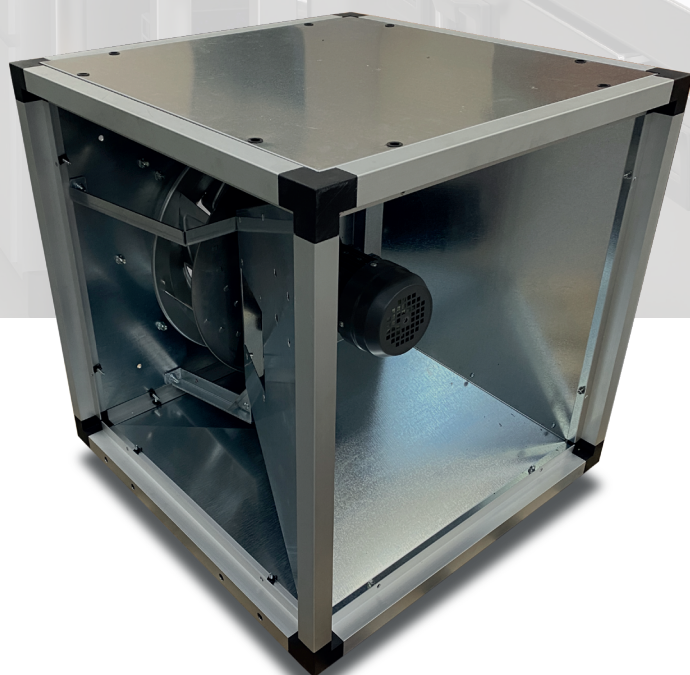




VORT QBK SAL-KC EVO

Cabinet fans designed to extract hot, humid and dirty air.





VORTICE S.p.A. is part of a multinational group, [1] **VORTICE GROUP**, which operates through its own companies or local distributors in over 90 countries worldwide and has a rich product portfolio that guarantees air quality and climate comfort. The headquarters of VORTICE S.p.A are in Tribiano (Milan).



The VORTICE GROUP also includes:

[1]
VORTICE LIMITED, the UK subsidiary of VORTICE S.p.A., established in 1977 and based in Burton on Trent.

[2]
BUSINESS UNIT INDUSTRIAL, born from the acquisition in 2010 of Loran srl, based in Isola della Scala (VR). 2024 become Vortice's BUSINESS UNIT INDUSTRIAL.

[3]
VORTICE VENTILATION SYSTEM, a company inaugurated in 2013 with headquarters in Changzhou, China.

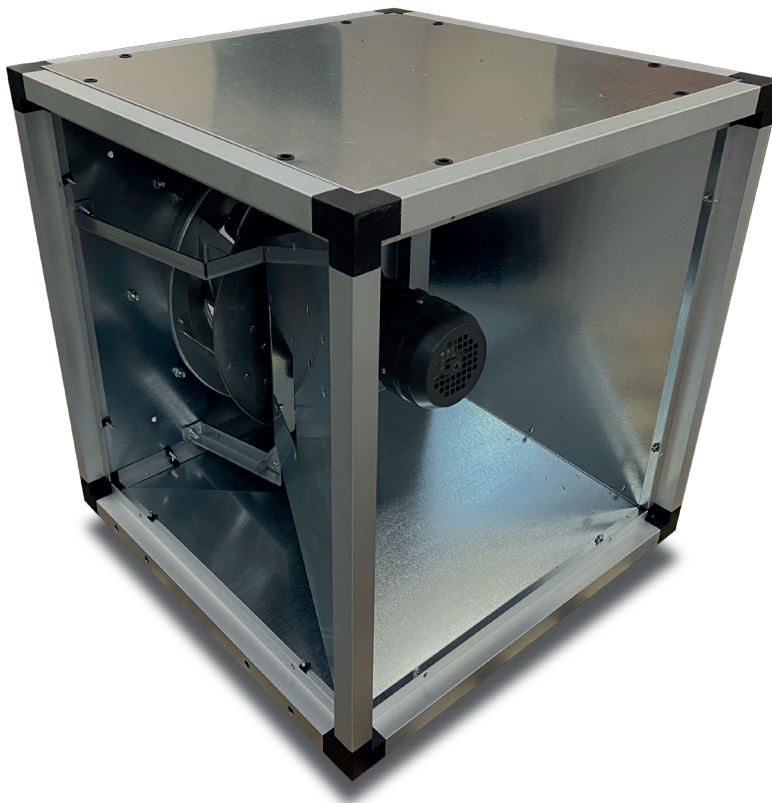
[4]
VORTICE LATAM S.A., based in Alajuela in Costa Rica, established in 2012.

[5]
CÁSALS VENTILACIÓN AIR INDUSTRIAL S.L., historic Spanish brand, based in Sant Joan de les Abadesses, Girona, acquired in 2019.



VORT QBK SAL-KC EVO

Cabinet fans designed to extract hot, humid and dirty air.



3

Certifications

Electromagnetic compatibility standards:

- EN 55014-1
- EN 55014-2
- EN 61000-3-2
- EN 61000-3-3

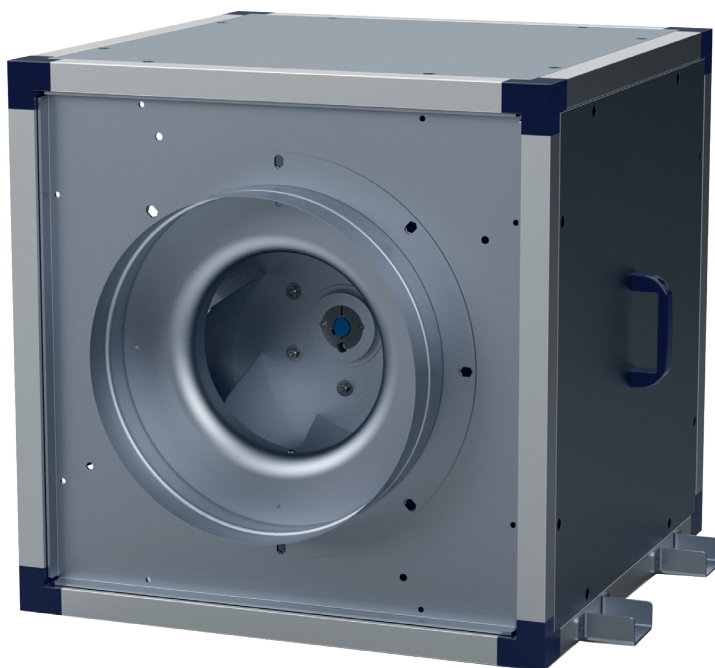
Safety Regulations:

- EN 60335-1
- EN 60335-2-80

European directives and regulations for CE marking

- Machinery Directive (2006/42/CE)
- Compatibility Directive (2014/30/UE)
- RED Directive (2014/53/UE)
- RoHS Directive (2011/65/UE)
- RAEE Directive (2012/19/UE)
- Ecodesign Directive (2009/125/EC)
- Electric Motors European Regulation (2019/1781/UE)
- Fan Regulation (2011/327/UE)
- Ventilation Unit Regulation (2014/1253/UE)

VORT QBK SAL-KC EVO



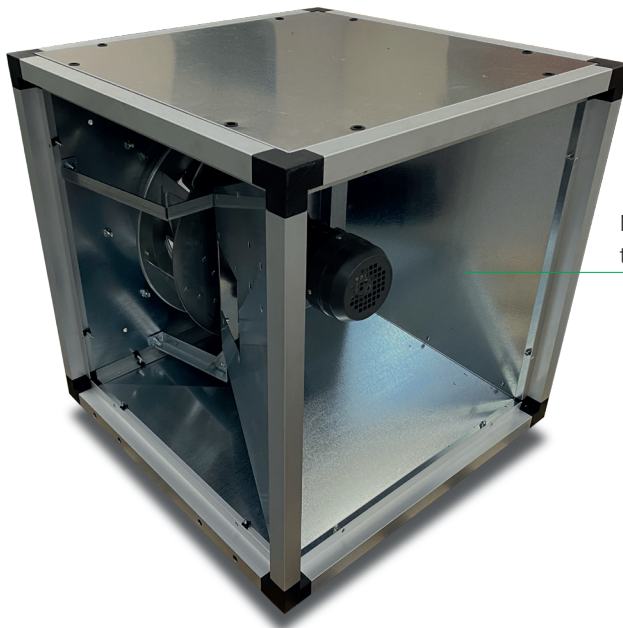
4

Ventilating boxes with suction and delivery at 90°, ideal for air renewal in buildings and factories, are suitable for the extraction of hot fumes, humid and polluted air, for suction from industrial kitchens and therefore particularly suitable for the treatment of air rich in fatty and oily residues.

The **Vort QBK SAL-KC EVO** Series is divided into **21 models** equipped with 2-, 4- and 6-pole motors, with **single-phase** and **three-phase power supply**, also available in dual polarity version (Dahlander motors).



CONSTRUCTION FEATURES



Motor side open for immediate access to the safety switch.

5

- **Structure** in 30 mm aluminium profiles enclosed by nylon corners.
- 25 mm **thick sandwich** panels in galvanised sheet metal, insulated by rock wool, fire resistant (class A1), density 90 kg/m³. All panels are equipped with a quick fixing system for easy assembly and disassembly, when necessary, for cleaning, maintenance and reconfiguration of the product.
- Circular **suction nozzles** for easier connection to the delivery ducts.
- Asynchronous squirrel cage **AC motors** with IP55 protection, class F, isolated from the air flow to allow the prolonged treatment of fluids at high temperatures (up to 120°C for three-phase models), contaminated by the presence of greasy or oily residues.
- **Single-phase power supply** (230V/50Hz) for M versions, three-phase (230-400V/50Hz or 400-690V/50Hz depending on size) for T models at one speed, three-phase (400V/50Hz) for T models with double polarity and, consequently, double speed.
- **High efficiency centrifugal impellers** of the reverse blade type, self-cleaning, in galvanised steel sheet, directly coupled to the motors, statically and dynamically balanced.
- **Interchangeable panels**; the calibration panels are equipped with a handle.
- **Anti-volatile grid** in galvanised steel to protect the delivery.
- **Condensate water collection tray** with stainless steel discharge.
- Integrated and wired **safety switch**.

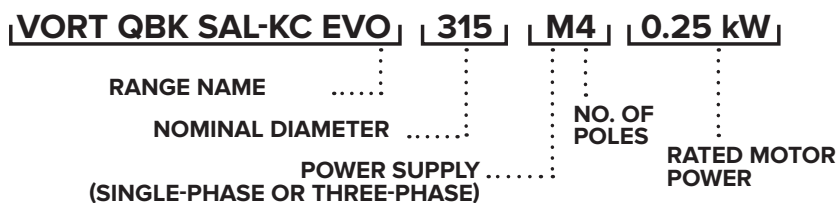
VORT QBK SAL-KC EVO
Cabinet fans designed to extract hot, humid and dirty air

Technical data

PRODUCTS	CODE	Nom. Ø intake inlets	Hz	m³/h	W motor	IP motor protection class	KG
VORT QBK SAL-KC EVO 315 M4 0.25KW	43151	315	50	2540	250	IP55	37
VORT QBK SAL-KC EVO 315 T2 1.5KW	43152	315	50	5160	1500	IP55	38
VORT QBK SAL-KC EVO 315 T4 0.25KW	43153	315	50	2540	250	IP55	37
VORT QBK SAL-KC EVO 355 M4 0.25KW	43154	355	50	3540	250	IP55	44
VORT QBK SAL-KC EVO 355 T4 0.25KW	43155	355	50	3540	250	IP55	44
VORT QBK SAL-KC EVO 400 M4 0.55KW	43156	400	50	5240	550	IP55	59
VORT QBK SAL-KC EVO 400 T4 0.55KW	43157	400	50	5240	550	IP55	59
VORT QBK SAL-KC EVO 450 T4 1.1KW	43158	450	50	7720	1100	IP55	80
VORT QBK SAL-KC EVO 500 T4 1.5KW	43159	500	50	10230	1500	IP55	105
VORT QBK SAL-KC EVO 500 T6 0.55KW	43160	500	50	6720	550	IP55	102
VORT QBK SAL-KC EVO 560 T4 3KW	43161	560	50	14740	3000	IP55	122
VORT QBK SAL-KC EVO 560 T6 1.1KW	43162	560	50	9820	1100	IP55	120
VORT QBK SAL-KC EVO 630 T4 5.5KW	43163	630	50	22100	5500	IP55	151
VORT QBK SAL-KC EVO 630 T6 1.5KW	43164	630	50	14530	1500	IP55	151
VORT QBK SAL-KC EVO 315 T4/8 0.25/0.03KW	43165	315	50	2540	250/30	IP55	37
VORT QBK SAL-KC EVO 355 T4/8 0.25/0.03KW	43166	355	50	3540	250/30	IP55	44
VORT QBK SAL-KC EVO 400 T4/8 0.75/0.12KW	43167	400	50	5240	750/120	IP55	59
VORT QBK SAL-KC EVO 450 T4/8 1.1/0.18KW	43168	450	50	7720	1100/120	IP55	80
VORT QBK SAL-KC EVO 500 T4/8 1.5/0.25KW	43169	500	50	10230	1500/250	IP55	105
VORT QBK SAL-KC EVO 560 T4/8 3/0.55KW	43170	560	50	14740	3000/550	IP55	122
VORT QBK SAL-KC EVO 630 T4/8 5.5/1.1KW	43171	630	50	22100	5500/1100	IP55	151

For the exact working point, refer to the curves shown in the following pages.

Range name





STRENGTHS

01 WIDE RANGE OF APPLICATIONS

Ideal for the ventilation of industrial spaces and industrial or commercial kitchens.
Installation flexibility due to the possibility of repositioning the panels according to needs.
Possibility of installation outdoors using the optional rain cover.

02 WIDE RANGE OF USE

The high temperatures of the treated air (up to 120°C) allow the use of Vort QBK SAL-KC EVO in a particularly broad context of conditions of use.

03 NOISELESS

The casing made from sandwich panels with internal sound-absorbing insulation ensures a significant containment of noise emissions, favouring the use of the products even in the vicinity of inhabited premises.

04 RELIABILITY

The robust construction and high quality of the fan motors adopted ensure the reliable operation over time of the products, reducing operating costs.

05 SAFETY

The integrated safety button, the discharge-side grid and the complete compliance of the products with current international safety regulations prevent the risks of damage to people and property.

06 INSTALLATION FLEXIBILITY

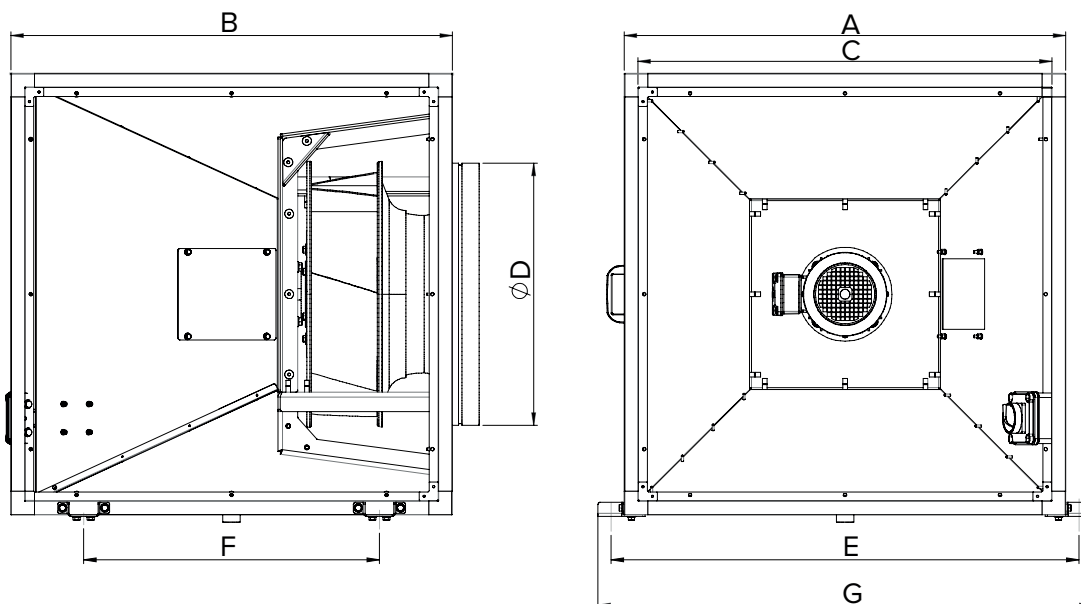
Easily reconfigurable panels and quick coupling/uncoupling systems make it possible to adapt quickly position the product to the most convenient tracing of the ducts.

07 REDUCED CONSUMPTION

The high efficiency of the motor fans, combined with the possible speed regulation, and therefore of the performance provided, using frequency-varying regulators (INVERTERS), offered as an option, allows to optimise consumption as needs change.

VORT QBK SAL-KC EVO
Cabinet fans designed to extract hot, humid and dirty air

Dimensions

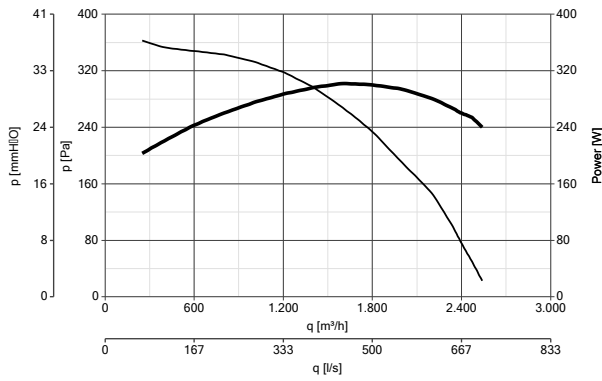


PRODUCTS	CODE	A	B	C	D	E	F	G
VORT QBK SAL-KC EVO 315 M4 0.25KW	43151	585	585	525	353	647	275	697
VORT QBK SAL-KC EVO 315 T2 1.5KW	43152	585	585	525	353	647	275	697
VORT QBK SAL-KC EVO 315 T4 0.25KW	43153	585	585	525	353	647	275	697
VORT QBK SAL-KC EVO 355 M4 0.25KW	43154	650	650	590	398	712	340	762
VORT QBK SAL-KC EVO 355 T4 0.25KW	43155	650	650	590	398	712	340	762
VORT QBK SAL-KC EVO 400 M4 0.55KW	43156	730	730	670	448	792	420	842
VORT QBK SAL-KC EVO 400 T4 0.55KW	43157	730	730	670	448	792	420	842
VORT QBK SAL-KC EVO 450 T4 1.1KW	43158	880	880	820	498	942	570	992
VORT QBK SAL-KC EVO 500 T4 1.5KW	43159	940	940	880	558	1002	630	1052
VORT QBK SAL-KC EVO 500 T6 0.55KW	43160	940	940	880	558	1002	630	1052
VORT QBK SAL-KC EVO 560 T4 3KW	43161	1030	1030	970	628	1092	720	1142
VORT QBK SAL-KC EVO 560 T6 1.1KW	43162	1030	1030	970	628	1092	720	1142
VORT QBK SAL-KC EVO 630 T4 5.5KW	43163	1120	1120	1060	708	1182	810	1232
VORT QBK SAL-KC EVO 630 T6 1.5KW	43164	1120	1120	1060	708	1182	810	1232
VORT QBK SAL-KC EVO 315 T4/8 0.25/0.03KW	43165	585	585	525	353	647	275	697
VORT QBK SAL-KC EVO 355 T4/8 0.25/0.03KW	43166	650	650	590	398	712	340	762
VORT QBK SAL-KC EVO 400 T4/8 0.75/0.12KW	43167	730	730	670	448	792	420	842
VORT QBK SAL-KC EVO 450 T4/8 1.1/0.18KW	43168	880	880	820	498	942	570	992
VORT QBK SAL-KC EVO 500 T4/8 1.5/0.25KW	43169	940	940	880	558	1002	630	1052
VORT QBK SAL-KC EVO 560 T4/8 3/0.55KW	43170	1030	1030	970	628	1092	720	1142
VORT QBK SAL-KC EVO 630 T4/8 5.5/1.1KW	43171	1120	1120	1060	708	1182	810	1232

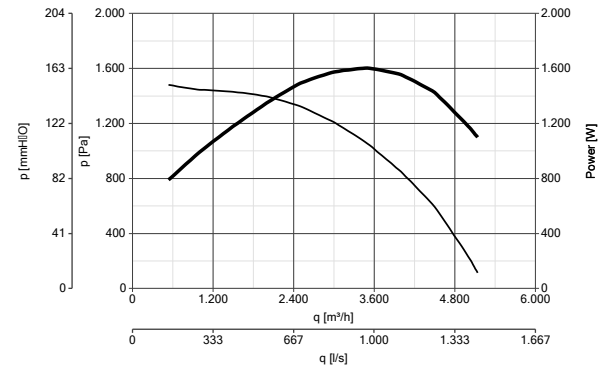


Performance and consumption

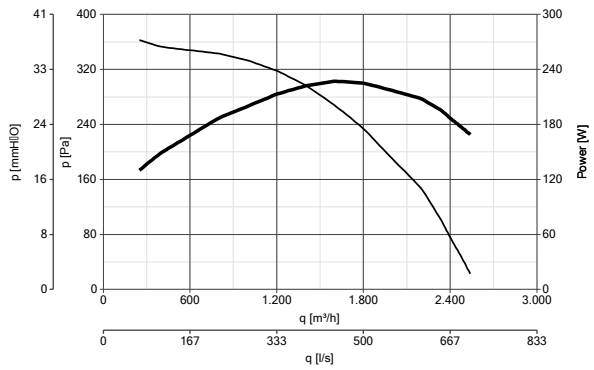
VORT QBK SAL-KC EVO 315 M4 0.25kW
code 43151



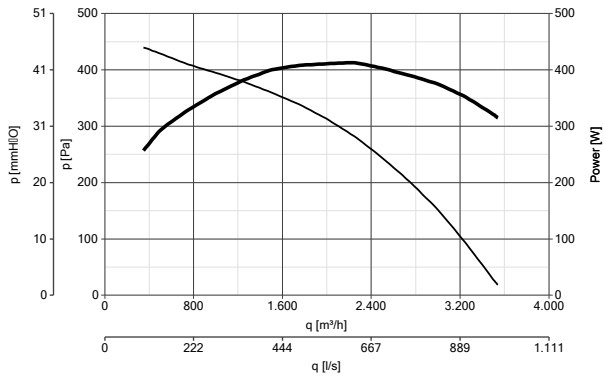
VORT QBK SAL-KC EVO 315 T2 1.5kW
code 43152



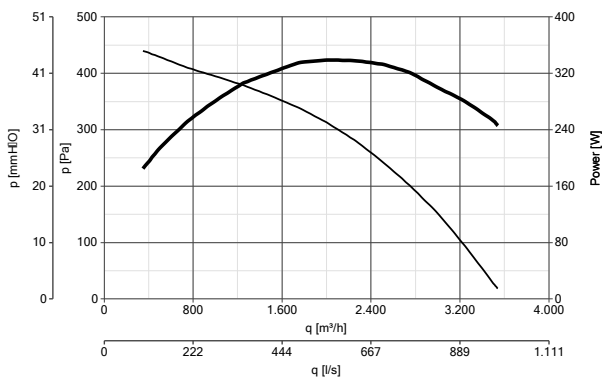
VORT QBK SAL-KC EVO 315 T4 0.25kW
code 43153



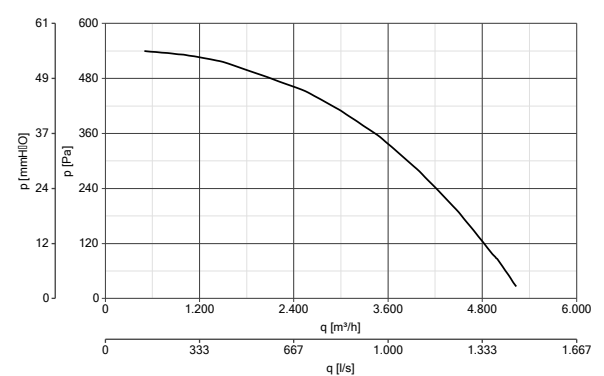
VORT QBK SAL-KC EVO 355 M4 0.25kW
code 43154



VORT QBK SAL-KC EVO 355 T4 0.25kW
code 43155



VORT QBK SAL-KC EVO 400 M4 0.55kW
code 43156

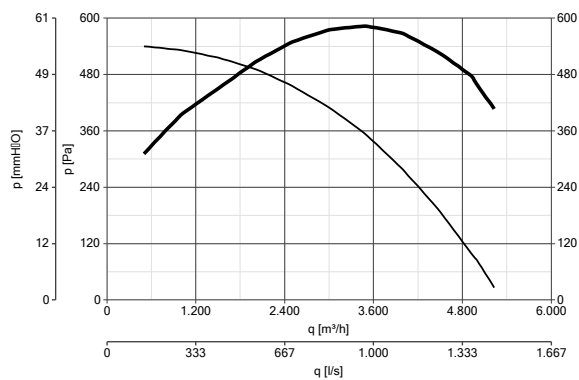


— power — flow / pressure

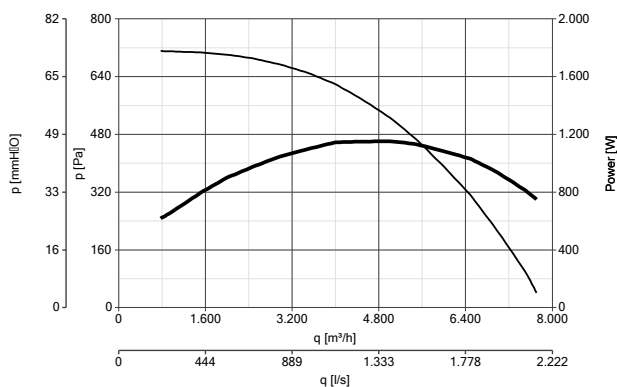


Performance and consumption

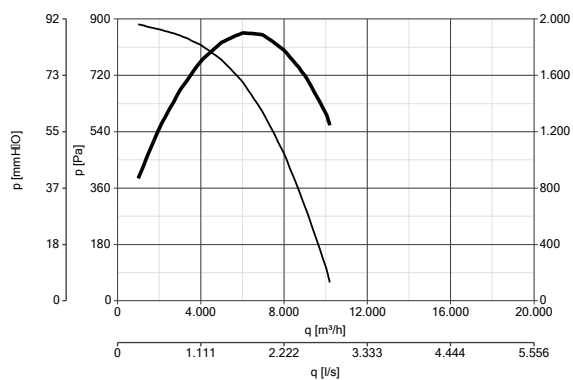
VORT QBK SAL-KC EVO 400 T4 0.55kW
code 43157



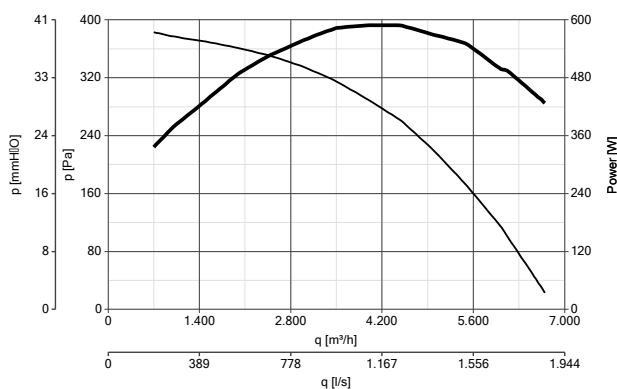
VORT QBK SAL-KC EVO 450 T4 1.1kW
code 43158



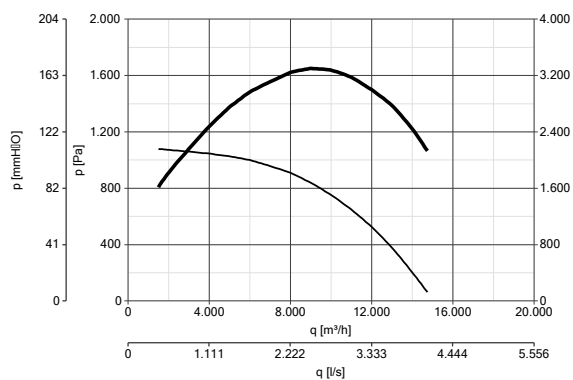
VORT QBK SAL-KC EVO 500 T4 1.5kW
code 43159



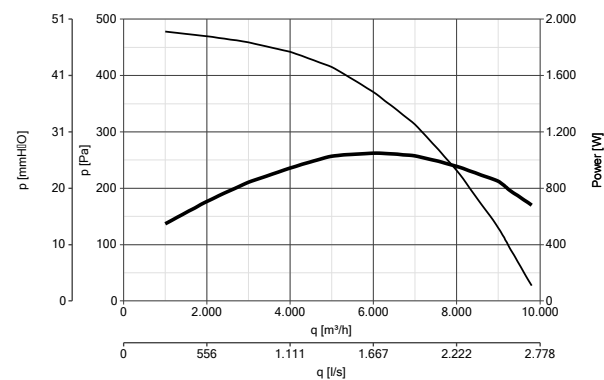
VORT QBK SAL-KC EVO 500 T6 0.55kW
code 43160



VORT QBK SAL-KC EVO 560 T4 3kW
code 43161



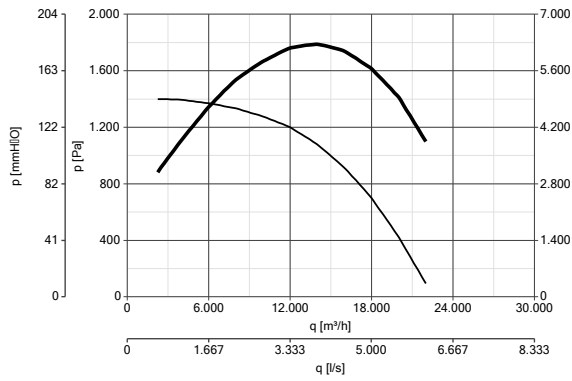
VORT QBK SAL-KC EVO 560 T6 1.1kW
code 43162



— power — flow / pressure

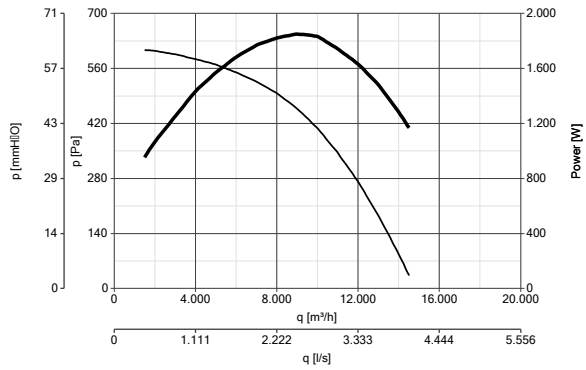
Performance and consumption

VORT QBK SAL-KC EVO 315 M4 0.25kW
code 43163

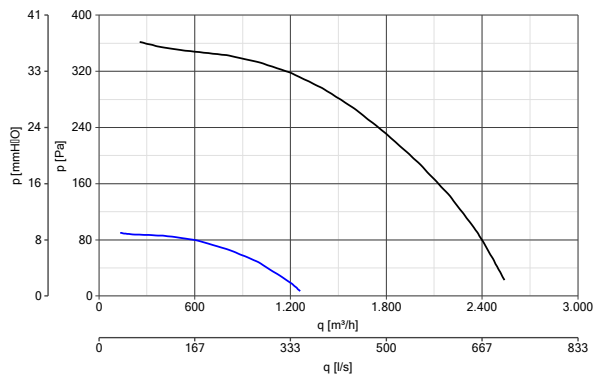


— power — flow / pressure

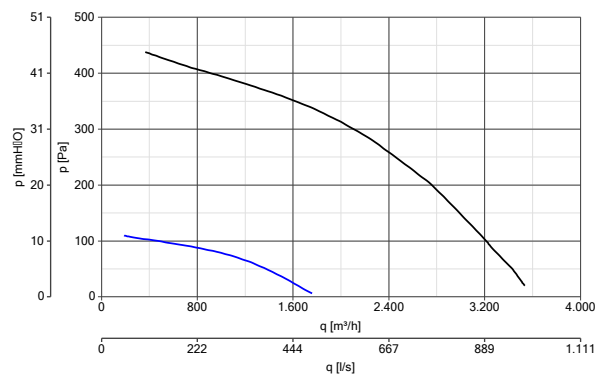
VORT QBK SAL-KC EVO 315 T2 1.5kW
code 43164



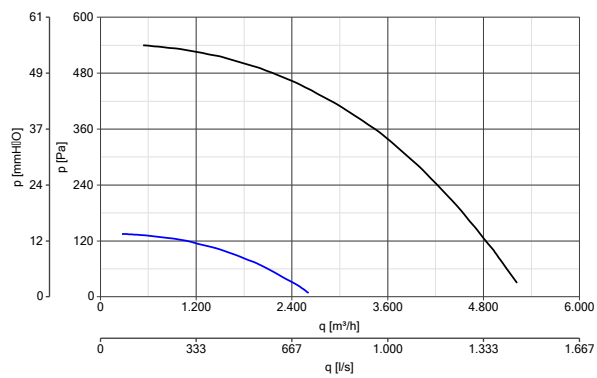
VORT QBK SAL-KC EVO 315 T4/8 0.25/0.03kW
code 43165



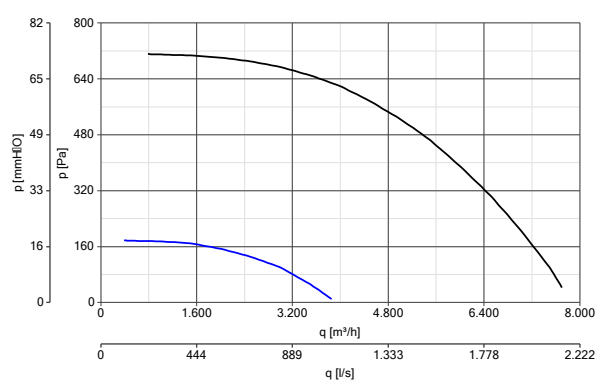
VORT QBK SAL-KC EVO 355 T4/8 0.25/0.03kW
code 43166



VORT QBK SAL-KC EVO 400 T4/8 0.75/0.12kW
code 43167



VORT QBK SAL-KC EVO 450 T4/8 1.1/0.18kW
code 43168

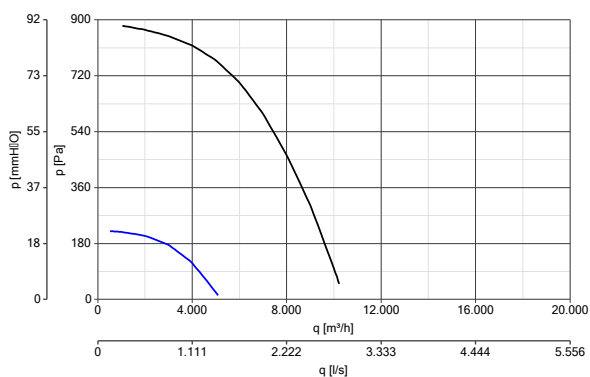


— 4 poles — 8 poles

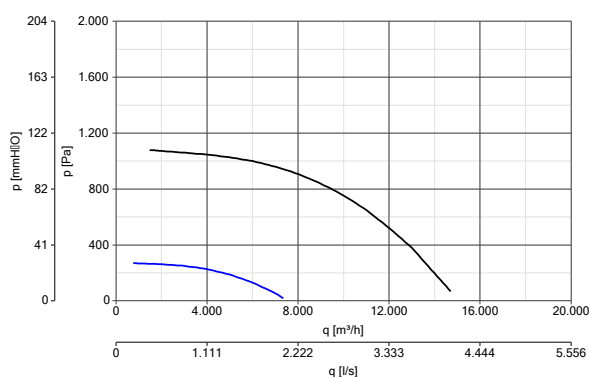


Performance and consumption

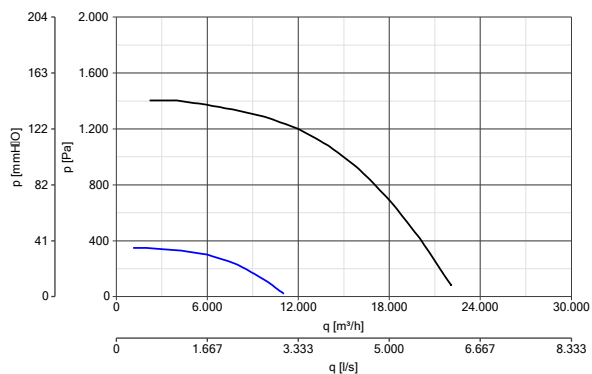
VORT QBK SAL-KC EVO 500 T4/8 1.5/0.25kW
code 43169



VORT QBK SAL-KC EVO 560 T4/8 3/0.55kW
code 43170



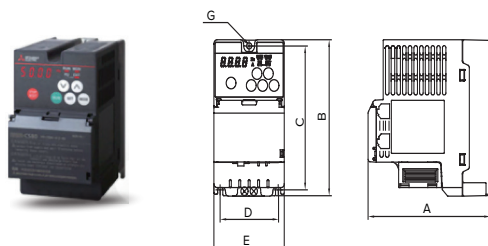
VORT QBK SAL-KC EVO 630 T4/8 5.5/1.1kW
code 43171



Frequency-varying speed regulators (INVERTERS)

IREM INVERTER 230

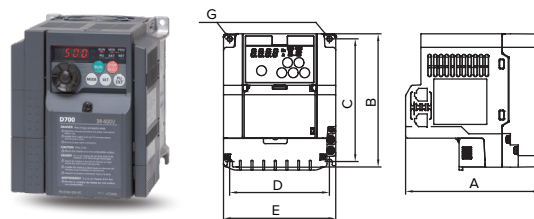
Single-phase power inverter specially designed for speed control in three-phase fan applications. Ultra-compact, easy to use and characterised by a wide range of functions. Control panel with LCD display. Optional EMC filter. IP20 protection level. 200-240V single-phase input, 230V three-phase output. CE, UL, CSA, EN, GOST and CCC certifications.



MODEL	CODE	A	B	C	D	E	ØG
IREM INVERTER 230 2.5A	12872	118	128	118	56	68	5
IREM INVERTER 230 4.2A	12873	118	128	118	56	68	5
IREM INVERTER 230 7A	12874	160	128	118	96	68	5

IRET INVERTER 400

Three-phase power inverter specially designed for speed control in three-phase fan applications. Ultra-compact, easy to use and characterised by a wide range of functions. Control panel with LCD display. Optional EMC filter. IP20 protection level. 380-480V three-phase input, 400V three-phase output. CE, UL, CSA, EN, GOST and CCC certifications.



MODEL	CODE	A	B	C	D	E	ØG
IRET INVERTER 400 1.2A	12876	118	128	118	56	68	5
IRET INVERTER 400 2.2A	12877	118	128	118	56	68	5
IRET INVERTER 400 3.6A	12878	160	128	118	96	108	5
IRET INVERTER 400 8A	12880	160	128	118	96	108	5
IRET INVERTER 400 16A	12882	134	150	138	186	198	5

Dimensions in mm

PRODUCTS	IREM INVERTER 230			IRET INVERTER 400				
	2.5 A 12872	4.2 A 12873	7 A 12874	1.2 A 12876	2.2 A 12877	3.6 A 12878	8 A 12880	16 A 12882
43152			•			•		
43153	•			•				
43155	•			•				
43157		•			•			
43158			•			•		
43159			•			•		
43160		•			•			
43161							•	
43162			•			•		
43163								•
43164							•	

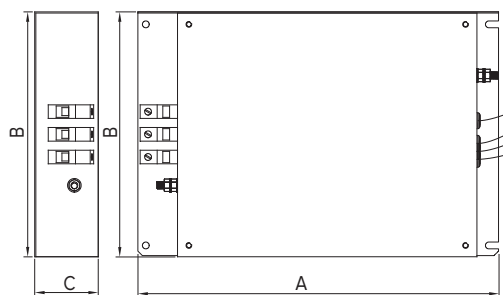


Accessories



EMC FILTER

EMC filter, to be combined with inverters. Applied to the heat sink, it guarantees the level of protection necessary to comply with the regulations on electromagnetic compatibility (EMC) regarding the conducted emissions of the grid. Designed in compliance with EN61800-3:2004, it allows to: limit noise at high frequencies, reduce interference, protect sensitive equipment, eliminate converter cross-communication.



Dimensions in mm

MODEL	CODE	A	B	C
EMC-M FTR 2.5-4.2A	21837	70	168	40
EMC-M FTR 7A	21838	123	168	42
EMC-T FTR 1.2-2.2A	21840	168	70	55
EMC-T FTR 3.6A	21841	168	114	45
EMC-T FTR 5-8A	21842	168	114	45
EMC-T FTR 12-16A	21843	210	202	55

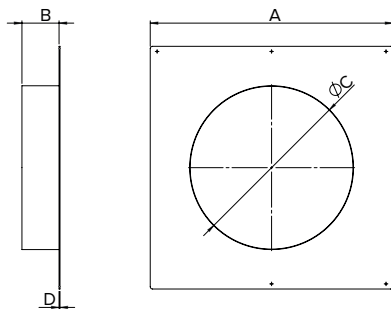
PRODUCTS	EMC-M FTR 2.5-4.2A code 21837	EMC-M FTR 7A code 21838	EMC-T FTR 1.2-2.2A code 21840	EMC-T FTR 3.6A code 21841	EMC-T FTR 5-8A code 21842	EMC-T FTR 12-16A code 21843
43152		•		•		
43153	•		•			
43155	•		•			
43157	•		•			
43158		•		•		
43159		•		•		
43160	•		•			
43161					•	
43162		•		•		
43163						•
43164					•	

Accessories



TBIC

Galvanised steel sheet panels with circular hole for connection to ventilation ducts.



Dimensions in mm

MODEL	CODE	A	B	C	D
TBIC 315	20873	523	80	353	2
TBIC 355	20874	588	80	398	2
TBIC 400	20875	668	80	448	2
TBIC 450	20876	818	80	498	2
TBIC 500	20877	878	80	558	2
TBIC 560	20878	968	80	628	2
TBIC 630	20879	1058	100	708	2

PRODUCTS	TBIC 315 code 20873	TBIC 355 code 20874	TBIC 400 code 20875	TBIC 450 code 20876	TBIC 500 code 20877	TBIC 560 code 20878	TBIC 630 code 20879
43151	•						
43152	•						
43153	•						
43154		•					
43155		•					
43156			•				
43157			•				
43158				•			
43159					•		
43160					•		
43161						•	
43162						•	
43163							•
43164							•
43165	•						
43166		•					
43167			•				
43168				•			
43169					•		
43170						•	
43171							•

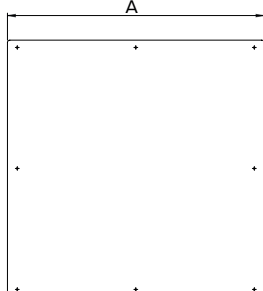


Accessories



B

A



TIC

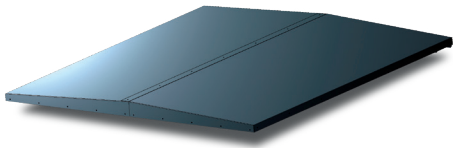
Made of galvanised sheet steel. They allow the delivery to be customised according to the installation needs.

MODEL	CODE	A	B
TIC 315	20880	523	2
TIC 355	20881	588	2
TIC 400	20882	668	2
TIC 450	20883	818	2
TIC 500	20884	878	2
TIC 560	20885	967	2
TBIC 630	20886	1058	2

Dimensions in mm

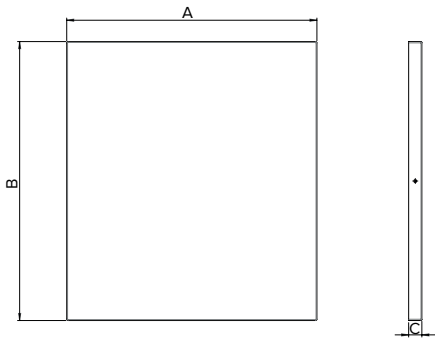
PRODUCTS	TIC 315 code 20880	TIC 355 code 20881	TIC 400 code 20882	TIC 450 code 20883	TIC 500 code 20884	TIC 560 code 20885	TBIC 630 code 20886
43151	•						
43152	•						
43153	•						
43154		•					
43155		•					
43156			•				
43157			•				
43158				•			
43159					•		
43160					•		
43161						•	
43162						•	
43163							•
43164							•
43165	•						
43166		•					
43167			•				
43168				•			
43169					•		
43170						•	
43171							•

Accessories



TEJ

Rain roofs made of galvanised sheet steel. They allow the machines to be installed outdoor.



Dimensions in mm

MODEL	CODE	A	B	C
TEJ 315	20887	585	652	31
TEJ 355	20888	650	717	31
TEJ 400	20889	730	797	31
TEJ 450	20890	880	947	31
TEJ 500	20891	900	1007	31
TEJ 560	20892	1030	1097	31
TEJ 630	20893	1120	1187	31

PRODUCTS	TEJ 315 code 20887	TEJ 355 code 20888	TEJ 400 code 20889	TEJ 450 code 20890	TEJ 500 code 20891	TEJ 560 code 20892	TEJ 630 code 20893
43151	•						
43152	•						
43153	•						
43154		•					
43155		•					
43156			•				
43157			•				
43158				•			
43159					•		
43160					•		
43161						•	
43162						•	
43163							•
43164							•
43165	•						
43166		•					
43167			•				
43168				•			
43169					•		
43170						•	
43171							•

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