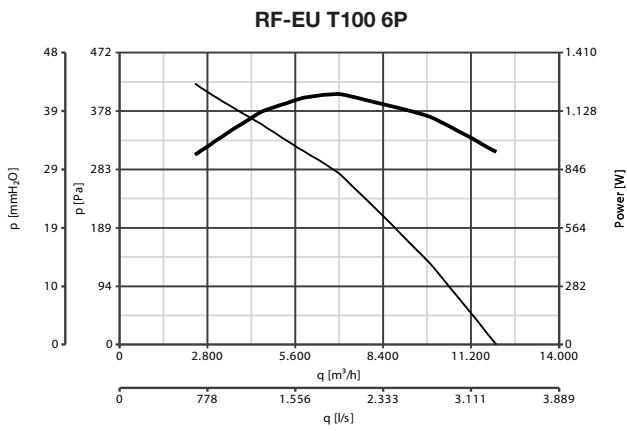
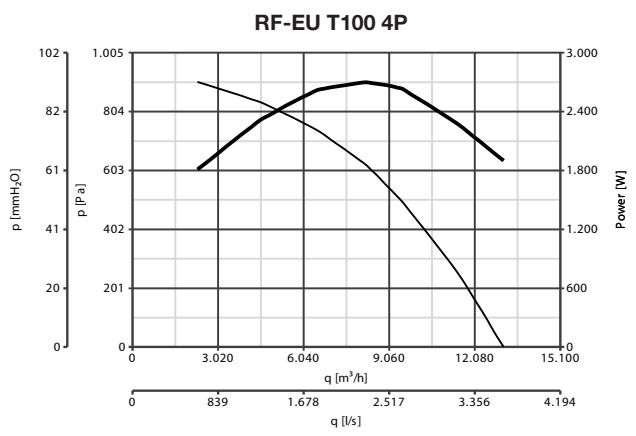
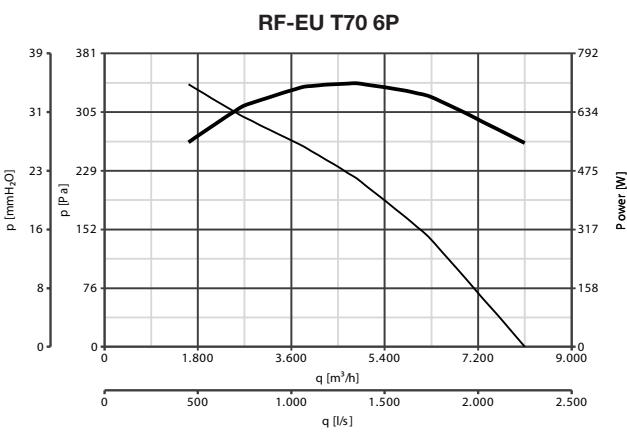
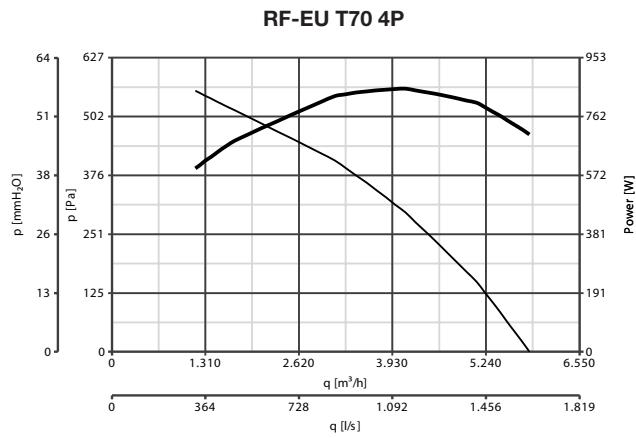
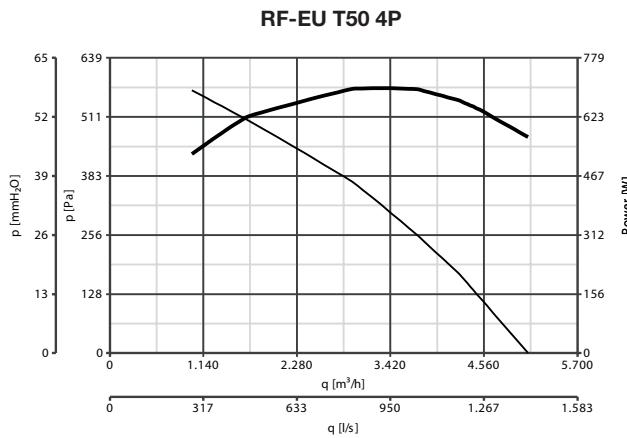
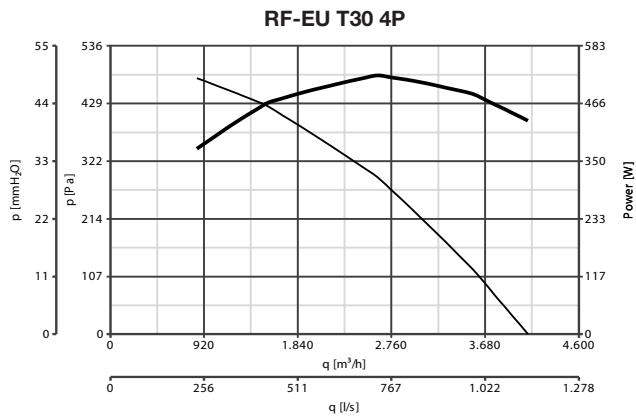
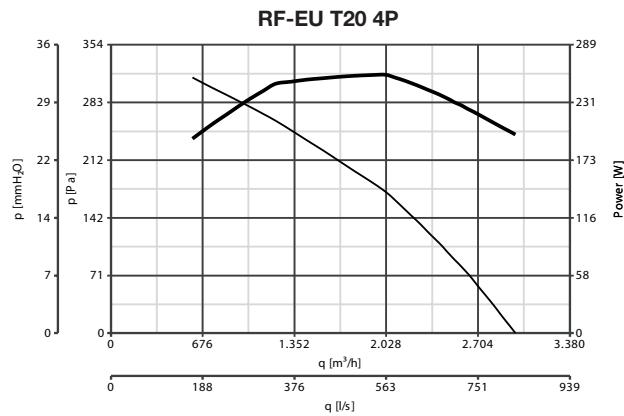
PERFORMANCE CURVES



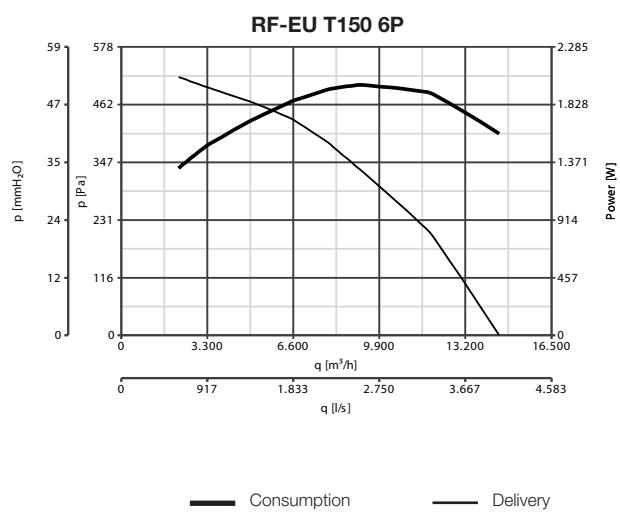


INDUSTRIAL VENTILATION

PERFORMANCE CURVES



PERFORMANCE CURVES





LONG LIFE 30.000 h

TORRETTE TR E RANGE

Centrifugal roof fans for radial blast

PRODUCT SPECIFICATIONS

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 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 guard.
- Self-ventilated motors equipped with ball bearings, standard sizes UNELMEC B5.
- Galvanised steel sheet fans with self cleaning, backward curved blades, die cast aluminium hubs.
- 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. (⊕)

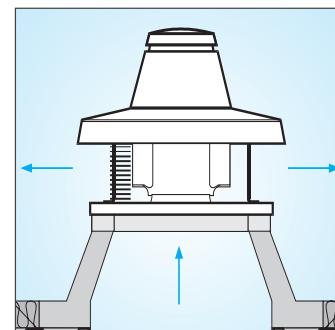
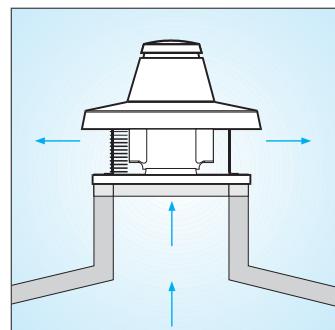
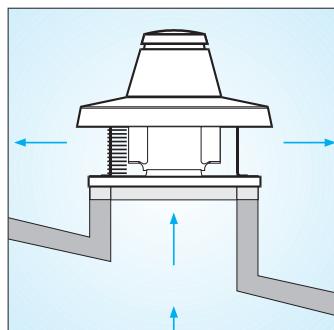
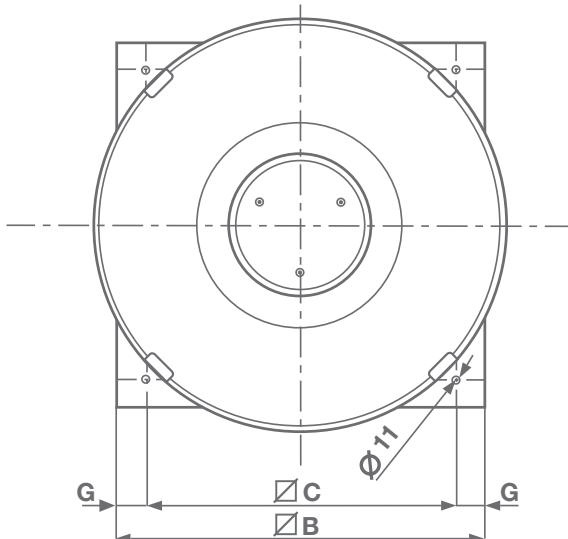
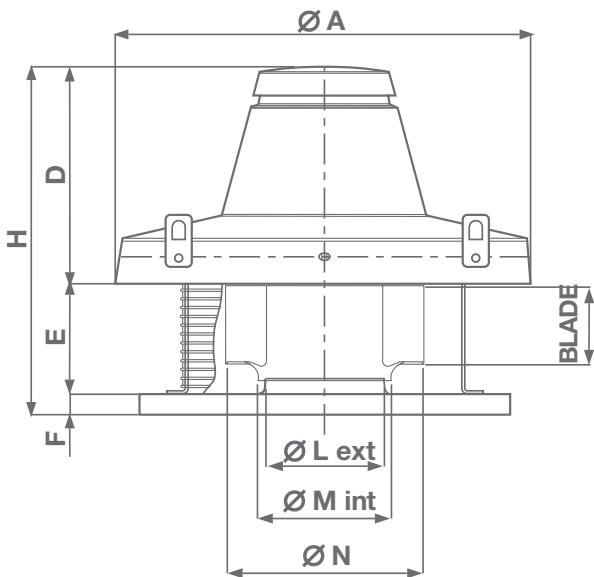
Fans used in TORRETTE TR E range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	°C Max	Kg
MONOPHASE	TRM 10 E 4P	15115	230	100	0.50	4	1400	1100	306	22	216	56	90	14.5
	TRM 15 E 4P	15205		150	0.70			1440	389	26	255	58.5	80	15
	TRM 20 E 4P	15216		280	1.30		1415	2600	722	36	353	62	85	22
	TRM 30 E 4P	15356		400	1.80		1425	3300	917	44	432	67	70	23
	TRM 50 E 4P	15556		800	3.70		1480	4800	1333	55	540	72.5	80	28
	TRM 70 E 4P	15070		1000	4.35		1415	6400	1778	67.5	662	77		79
TRIFASE	TRT 10 E 4P	15155	400	100	0.30	1400	1100	306	22	216	56		14.5	
	TRT 15 E 4P	15255		150			1400	389	26	255	58.5		15	
	TRT 20 E 4P	15215		300	0.60		2700	750	35	343	62		22	
	TRT 30 E 4P	15355		400	0.75		3200	889	46	451	67		23	
	TRT 50 E 4P	15555		800	1.45		4900	1361	61	598	72.5		28	
	TRT 70 E 4P	15071		950	1.85		1440	6400	1778	69	674	77		79
	TRT 70 E 6P	15072		600	1.30	6	950	7000	1944	38	373	74		80
	TRT 100 E 4P	15073		1900	3.25	4	1420	10000	2778	84.5	830	84	70	81
	TRT 100 E 6P	15074		1100	2.30	6	950	10800	3000	48	471	77	85	117
	TRT 100 E 8P	15075		930	2.10	8	715	11000	3056	34	334	71		127
	TRT 150 E 6P	15076		1930	3.45	6	930	15000	4167	61	598	80		128
	TRT 150 E 8P	15077		1600	3.10	8	715			45	441	74	75	132
	TRT 180 E 6P	15078		3100	5.95	6	970			79	775	83	80	130
	TRT 210 E 6P	15079		3400	6.40		980	18000	5000			84	70	180

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.

DIMENSIONS



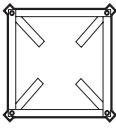
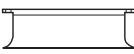
Models	Ø A	Ø B	Ø C	D	E	F	G	H	Ø L	Ø M	Ø N
TR 10 E 4P	600	410	357	310	108		26.5	456	170	187.5	283
TR 15 E 4P									182	199	315
TR 20 E 4P	780	550	500	398	128		25	564	219	236.5	359
TR 30 E 4P								582	244	265.5	404
TR 50 E 4P								609	278	298	454
TR 70 E 4P	1015	830	750	449	283	38	770	328	335	504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

Dimensions (mm)



INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	15115 - 15205	
	IRM 40 - Three position single-phase speed controller	12922	15216 - 15356	
	IRM 50 - Three position single-phase speed controller	12928	15556	
	IRT 15 - Three position three-phase speed controller	12923	15155 - 15215 - 15255	
	IRT 35 - Three position three-phase speed controller	12924	15072 - 15075 - 15355 - 15555	
	IRT 40 - Three position three-phase speed controller	12927	15071 - 15074	
	IREM 3 - Single-phase speed controller	12931	15115 - 15205 - 15216 - 15356	
	IREM 5 - Single-phase speed controller*	12932	15070 - 15115 - 15205 - 15556	
	IREM 9 - Single-phase speed controller **	12933	15115 - 15205 - 15070	
	IRET 6 - Three-phase speed controller	12934	15071 - 15072 - 15074 - 15075 - 15076 - 15077	
	IREM INVERTER 1.4 - Single-phase speed controller INVERTER	12935	15155 - 15215 - 15255 - 15355	
	IREM INVERTER 4.2 - Single-phase speed controller INVERTER	12936	15555 - 15071 - 15072 - 15074 - 15075	
	IREM INVERTER 7 - Single-phase speed controller INVERTER	12937	15073 - 15076 - 15077	
	IRET INVERTER 1.2 - Three-phase speed controller INVERTER	12909	15155 - 15215 - 15255 - 15355	
	IRET INVERTER 2.2 - Three-phase speed controller INVERTER	12925	15555 - 15071 - 15072 - 15074 - 15075	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12947	15073 - 15076 - 15077	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12989	15078 - 15079	
	TR-CU - Sub-frame	10/15	22511	15115 - 15155 - 15205 - 15255
		20/30/50	22512	15215 - 15216 - 15355 - 15356 - 15555 - 15556
		70/100	22539	15070 - 15071 - 15072 - 15073
		100/150/180/210	22540	15074 - 15075 - 15076 - 15077 - 15078 - 15079
	TR-S - Backdraught shutter	10/15	22500	15115 - 15155 - 15205 - 15255
		20/30/50	22510	15215 - 15216 - 15355 - 15356 - 15555 - 15556
		70/100	22541	15070 - 15071 - 15072 - 15073
		100/150/180/210	22542	15074 - 15075 - 15076 - 15077 - 15078 - 15079
		10/15	22600	15115 - 15155 - 15205 - 15255
	TR-B - Suction connector	20/30/50	22610	15215 - 15216 - 15355 - 15356 - 15555 - 15556
		70/100	22508	15070 - 15071 - 15072 - 15073
		100/150/180/210	22509	15074 - 15075 - 15076 - 15077 - 15078 - 15079
		10/15	22700	15115 - 15155 - 15205 - 15255
	TR-G - Protection grille	20/30/50	22710	15215 - 15216 - 15355 - 15356 - 15555 - 15556
		70/100	22506	15070 - 15071 - 15072 - 15073
		100/150/180/210	22507	15074 - 15075 - 15076 - 15077 - 15078 - 15079

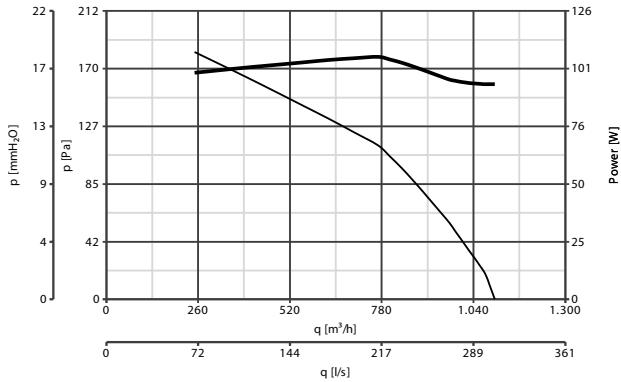
* Can control multiple fans up to a maximum 5A.

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

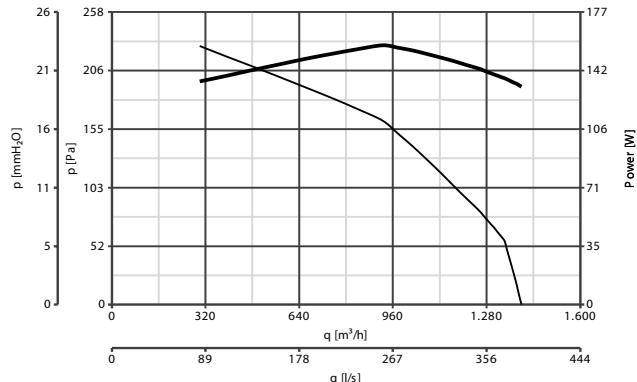
Description and sizes on page 162

PERFORMANCE CURVES

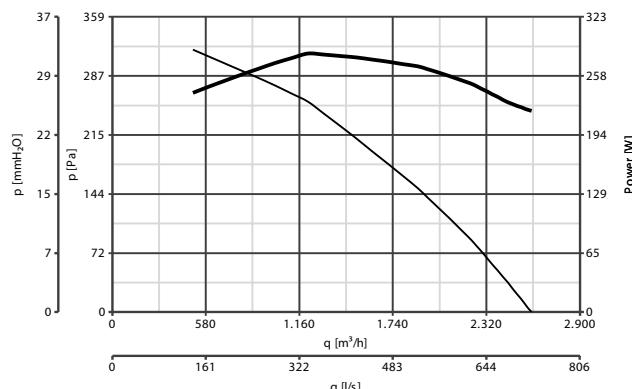
TRM 10 E 4P



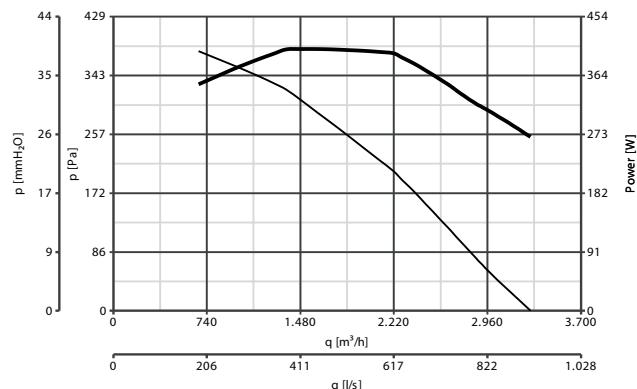
TRM 15 E 4P



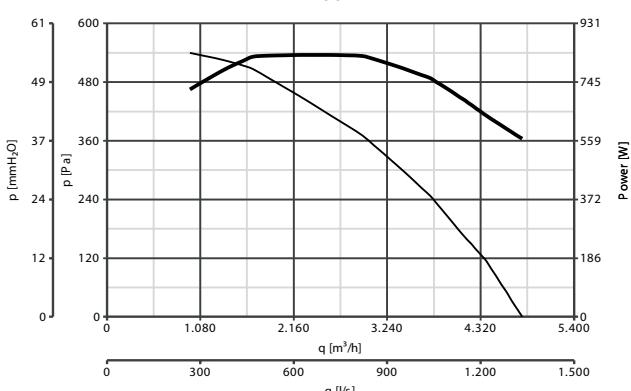
TRM 20 E 4P



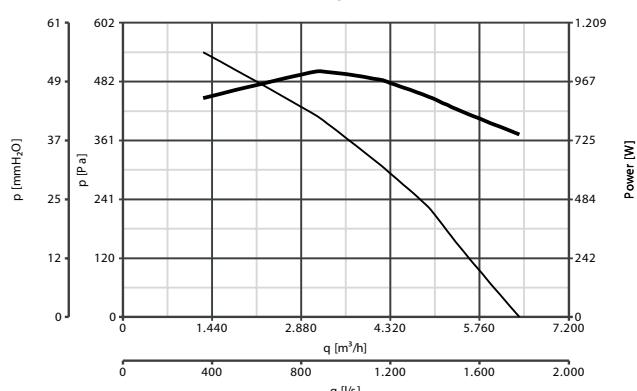
TRM 30 E 4P



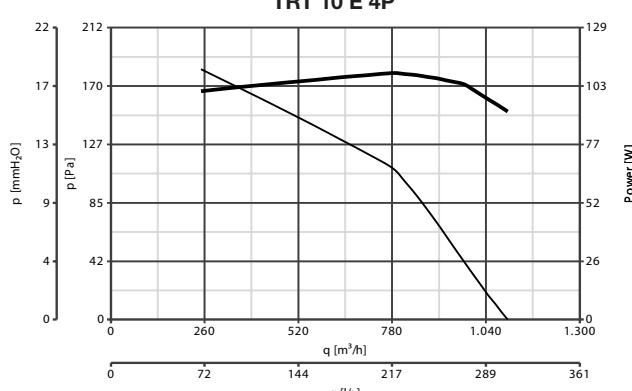
TRM 50 E 4P



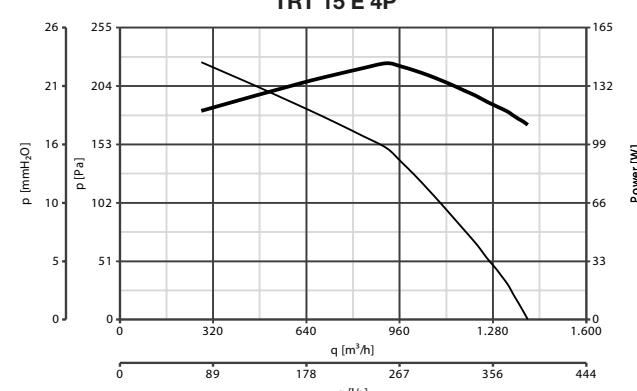
TRM 70 E 4P



TRT 10 E 4P



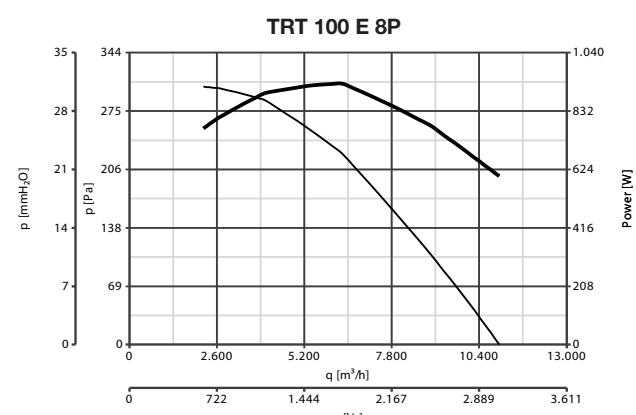
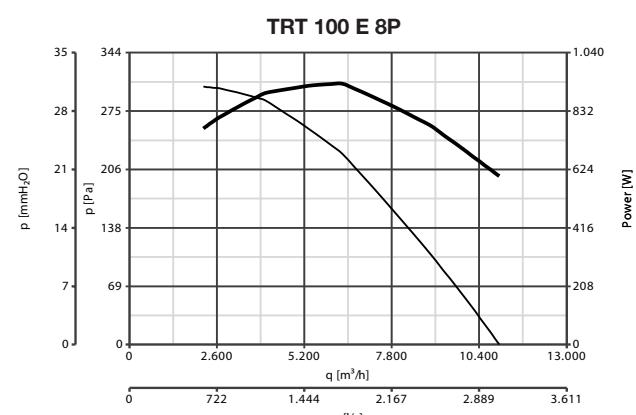
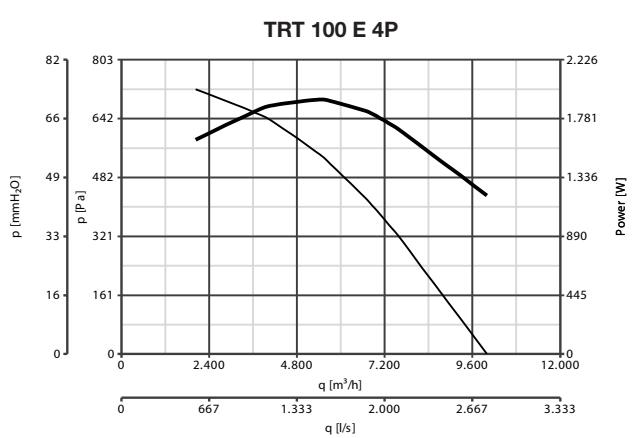
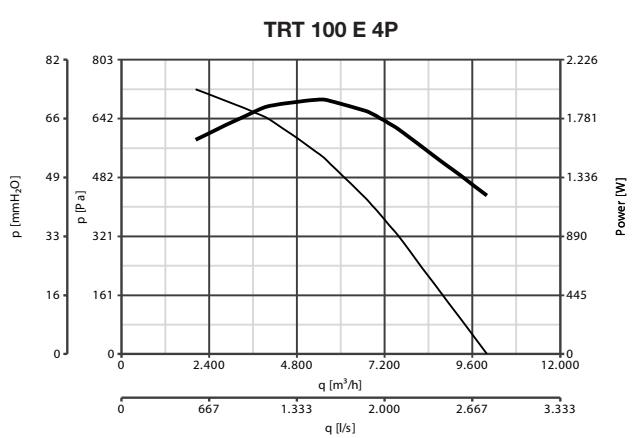
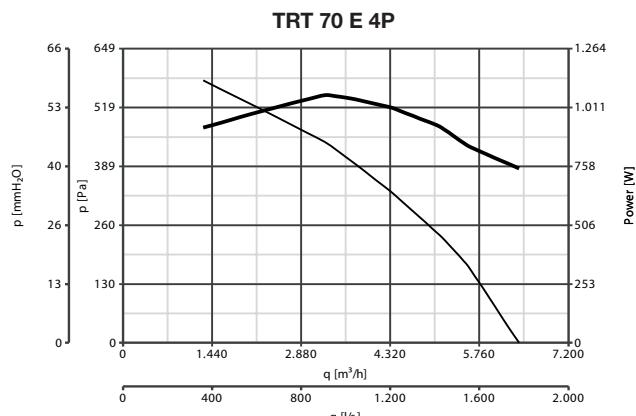
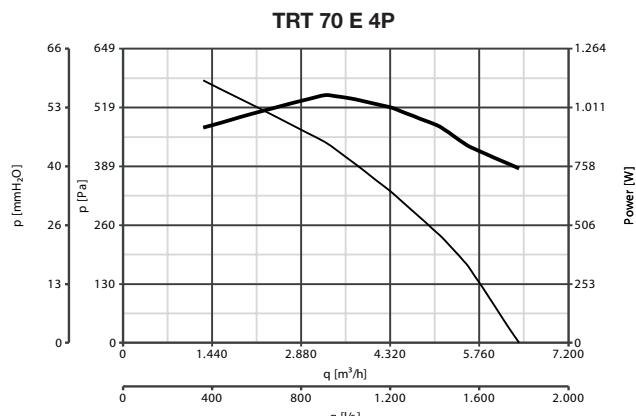
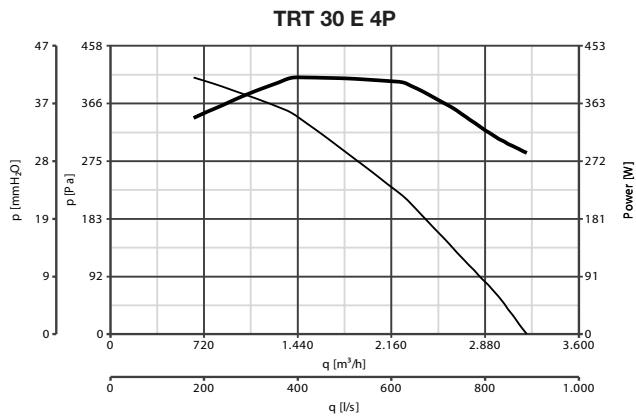
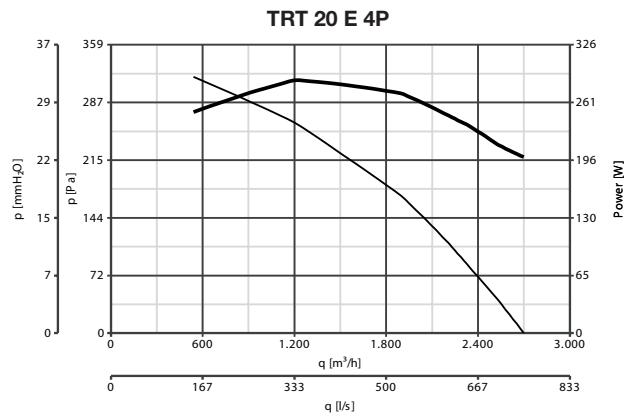
TRT 15 E 4P





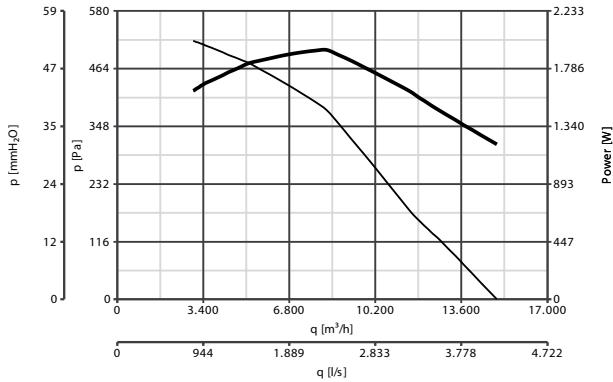
INDUSTRIAL VENTILATION

PERFORMANCE CURVES

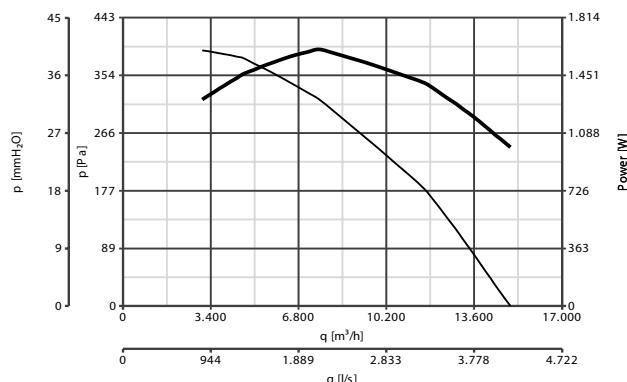


PERFORMANCE CURVES

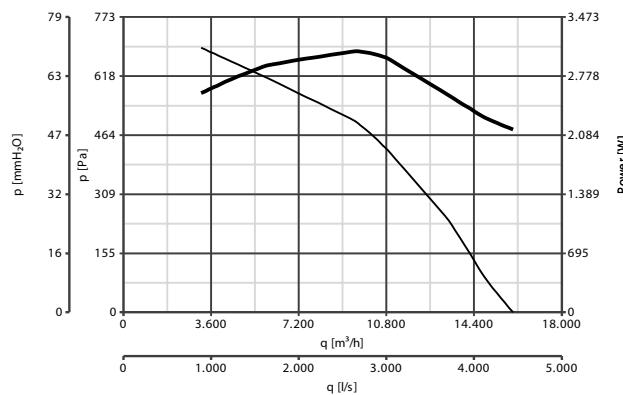
TRT 150 E 6P



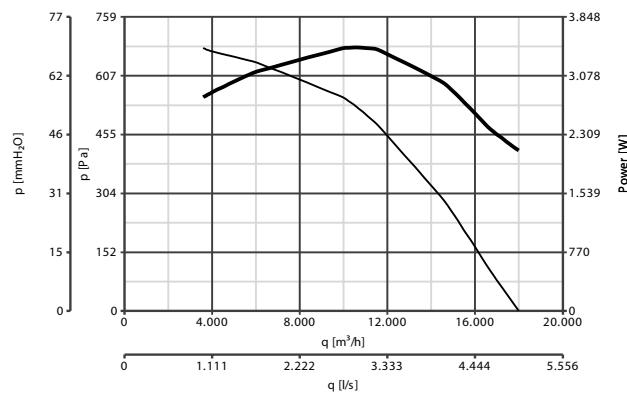
TRT 150 E 8P



TRT 180 E 6P



TRT 210 E 6P



— Consumption

— Delivery



LONG LIFE 30.000 h

TORRETTE TR E-V RANGE

Centrifugal roof fans for vertical blast

PRODUCT SPECIFICATIONS

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 modells** 6 single-phase and 14 three-phase.
- Max airflow up to 15000 m³/h.
- 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.
- Self-ventilated motors equipped with ball bearings, standard sizes UNELMEC B5.
- Galvanised steel sheet fans with self cleaning, backward curved blades, die casted aluminium hubs.
- 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 15182, 15190, 15193, 15195, 15196; F for all other models.
- Protection rating: IP55.
- Insulation class: I.

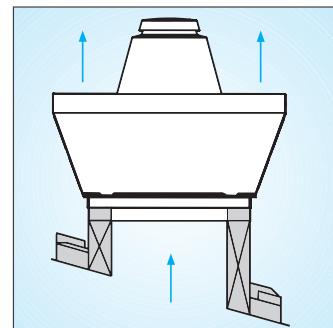
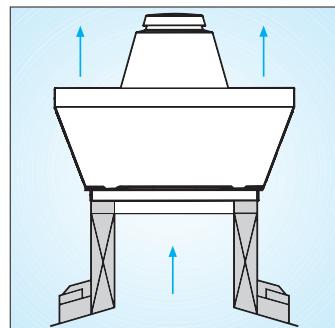
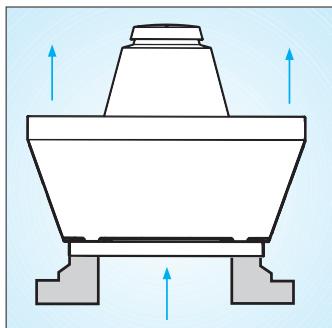
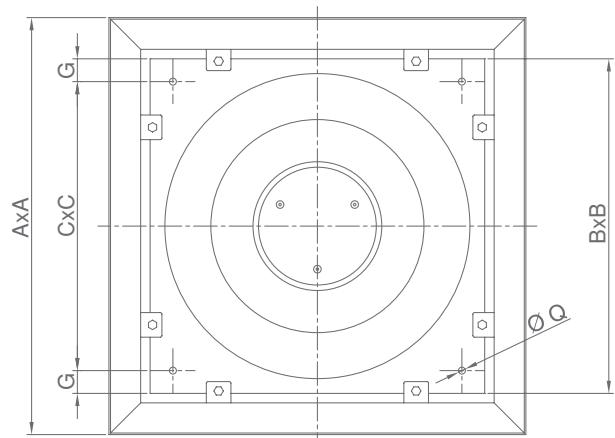
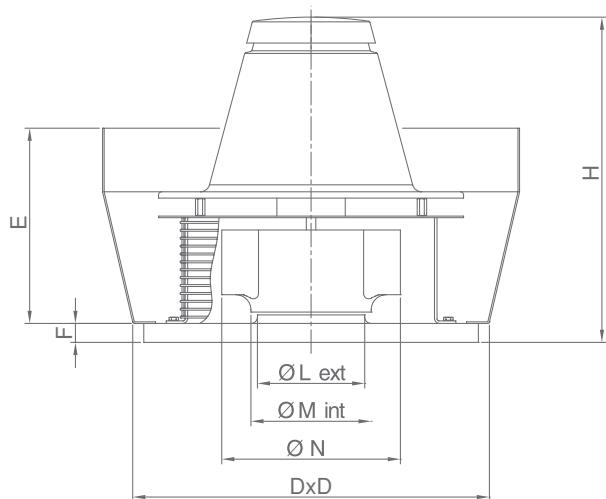
Fans used in TORRETTE TR E-V range comply with ErP Lot. 6 Reg. N° 327/2011/UE.

TECHNICAL DATA

Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow m ³ /h	Max Pressure mmH ₂ O	Lp dB(A)* 3 m	°C Max	Kg
TRM 10 E-V 4P	15180	230	100	0.50	4	1400	1100	306	22	216	56
TRM 15 E-V 4P	15182		150	0.70			1440	389	26	255	58.5
TRM 20 E-V 4P	15197		280	1.30		1415	2600	722	36	353	62
TRM 30 E-V 4P	15198		400	1.80		1425	3300	917	44	432	67
TRM 50 E-V 4P	15199		800	3.70		1480	4800	1333	55	540	72.5
TRM 70 E-V 4P	15188		1000	4.35		1415	6400	1778	67.5	662	77
TRT 10 E-V 4P	15181	400	100	0.30	4	1400	1100	306	22	216	56
TRT 15 E-V 4P	15183		150				1400	389	26	255	58.5
TRT 20 E-V 4P	15184		300	0.60		1400	2700	750	35	343	62
TRT 30 E-V 4P	15185		400	0.75		1400	3200	889	46	451	67
TRT 50 E-V 4P	15186		800	1.45		1400	4900	1361	61	598	72.5
TRT 70 E-V 4P	15187		950	1.85		1440	6400	1778	69	674	77
TRT 70 E-V 6P	15189	400	600	1.30	6	950	7000	1944	38	373	74
TRT 100 E-V 4P	15190		1900	3.25	4	1420	10000	2778	84.5	830	84
TRT 100 E-V 6P	15191		1100	2.30	6	950	10800	3000	48	471	77
TRT 100 E-V 8P	15192		930	2.10	8	715	11000	3056	34	334	71
TRT 150 E-V 6P	15193		1930	3.45	6	930	15000	4167	61	598	80
TRT 150 E-V 8P	15194		1600	3.10	8	715			45	441	74
TRT 180 E-V 6P	15195	400	3100	5.95	6	970	16000	4444	79	775	83
TRT 210 E-V 6P	15196		3400	6.40		980	18000	5000			84
											70
											180

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.

DIMENSIONS



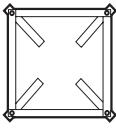
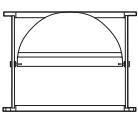
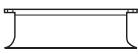
Models	Ø A	Ø B	Ø C	D	E	F	G	H	Ø L	Ø M	Ø N	Ø Q
TR 10 E-V 4P	652	410	357	440	328			502	170	187.5	283	
TR 15 E-V 4P							26.5	502	182	199	315	
TR 20 E-V 4P								586	219	236.5	359	11
TR 30 E-V 4P	907	550	500	580	432		25	604	244	265.5	404	
TR 50 E-V 4P								631	278	298	454	
TR 70 E-V 4P								328	335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

Dimensions (mm)



INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	15180- 15182	
	IRM 40 - Three position single-phase speed controller	12922	15197 - 15198	
	IRM 50 - Three position single-phase speed controller	12928	15199	
	IRT 15 - Three position three-phase speed controller	12923	15181 - 15183 - 15184	
	IRT 35 - Three position three-phase speed controller	12924	15185 - 15186- 15189- 15192	
	IRT 40 - Three position three-phase speed controller	12927	15187 - 15190 - 15191 - 15193 - 15194	
	IREM 3 - Single-phase speed controller	12931	15180 - 15182 - 15197 - 15198	
	IREM 5 - Single-phase speed controller*	12932	15180 - 15182 - 15188 - 15199	
	IREM 9 - Single-phase speed controller **	12933	15180 - 15182 - 15188	
	IRET 6 - Three-phase speed controller	12934	15187 - 15189 - 15190 - 15191 - 15192- 15193 - 15194	
	IREM INVERTER 1.4 - Single-phase speed controller INVERTER	12935	15181 - 15183 - 15184 - 15185	
	IREM INVERTER 4.2 - Single-phase speed controller INVERTER	12936	15186 - 15187 - 15189 - 15191 - 15192	
	IREM INVERTER 7 - Single-phase speed controller INVERTER	12937	15190 - 15193 - 15194	
	IRET INVERTER 1.2 - Three-phase speed controller INVERTER	12909	15181 - 15183 - 15184 - 15185	
	IRET INVERTER 2.2 - Three-phase speed controller INVERTER	12925	15186 - 15187 - 15189 - 15191 - 15192	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12947	15190 - 15193 - 15194	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12989	15195 - 15196	
	TR-CU - Sub-frame	10/15	22511	15180 - 15181 - 15182 - 15183
		20/30/50	22512	15184 - 15185 - 15186 - 15197 - 15198 - 15199
		70/100	22539	15187 - 15188 - 15189 - 15190
		100/150/180/210	22540	15191 - 15192 - 15193 - 15194 - 15195 - 15196
	TR-S - Backdraught shutter	10/15	22500	15180 - 15181 - 15182 - 15183
		20/30/50	22510	15184 - 15185 - 15186 - 15197 - 15198 - 15199
		70/100	22541	15187 - 15188 - 15189 - 15190
		100/150/180/210	22542	15191 - 15192 - 15193 - 15194 - 15195 - 15196
	TR-B - Suction connector	10/15	22600	15180 - 15181 - 15182 - 15183
		20/30/50	22610	15184 - 15185 - 15186 - 15197 - 15198 - 15199
		70/100	22508	15187 - 15188 - 15189 - 15190
		100/150/180/210	22509	15191 - 15192 - 15193 - 15194 - 15195 - 15196
	TR-G - Protection grille	10/15	22700	15180 - 15181 - 15182 - 15183
		20/30/50	22710	15184 - 15185 - 15186 - 15197 - 15198 - 15199
		70/100	22506	15187 - 15188 - 15189 - 15190
		100/150/180/210	22507	15191 - 15192 - 15193 - 15194 - 15195 - 15196

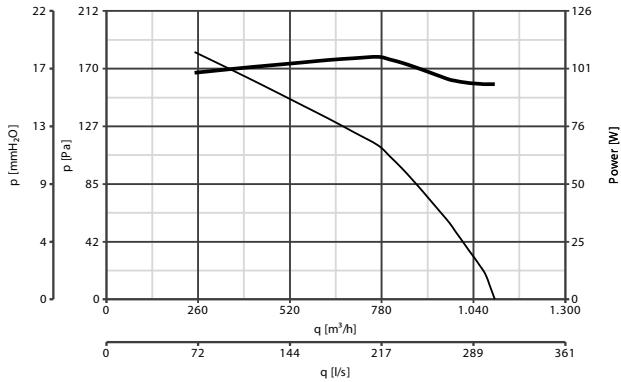
* Can control multiple fans up to a maximum 5A.

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

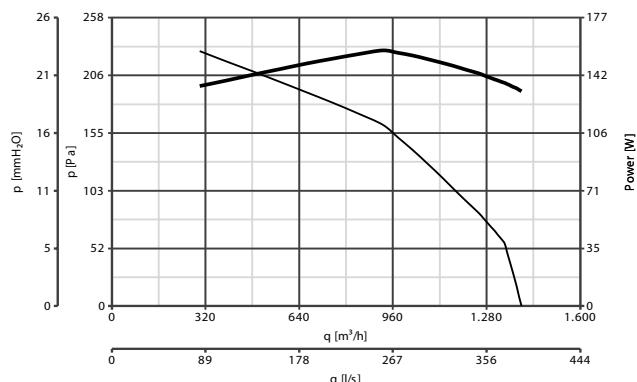
Description and sizes on page 162

PERFORMANCE CURVES

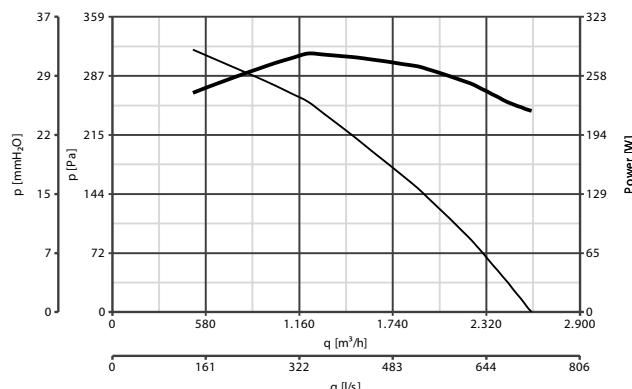
TRM 10 E-V 4P



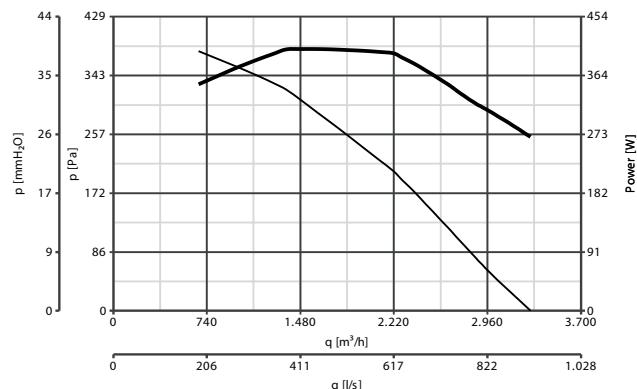
TRM 15 E-V 4P



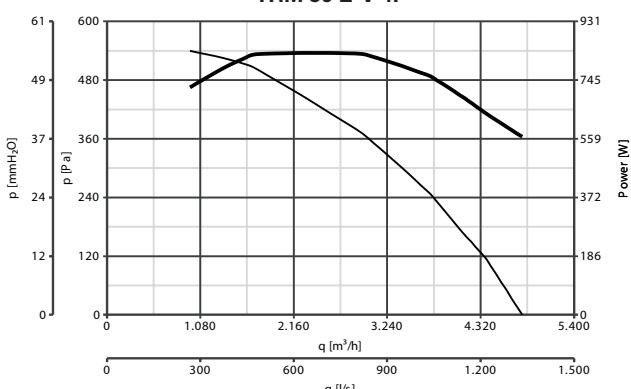
TRM 20 E-V 4P



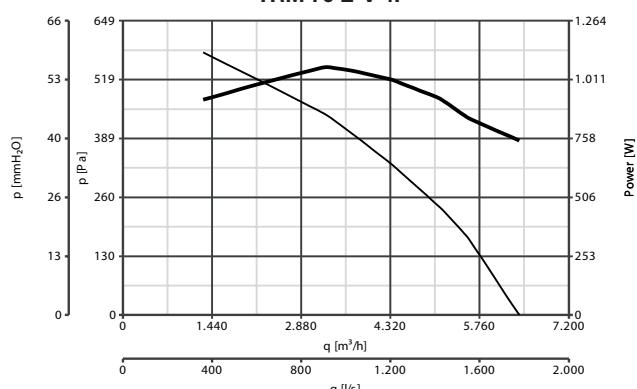
TRM 30 E-V 4P



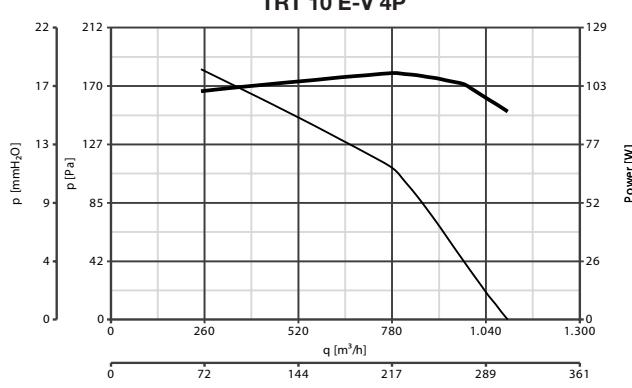
TRM 50 E-V 4P



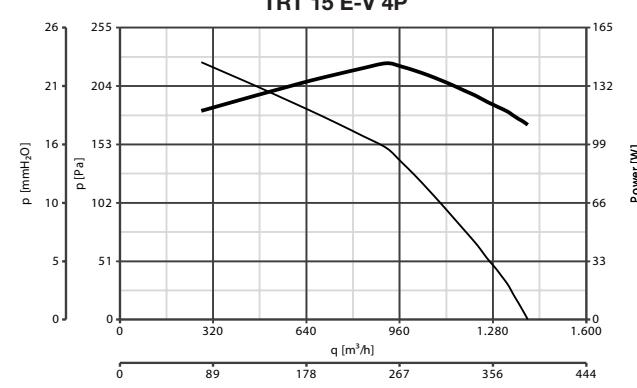
TRM 70 E-V 4P



TRT 10 E-V 4P



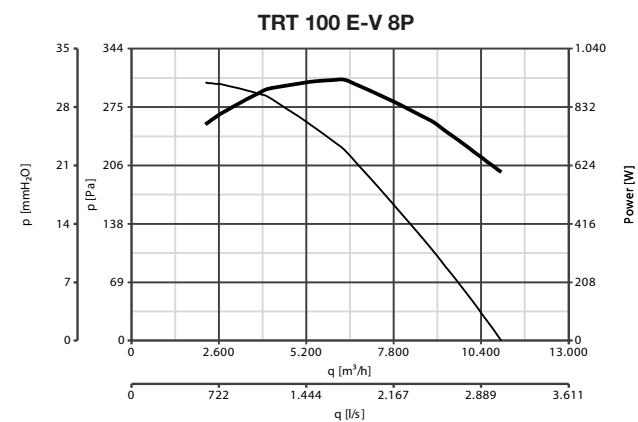
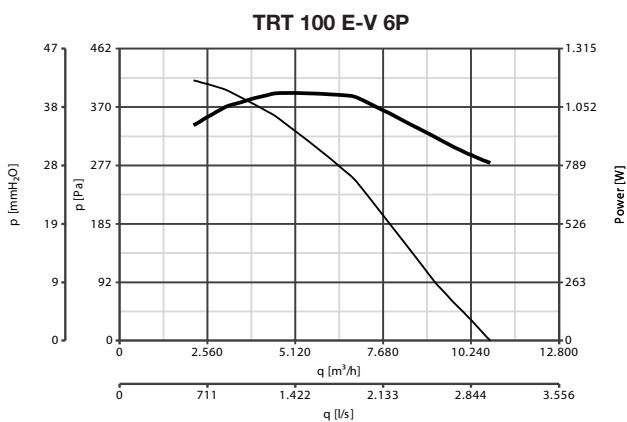
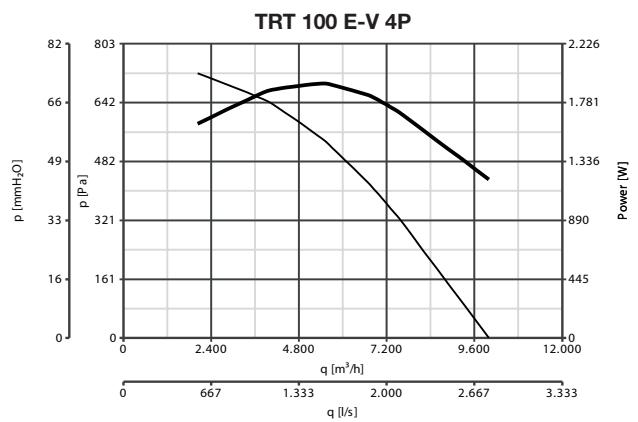
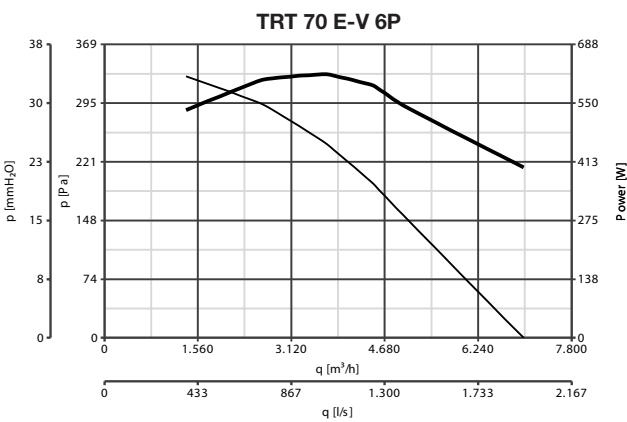
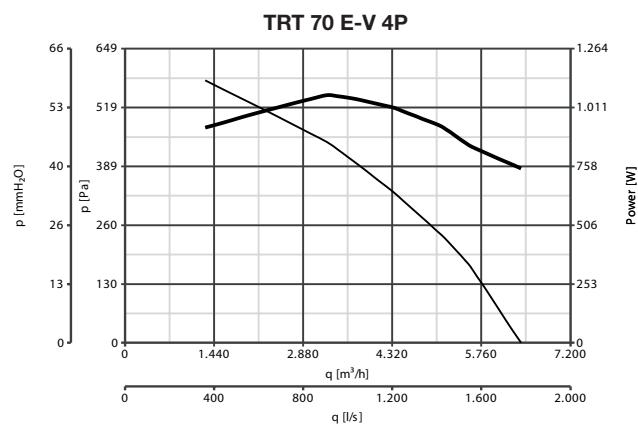
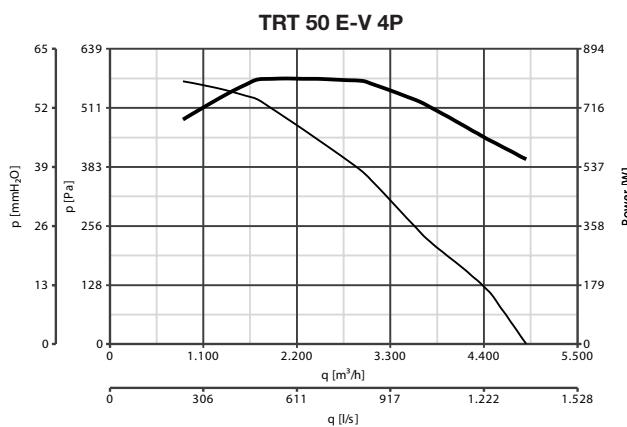
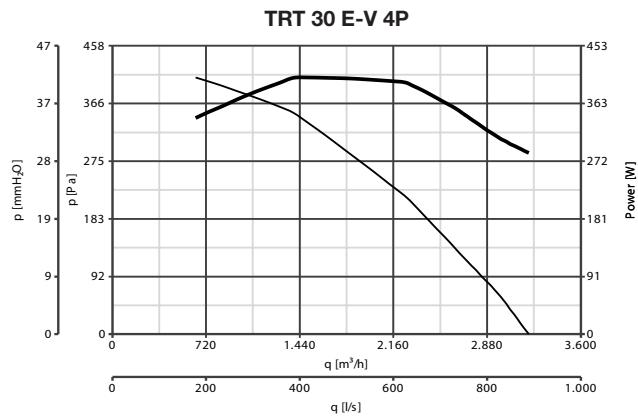
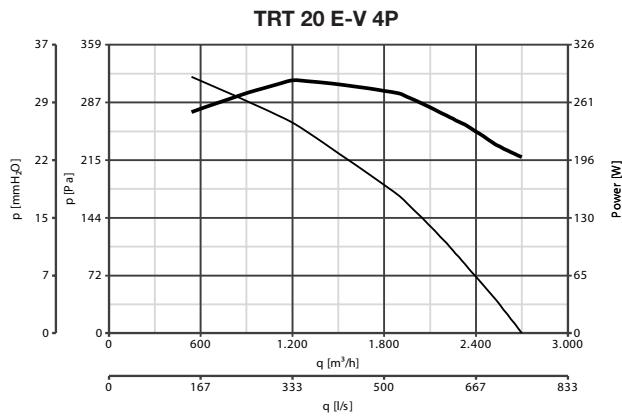
TRT 15 E-V 4P





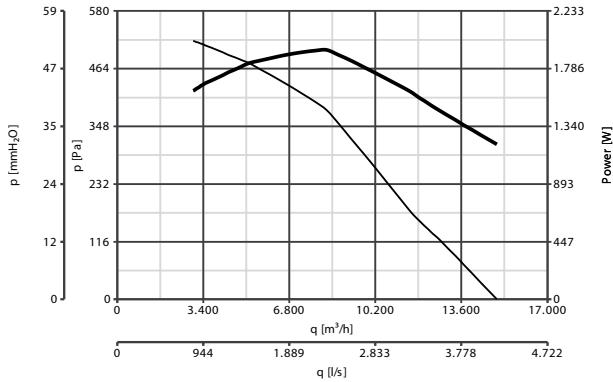
INDUSTRIAL VENTILATION

PERFORMANCE CURVES

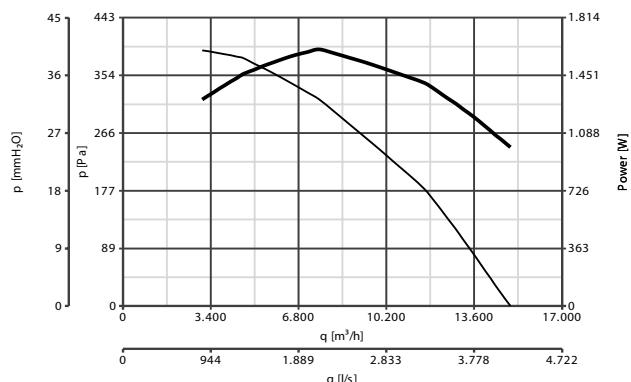


PERFORMANCE CURVES

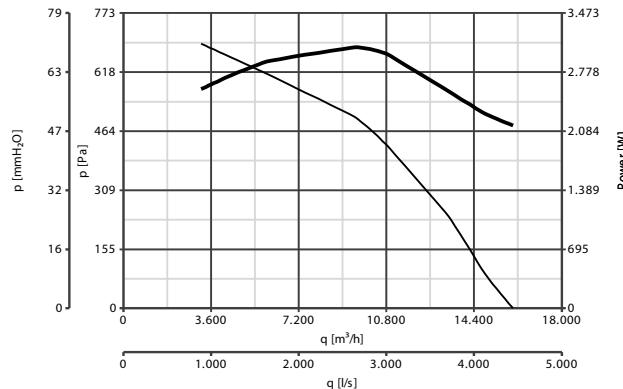
TRT 150 E-V 6P



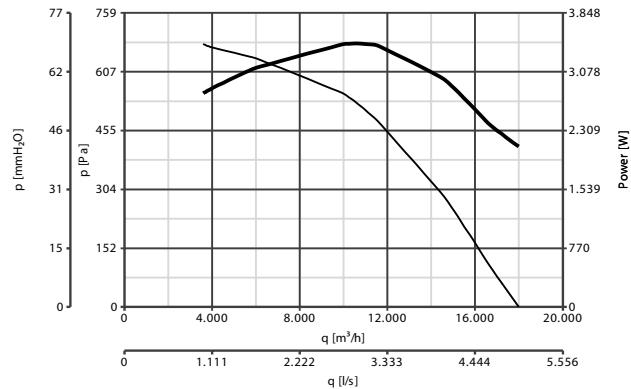
TRT 150 E-V 8P



TRT 180 E-V 6P



TRT 210 E-V 6P



— Consumption

— Delivery



LONG LIFE 30.000 h

TORRETTE TR ED RANGE

Centrifugal roof fans for radial blast
for hot fumes extraction

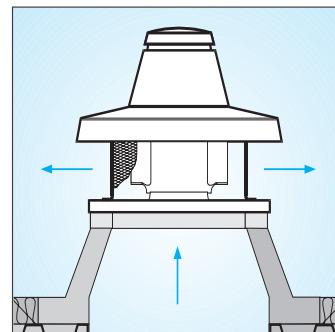
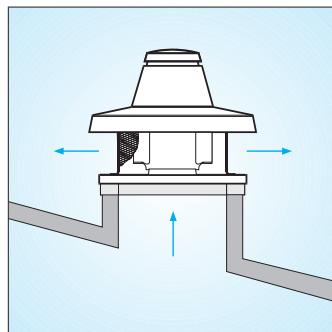
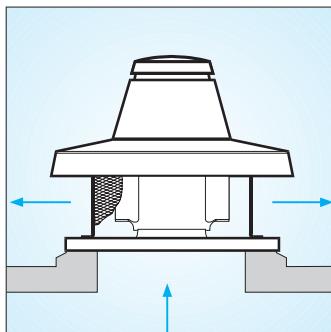
PRODUCT SPECIFICATIONS

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.
- Class 4, self ventilated motors equipped with ball bearings, standards sizes UNLMEC B5.
- Galvanised steel sheet fans with self cleaning, backward curved blades, die casted aluminium hubs.
- 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.
- Motors insulation class H.
- Protection rating: IP55.
- Insulation class: I. (I)

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.

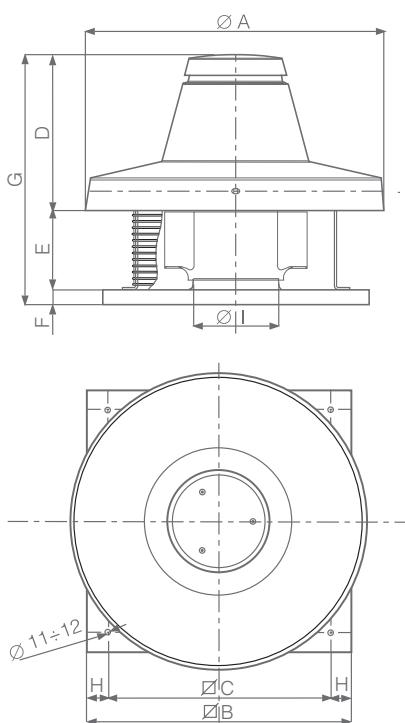


TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	°C Max	Kg
SINGLE-FASE	TRM 10 ED 4P	15039	200-240	110	0.46	4	1395	1000	278	20	196	56	400 °C/2h	18.5
	TRM 15 ED 4P	15041		140	0.60		1315	1400	389	24	235	58.5		19
	TRM 20 ED 4P	15043		270	1.20		1375	2200	611	34	334	68		33
	TRM 30 ED 4P	15046		420	1.90		1285	3100	861	40	392	67		35
	TRM 50 ED 4P	15048		720	3.30		1290	4500	1250	52	510	72.5		40
	TRM 70 ED 4P	15080		1020	4.50		1415	5800	1611	65	638	77		80
THREE-FASE	TRT 10 ED 4P	15040	380-415	72	0.13	6	1270	890	247	17	167	56	400 °C/2h	19
	TRT 15 ED 4P	15042		100	0.24		1430	1100	306	21	206	56		33
	TRT 20 ED 4P	15045		93	0.16		1150	1100	306	16	157	58.5		35
	TRT 30 ED 4P	15047		130	0.27		1400	1400	389	24	235	68		40
	TRT 50 ED 4P	15049		208	0.32		1050	1800	500	24	235	334		78
	TRT 70 ED 4P	15081		270	0.53		1400	2200	611	34	334	68		81
	TRT 70 ED 6P	15082		305	0.48		1070	2555	710	30	294	422		81.5
	TRT 100 ED 4P	15083		420	0.75		1400	3100	861	43	422	67		114
	TRT 100 ED 6P	15084		530	0.80		1150	3800	1056	38	373	72.5		124
	TRT 100 ED 8P	15085		690	1.20		1400	4500	1250	52	510	77		125
	TRT 150 ED 6P	15086		820	1.50		1090	5300	1472	52	510	657		129
	TRT 150 ED 8P	15087		1090	2.00		1400	6000	1667	67	657	77		220
	TRT 180 ED 6P	15919		420	0.80	6	750	1200	2306	30	294	373		222
	TRT 210 ED 6P	15920		580	1.30		950	9100	2528	38	373	461		38
	TRT 100 ED 4P	15083		1400	2.30		1200	730	2097	38	373	461		400
	TRT 100 ED 6P	15084		1950	4.90		1400	950	2389	47	461	77		84
	TRT 100 ED 8P	15085		900	1.40		1130	8600	2556	34	334	71		114
	TRT 150 ED 6P	15086		1280	2.40		1930	700	3056	42	412	579		124
	TRT 150 ED 8P	15087		1000	2.00		1500	930	3222	59	579	80		125
	TRT 180 ED 6P	15919		1000	3.00		1500	610	11600	34	334	412		129
	TRT 210 ED 6P	15920		1500	3.00		1500	715	3222	42	412	74		220

The sound pressure values conform to standard ISO 3744.

DIMENSIONS



Models	Ø A	Ø B	Ø C	D	E	F	G	H	Ø L	Ø M	Ø N
TR 10 ED 4P	600	410	357	309	166	26.5	513	38	183	187.5	280
TR 15 ED 4P									206	211	315
TR 20 ED 4P									231	236.5	355
TR 30 ED 4P	780	550	500	397	226	25	661	40	260	265.5	400
TR 50 ED 4P									292	298	450
TR 70 ED 4P									328	335	504
TR 70 ED 6P	1015	830	750	449	283	415	770	38	365	375	562
TR 100 ED 4P									421	635	
TR 100 ED 6P									472	715	
TR 100 ED 8P	1165	980	900	605	383	465	1026	520	529	805	
TR 150 ED 6P											
TR 150 ED 8P											
TR 180 ED 6P	1165	980	900	605	383	415	1026	520	529	805	
TR 210 ED 6P											

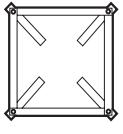
Quote (mm)



INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

USE IN CONJUNCTION WITH APPLIANCES HAVING SPEED SELECTORS OR CONTROLLERS IS NOT PERMITTED IN COUNTRIES IMPLEMENTING EUROPEAN REGULATION 327/2011/EU.

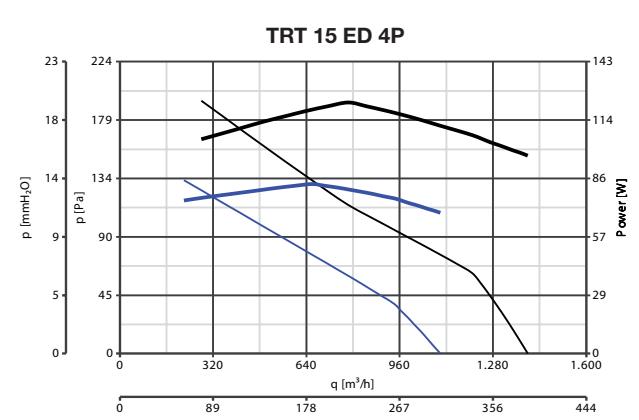
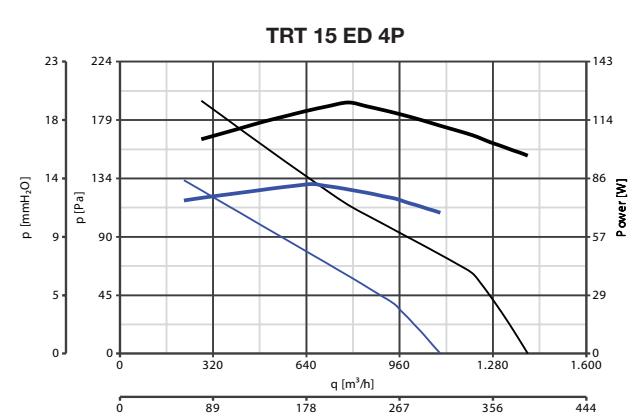
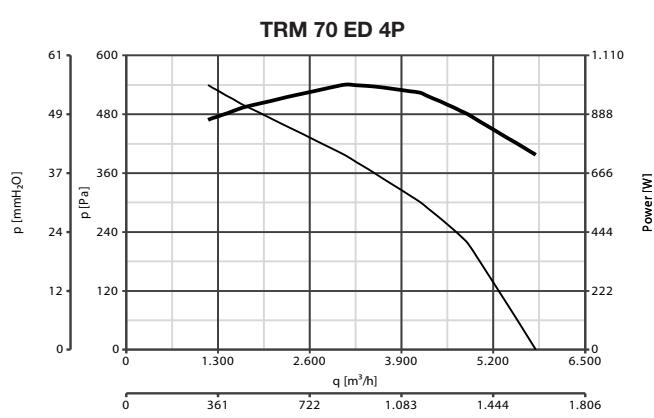
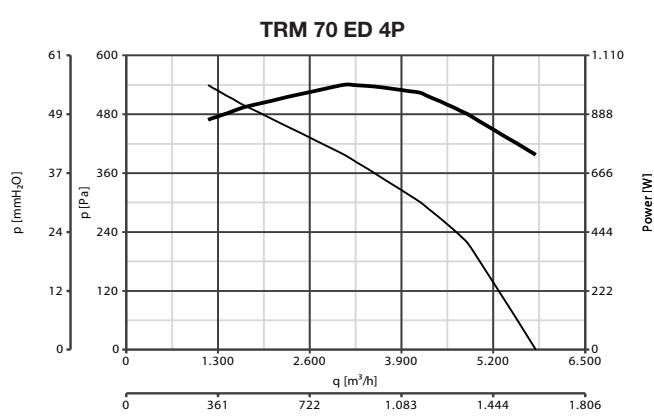
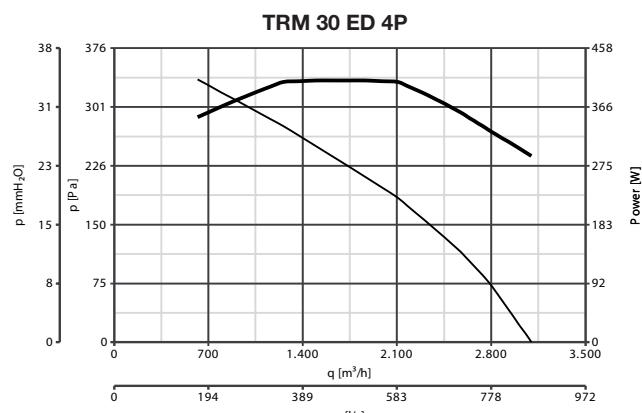
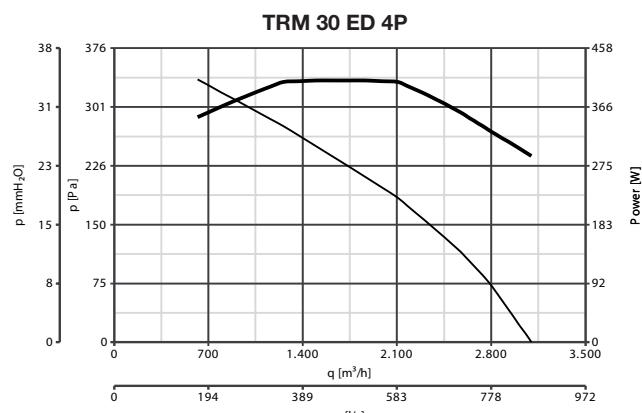
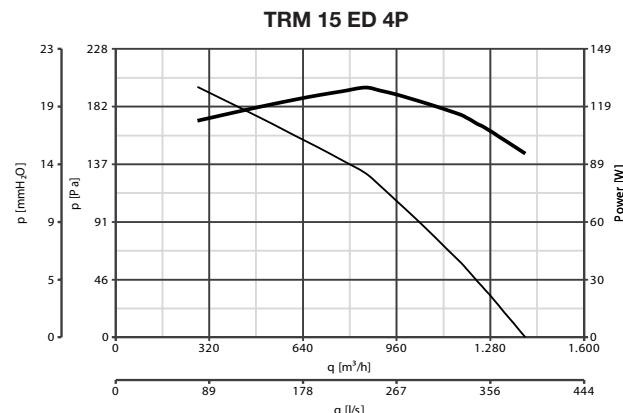
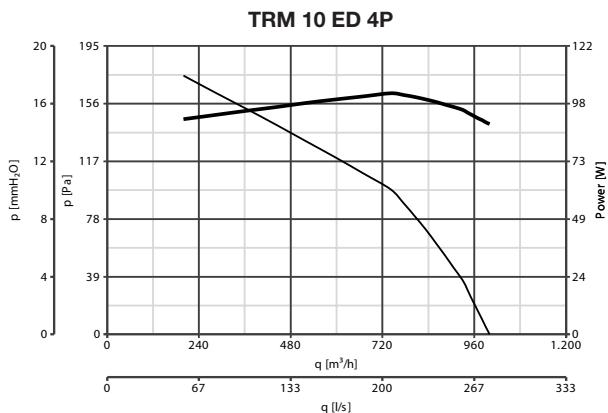
Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	15039 - 15041	
	IRM 40 - Three position single-phase speed controller	12922	15043 - 15046	
	IRM 50 - Three position single-phase speed controller	12928	15048	
	IRT 15 - Three position three-phase speed controller	12923	15040 - 15042 - 15045	
	IRT 35 - Three position three-phase speed controller	12924	15047 - 15049 - 15082 - 15085	
	IRT 40 - Three position three-phase speed controller	12927	15084 - 15087	
	IREM 3 - Single-phase speed controller	12931	15039 - 15041 - 15043 - 15046	
	IREM 5 - Single-phase speed controller*	12932	15048	
	IREM 9 - Single-phase speed controller **	12933	15080	
	IRET 6 - Three-phase speed controller	12934	15081 - 15082 - 15083 - 15084 - 15085 - 15086 - 15087	
	IRET INVERTER 1.2 - Three-phase speed controller INVERTER	12909	15040 - 15042 - 15045 - 15047	
	IRET INVERTER 2.2 - Three-phase speed controller INVERTER	12925	15049 - 15081 - 15082 - 15085	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12947	15083 - 15084 - 15086 - 15087	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12989	15919 - 15920	
	TR-CU - Sub-frame	10/15	22511	15039 - 15040 - 15041 - 15042
		20/30/50	22512	15043 - 15045 - 15046 - 15047 - 15048 - 15049
		70/100	22539	15080 - 15081 - 15082 - 15083
		100/150/180/210	22540	15084 - 15085 - 15086 - 15087 - 15919 - 15920
	TR-G - Protection grille	10/15	22700	15039 - 15040 - 15041 - 15042
		20/30/50	22710	15043 - 15045 - 15046 - 15047 - 15048 - 15049
		70/100	22506	15080 - 15081 - 15082 - 15083
		100/150/180/210	22507	15084 - 15085 - 15086 - 15087 - 15919 - 15920

* Can control multiple fans up to a maximum 5A.

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

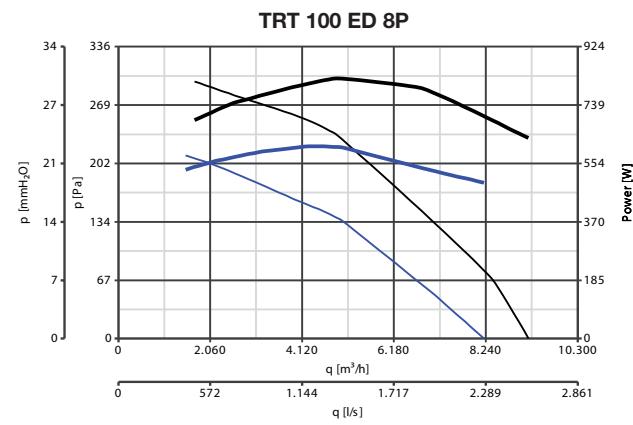
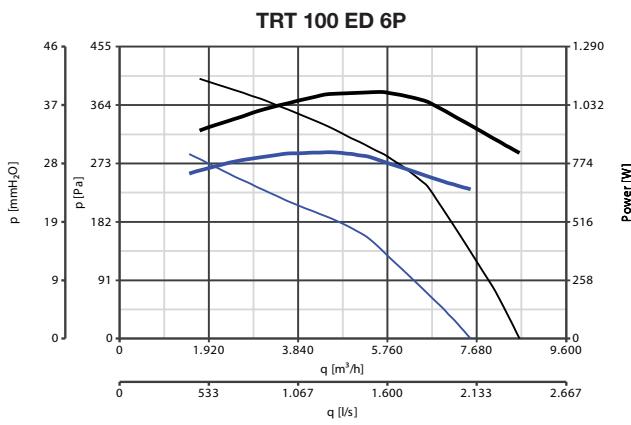
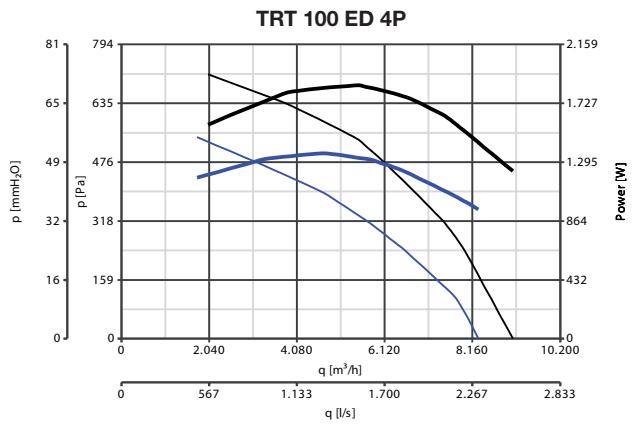
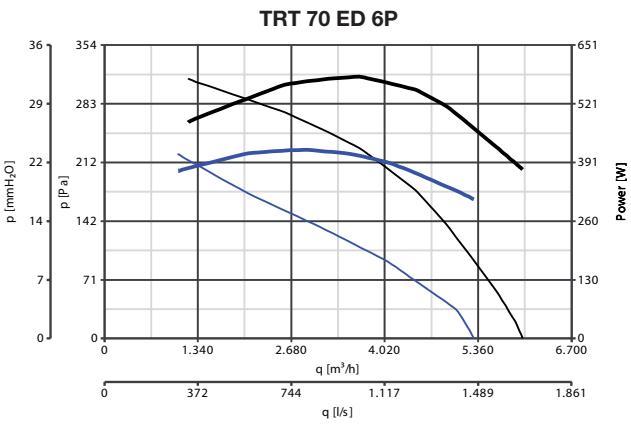
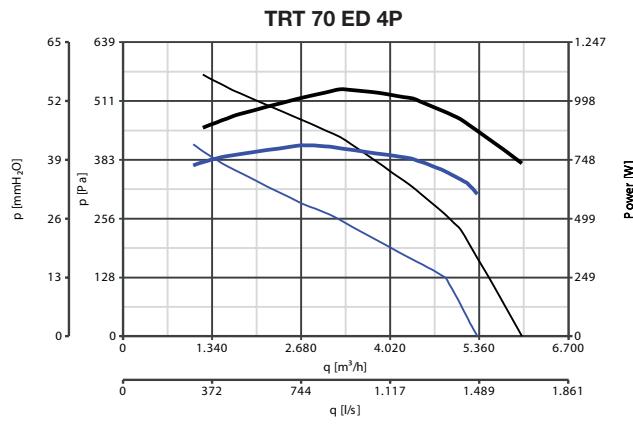
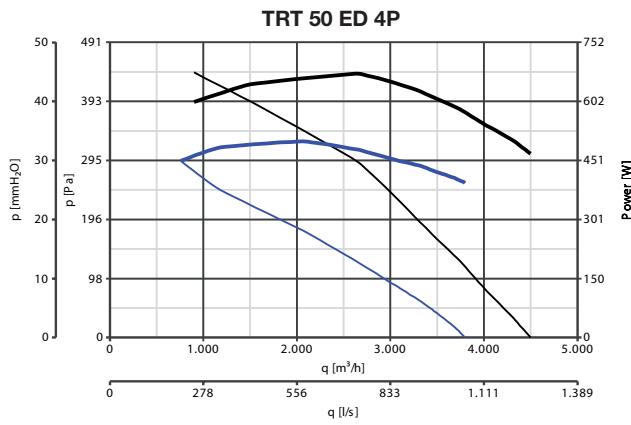
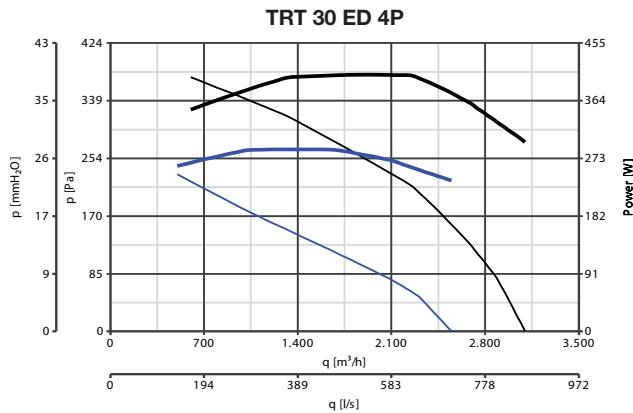
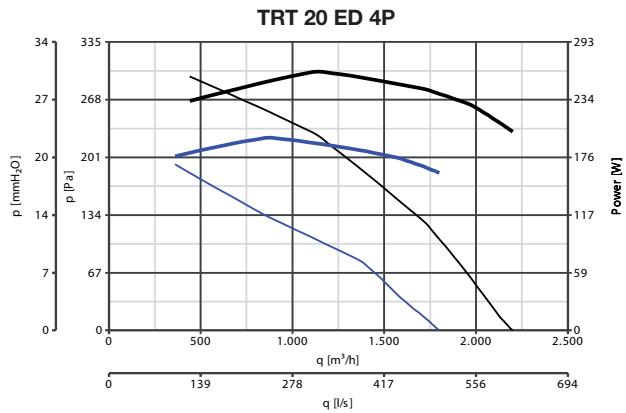
Description and sizes on page 162

PERFORMANCE CURVES

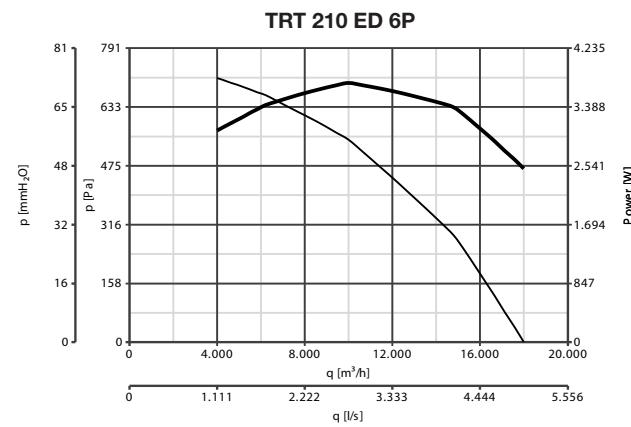
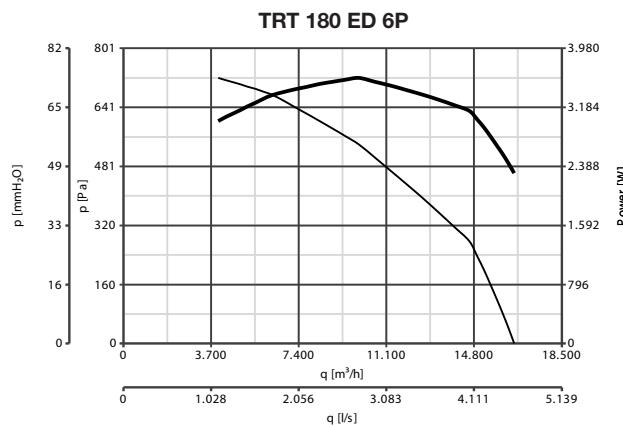
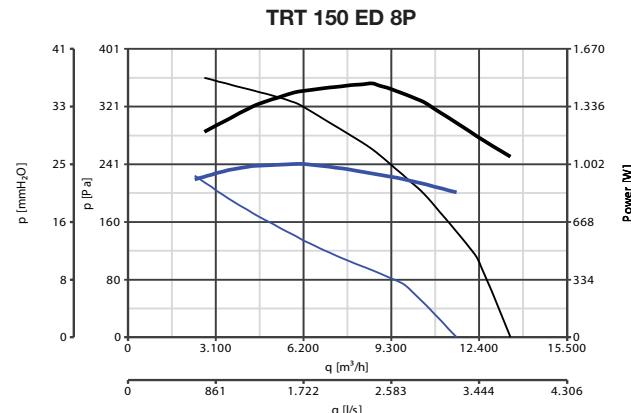
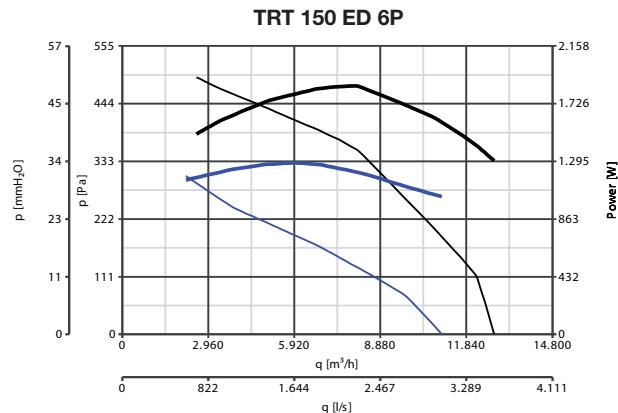




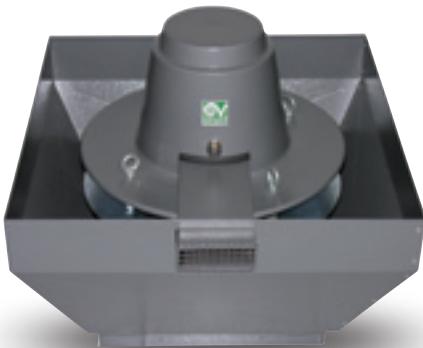
PERFORMANCE CURVES



PERFORMANCE CURVES



— Consumption — Delivery
— Consumption — Delivery



LONG LIFE 30.000 h

TORRETTE TR ED-V RANGE

Centrifugal roof fans with vertical discharge
for hot fumes extraction

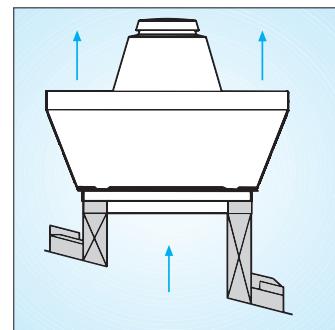
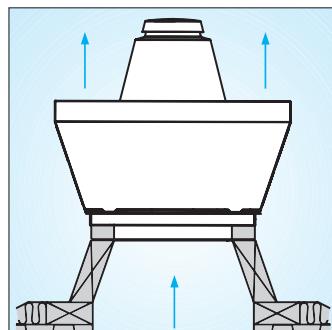
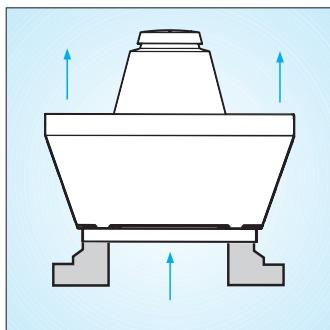
PRODUCT SPECIFICATIONS

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.
- Class 4, self ventilated motors equipped with ball bearings, standars sizes UNLMEC B5.
- Galvanised steel sheet fans with self cleaning, backward curved blades, self-ventilating, die casted aluminium hubs.
- 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 m³/h.
- Protection rating: IP55.
- Insulation class: I. (I)

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.

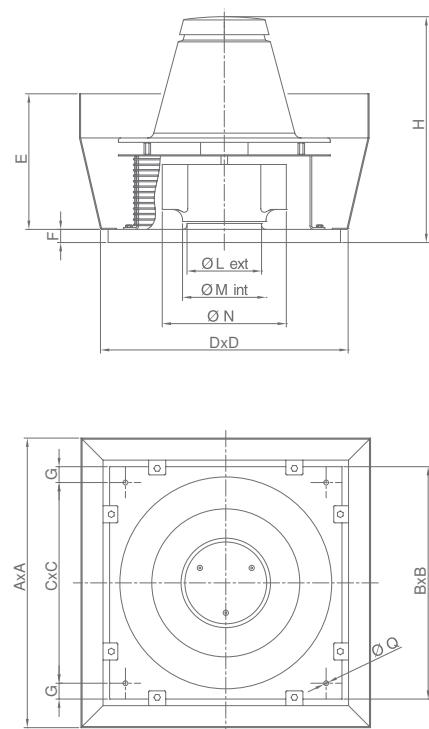


TECHNICAL DATA

	Models	Code	V ~ 50 Hz	W	A	Poles	RPM	Max Airflow		Max Pressure		Lp dB(A)* 3 m	°C Max	Kg
SINGLE-FASE	TRM 10 ED-V 4P	15160	230	100	0.45	4	1450	1000	278	20	196	56	400 °C/2h	23
	TRM 15 ED-V 4P	15162		130	0.57		1400	1400	389	24	235	58.5		24
	TRM 20 ED-V 4P	15164		250	1.20			2200	611	34	334	68		43
	TRM 30 ED-V 4P	15166		410	1.75		1380	3100	861	40	392	67		45
	TRM 50 ED-V 4P	15168		720	3.30		1350	4500	1250	52	510	72.5		51
	TRM 70 ED-V 4P	15170		1000	4.35			5800	1611	65	638	77		105
THREE-FASE	TRT 10 ED-V 4P	15161	400	75	0.15	6	1250	890	247	17	167	23	400 °C/2h	23
	TRT 15 ED-V 4P	15163		100	0.25		1400	1100	306	21	206	56		24
	TRT 20 ED-V 4P	15165		85	0.15		1100	1100	306	16	157	58.5		43
	TRT 30 ED-V 4P	15167		125	0.27		1400	1400	389	24	235	68		45
	TRT 50 ED-V 4P	15169		200	0.35		1100	1800	500	24	235	334		51
	TRT 70 ED-V 4P	15171		250	0.50		1420	2200	611	34	294	422		105
	TRT 70 ED-V 6P	15172		300	0.50		1100	2555	710	30	422	67		106
	TRT 100 ED-V 4P	15173		410	0.70		1380	3100	861	43	373	72.5		107
	TRT 100 ED-V 6P	15174		550	0.90			3800	1056	38	510	77		161
	TRT 100 ED-V 8P	15175		710	1.25			4500	1250	52	510	657		171
	TRT 150 ED-V 6P	15176		900	1.50		1200	5300	1472	52	510	77		172
	TRT 70 ED-V 4P	15177		1100	2.00		1400	5300	1472	67	510	657		176
	TRT 150 ED-V 8P	15178		450	0.90		620	760	6000	30	294	373		103
	TRT 180 ED-V 6P	15179		130	1.30		4.50	940	1667	38	461	74		106
	TRT 210 ED-V 6P	15179		1400	2.40		1870	1180	8300	72	706	84		107
	TRT 100 ED-V 8P	15174		1110	1.60		2.30	1400	9100	84	824	84		161
	TRT 100 ED-V 6P	15175		700	1.30		810	610	8200	2278	373	334		171
	TRT 150 ED-V 6P	15176		1470	2.45		1880	720	9200	2556	47	412		172
	TRT 150 ED-V 8P	15177		1170	2.15		1450	540	11600	3222	34	334		176
	TRT 180 ED-V 6P	15178		3200	6.11		6	16500	4583	79	775	83		180
	TRT 210 ED-V 6P	15179		3460	6.42		950	18000	5000	80	785	84		

The sound pressure values conform to standard ISO 3744.

DIMENSIONS



Models	Ø A	Ø B	Ø C	D	E	F	G	H	Ø L	Ø M	Ø N	Ø Q
TR 10 ED-V 4P	652	410	357	440	328	26.5	502	170	187.5	283	11	182
TR 15 ED-V 4P									219	236.5		
TR 20 ED-V 4P							586	219	265.5	359		
TR 30 ED-V 4P							604	244	265.5	404		
TR 50 ED-V 4P							631	278	298	454		
TR 70 ED-V 4P	1144	830	750	860	491	38	328	335	504	12	723	
TR 70 ED-V 6P							365	375	564			
TR 100 ED-V 4P							415	421	635			
TR 100 ED-V 6P							465	472	715			
TR 100 ED-V 8P	1462	980	900	1010	595	40	923	520	529	805	923	520
TR 150 ED-V 6P												
TR 150 ED-V 8P												
TR 180 ED-V 6P												
TR 210 ED-V 6P	1462	980	900	1010	595	40	923	520	529	805	923	520
TR 210 ED-V 6P												

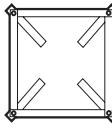
Dimensions (mm)



INDUSTRIAL VENTILATION

PRODUCT ACCESSORIES

USE IN CONJUNCTION WITH APPLIANCES HAVING SPEED SELECTORS OR CONTROLLERS IS NOT PERMITTED IN COUNTRIES IMPLEMENTING EUROPEAN REGULATION 327/2011/EU.

Models	Description	Code	Product	
	IRM 30 - Three position single-phase speed controller	12921	15160 - 15162	
	IRM 40 - Three position single-phase speed controller	12922	15164 - 15166	
	IRM 50 - Three position single-phase speed controller	12928	15168	
	IRT 15 - Three position three-phase speed controller	12923	15161 - 15163- 15165	
	IRT 35 - Three position three-phase speed controller	12924	15167- 15169- 15172 - 15175	
	IRT 40 - Three position three-phase speed controller	12927	15171 - 15174 - 15177	
	IREM 3 - Single-phase speed controller	12931	15160 - 15162 - 15164 - 15166	
	IREM 5 - Single-phase speed controller*	12932	15168	
	IREM 9 - Single-phase speed controller **	12933	15170	
	IRET 6 - Three-phase speed controller	12934	15171 - 15172 - 15173 - 15174 - 15175 - 15176- 15177	
	IRET INVERTER 1.2 - Three-phase speed controller INVERTER	12909	15161- 15163 - 15165 - 15167	
	IRET INVERTER 2.2 - Three-phase speed controller INVERTER	12925	15169 - 15171 - 15172 - 15175	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12947	15173 - 15174 - 15176- 15177	
	IRET INVERTER 5 - Three-phase speed controller INVERTER	12989	15178 - 15179	
	TR-CU - Sub-frame	10/15	22511	15160 - 15161 - 15162 - 15163
		20/30/50	22512	15164 - 15165 - 15166 - 15167 - 15168 - 15169
		70/100	22539	15170 - 15171 - 15172 - 15173
		100/150/180/210	22540	15174 - 15175 - 15176 - 15177 - 15178 - 15179
	TR-G - Protection grille	10/15	22700	15160 - 15161 - 15162 - 15163
		20/30/50	22710	15164 - 15165 - 15166 - 15167 - 15168 - 15169
		70/100	22506	15170 - 15171 - 15172 - 15173
		100/150/180/210	22507	15174 - 15175 - 15176 - 15177 - 15178 - 15179

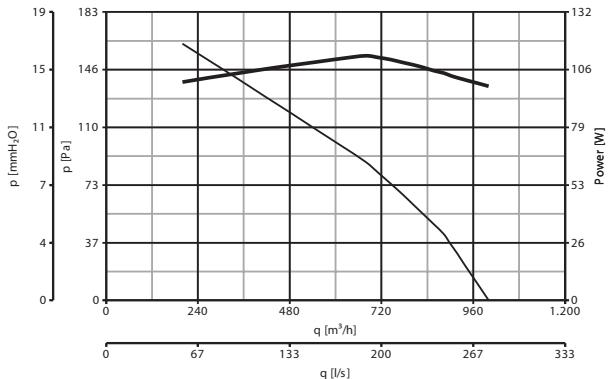
* Can control multiple fans up to a maximum 5A.

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

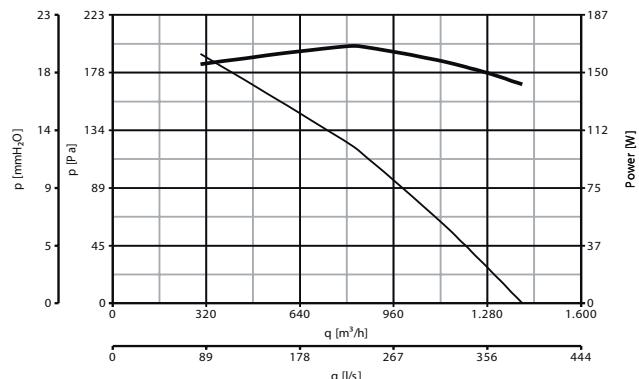
Description and sizes on page 162

PERFORMANCE CURVES

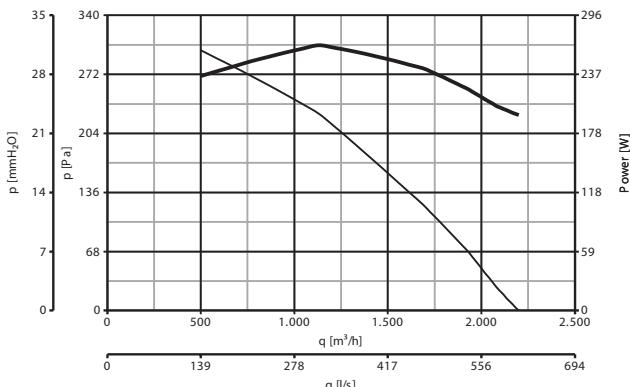
TRM 10 ED-V 4P



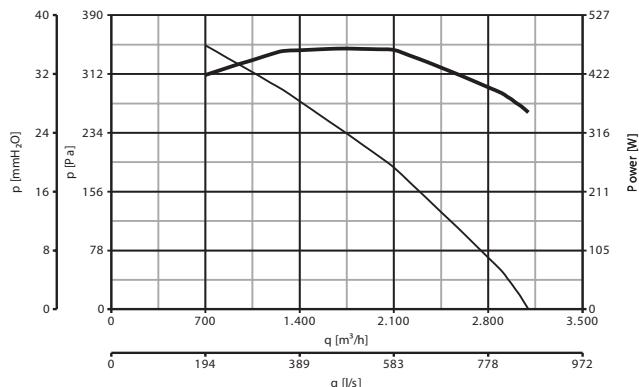
TRM 15 ED-V 4P



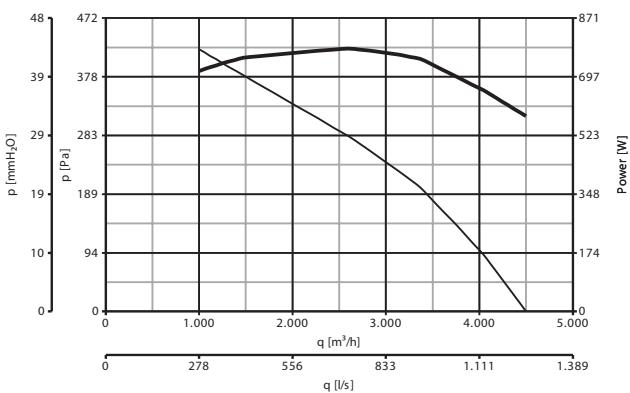
TRM 20 ED-V 4P



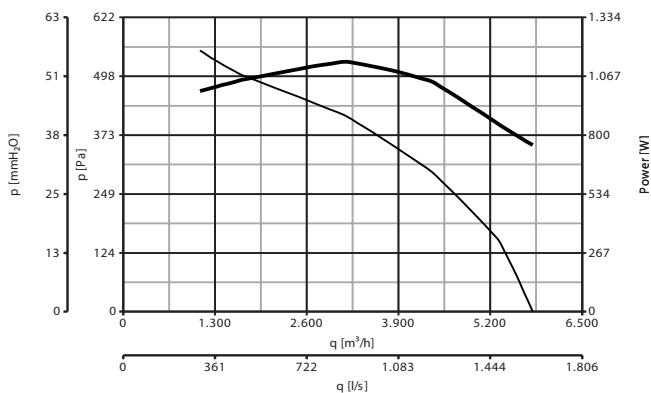
TRM 30 ED-V 4P



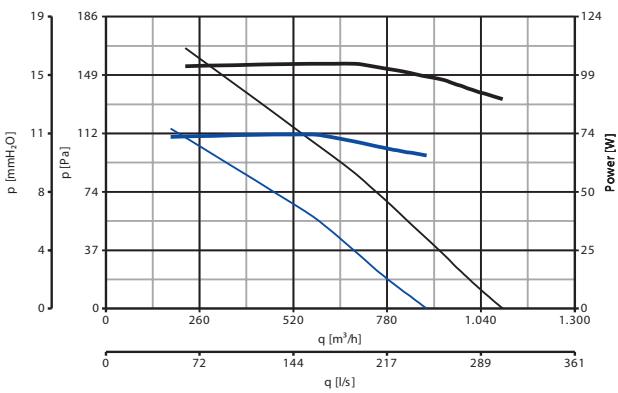
TRM 50 ED-V 4P



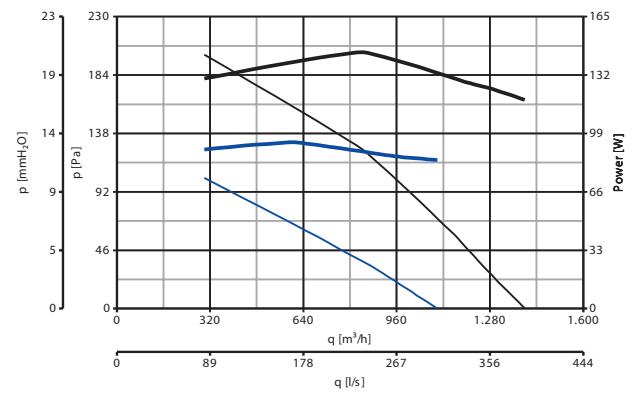
TRM 70 ED-V 4P

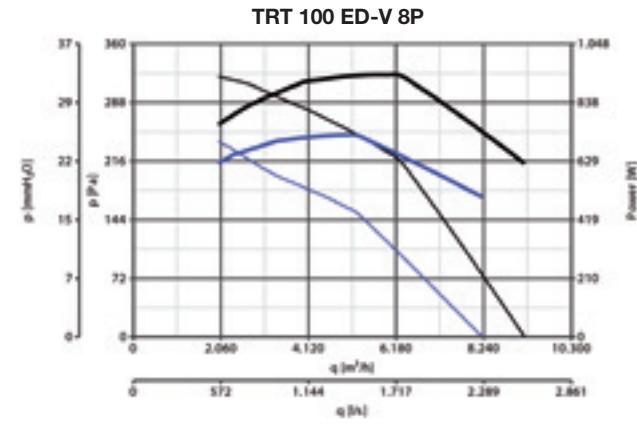
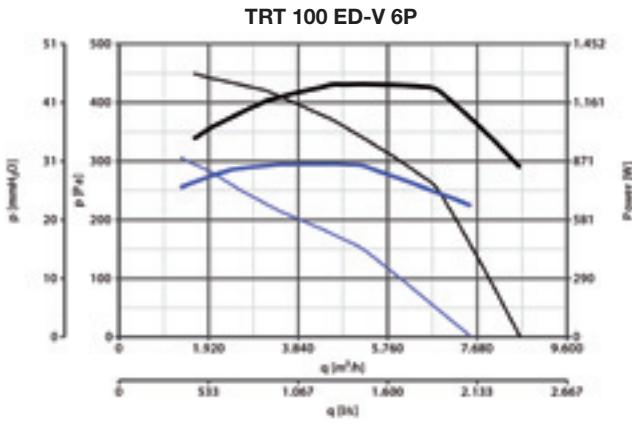
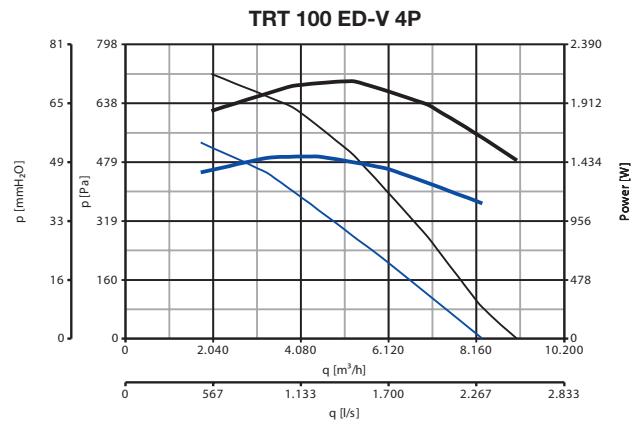
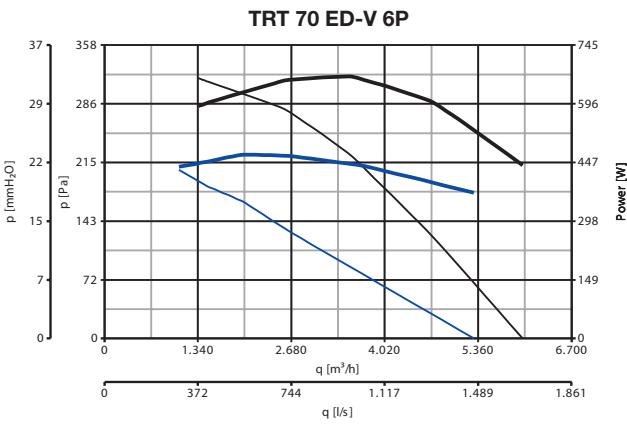
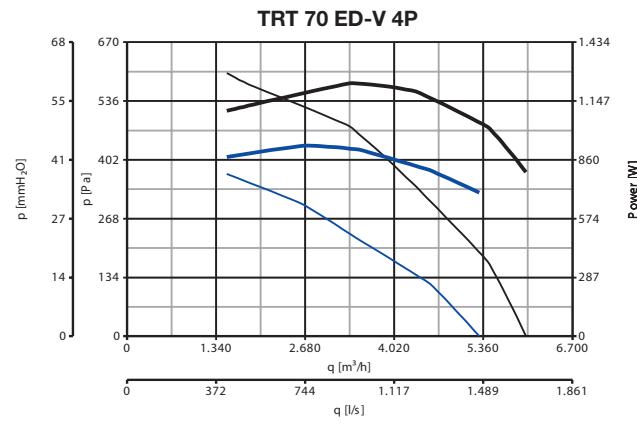
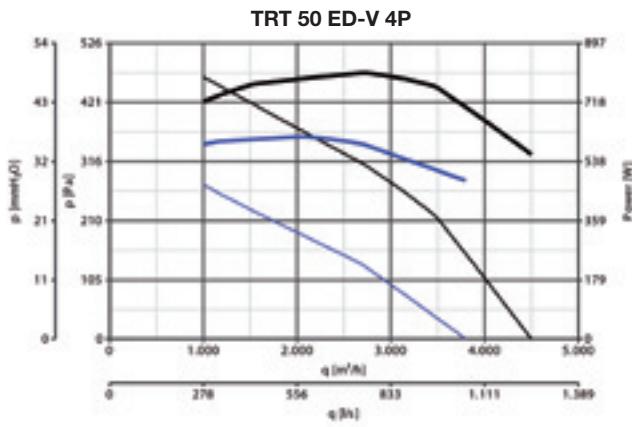
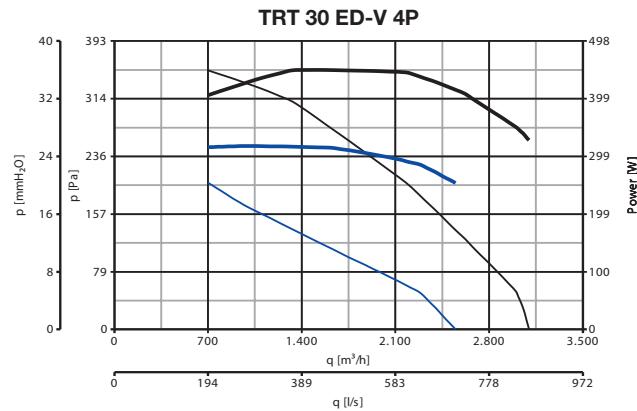
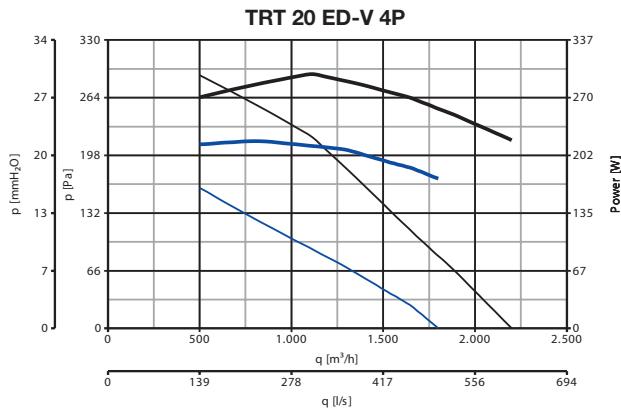


TRT 10 ED-V 4P

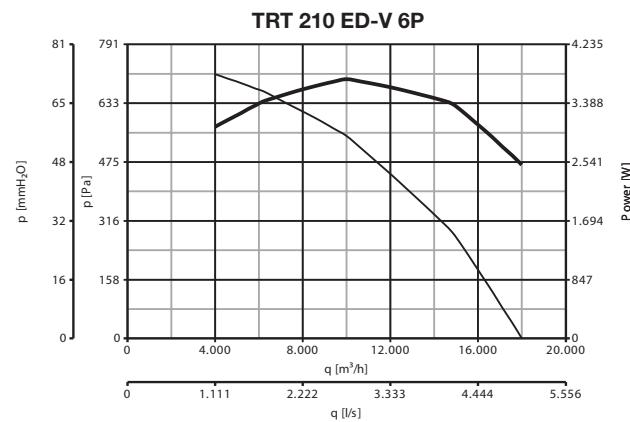
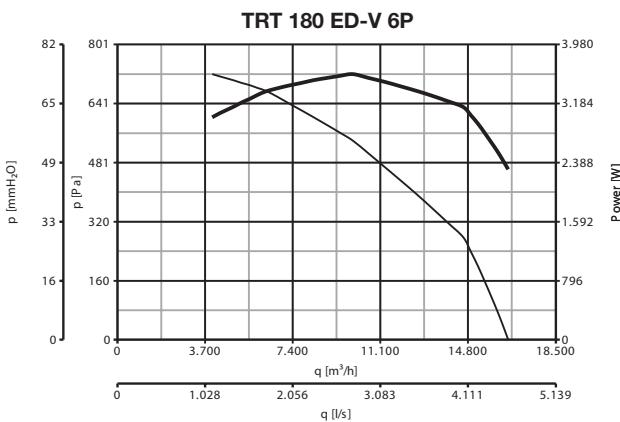
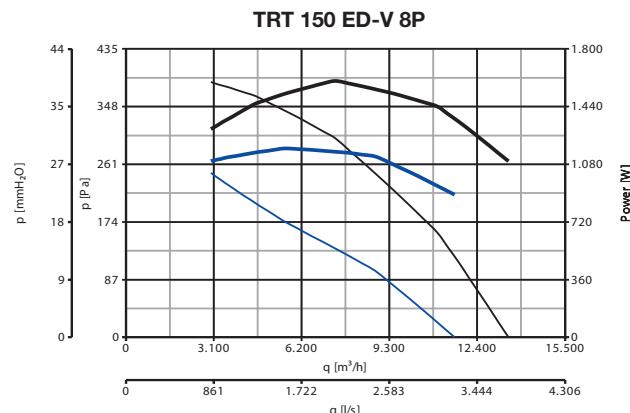
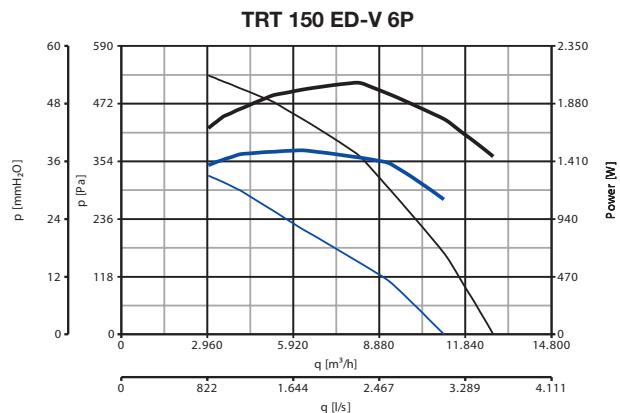


TRT 15 ED-V 4P



PERFORMANCE CURVES


PERFORMANCE CURVES



— Consumption — Delivery
— Consumption — Delivery



CERTIFICATION 400° C/2h

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	Model	Code	Notified Body
TRM 10 ED 4P	15039	TÜV	TRM 10 ED-V 4P	15160	APPLUS
TRT 10 ED 4P	15040	TÜV	TRT 10 ED-V 4P	15161	APPLUS
TRM 15 ED 4P	15041	TÜV	TRM 15 ED-V 4P	15162	APPLUS
TRT 15 ED 4P	15042	TÜV	TRT 15 ED-V 4P	15163	APPLUS
TRM 20 ED 4P	15043	TÜV	TRM 20 ED-V 4P	15164	APPLUS
TRT 20 ED 4P	15045	TÜV	TRT 20 ED-V 4P	15165	APPLUS
TRM 30 ED 4P	15046	TÜV	TRM 30 ED-V 4P	15166	APPLUS
TRT 30 ED 4P	15047	TÜV	TRT 30 ED-V 4P	15167	APPLUS
TRM 50 ED 4P	15048	TÜV	TRM 50 ED-V 4P	15168	APPLUS
TRT 50 ED 4P	15049	TÜV	TRT 50 ED-V 4P	15169	APPLUS
TRM 70 ED 4P	15080	TÜV	TRM 70 ED-V 4P	15170	APPLUS
TRT 70 ED 4P	15081	TÜV	TRT 70 ED-V 4P	15171	APPLUS
TRT 70 ED 6P	15082	TÜV	TRT 70 ED-V 6P	15172	APPLUS
TRT 100 ED 4P	15083	TÜV	TRT 100 ED-V 4P	15173	APPLUS
TRT 100 ED 6P	15084	TÜV	TRT 100 ED-V 6P	15174	APPLUS
TRT 100 ED 8P	15085	TÜV	TRT 100 ED-V 8P	15175	APPLUS
TRT 150 ED 6P	15086	TÜV	TRT 150 ED-V 6P	15176	APPLUS
TRT 150 ED 8P	15087	TÜV	TRT 150 ED-V 8P	15177	APPLUS
TRT 180 ED 6P	15919	APPLUS	TRT 180 ED-V 6P	15178	APPLUS
TRT 210 ED 6P	15920	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 <i>Specification for powered smoke and heat exhaust ventilators</i> 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 CPD 0860
- 0370 CPD 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

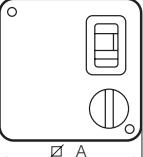
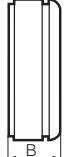
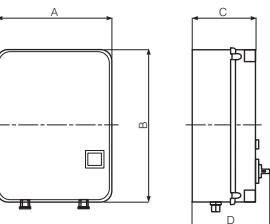
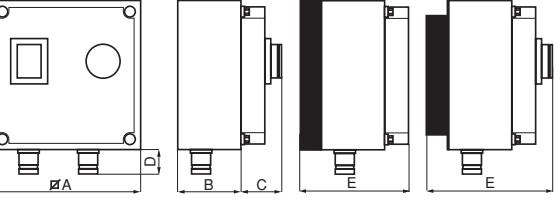
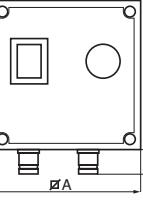
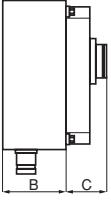
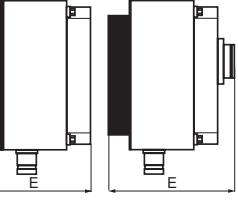
TR ED-V ROOF FANS (400 °C/2H) ARE CERTIFIED ACCORDING TO THE EN 12101-3 STANDARD FOR OPERATING AT MAX SPEED;
NOT SUITABLE FOR COUPLING WITH COMMUTARS AND SPEED CONTROLLERS IF USED FOR THESE FUNCTIONS.

NOTE



INDUSTRIAL VENTILATION ACCESSORIES

ACCESSORIES

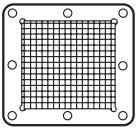
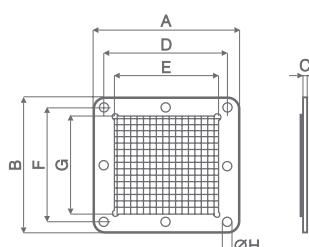
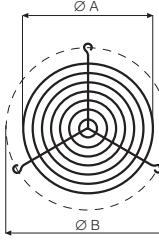
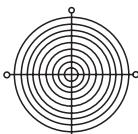
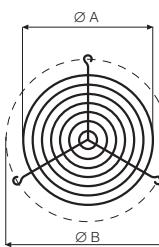
Models		Code	Dimensions																																																																
	C1.5 Non reversible variable electronic speed controller. Not suitable for products with timer or automatic shutters. Convertible to flush-mounted using SCB kit. Weight 0.2 Kg. Maximum load 200 W 1.5 A (C 1.5). Double insulation.	12966	 	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 40px;">$\square A$</td><td style="width: 40px;">B</td></tr> <tr> <td>120</td><td>43</td></tr> </table> Dimensions (mm)	$\square A$	B	120	43																																																											
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Models		Code	Dimensions					
			Models	Code	V ~ 50/60 Hz	A	Kg	
	IREM INVERTER and IRET INVERTER Electronic INVERTER speed controllers for single-phase and three-phase extractor fans.		IREM INVERTER 1.4	12935	220-240	1.4	2.4	
			IREM INVERTER 4.2	12936		4.2	3.1	
			IREM INVERTER 7	12937		7.0	3.6	
			IRET INVERTER 1.2	12909		1.2	3.2	
			IRET INVERTER 2.2	12925	380-480	2.2		
			IRET INVERTER 5	12947		5.0	3.8	
			IRET INVERTER 8	12989		8.0	4.0	
IREM INVERTER and IRET INVERTER Electronic INVERTER speed controllers for single-phase and three-phase extractor fans.			Range of frequency in out (Hz): 0.2 - 400 Protection rating: IP20. Insulation class: Cl. I.					
								
12935		12935	IREM INVERTER 1.4	12935	190	280	180	
12936		12936	IREM INVERTER 4.2	12936				
12937		12937	IREM INVERTER 7	12937				
12909		12909	IRET INVERTER 1.2	12909				
12925		12925	IRET INVERTER 2.2	12925				
12947		12947	IRET INVERTER 5	12947				
12989		12989	IRET INVERTER 8	12989				
			Dimensions (mm)					



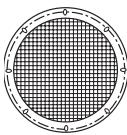
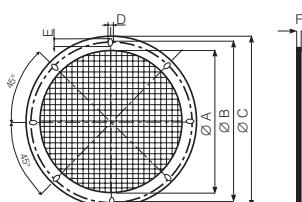
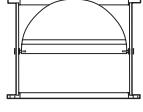
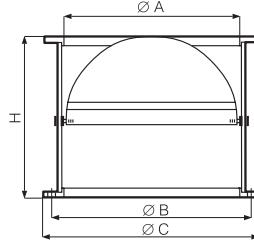
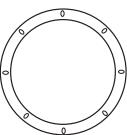
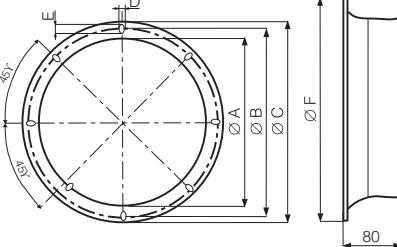
ACCESSORIES

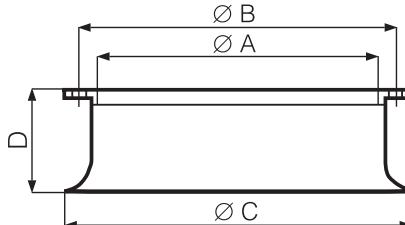
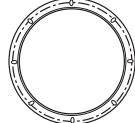
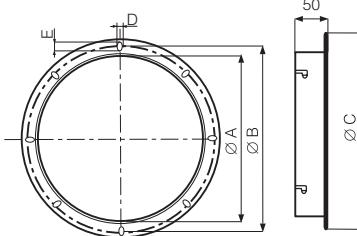
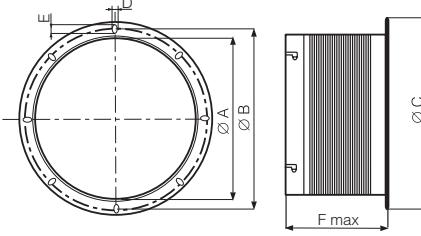
Models		Code	Dimensions																																		
	IREM INVERTER and IRET INVERTER M Electronic INVERTER speed controllers for single-phase and three-phase extractor fans.																																				
	Products of the IREM / IRET INVERTER M series are compact, reliable and efficient frequency converters, simple and safe to use, especially suitable for controlling the speed of one or more fans driven by single-phase or three-phase motors. The inclusion of an all-pole sinusoidal filter (phase-phase and phase-earth), integrated directly into each device of the range, guarantees correct speed control for every fan of compatible rated load without jeopardizing the reliability and durability of the motor, even if not specifically designed for inverter-controlled operation, and dispensing with the need for screened power cables. The IREM/IRET INVERTER M range comprises 4 models, in single-phase (IREM M) and three-phase (IRET M) versions, complete with filters and with wall-mounting enclosures rated dust-tight and water-tight to a standard allowing installation outdoors. Models are differentiated from one another by maximum permissible load (A); accordingly, it is important to make a correct evaluation of the maximum overall current drawn by the driven fan, or fans, which must always be less than the maximum rated current of the selected inverter device.																																				
12815 12816 12817 12818	Main technical specifications: <ul style="list-style-type: none"> No limit on maximum length of power cables to the driven fan, even when unscreened cables are utilized. Maximum length of signal cable 30 m, in the case of screened conductors (or 20 m using unscreened cables); for longer cable runs, signal amplifiers will be needed. Possibility of controlling multiple fans, depending on the maximum current value. Wall-mounting enclosures with ingress protection IP54. Analog input for speed selection (signal 0-10 V; 0-20 mA or PWM). Digital input (24 V) for the connection of external devices, typically control potentiometers. Built-in motor protection; facility of connection to thermostats "TB" or thermistors "TP"; where multiple fans are controlled simultaneously, thermostats or thermistors must be connected in series. Switching frequency 16 kHz (guaranteeing smooth and quiet operation of the interlocked motor). Built-in EMC and Sinusoidal Filters RH up to 85%, without condensation.. Maximum altitude: 4000 m (at elevations above 1000 m, the rated current must be reduced by 5% per 1000 m). 																																				
	POTENIOMETR POTI 10K IP54 Potentiometer for IREM INVERTER and IRET INVERTER M (code 12815, 12818, 12816, 12817). Protection rating: IP54. Insulation class Cl. I.	12819	<table border="1"> <thead> <tr> <th>Models</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>IREM INVERTER 4 M</td> <td>240</td> <td>284</td> <td>115</td> </tr> <tr> <td>IREM INVERTER 6 M</td> <td>250</td> <td>302</td> <td>195.5</td> </tr> <tr> <td>IRET INVERTER 2.5 M</td> <td>240</td> <td>284</td> <td>115</td> </tr> <tr> <td>IRET INVERTER 5 M</td> <td>250</td> <td>302</td> <td>195.5</td> </tr> </tbody> </table> <p>Dimensions (mm)</p> <table border="1"> <thead> <tr> <th>Models</th> <th>A</th> <th>B</th> <th>C</th> <th>Kg</th> </tr> </thead> <tbody> <tr> <td>POTENIOMETR</td> <td>82</td> <td>82</td> <td>65</td> <td>0.14</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>					Models	A	B	C	IREM INVERTER 4 M	240	284	115	IREM INVERTER 6 M	250	302	195.5	IRET INVERTER 2.5 M	240	284	115	IRET INVERTER 5 M	250	302	195.5	Models	A	B	C	Kg	POTENIOMETR	82	82	65	0.14
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ACCESSORIES

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	MPC RP Protection grille (Vortice MPC-E). 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	 <table border="1"><thead><tr><th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>Ø C</th><th>DxE</th><th>F</th></tr></thead><tbody><tr><td>MPC RP 250</td><td>22527</td><td>260</td><td>292</td><td>325</td><td rowspan="4">9x14</td><td rowspan="4">8</td></tr><tr><td>MPC RP 250</td><td>22528</td><td>312</td><td>366</td><td>399</td></tr><tr><td>MPC RP 250</td><td>22529</td><td>364</td><td>405</td><td>438</td></tr><tr><td>MPC RP 250</td><td>22530</td><td>414</td><td>448</td><td>481</td></tr></tbody></table> <p>Dimensions (mm)</p>	Models	Code	Ø A	Ø B	Ø C	DxE	F	MPC RP 250	22527	260	292	325	9x14	8	MPC RP 250	22528	312	366	399	MPC RP 250	22529	364	405	438	MPC RP 250	22530	414	448	481			
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	TR-S Galvanized sheet-metal backdraught shutter (Torrette RF-EU, TR E, TR E-V, TR ED, TR ED-V). Fitted to the appliance delivery side to prevent air from re-entering when the appliance is switched off.	22500 22510 22541 22542	 <table border="1"><thead><tr><th>Models</th><th>Code</th><th>Ø A</th><th>B</th><th>Ø C</th><th>Ø H</th></tr></thead><tbody><tr><td>TR-S 10/15</td><td>22500</td><td>225</td><td>254</td><td>270</td><td rowspan="4">210</td></tr><tr><td>TR-S 20/30/50</td><td>22510</td><td>327</td><td>359</td><td>375</td></tr><tr><td>TR-S 70/100</td><td>22541</td><td>430</td><td>500</td><td>520</td><td>260</td></tr><tr><td>TR-S 100/150/180/210</td><td>22542</td><td>570</td><td>640</td><td>660</td><td>330</td></tr></tbody></table> <p>Dimensions (mm)</p>	Models	Code	Ø A	B	Ø C	Ø H	TR-S 10/15	22500	225	254	270	210	TR-S 20/30/50	22510	327	359	375	TR-S 70/100	22541	430	500	520	260	TR-S 100/150/180/210	22542	570	640	660	330			
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	TR-B Section connector. (Torrette RF-EU, TR E, TR E-V, TR ED, TR ED-V). To facilitate air entry from the intake side.	22600 22610 22508 22509		<table border="1"> <thead> <tr> <th>Models</th><th>Code</th><th>Ø A</th><th>B</th><th>Ø C</th><th>D</th></tr> </thead> <tbody> <tr> <td>TR-B 10/15</td><td>22600</td><td>275</td><td rowspan="2">80</td><td>225</td><td>254</td></tr> <tr> <td>TR-B 20/30/50</td><td>22610</td><td>380</td><td>330</td><td>359</td></tr> <tr> <td>TR-B 70/100</td><td>22508</td><td>480</td><td rowspan="2">100</td><td>430</td><td>500</td></tr> <tr> <td>TR-B 100/150/180/210</td><td>22509</td><td>620</td><td>570</td><td>640</td></tr> </tbody> </table>	Models	Code	Ø A	B	Ø C	D	TR-B 10/15	22600	275	80	225	254	TR-B 20/30/50	22610	380	330	359	TR-B 70/100	22508	480	100	430	500	TR-B 100/150/180/210	22509	620	570	640	Dimensions (mm)						
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	C-RA Flanged fitting for intake tube (Vorticent C-E). To make it easier to join the appliance to the intake or outlet pipe.	22825 22826 22828 22829 22830 22832 22833 22834 22835	 <table border="1"> <thead> <tr> <th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>C</th><th>Ø D</th><th>Ø E</th><th>F</th></tr> </thead> <tbody> <tr><td>C-RA 10</td><td>22825</td><td>111.5</td><td>100</td><td>83</td><td>80</td><td>7</td><td>0.8</td></tr> <tr><td>C-RA 15</td><td>22826</td><td>141</td><td>128</td><td>114</td><td>108</td><td>7</td><td>0.8</td></tr> <tr><td>C-RA 20/25</td><td>22828</td><td>152</td><td>132</td><td>117</td><td>108</td><td>7</td><td>1</td></tr> <tr><td>C-RA 30</td><td>22829</td><td>190</td><td>170</td><td>141</td><td>132</td><td>7</td><td>1</td></tr> <tr><td>C-RA 31/35</td><td>22830</td><td>240</td><td>210</td><td>169</td><td>170</td><td>8.5</td><td>1</td></tr> <tr><td>C-RA 37</td><td>22832</td><td>282</td><td>255</td><td>224</td><td>199</td><td>8.5</td><td>1</td></tr> <tr><td>C-RA 40</td><td>22833</td><td>282</td><td>255</td><td>229</td><td>199</td><td>8.5</td><td>1</td></tr> <tr><td>C-RA 45</td><td>22834</td><td>320</td><td>290</td><td>235</td><td>240</td><td>8.5</td><td>1</td></tr> <tr><td>C-RA 46</td><td>22835</td><td>420</td><td>390</td><td>270</td><td>288</td><td>8.5</td><td>1</td></tr> </tbody> </table> <p>Dimesions (mm)</p>	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
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	MPC SU Mounting feet. To fix the fan to the wall.	22531 22532 22533 22534	 <table border="1"> <thead> <tr> <th>Models</th><th>Code</th><th>A</th><th>Ø B</th><th>C</th><th>D</th></tr> </thead> <tbody> <tr><td>MPC SU 250</td><td>22531</td><td>240</td><td>292</td><td></td><td>120</td></tr> <tr><td>MPC SU 300</td><td>22532</td><td>295</td><td>366</td><td></td><td>25</td></tr> <tr><td>MPC SU 350</td><td>22533</td><td>320</td><td>405</td><td></td><td>130</td></tr> <tr><td>MPC SU 400</td><td>22534</td><td>360</td><td>448</td><td></td><td>140</td></tr> </tbody> </table> <p>Dimesions (mm)</p>	Models	Code	A	Ø B	C	D	MPC SU 250	22531	240	292		120	MPC SU 300	22532	295	366		25	MPC SU 350	22533	320	405		130	MPC SU 400	22534	360	448		140																																																		
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	Support for wall mounting with fixings (Vorticent C E). To fix the fan to the wall.	22836 22837 22838 22839 22840			<table border="1"> <thead> <tr> <th>Models</th><th>Code</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>Ø G</th><th>H</th><th>MEC</th></tr> </thead> <tbody> <tr> <td>C-MS 20/25</td><td>22836</td><td>112</td><td>90</td><td>120</td><td>187</td><td>220</td><td>152</td><td>8</td><td>125</td><td>71</td></tr> <tr> <td>C-MS 30</td><td>22837</td><td>112</td><td>90</td><td>120</td><td>187</td><td>220</td><td>160</td><td>8</td><td>170</td><td>71</td></tr> <tr> <td>C-MS 31/35</td><td>22838</td><td>112</td><td>90</td><td>120</td><td>187</td><td>220</td><td>160</td><td>8</td><td>200</td><td>71</td></tr> <tr> <td>C-MS 37/40</td><td>22839</td><td>125</td><td>100</td><td>140</td><td>200</td><td>235</td><td>165</td><td>10</td><td>230</td><td>80</td></tr> <tr> <td>C-MS 45</td><td>22840</td><td>140</td><td>125</td><td>175</td><td>215</td><td>250</td><td>180</td><td>10</td><td>300</td><td>90</td></tr> </tbody> </table>	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
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NOTE

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Cod. 5.170.084.667

01/15

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