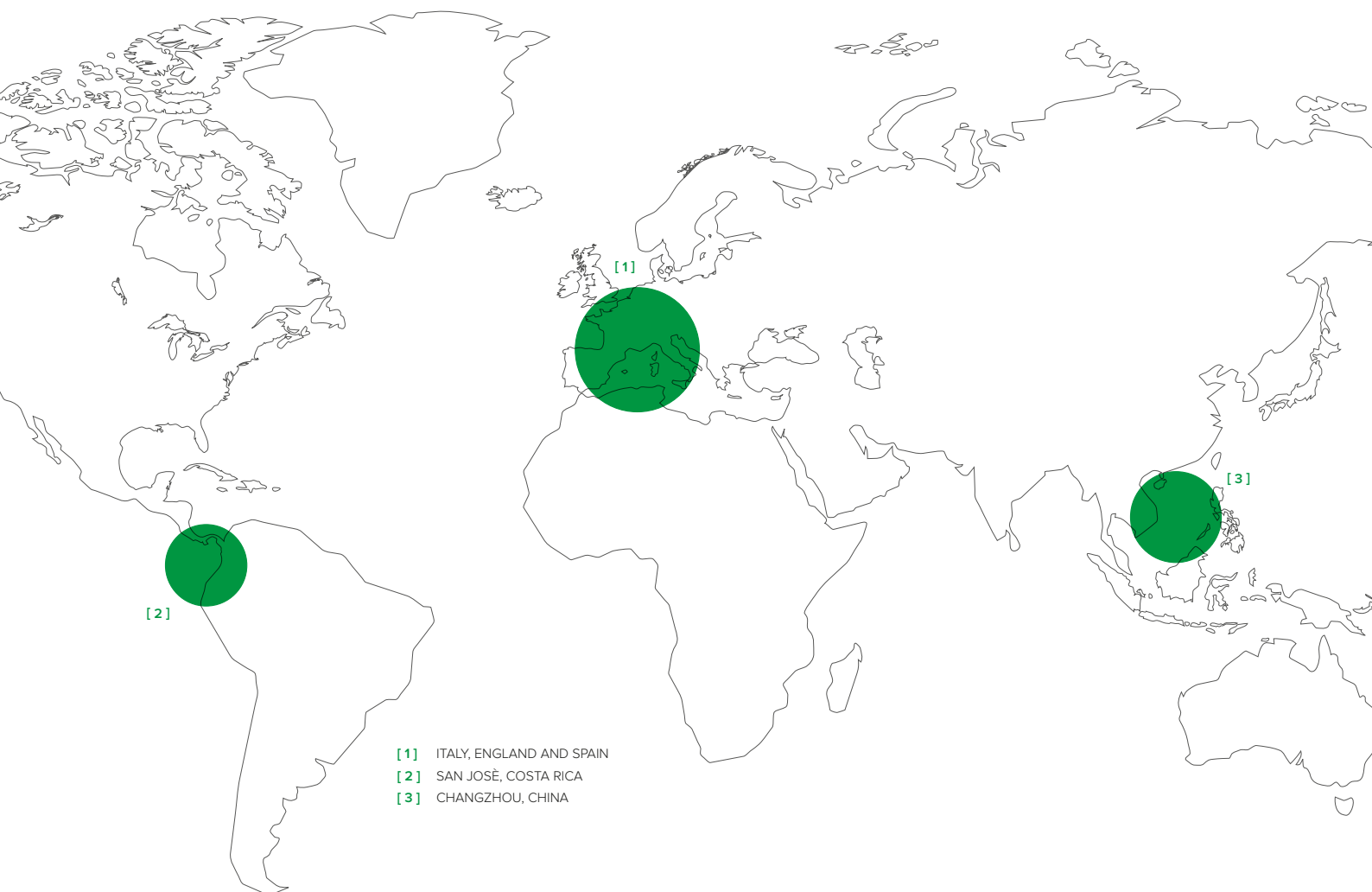




COMMERCIAL VENTILATION 

VORT QBK RANGE



Vortice Headquarters

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

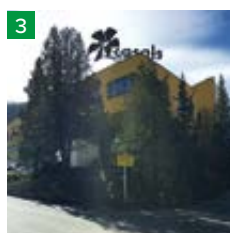
The **VORTICE GROUP** also includes:



1 VORTICE UK Ltd, English branch opened in 1977 based in Burton on Trent.



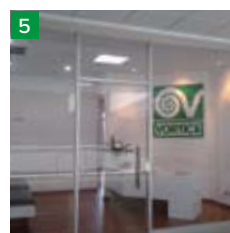
2 VORTICE INDUSTRIAL, born from the acquisition in 2010 of Loran srl, based in Isola della Scala (VR).



3 CASALS historic Spanish brand of VENTILACIÓN INDUSTRIAL IND. S.L., based in Sant Joan de les Abadesses, Girona, acquired in 2019.



4 VORTICE Ventilation System, company inaugurated in 2013 with headquarters in Changzhou China.



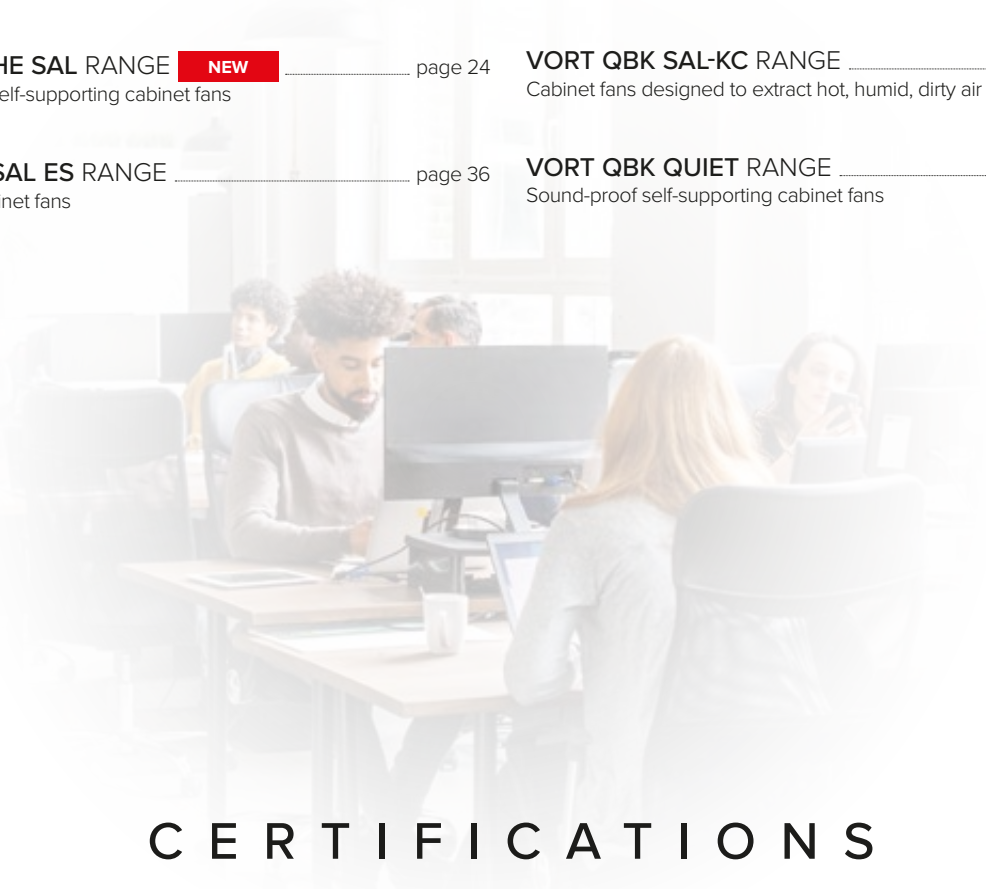
5 VORTICE Latam, based in San José, Costa Rica, established in 2012.

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COMMERCIAL VENTILATION

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VORT QBK HE SAL RANGE NEW page 24 High efficiency self-supporting cabinet fans	VORT QBK SAL-KC RANGE page 60 Cabinet fans designed to extract hot, humid, dirty air
VORT QBK SAL ES RANGE page 36 Double inlet cabinet fans	VORT QBK QUIET RANGE page 66 Sound-proof self-supporting cabinet fans



CERTIFICATIONS

The VORT QBK range products are compliant with the following European Directives and Regulations:

- Machine Directive (2006/42/CE)
- Electromagnetic Compatibility Directive EMC 2014/30 EU;
- Erp Directive (2009/125/CE)
- Erp Regulation N° 327/2011

Safety:

- EN ISO 12100-1; EN ISO 60204-1; EN ISO 13857; EN ISO12499;

Electromagnetic Compatibility:

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



VORT QBK POWER RANGE

Belt driven, double inlet cabinet fans

Monobloc cabinet fans with aluminium profile structure and metal corner pieces, for installation in general ventilation systems and/or for air extraction in industrial kitchens, restaurants, offices and business premises.

- General ventilation systems and/or for air extraction in industrial kitchens, restaurants, offices and business premises etc.
- Suitable for outdoor applications and can be fitted with rain guard and/or anti-bird and anti-intrusion protection hoods, shutter filters.



TECHNICAL FEATURES

- The range is made up from 8 standard sizes in 61 models with air flow rates from 1000 m³/h to 30,000 m³/h and with operating temperature between –20°C and +40°C.
- Maximum pressures available up to 500 Pa.
- Provided with fan in horizontal delivery position.
- Execution with drive to the left seen from the pressure/delivery spigot inspection panel opening and left connections seen from the pressure/delivery spigot.
- Suitable for outdoor applications and can be fitted with rain guard and/or anti-bird and anti-intrusion protection hoods, shutter filters.
- Monobloc boxed air extractors with anodised extruded aluminium alloy profile structure with metal corner pieces in die-cast aluminium and galvanised steel panels. Soundproof internal cladding Cl.1.
- Delivery spigot with rectangular section for sizes from 9/7 to 18/18 and with square section for sizes from 560 to 630.
- Centrifugal fans with forward curved centrifugal impellers with double inlet and motors coupled to the impeller via trapezoidal belt drive and pulleys
- Three phase motors (380-415V-50/60Hz) IP55 Isol. class F with one speed (4 poles) or two speeds (4/6 poles).
- Easy-to-open panels using half-turn locking device, which can be removed to allow inspection and maintenance.
- Hinged door panel with handles/s half-turn locking device for 10/10 models.
- Motor/fan unit mounted on the frame at slide and isolated with vibration damper supports. Vibration damper coupling on the fan pressure/delivery spigot.

NOTE

For types and performance different from those indicated in the technical data tables, contact the Vortice S.p.A. Technical Dept.





VORT QBK POWER RANGE

Belt driven, double inlet cabinet fans

TECHNICAL DATA

PRODUCTS	CODE	SPEED	V~Hz	W MAX	A MAX	RPM	MAX FLOW RATE		LP (DBA)* 1m MAX	°C* MAX	IP motor
							m³/h	l/s			
VORT QBK POWER 9/7 1V 0,37	45301	1	230-400~50	370	1,11	1350	2500	694	70	40	55
VORT QBK POWER 9/7 1V 0,55	45302	1	230-400~50	550	1,6	1520	2500	694	72	40	55
VORT QBK POWER 9/7 1V 0,75	45303	1	230-400~50	750	1,93	1030	2500	694	69	40	55
VORT QBK POWER 9/9 1V 0,37	45304	1	230-400~50	370	1,11	1030	2500	694	69	40	55
VORT QBK POWER 9/9 1V 0,55	45305	1	230-400~50	550	1,6	1420	3500	972	72	40	55
VORT QBK POWER 9/9 1V 0,75	45306	1	230-400~50	750	1,93	1590	3500	972	72	40	55
VORT QBK POWER 9/9 1V 1,1	45307	1	230-400~50	1100	2,64	1600	3500	972	73	40	55
VORT QBK POWER 10/10 1V 0,55	45308	1	230-400~50	1,6	550	895	3500	972	72	40	55
VORT QBK POWER 10/10 1V 0,75	45309	1	230-400~50	1,93	750	1050	4500	1250	71	40	55
VORT QBK POWER 10/10 1V 1,1	45310	1	230-400~50	1100	2,64	1345	4500	1250	73	40	55
VORT QBK POWER 10/10 1V 1,5	45311	1	230-400~50	1500	3,45	1360	4500	1250	74	40	55
VORT QBK POWER 12/12 1V 0,75	45312	1	230-400~50	750	1,93	735	5000	1389	68	40	55
VORT QBK POWER 12/12 1V 1,1	45313	1	230-400~50	1100	2,64	1020	6000	1667	71	40	55
VORT QBK POWER 12/12 1V 1,5	45314	1	230-400~50	1500	3,45	1150	7000	1944	75	40	55
VORT QBK POWER 12/12 1V 2,2	45315	1	230-400~50	2200	4,84	1150	7000	1944	76	40	55
VORT QBK POWER 15/15 1V 1,1	45316	1	230-400~50	1100	2,64	640	7000	1944	70	40	55
VORT QBK POWER 15/15 1V 1,5	45317	1	230-400~50	1500	3,45	740	9000	2500	73	40	55
VORT QBK POWER 15/15 1V 2,2	45318	1	230-400~50	2200	4,84	950	10000	2778	78	40	55
VORT QBK POWER 15/15 1V 3	45319	1	230-400~50	3000	6,47	960	10000	2778	78	40	55
VORT QBK POWER 18/18 1V 1,5	45320	1	230-400~50	1500	3,45	520	10000	2778	72	40	55
VORT QBK POWER 18/18 1V 2,2	45321	1	230-400~50	2200	4,84	730	14000	3889	79	40	55
VORT QBK POWER 18/18 1V 3	45322	1	230-400~50	3000	6,47	820	14000	3889	79	40	55
VORT QBK POWER 18/18 1V 4	45323	1	230-400~50	4000	8,26	820	16000	4444	82	40	55
VORT QBK POWER 18/18 1V 5,5	45324	1	230-400~50	5500	11,03	820	16000	4444	82	40	55
VORT QBK POWER 560 1V 3	45325	1	230-400~50	3000	6,47	600	18000	5000	73	40	55
VORT QBK POWER 560 1V 4	45326	1	230-400~50	4000	8,26	670	20000	5556	76	40	55
VORT QBK POWER 560 1V 5,5	45327	1	230-400~50	5500	11,3	770	22000	6111	78	40	55
VORT QBK POWER 560 1V 7,5	45328	1	230-400~50	7500	14,64	790	22000	6111	79	40	55
VORT QBK POWER 630 1V 4	45329	1	230-400~50	4000	8,26	460	22000	6111	73	40	55
VORT QBK POWER 630 1V 5,5	45330	1	230-400~50	5500	11,03	600	27000	3500	78	40	55
VORT QBK POWER 630 1V 7,5	45331	1	230-400~50	7500	14,64	670	30000	8333	80	40	55
VORT QBK POWER 630 1V 9,2	45332	1	230-400~50	9200	17,85	670	30000	8333	80	40	55
VORT QBK POWER 630 1V 11	45333	1	230-400~50	11000	20,64	700	30000	8333	81	40	55

NOTE: Operation at higher temperatures is also possible. At higher temperatures however, there is a drop in power (contact our technical-sales office).

* Sound pressure level measured at 1 m in free field conditions.



TECHNICAL DATA

PRODUCTS	CODE	SPEED	V~Hz	W MIN MAX	A MIN MAX	RPM	MAX FLOW RATE		LP (DBA)* 1m MAX	°C* MAX	IP motor
							m³/h	l/s			
VORT QBK POWER 9/7 2V 0,55	45342	2	400~50	190 500	0,7 1,4	1520	2500	694	72	40	55
VORT QBK POWER 9/7 2V 0,75	45343	2	400~50	250 660	0,8 1,75	1490	2500	694	73	40	55
VORT QBK POWER 9/9 2V 0,55	45345	2	400~50	190 500	0,7 1,4	1420	3500	972	72	40	55
VORT QBK POWER 9/9 2V 0,75	45346	2	400~50	250 660	0,8 1,75	1590	3500	972	72	40	55
VORT QBK POWER 9/9 2V 1,1	45347	2	400~50	300 1000	1,2 2,5	1600	3500	972	73	40	55
VORT QBK POWER 10/10 2V 0,55	45348	2	400~50	190 500	0,7 1,4	895	3500	972	72	40	55
VORT QBK POWER 10/10 2V 0,75	45349	2	400~50	250 660	0,8 1,75	1050	4500	1250	71	40	55
VORT QBK POWER 10/10 2V 1,1	45350	2	400~50	300 1000	1,2 2,5	1345	4500	1250	73	40	55
VORT QBK POWER 10/10 2V 1,5	45351	2	400~50	450 1500	1,6 3,5	1360	4500	1250	74	40	55
VORT QBK POWER 12/12 2V 0,75	45352	2	400~50	250 660	0,8 1,75	735	5000	1389	68	40	55
VORT QBK POWER 12/12 2V 1,1	45353	2	400~50	300 1000	1,2 2,5	1020	6000	1667	71	40	55
VORT QBK POWER 12/12 2V 1,5	45354	2	400~50	450 1500	1,6 3,5	1150	7000	1944	75	40	55
VORT QBK POWER 12/12 2V 2,2	45355	2	400~50	600 2000	2 4,5	1150	7000	1944	76	40	55
VORT QBK POWER 15/15 2V 1,1	45356	2	400~50	300 1000	1,2 2,5	640	7000	1944	70	40	55
VORT QBK POWER 15/15 2V 1,5	45357	2	400~50	450 1500	1,6 3,5	740	9000	2500	73	40	55
VORT QBK POWER 15/15 2V 2,2	45358	2	400~50	600 2000	2 4,5	950	10000	2778	77	40	55
VORT QBK POWER 15/15 2V 3	45359	2	400~50	1000 3000	3,1 6,3	960	10000	2778	78	40	55
VORT QBK POWER 18/18 2V 1,5	45360	2	400~50	450 1500	1,6 3,5	520	10000	2778	72	40	55
VORT QBK POWER 18/18 2V 2,2	45361	2	400~50	600 2000	2 4,5	730	14000	3889	79	40	55
VORT QBK POWER 18/18 2V 3	45362	2	400~50	1000 3000	3,1 6,3	820	14000	3889	79	40	55
VORT QBK POWER 18/18 2V 4	45363	2	400~50	1500 4500	5,1 9,2	820	16000	4444	82	40	55
VORT QBK POWER 18/18 2V 5,5	45364	2	400~50	2000 6000	5,6 12	820	16000	4444	82	40	55
VORT QBK POWER 560 2V 3	45365	2	400~50	1000 3000	3,1 6,3	600	18000	5000	73	40	55
VORT QBK POWER 560 2V 4	45366	2	400~50	1500 4500	5,1 9,2	670	22000	5556	76	40	55
VORT QBK POWER 560 2V 5,5	45367	2	400~50	2000 6000	5,6 12	770	22000	6111	78	40	55
VORT QBK POWER 560 2V 7,5	45369	2	400~50	1500 4500	5,1 9,2	460	22000	6111	73	40	55
VORT QBK POWER 630 2V 5,5	45370	2	400~50	2000 6000	5,6 12	600	27000	7500	78	40	55
VORT QBK POWER 630 2V 7,5	45371	2	400~50							40	55
VORT QBK POWER 630 2V 9,2	45372	2	400~50							40	55
VORT QBK POWER 630 2V 11	45373	2	400~50	3500 10500	8,6 21	700	30000	8333	81	40	55

NOTE: Operation at higher temperatures is also possible. At higher temperatures however, there is a drop in power (contact our technical-sales office).

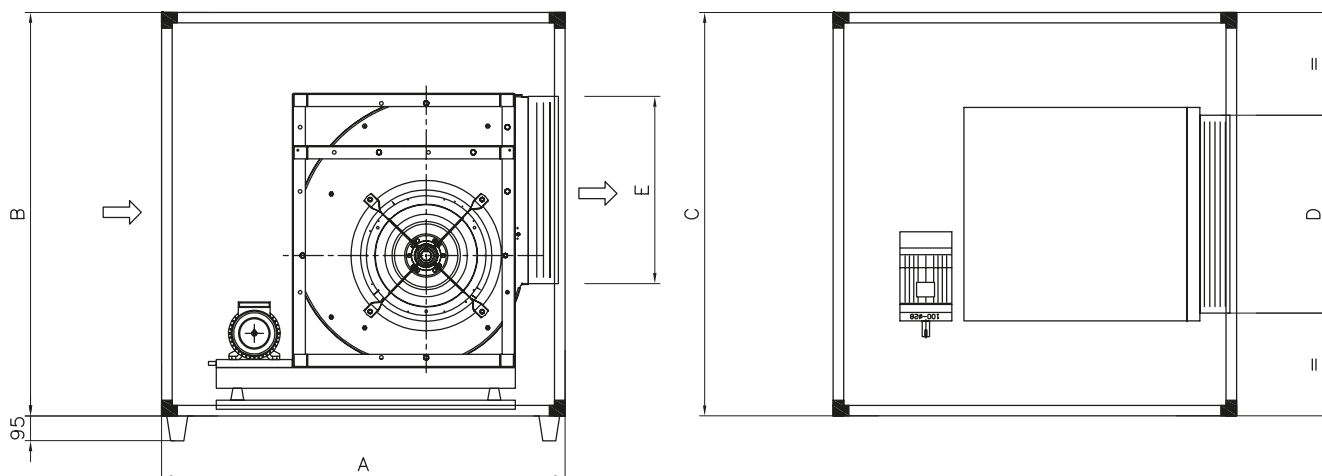
* Sound pressure level measured at 1 m in free field conditions.



VORT QBK POWER RANGE

Belt driven, double inlet cabinet fans

DIMENSIONS



PRODUCTS	A	B	C	D	E
VORT QBK POWER 9/7 1V	790	600	600	235	265
VORT QBK POWER 9/9 1V	790	600	600	300	265
VORT QBK POWER 10/10 1V	1040	700	700	335	295
VORT QBK POWER 12/12 1V	1040	790	790	395	340
VORT QBK POWER 15/15 1V	1040	1040	1040	470	405
VORT QBK POWER 18/18 1V	1290	1290	1290	560	480
VORT QBK POWER 9/560 1V	1540	1290	1290	640	640
VORT QBK POWER 9/630 1V	1540	1540	1540	720	720

Dimensions (mm)

NOTE: The overall dimensions of QBK POWER are indicative since they are subject to change upon final order confirmation. In case the unit is fitted with the filtering section accessory, dimension A will increase by 250 mm.



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK RRC POWER 9/7 - 9/9 - Rain guard	24215	45301 - 45302 - 45303 - 45304 45305 - 45306 - 45307 45342 - 45343 - 45344 - 45345 - 45346 - 45347
	QBK RRC POWER 10/10 - Rain guard	24216	45308 - 45309 - 45310 - 45311 45348 - 45349 - 45350 - 45351
	QBK RRC POWER 12/12 - Rain guard	24217	45312 - 45313 - 45314 - 45315 45352 - 45353 - 45354 - 45355
	QBK RRC POWER 15/15 - Rain guard	24218	45316 - 45317 - 45318 - 45319 45356 - 45357 - 45358 - 45359
	QBK RRC POWER 18/18 - Rain guard	24219	45320 - 45321 - 45322 - 45323 45324 - 45360 - 45361 - 45362 45363 - 45364
	QBK RRC POWER 560 - Rain guard	24220	45325 - 45326 - 45327 - 45328 - 45365 - 45366 - 45367 - 45368
	QBK RRC POWER 630 - Rain guard	24221	45329 - 45330 - 45331 - 45332 - 45333 - 45369 - 45370 - 45371 45372 - 45373
	QBK VCD POWER 9/7 - 9/9 - Adjustment shutter	24222	45301 - 45302 - 45303 - 45304 - 45305 - 45306 - 45307 45342 - 45343 - 45345 - 45346 45347
	QBK VCD POWER 10/10 - Adjustment shutter	24223	45308 - 45309 - 45310 - 45311 45348 - 45349 - 45350 - 45351
	QBK VCD POWER 12/12 - Adjustment shutter	24224	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	QBK VCD POWER 15/15 - Adjustment shutter	24225	45316 - 45317 - 45318 - 45319 - 45356 - 45357 - 45358 - 45359
	QBK VCD POWER 18/18 - Adjustment shutter	24226	45320 - 45321 - 45322 - 45323 - 45324 - 45360 - 45361 - 45362 45363 - 45364
	QBK VCD POWER 560 Adjustment shutter	24227	45325 - 45326 - 45327 - 45328 - 45365 - 45366 - 45367 - 45368
	QBK VCD POWER 630 Adjustment shutter	24228	45329 - 45330 - 45331 - 45332 - 45333 - 45369 - 45370 - 45371 45372 - 45373



VORT QBK POWER RANGE

Belt driven, double inlet cabinet fans

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK IG 9/7 - 9/9 Intake grille	24230	45301 - 45302 - 45303 - 45304 - 45305 - 45306 45307 45342 - 45343 - 45344 - 45345 - 45346 - 45347
	QBK IG 10/10 Intake grille	24231	45308 - 45309 - 45310 - 45311 - 45348 - 45349 - 45350 - 45351
	QBK IG 12/12 Intake grille	24232	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	QBK IG 15/15 Intake grille	24233	45316 - 45317 - 45318 - 45319 - 45356 - 45357 - 45358 - 45359
	QBK IG 18/18 Intake grille	24234	45320 - 45321 - 45322 - 45323 - 45324 - 45360 - 45361 - 45362 45363 - 45364
	QBK IG 560 Intake grille	24235	45325 - 45326 - 45327 - 45328 - 45365 - 45366 - 45367 - 45368
	QBK IG 630 Intake grille	24236	45329 - 45330 - 45331 - 45332 - 45333 - 45369 - 45370 - 45373
	QBK SS SAFETY micro-switch	24237	All models
	QBK VDP 9 - 10 - 12 - 15 - 18 Variable pulley	24238	45301 - 45302 - 45303 - 45304 - 45305 - 45306 45307 45342 - 45343 - 45344 - 45345 - 45346 - 45347
	QBK VDP 560 - 630 Variable pulley	24239	45325 - 45326 - 45327 - 45328 - 45329 - 45330 - 45331 - 45332 45333 - 45365 - 45366 - 45367 - 45368 - 45369 - 45370 - 45373
	QBK FS 9/7 - 9/9 Filtering section	24240	45300 - 45301 - 45302 - 45303 - 45304 - 45305 - 45306 45307 - 45342 - 45343 - 45345 - 45346 - 45347
	QBK FS 10/10 Filtering section	24241	45308 - 45309 - 45310 - 45311 45348 - 45349 - 45350 - 45351
	QBK FS 12/12 Filtering section	24242	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	QBK FS 15/15 Filtering section	24243	45316 - 45317 - 45318 - 45319 - 45356 - 45357 - 45358 - 45359
	QBK FS 18/18 Filtering section	24244	45320 - 45321 - 45322 - 45323 - 45324 - 45360 - 45361 - 45362 45363 - 45364
	QBK FS 560 Filtering section	24245	45325 - 45326 - 45327 - 45328 - 45365 - 45366 - 45367 - 45368
	QBK FS 630 Filtering section	24246	45329 - 45330 - 45331 - 45332 - 45333 - 45369 - 45370 - 45372 - 45373
	QBK ABC 7/7 - 9/9 Filtering section	24200	45301 - 45302 - 45303 - 45304 - 45305 - 45306 - 45307 45342 45343 - 45345 - 45346 - 45347
	QBK ABC 10/10 - 12/12 Air cowling	24202	45308 - 45309 - 45310 - 45311 - 45348 - 45349 - 45350 - 45351 45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	CUBICO CF 7/7 Filter holder	22711	45301 - 45302 - 45303
	CUBICO CF 9/9 Filter holder	22712	45304 - 45305 - 45306 45307
	CUBICO CF 10/10 Filter holder	22713	45308 - 45309 - 45310 - 45311 - 45348 - 45349 - 45350 - 45351
	CUBICO CF 12/12 Filter holder	22714	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	G4-12/12/R Pre filter	22767	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	G4-10/10/R Pre filter	22768	45308 - 45309 - 45310 - 45311 - 45348 - 45349 - 45350 - 45351
	G4-9/9/R Pre filter	22769	45304 - 45305 - 45306 45307
	F6-12/12/R Filter	22771	45312 - 45313 - 45314 - 45315 - 45352 - 45353 - 45354 - 45355
	F6-10/10/R Filter	22772	45308 - 45309 - 45310 - 45311 - 45348 - 45349 - 45350 - 45351
	F6-9/9/R Filter	22773	45304 - 45305 - 45306 45307



VORT QBK RANGE

NEW

High efficiency cabinet fans

Cabinet fans for extra UE countries, designed for installation in ventilation ducts of business and industrial premises (bathrooms, offices, laboratories, shops, laundries, restaurants, hotels, bars).

- High value for money.
- Possibility of outdoor installation without the need to use special rain canopies.
- Wide range of continuous operating temperatures.



TECHNICAL FEATURES

- Casings in galvanized steel sheet with sound-absorbing inner lining (thickness 10 mm) resistant to fire (class Bs1d0). Pre-cut suction and delivery ports, the delivery ones integrating the flanges, directly obtained in the panel, for coupling to the relative piping.
- Double suction centrifugal fans consisting of forward-curved centrifugal impellers, made of directly coupled galvanized steel sheet. Single-phase AC motors (powered at 230V - 50 Hz) or Three-phase motors (powered at 230/400 V - 50 Hz with extruded aluminum housings, 4 or 6 poles depending on the model, in class F and with IP54 protection degree. The single-phase models are adjustable in voltage, the three-phase models through frequency converters (inverters).
- Engine mountings equipped with flexible arms and anti-vibration mounts compliant with ROHS Directive 2002/95 / EC.
- Electrical connection boxes equipped with terminal board and integrated in the motors, with IP65 protection degree.
- Cable glands for fixing the power supply cable integrated in the front panel.
- Maximum continuous operating temperature: + 50 ° C.
- Painted versions available on request.





VORT QBK RANGE

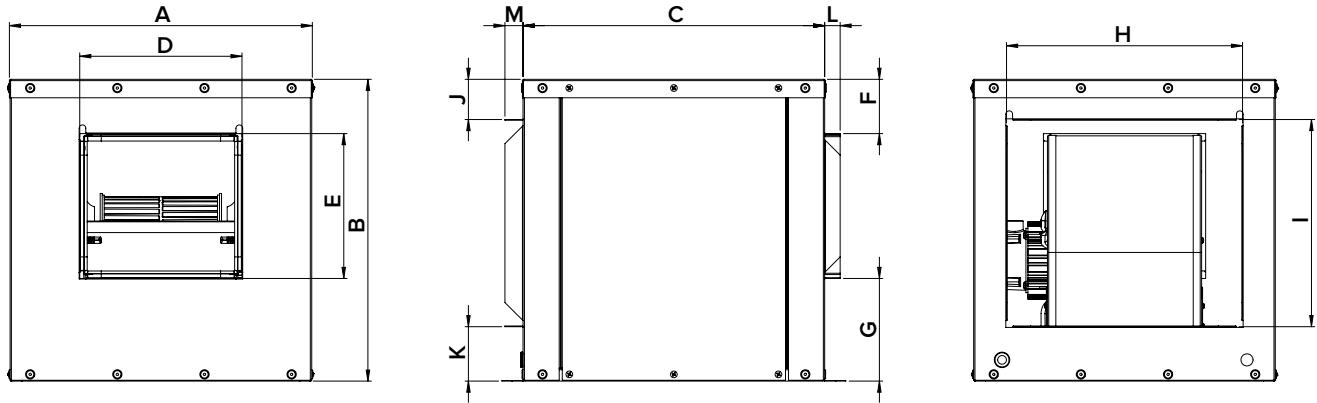
NEW

High efficiency cabinet fans

TECHNICAL DATA

	PRODUCTS	CODE	V~HZ	W MAX	A MAX	RPM	MAX FLOW RATE		MAX PRESSURE		°C MAX	IP motor	KG
							m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK 7/7 4M	45731	230/240~50	130	1,8	1370	1837	510	32,56	319	50	55	19
	VORT QBK 7/7 6M	45732	230/240~50	40	0,65	885	1153	320	12,21	119	50	55	20
	VORT QBK 9/7 4M	45733	230/240~50	350	3,1	1375	2854	792	43,78	429	50	55	30
	VORT QBK 9/7 6M	45734	230/240~50	130	1,3	940	2043	567	18,76	183	50	55	28
	VORT QBK 9/9 4M	45735	230/240~50	350	3,2	1375	3156	876	41,13	403	50	55	30
	VORT QBK 9/9 6M	45736	230/240~50	120	1,4	925	2058	517	20,10	197	50	55	28
	VORT QBK 10/8 4M	45737	230/240~50	590	5,4	1340	3844	1068	53,49	524	50	55	38
	VORT QBK 10/8 6M	45738	230/240~50	210	2,3	945	2623	728	26,99	264	50	55	33
	VORT QBK 10/10 4M	45739	230/240~50	590	5,3	1340	4246	1179	52,65	519	50	55	34
	VORT QBK 10/10 6M	45740	230/240~50	210	2,3	945	2855	793	26,93	264	50	55	34
	VORT QBK 12/9 6M	45741	230/240~50	760	5,8	950	5857	1627	35,30	346	50	55	40
	VORT QBK 12/12 6M	45742	230/240~50	760	7,2	950	6274	1742	38,46	377	50	55	49
THREE PHASE	VORT QBK 12/9 6T	45743	380/415~50	1100	3,7	945	6227	1729	32,28	316	50	55	48
	VORT QBK 12/12 6T	45744	380/415~50	1100	3,7	945	6935	1926	35,26	345	50	55	51
	VORT QBK 15/15 6T	45745	380/415~50	2200	8,4	900	12716	3532	59,77	586	50	55	71

DIMENSIONS



PRODUCTS	A	B	C	D	E	F	G	H	I	J	K	L	M
VORT QBK 7/7 4M	450	450	450	242	216	81	150	352	309	60	78	23	27
VORT QBK 7/7 6M	450	450	450	242	216	81	150	352	309	60	78	23	27
VORT QBK 9/7 4M	535	535	535	245	268	96	169	418	359	78	96	23	27
VORT QBK 9/7 6M	535	535	535	245	268	96	169	418	359	78	96	23	27
VORT QBK 9/9 4M	535	535	535	311	268	96	169	418	359	78	96	23	27
VORT QBK 9/9 6M	535	535	535	311	268	96	169	418	359	78	96	23	27
VORT QBK 10/8 4M	580	580	580	278	298	84	195	493	421	69	88	23	27
VORT QBK 10/8 6M	580	580	580	278	298	84	195	493	421	69	88	23	27
VORT QBK 10/10 4M	580	580	580	342	298	84	195	493	421	69	88	23	27
VORT QBK 10/10 6M	580	580	580	342	298	84	195	493	421	69	88	23	27
VORT QBK 12/9 6M	650	650	650	322	349	83	216	576	500	65	83	23	27
VORT QBK 12/12 6M	650	650	650	408	349	83	216	576	500	65	83	23	27
VORT QBK 12/9 6T	650	650	650	322	349	83	216	576	500	65	83	23	27
VORT QBK 12/12 6T	650	650	650	408	349	83	216	576	500	65	83	23	27
VORT QBK 15/15 6T	775	775	775	483	411	118	244	650	650	52	71	23	27

Dimensions (mm)



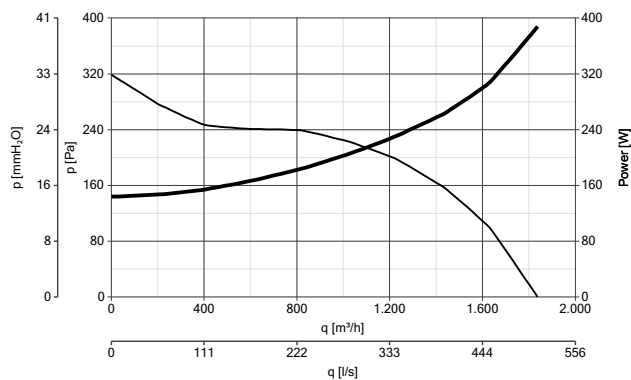
VORT QBK RANGE

NEW

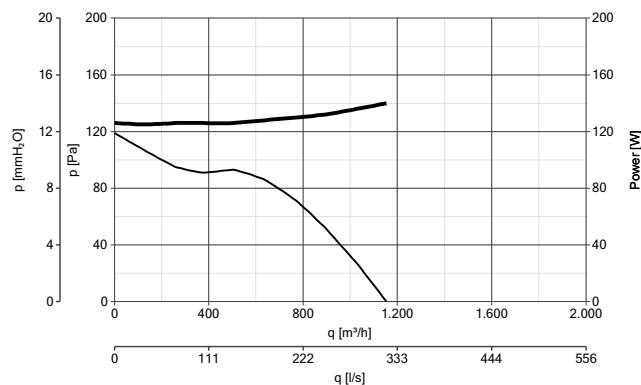
High efficiency cabinet fans

PERFORMANCES CURVES

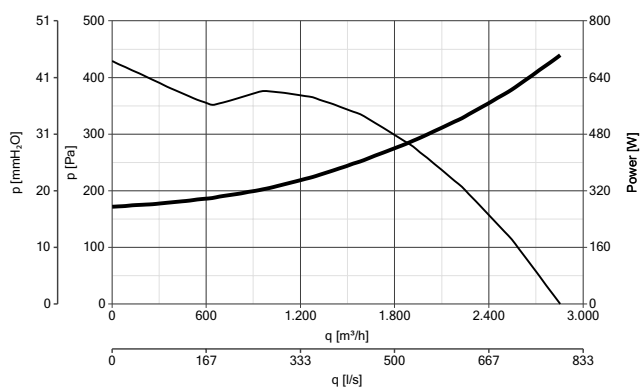
VORT QBK 7/7 4M



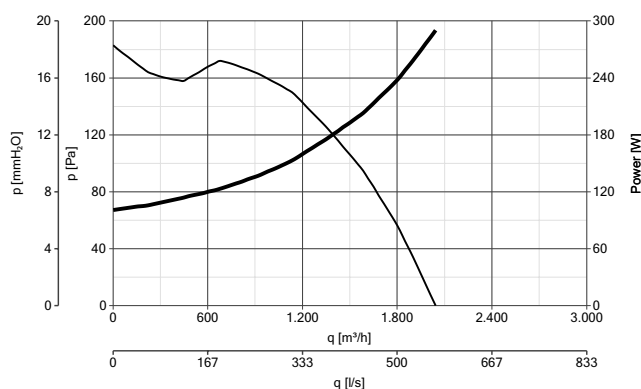
VORT QBK 7/7 6M



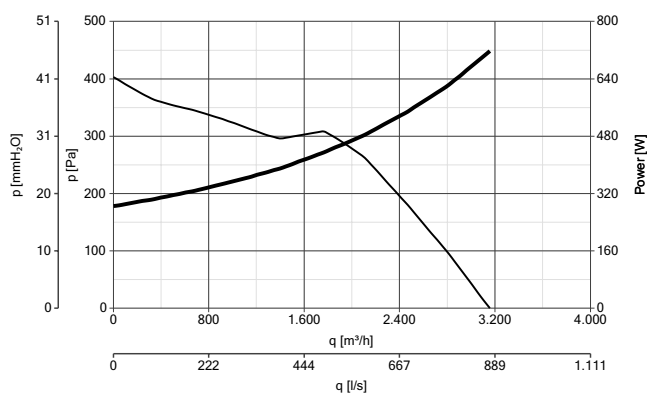
VORT QBK 9/7 4M



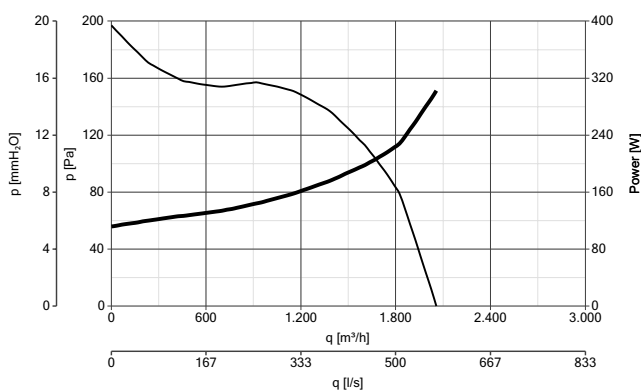
VORT QBK 9/7 6M



VORT QBK 9/9 4M



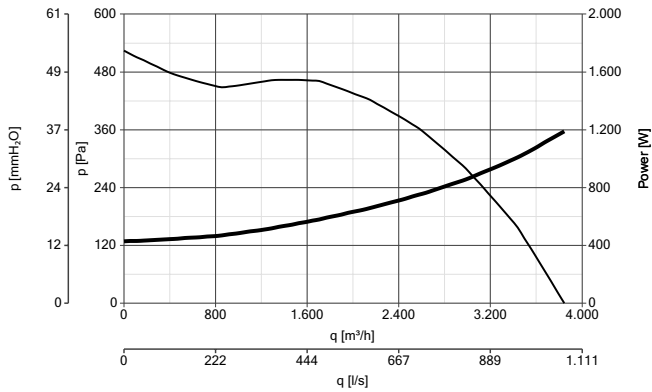
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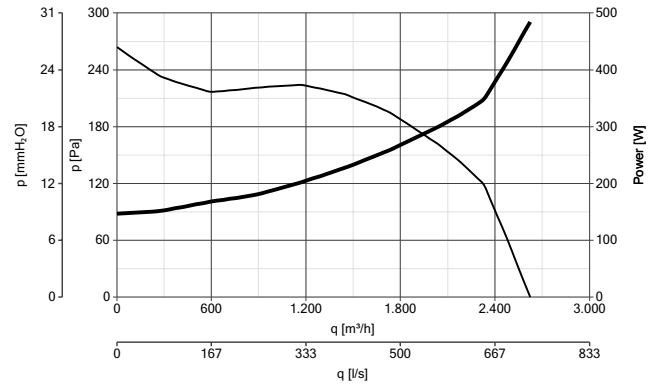


PERFORMANCES CURVES

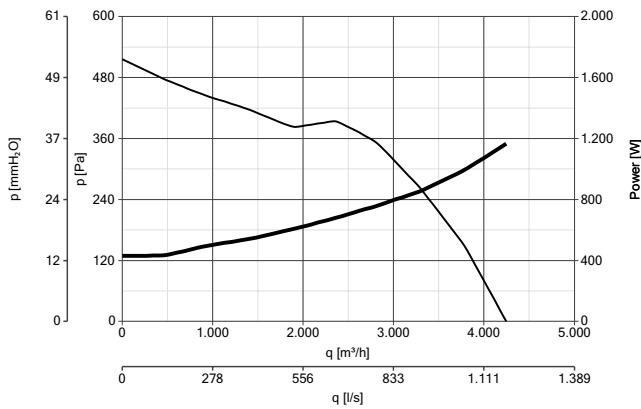
VORT QBK 10/8 4M



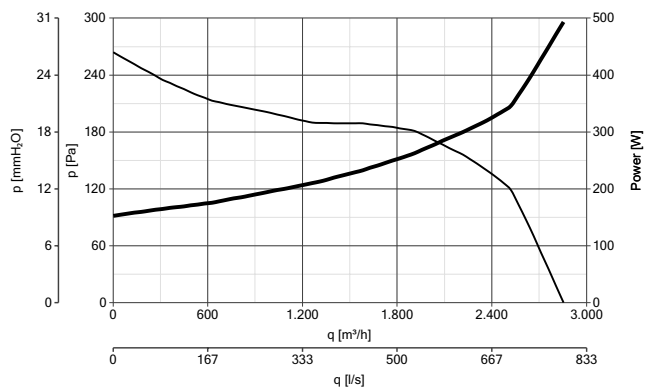
VORT QBK 10/8 6M



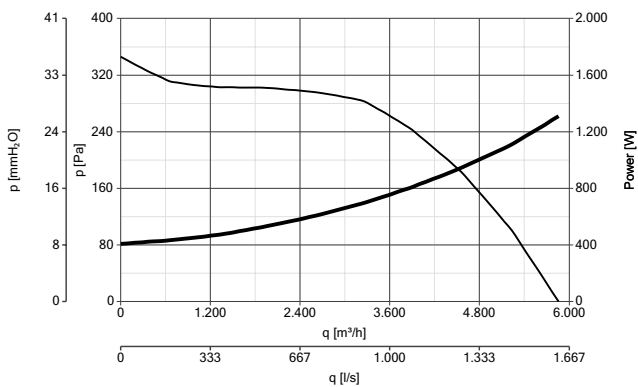
VORT QBK 10/10 4M



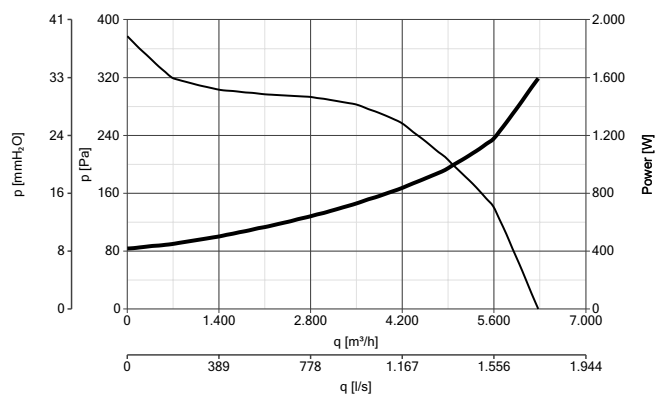
VORT QBK 10/10 6M



VORT QBK 12/9 6M



VORT QBK 12/12 6M





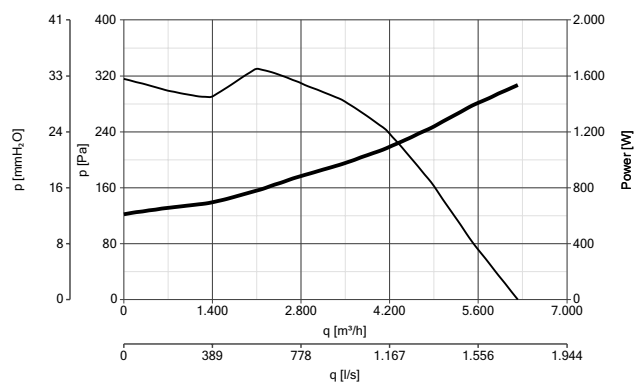
VORT QBK RANGE

NEW

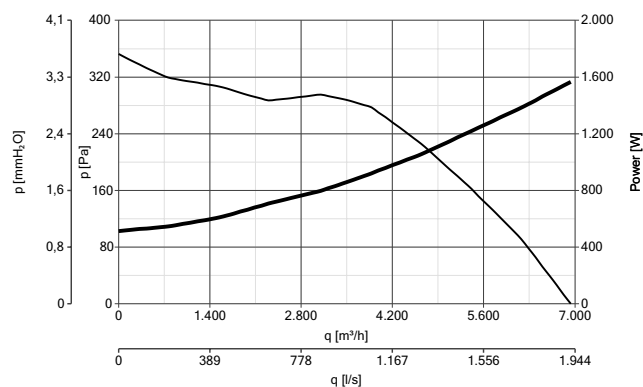
High efficiency cabinet fans

PERFORMANCES CURVES

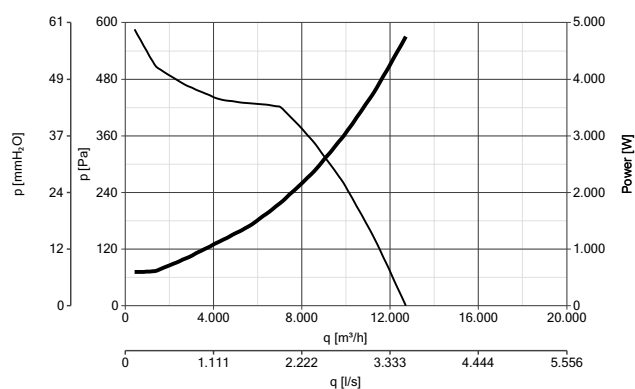
VORT QBK 12/9 6T



VORT QBK 12/12 6T



VORT QBK 15/15 6T





CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM EMC 1.5 - Electronic speed regulator with EMC filter, switch and potentiometer, for the control of single-phase fans. Enclosure for wall installation featuring IP54 protection, for the regulation of single-phase fans. Maximum allowable load: 1,5 A.	21921	45732 - 45736
	IREM EMC 3 - Electronic speed regulator with EMC filter, switch and potentiometer, for the control of single-phase fans. Enclosure for wall installation featuring IP54 protection, for the regulation of single-phase fans. Maximum allowable load: 3 A.	21922	45731 - 45733 - 45734 - 45735 45740
	IREM EMC 5 - Electronic speed regulator with EMC filter, switch and potentiometer, for the control of single-phase fans. Enclosure for wall installation featuring IP54 protection, for the regulation of single-phase fans. Maximum allowable load: 5 A.	21923	45737 - 45738 - 45739
	IREM EMC 10 - Electronic speed regulator with EMC filter, switch and potentiometer, for the control of single-phase fans. Enclosure for wall installation featuring IP54 protection, for the regulation of single-phase fans. Maximum allowable load: 10 A.	21924	45741 - 45742
	IREM INVERTER 230 7A - Frequency speed regulator with sinusoidal filter; operated and single-phase output, maximum load 7 A.	12874	
	IREM INVERTER 400 5A - Frequency speed regulator with sinusoidal filter; operated and single-phase output, maximum load 5 A.	12879	
	IREM INVERTER 400 8A - Frequency speed regulator with sinusoidal filter; operated and single-phase output, maximum load 8 A.	12880	
	SWT 25 3P - Safety On/Off switch, maximum load 25 A		

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK GP - IN - Protective grille to be applied on the extraction	21857	45731 - 45732
		21861	45735 - 45736 - 45733 - 45734
		21865	45739 - 45740 - 45737 - 45738
		21869	45742 - 45744 - 45741 - 45743
		21871	45745
		21858	45731 - 45732
	QBK GP - OUT - Protective grille to be applied to the discharge	21862	45735 - 45736 - 45733 - 45734
		21866	45739 - 45740 - 45737 - 45738
		21870	45742 - 45744 - 45741 - 45743
		21872	45745



VORT QBK RANGE

NEW

High efficiency cabinet fans

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK FL - IN - Panel with circular flange to be applied on the extraction	21873	45731 - 45732
		21877	45735 - 45736 - 45733 - 45734
		21881	45739 - 45740 - 45737 - 45738
		21885	45742 - 45744 - 45741 - 45743
		21887	45745
	QBK FL - OUT - Panel with circular flange to be applied to the discharge	21858	45731 - 45732
		21862	45735 - 45736 - 45733 - 45734
		21866	45739 - 45740 - 45737 - 45738
		21870	45742 - 45744 - 45741 - 45743
		21872	45745
	QBK PRF -IN - Panel with flexible circle-circle connection flange to be applied on the extraction	21889	45731 - 45732
		21893	45735 - 45736 - 45733 - 45734
		21897	45739 - 45740 - 45737 - 45738
		21901	45742 - 45744 - 45741 - 45743
		21903	45745
	QBK PRF -OUT - Panel with circle-circle flexible connection flange to be applied to the discharge	21890	45731 - 45732
		21894	45735 - 45736 - 45733 - 45734
		21889	45739 - 45740 - 45737 - 45738
		21902	45742 - 45744 - 45741 - 45743
		21904	45745



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK GGR - Adjustment shutter	21905	45731 - 45732
		21907	45735 - 45736 - 45733 - 45734
		21909	45739 - 45740 - 45737 - 45738
		21911	45742 - 45744 - 45741 - 45743
		21912	45745
	QBK PC - Blind ring in galvanized steel sheet which allows the fan extraction position to be changed	21913	45731 - 45732
		21915	45735 - 45736 - 45733 - 45734
		21917	45739 - 45740 - 45737 - 45738
		21919	45742 - 45744 - 45741 - 45743
		21920	45745



VORT QBK RANGE

NEW

High efficiency cabinet fans

APPLICATIONS



APPLICATIONS





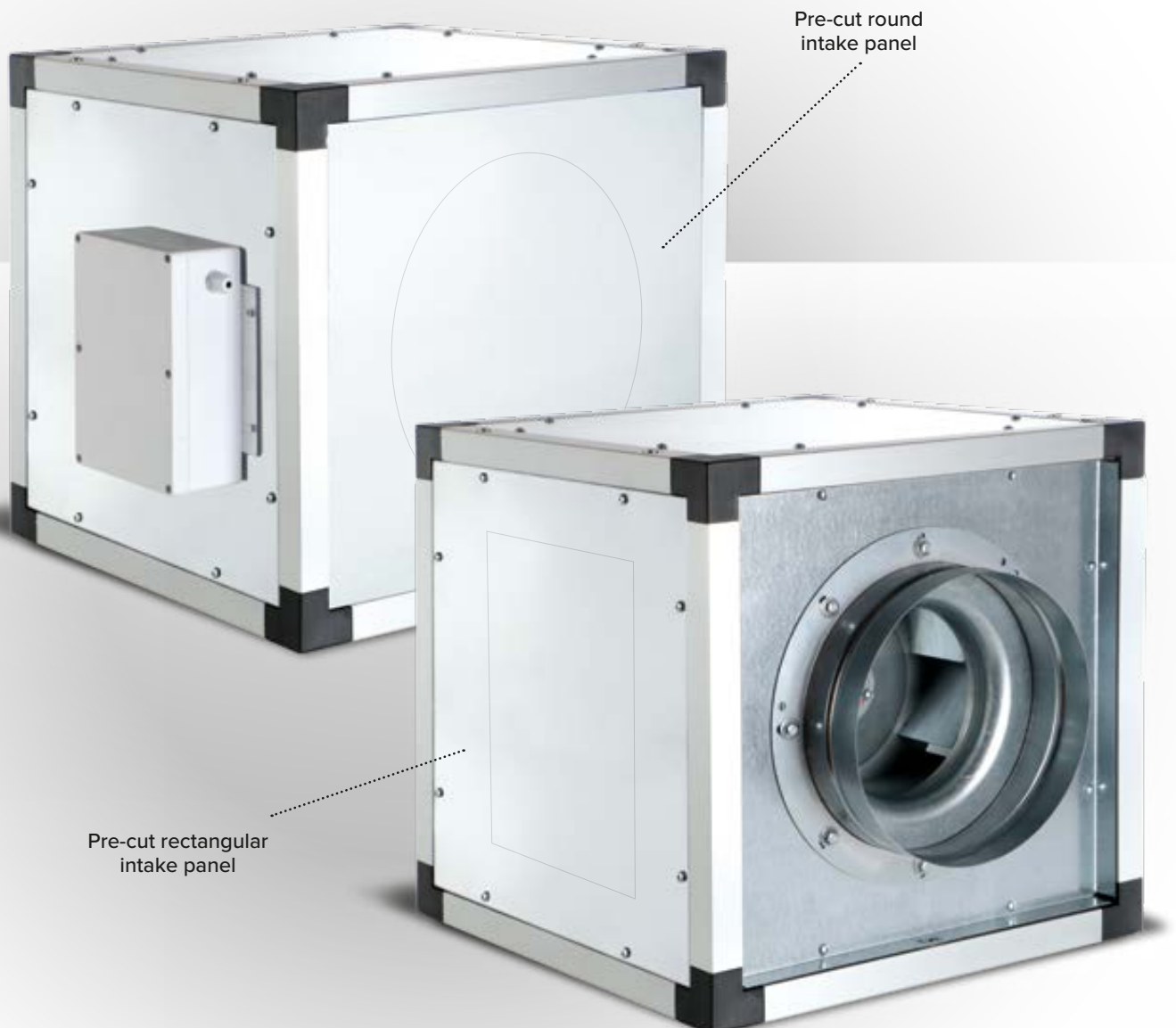
VORT QBK HE SAL RANGE

NEW

High efficiency self-supporting cabinet fans

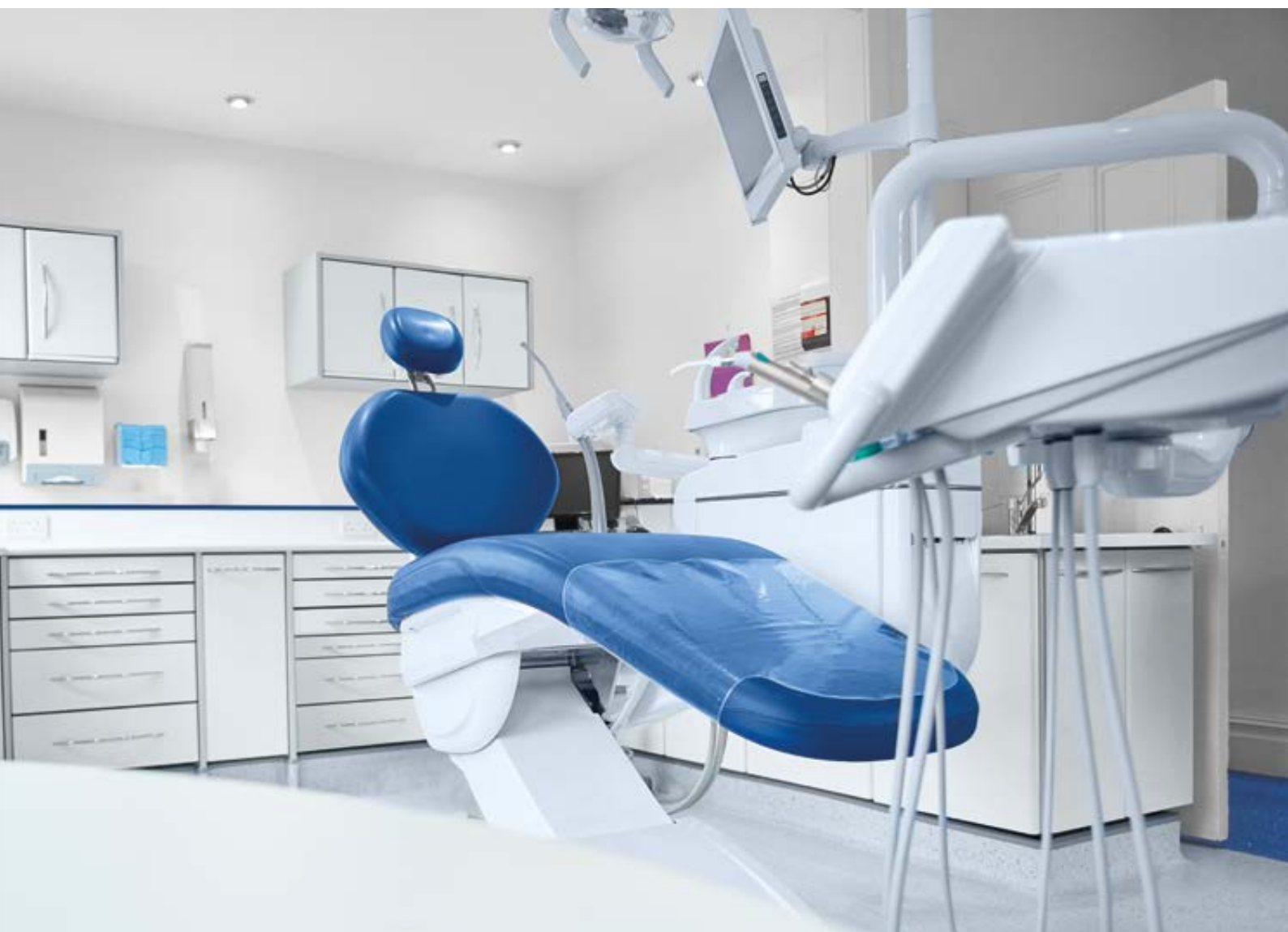
High efficiency self-supporting cabinet fans with modular structure, designed for installation in ventilation ducts of business and industrial premises (bathrooms, offices, laboratories, shops, laundries, restaurants, hotels, bars).

- Simple and flexible installation, thanks to the proportionally reduced dimensions and the possibility to re-position the delivery panels according to system requirements.
- Suitable for outdoor installation (optional rain guard).
- Wide continuous operation temperature range.



TECHNICAL FEATURES

- 15 models, 7 single phase and 8 three phase.
- Structure in extruded aluminium profiles, thickness 30 mm, joined by angular couplings PA loaded with glass fibre.
- Galvanised sheet steel sandwich panels with thickness of 23 mm; mineral wool cladding, density 90 kg/m³.
- Two round and rectangular-shaped pre-cut intakes made on two adjoining panels that are easily interchangeable depending on the layout of the ventilation system, allowing for a simplified connection to ducts of different shapes.
- Extraction side circular spigots including cylindrical fittings, complete with rubber gasket for coupling to ducts.
- Delivery side square spigots.
- Internal coupling ports at the impellers to maximise operating efficiency.
- Self-cleaning, centrifugal, backward-curve blade impellers, statically and dynamically balanced, directly coupled to the Single and Three phase motors according to the model. Compliant with the requirements of the Erp N.327/2011/EU Regulation.
- 4 or 6-pole fan motors, IP55, Class F insulation, with thermal protection and suitable for frequency adjustment (no need for sinusoidal filters in the case of three-phase units). Shafts turning in self-lubricating ball bearings that ensure reliable functioning of the units at an ambient temperature up to + 60°C when the products are powered at 230 V / 50 Hz (single-phase devices), or at 400 V / 50 Hz (three-phase devices).





VORT QBK HE SAL RANGE

NEW

High efficiency self-supporting cabinet fans

TECHNICAL DATA

	PRODUCTS	CODE	V~HZ	W MAX	A MAX	RPM	MAX FLOW RATE		MAX PRESSURE		°C* MAX	IP motor	KG
							m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK HE SAL 250 M EC 	45765	230~50	4800	-	2000	1083	301	31.4	307.9	40	55	23,10
	VORT QBK HE SAL 315 M EC 	45771	230~50	350	-	1400	3057	849	53.70	526.6	40	55	31.60
	VORT QBK HE SAL 315 4M	45766	230~50	250	1,55	1400	2159	600	28.30	277.5	40	55	31.60
	VORT QBK HE SAL 355 4M	45767	230~50	340	1,93	1390	3310	919	35.50	348.1	40	55	38.30
	VORT QBK HE SAL 400 4M	45768	230~50	610	3,98	1440	4715	1310	46.10	452.1	40	55	49.40
	VORT QBK HE SAL 450 4M	45769	230~50	920	7,45	1450	7084	1968	58.80	576.7	40	55	63.60
	VORT QBK HE SAL 500 4M	45770	230~50	1480	9,83	1435	9548	2652	72.30	709	40	55	103.90
THREE PHASE	VORT QBK HE SAL 315 4T	45772	230/400~50	200	0,62	1400	2195	610	28.90	283.4	40	55	31.50
	VORT QBK HE SAL 355 4T	45773	230/400~50	320	0,79	1390	3268	908	36.20	355	40	55	38.20
	VORT QBK HE SAL 400 4T	45774	230/400~50	570	1,49	1440	4732	1315	46.90	459.9	40	55	49.30
	VORT QBK HE SAL 450 4T	45775	230/400~50	930	2,49	1450	7142	1984	60.30	591.4	40	55	73.60
	VORT QBK HE SAL 500 4T	45776	230/400~50	1460	3,26	1435	9501	2639	73	715.9	40	55	109.90
	VORT QBK HE SAL 560 4T	45777	230/400~50	2430	4,64	1440	12358	3433	90.70	889.5	40	55	140.90
	VORT QBK HE SAL 630 4T	45778	230/400~50	4510	8,32	1450	18152	5042	118.60	1163.1	40	55	174.40
	VORT QBK HE SAL 710 6T	45779	230/400~50	2230	5,94	960	16725	4646	65.70	644.3	40	55	231.50

* Product continuous operation maximum temperature.

** Data not available.

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE SAL 250 EC	VORT QBK HE SAL 315 EC	VORT QBK HE SAL 315 4M	VORT QBK HE SAL 355 4M
CODE		45765	45771	45766	45767
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	0.20	0.37	0.37	0.57
Effective electric power input	kW	0.13	0.16	0.40	0.42
SFPint ****	W/(m³/s)	628.12	426.26	426.26	723.76
Face velocity at nominal flow rate	m/s	4.06	4.68	5.06	5.81
Nominal external pressure (Δps, ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	252	191.59	187.83	240.96
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	39.5	46.18	34.50	35.29
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	70	67	67	71

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components.
****VSD: with variable speed drive



ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE SAL 400 4M	VORT QBK HE SAL 450 4M	VORT QBK HE SAL 500 4M
CODE		45768	45769	45770
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA
Nominal flow rate	m³/s	0.85	1.25	1.65
Effective electric power input	kW	0.87	1.23	1.97
SFPint ****	W/(m³/s)	1021.75	989.45	1190.87
Face velocity at nominal flow rate	m/s	6.77	7.84	8.41
Nominal external pressure (Δps, ext)	Pa		0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	328.68	423.82	526.44
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	34.13	45.57	47.30
Maximum percentage of internal leakage of the case	%	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA
Sound power LWA on the case	dB(A)	76	80	83

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive

	UNIT OF MEASUREMENT	VORT QBK HE SAL 315 4T	VORT QBK HE SAL 355 4T	VORT QBK HE SAL 400 4T	VORT QBK HE SAL 450 4T
CODE		45772	45773	45774	45775
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	0.37	0.57	0.84	1.23
Effective electric power input	kW	0.17	0.31	0.56	1
SFPint ****	W/(m³/s)	456.41	547.4	670.25	723.76
Face velocity at nominal flow rate	m/s	4.79	5.72	6.67	7.76
Nominal external pressure (Δps, ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	187.83	244.07	332.88	427.84
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	42.97	46.98	52.43	55.92
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	67	71	76	80

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive



VORT QBK HE SAL RANGE

NEW

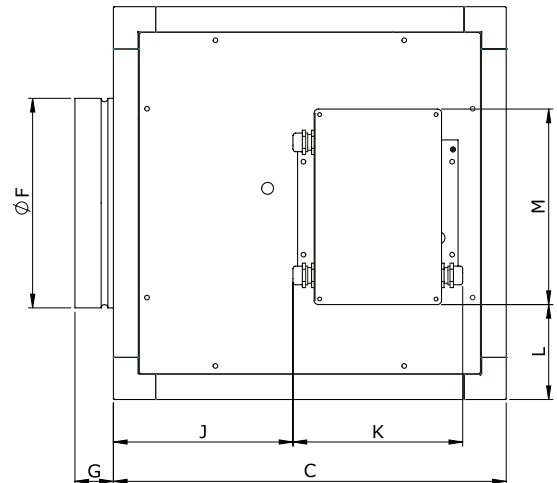
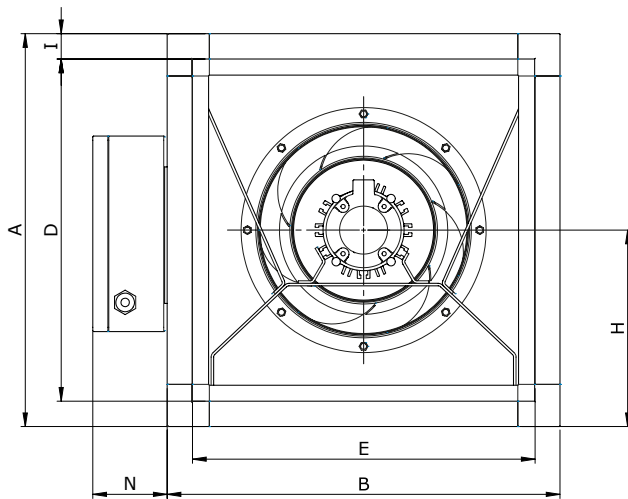
High efficiency self-supporting cabinet fans

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE SAL 500 4T	VORT QBK HE SAL 560 4T	VORT QBK HE SAL 630 4T	VORT QBK HE SAL 710 6T
CODE		45776	45777	45778	45779
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	1.64	2.15	3.09	2.93
Effective electric power input	kW	1.61	2.38	4.38	2.4
SFPint ****	W/(m³/s)	979.86	1111.27	426.26	817.97
Face velocity at nominal flow rate	m/s	8.37	8.71	9.91	7.4
Nominal external pressure (Δps, ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	528.77	628.84	811.64	451.69
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	57.07	59.52	60.30	58.06
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	83	85	89	83

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive

DIMENSIONS



PRODUCTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VORT QBK HE SAL 250 EC	465	465	465	405	405	248	46	232.5	30	212	201	112	232	88
VORT QBK HE SAL 315 4M	525	525	525	465	465	298	46	262.5	30	-	-	-	-	-
VORT QBK HE SAL 355 4M	585	585	585	525	525	353	46	292.5	30	-	-	-	-	-
VORT QBK HE SAL 400 4M	650	650	650	590	590	398	46	325	30	-	-	-	-	-
VORT QBK HE SAL 450 4M	725	725	725	665	665	448	46	362.5	30	-	-	-	-	-
VORT QBK HE SAL 500 4M	800	800	800	740	740	498	46	400	30	-	-	-	-	-
VORT QBK HE SAL 315 EC	525	525	525	465	465	298	46	262.5	30	262	201	142	232	88
VORT QBK HE SAL 315 4T	525	525	525	465	465	298	46	262.5	30	-	-	-	-	-
VORT QBK HE SAL 355 4T	585	585	585	525	525	353	46	292.5	30	-	-	-	-	-
VORT QBK HE SAL 400 4T	650	650	650	590	590	398	46	325	30	-	-	-	-	-
VORT QBK HE SAL 450 4T	725	725	725	665	665	448	46	362.5	30	-	-	-	-	-
VORT QBK HE SAL 500 4T	800	800	800	740	740	498	46	400	30	-	-	-	-	-
VORT QBK HE SAL 560 4T	870	870	870	810	810	558	46	435	30	-	-	-	-	-
VORT QBK HE SAL 630 4T	945	945	945	885	885	628	46	472.5	30	-	-	-	-	-
VORT QBK HE SAL 710 6T	1020	1020	1020	960	960	708	46	510	30	-	-	-	-	-

Dimensions (mm)



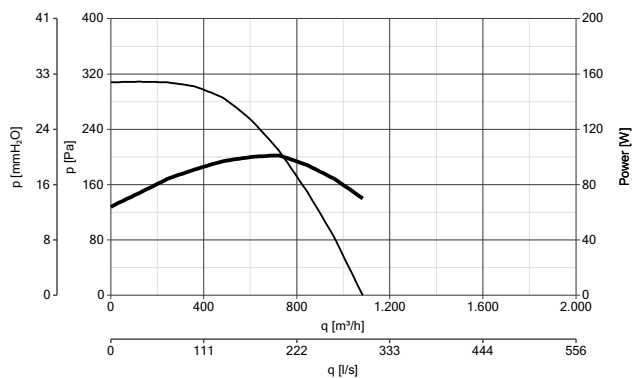
VORT QBK HE SAL RANGE

NEW

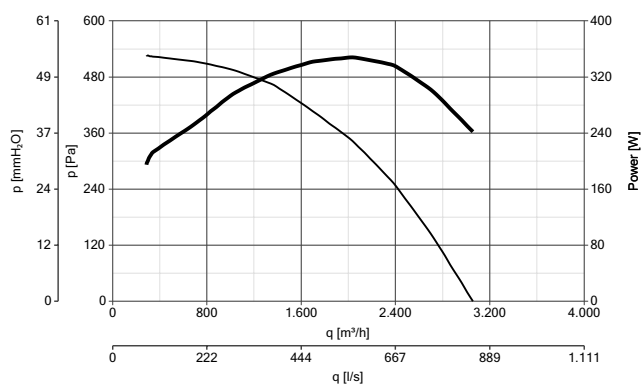
High efficiency self-supporting cabinet fans

PERFORMANCES CURVES

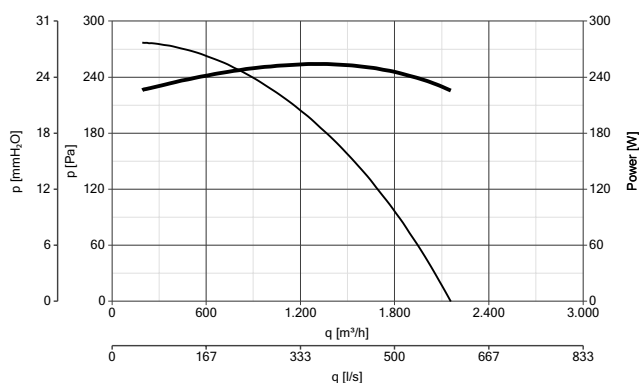
VORT QBK HE SAL 250 EC



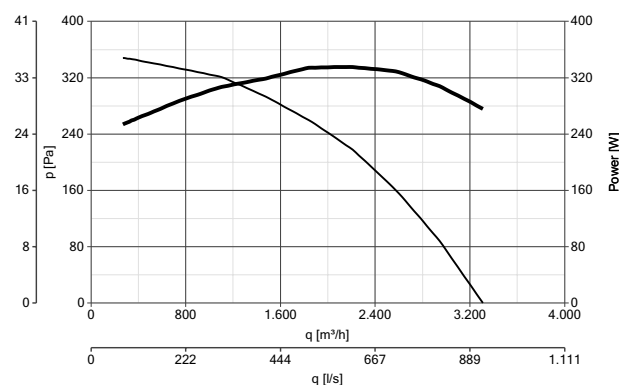
VORT QBK HE SAL 315 EC



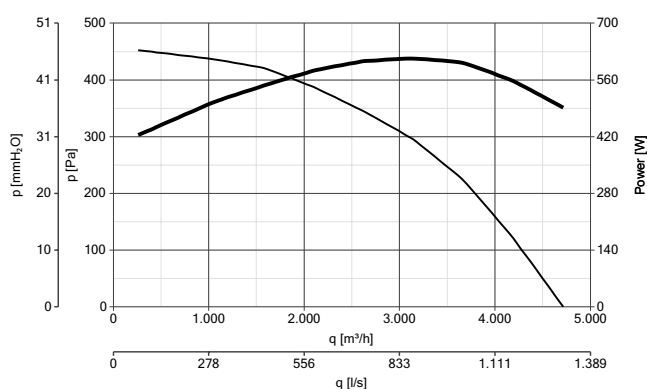
VORT QBK HE SAL 315 4M



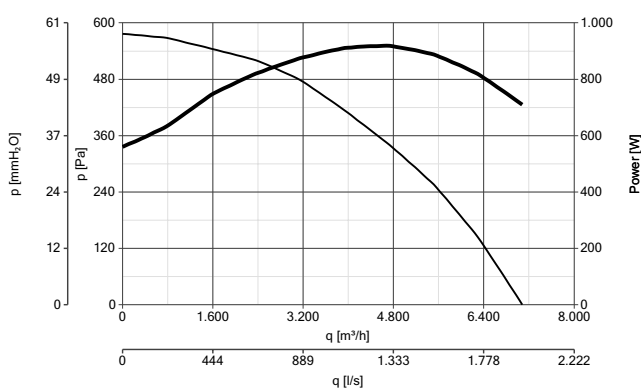
VORT QBK HE SAL 355 4M



VORT QBK HE SAL 400 4M



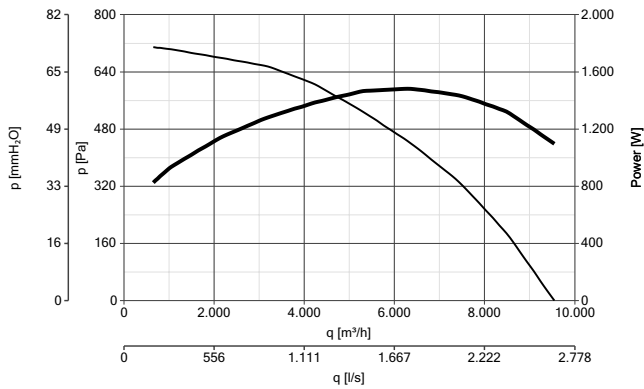
VORT QBK HE SAL 450 4M



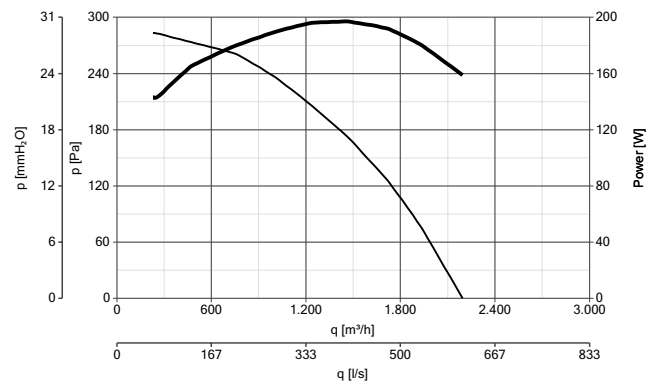


PERFORMANCES CURVES

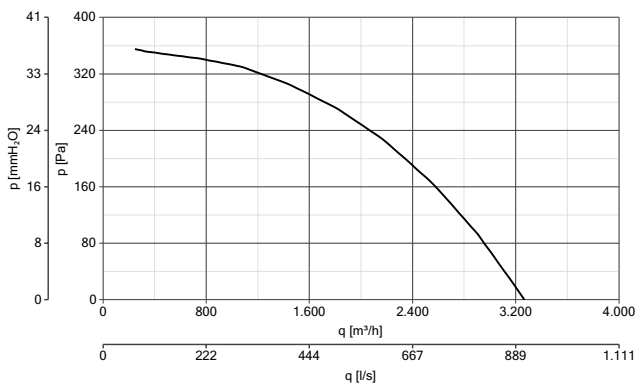
VORT QBK HE SAL 500 4M



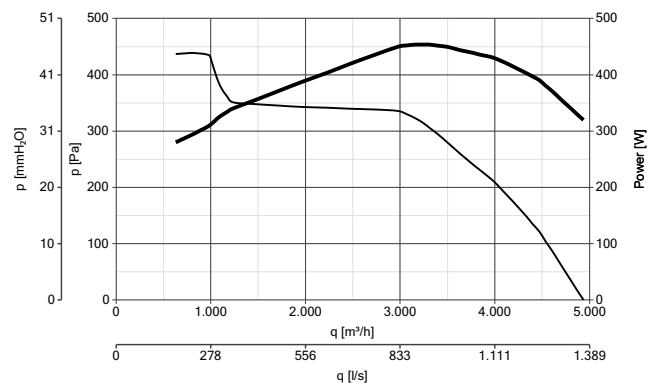
VORT QBK HE SAL 315 4T



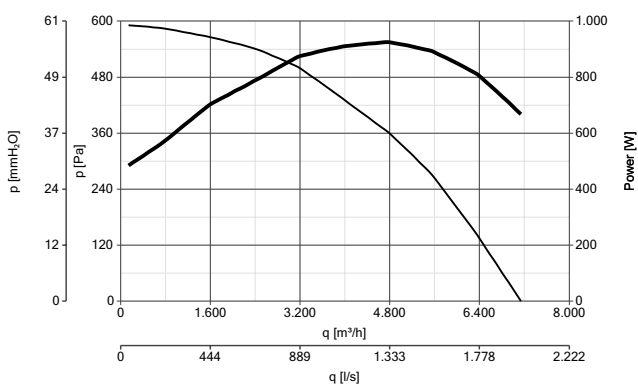
VORT QBK HE SAL 355 4T



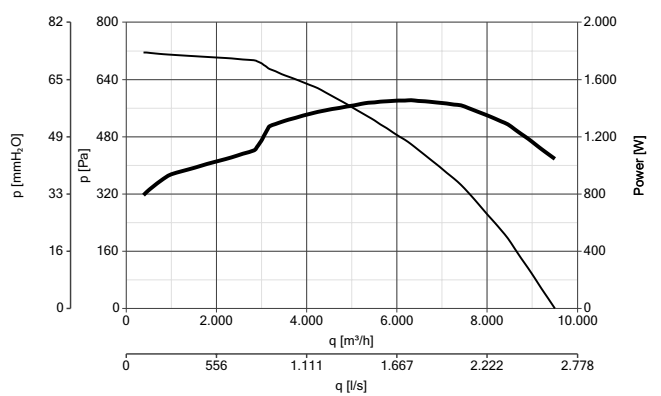
VORT QBK HE SAL 400 4T



VORT QBK HE SAL 450 4T



VORT QBK HE SAL 500 4T



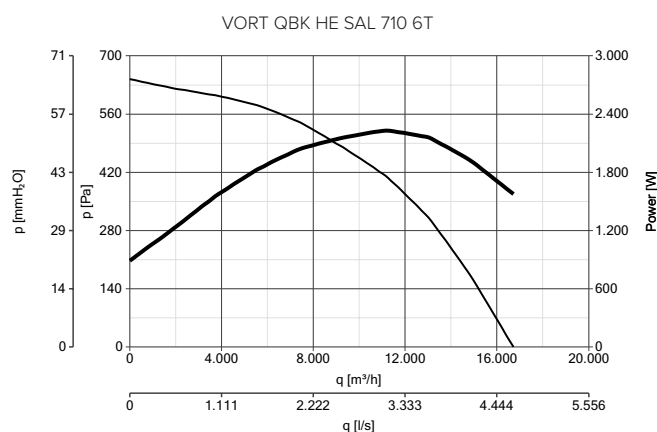
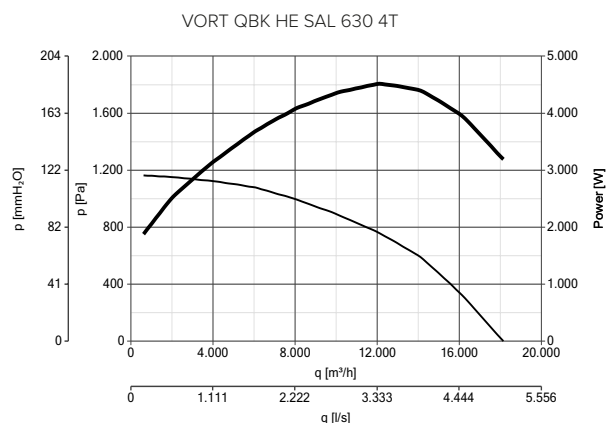
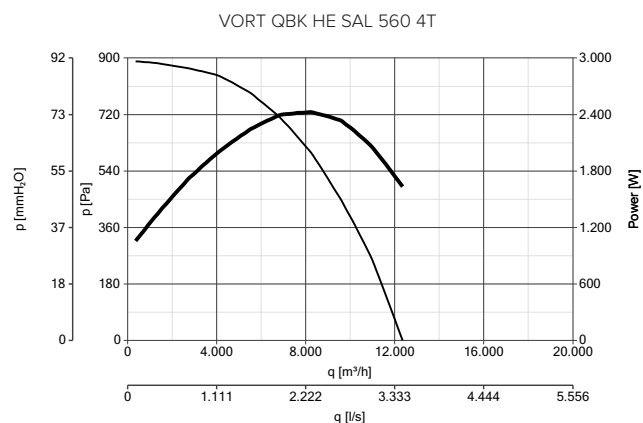


VORT QBK HE SAL RANGE

NEW

High efficiency self-supporting cabinet fans

PERFORMANCES CURVES



FREQUENCY INVERTERS WITH SINUSOIDAL FILTER

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM INVERTER 4 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 4A.	12815	45767 - 45768 - 45766
	IREM INVERTER 6 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 6A.	12818	45769
	IRET INVERTER 2.5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 2.5A.	12816	45772 - 45733 - 45774
	IRET INVERTER 5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 5A.	12817	45775



CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM INVERTER 230 2.5 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 2.5 A.	12872	45766 - 45767
	EMC-M FTR 2.5 - 4.2 A - EMC filter for single phase loads of between 2.5 and 4.2 A	21873	
	IREM INVERTER 230 4.2 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 4.2 A.	12873	45768
	EMC-M FTR 2.5 - 4.2 A - EMC filter for single phase loads of between 2.5 and 4.2 A	21873	
	IREM INVERTER 230 10 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 10 A.	12875	45769 - 45770
	EMC-M FTR 2.5 - 10 A - EMC filter for single phase maximum load 7 A	21839	
	IREM INVERTER 400 1.2 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 1.2 A.	12876	45772 - 45733
	EMC-M FTR 1.2 - 2.2 A - EMC filter for three phase between 1.2 and 2.2 A	21840	
	IREM INVERTER 400 1.2 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 2.2 A.	12877	45774
	EMC-M FTR 1.2 - 2.2 A - EMC filter for three phase between 1.2 and 2.2 A	21840	
	IREM INVERTER 400 3.6 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 3.6 A.	12878	45775 - 45776
	EMC-M FTR 3.6 A - EMC filter for three phase maximum load 3.6 A	21841	
	IREM INVERTER 400 5 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 5 A.	12879	45777
	EMC-M FTR 5 - 8 A - EMC filter for three phase between 5 and 8 A	21842	
	IREM INVERTER 400 8 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 8 A.	12880	45779
	EMC-M FTR 5 - 8 A - EMC filter for three phase between 5 and 8 A	21842	
	IREM INVERTER 400 12 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 12 A.	12881	45778
	EMC-M FTR 12 - 16 A - EMC filter for three phase between 12.5 and 16 A	21843	
	POT Potentiometer that can be wall-mounted or recessed in a DIN Standard electric box.	12828	45765 - 45771
	SWT 16 - Safety On/Off switch, maximum load 16A	25059	All models



VORT QBK HE SAL RANGE

High efficiency self-supporting cabinet fans

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK - HE SAL RRC - Rain guard	21450	45765
		21451	45771 - 45766 - 45772
		21452	45767 - 45773
		21453	45768 - 45774
		21454	45769 - 45775
		21455	45770 - 45776
		21456	45777
		21457	45778
		21458	45779
		21567	45765
	QBK - HE GP - Protection grille (to apply onto the outlet spigot)	21568	45771 - 45766 - 45772
		21569	45767 - 45773
		21570	45768 - 45774
		21571	45769 - 45775
		21572	45770 - 45776
		21573	45777
		21574	45778
		21575	45779
		26862	45765
		26863	45771 - 45766 - 45772
	QBK - HE MFL - Circular flange to apply onto the outlet spigot	26864	45767 - 45773
		26865	45768 - 45774
		26866	45769 - 45775
		26867	45770 - 45776
		26868	45777
		26869	45778
		26870	45779
		21413	All models

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK SAVIB - Vibration damper supports	21412	45765 - 45776 - 45767 45771 - 45772 - 45733
		21414	45768 - 45769 - 45774 - 45775
		21586	45770 - 45776
		21415	45770 - 45776 - 45777 45778 - 45779
		21416	45794
	QBK - HE RF - Flexible fitting	21585	45765
		25063	45771 - 45766 - 45772
		25064	45767 - 45773
		25065	45768 - 45774
		21589	45769 - 45775
		25066	45770 - 45776
		25067	45777
		21592	45778
		21593	45779

APPLICATIONS





VORT QBK SAL ES RANGE

Double inlet cabinet fans

Double inlet cabinet fans with modular structure, equipped with EC (brushless) motors to contain consumption, designed for installation in ventilation ducts of business and industrial premises (bathrooms, offices, laboratories, shops, laundries, restaurants, hotels, bars).

- EC motors.
- Simple and flexible installation, thanks to the proportionally reduced dimensions and the possibility to re-position the inspection, inlet and delivery panels according to system requirements.
- Suitable for outdoor installation (optional rain guard).



Simple and flexible installation,
thanks to the possibility to re-position
the panels according to system
requirements.



TECHNICAL FEATURES

- 5 single phase models.
- Strong, weatherproof modular construction, made up from aluminium profile frames UNI 9006 and joined by die-cast aluminium corner pieces, enclosed by 6/10" galvanised sheet steel sandwich panels with thickness of 23 mm and soundproofed by placing expanded polyurethane between the two (density 40 kg/m³).
- Inspection panels with handle opened using triangular key.
- Pre-cut delivery panels for connection to square ducting.
- Pre-cut intake panels for connection to circular ducting.
- Fan motor groups characterised by forward curved centrifugal impellers with double inlet, simple delivery, made of galvanised sheet steel, dynamically balanced (ISO 1940 Standard, Point 1, Class 6.3), coupled directly to the heat protected EC motors (brushless), in class F and with shafts on ball bearings for virtually "maintenance free" operation at plate maximum environment temperature, speed adjustable via external potentiometer (0-10V signal).
- Cable gland for electric power supply cables integrated into the front panel.
- Protection rating from dusts and water: IP20.
- Class of electric isolation: I (earthing required).

NOTE

The VORT QBK SAL ES range fans are compliant with the ErP N. 327/2011/EU Reg.





VORT QBK SAL ES RANGE

Double inlet cabinet fans

TECHNICAL DATA

	PRODUCTS	CODE	V~50/60HZ	W	A	RPM*	MAX FLOW RATE		MAX PRESSURE		°C** MAX	IP motor	KG
				MAX	MAX		m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK SAL ES 1000	45290	230	260	1.8	2100	1241	345	74	725.7	40	20	26
	VORT QBK SAL ES 7/7 M	45291	230	1100	4.6	2000	3263	906	60	588.4	40	44	28
	VORT QBK SALES 9/9 M	45292	230	1100	4.6	1110	3544	984	90	882.6	40	44	38
	VORT QBK SAL ES 10/10 M	45293	230	1100	4.6	1000	4585	1274	120	1176.9	40	44	41
	VORT QBK SAL ES 12/12 M	45295	230	1700	7.0	850	5966	1657	118	1159.3	40	54	71

* RPM measured in the point of Maximum Air Flow.

** Product continuous operation maximum temperature.

Note

The performance data are relative to the F.M.W.L. (Fan Max Working Limit) maximum use curve obtained with the highest DC motor setting.

The speeds of the ventilating units are adjustable with an external potentiometer (DC 0-5V or 0-10V signal).

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK SAL ES 1000	VORT QBK SAL ES 7/7 M	VORT QBK SALES 9/9 M	VORT QBK SAL ES 10/10 M	VORT QBK SAL ES 12/12 M
CODE		45290	45291	45292	45293	45295
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	VSD***	VSD***	VSD***	VSD***	VSD***
Type of heat exchanger system HRS	-	none	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA	NA
Nominal flow rate	m³/s	0.24028	0.61389	0.75639	1.03389	1.4275
Effective electric power input	kW	0,258	0,773	1,036	1,016	1,063
SFPint ****	W/(m³/s)	415.81	532.28	188.56	487.83	604.48
Face velocity at nominal flow rate	m/s	4.8949	12.50604	9.70586	8.22743	8.97555
Nominal external pressure (Δps, ext)	Pa	199	300	535	227	70
Internal pressure drop of the ventilation components (Δps, int)	Pa	126	220	85	223	300
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0	0
Static efficiency of the fans used according to the 327/2011/EU Regulation	%	30.3	41.3	45.3	45.8	49.7
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	61	73	71	64	66

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components.

****VSD: with variable speed drive

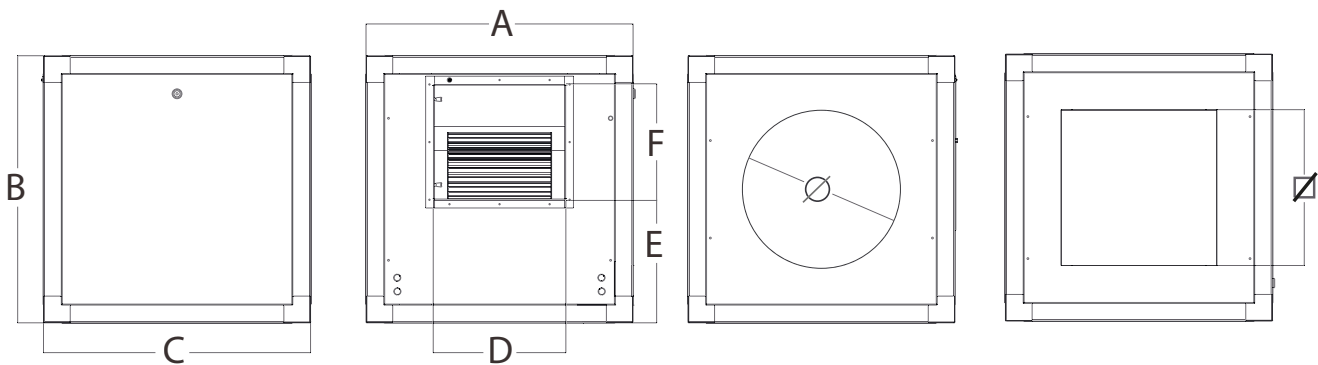


SOUND LEVELS

	PRODUCTS	CODE	SPEED	125 Hz	250 Hz	500 HZ	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW dB(A)	Lp dB(A) 1 m*
SINGLE PHASE	VORT QBK SAL ES 1000	45290	MAX	38.9	40.7	46.4	51.4	52.3	49.4	39.6	60.9	40.9
	VORT QBK SAL ES 7/7 M	45291	MAX	50.0	57.1	58.6	64.9	63.5	61.2	53.8	73.2	52.7
	VORT QBK SALES 9/9 M	45292	MAX	49.7	50.7	64.0	60.9	59.3	57.4	47.7	71.2	50.7
	VORT QBK SAL ES 10/10 M	45293	MAX	52.4	53.8	52.4	54.9	52.3	49.5	36.0	64.4	43.9
	VORT QBK SAL ES 12/12 M	45295	MAX	49.9	56.9	55.0	55.8	55.7	48.4	35.8	66.4	45.9

* Sound pressure measured at 1 m in free field in compliance with the ISO 3741 Standard.

DIMENSIONS



PRODUCTS	A	B	C	D	E	F	Ø	Ø
VORT QBK SAL ES 1000	500	500	500	226	270	110	250	250
VORT QBK SAL ES 7/7 M	500	500	500	232	229	208	250	250
VORT QBK SALES 9/9 M	600	600	600	298	170	262	355	350
VORT QBK SAL ES 10/10 M	600	600	600	331	248	289	400	400
VORT QBK SAL ES 12/12 M	700	700	700	395	296	341	450	450

Dimensions (mm)

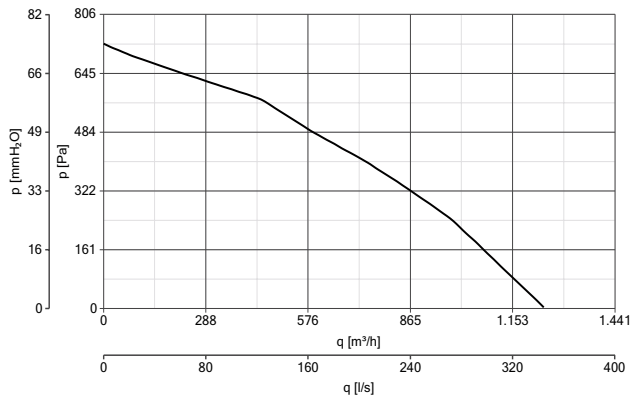


VORT QBK SAL ES RANGE

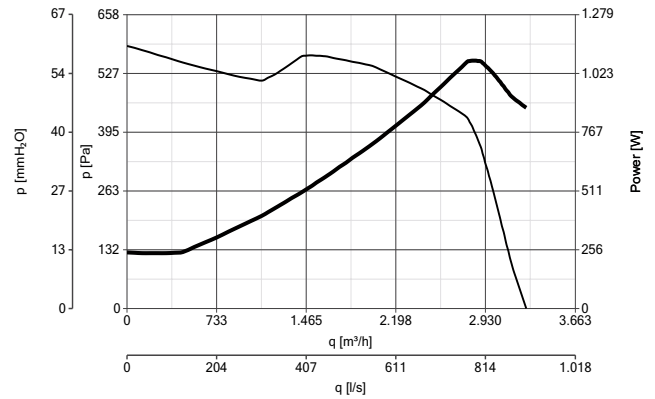
Double inlet cabinet fans

PERFORMANCES CURVES

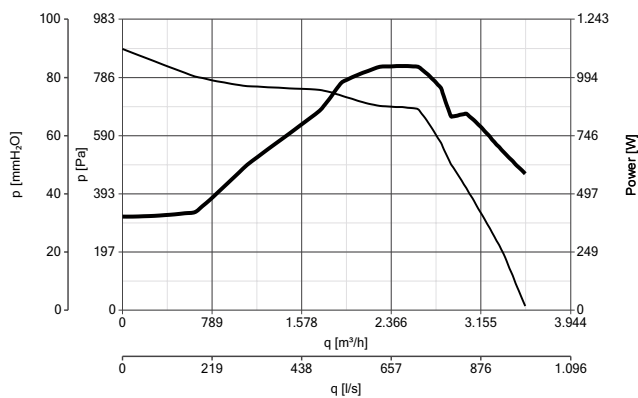
VORT QBK SAL ES 1000



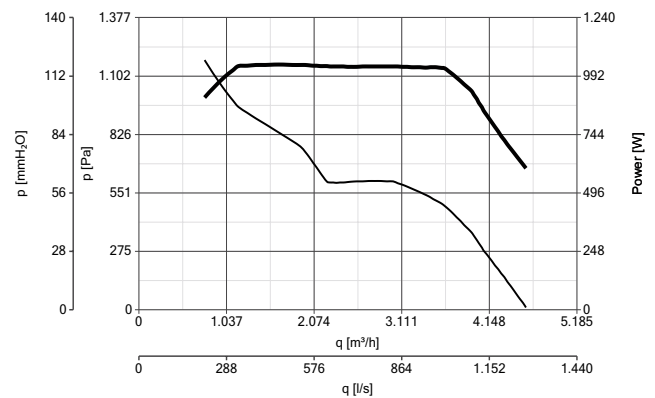
VORT QBK SAL ES 7/7 M



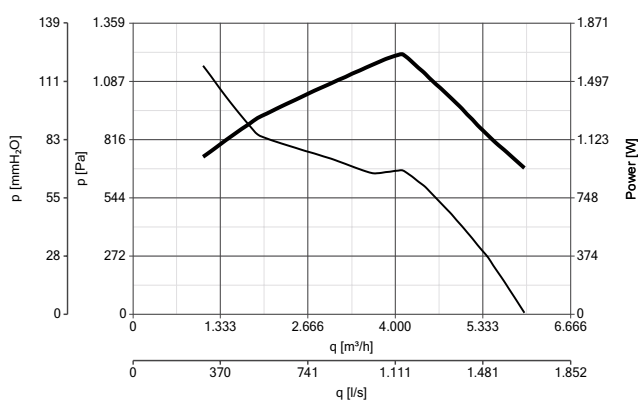
VORT QBK SAL ES 9/9 M



VORT QBK SAL ES 10/10 M



VORT QBK SAL ES 12/12 M



— Power absorbed
— Static pressure



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK ABC - Sleeve	7/7 - 9/9 24200	45290 - 45291 - 45292
		10/10 - 12/12 24202	45293 - 45295
	QBK RRS - Round nipple joint for intake	GR Ø 250 24205	45290 - 45291
		GR Ø 315 24206	45292
		GR Ø 400 24207	45293
		GR Ø 450 24208	45295
	QBK RRC - Rain guard	7/7 - 9/9 24209	45290 - 45291 - 45292
		10/10 24210	45293
		12/12 24211	45295
	QBK F - Feet	24204	All products

APPLICATIONS





VORT QBK HE COMFORT RANGE

NEW

High efficiency self-supporting cabinet fans

Self-supporting, high efficiency cabinet fans with soundproofed and modular structure, designed for installation in the ventilation ducts of commercial and industrial premises (bathrooms, offices, laboratories, shops, laundries, restaurants, hotels, bars), where containment of the sound emissions radiated constitutes an essential requirement.

- Silent, thanks to the casing in thick, sound-absorbing sandwich panels.
- Simple and flexible installation, thanks to the proportionally reduced dimensions and the possibility to re-position the delivery panels according to system requirements.
- Suitable for outdoor installation (optional rain guard).
- Wide continuous operation temperature range.



TECHNICAL FEATURES

- 15 models, 7 single phase and 8 three phase.
- Structure in extruded aluminium profiles, thickness 50 mm, joined by angular couplings PA loaded with glass fibre.
- Galvanised sheet steel sandwich panels with thickness of 45 mm, to guarantee high soundproofing; mineral wool cladding, density 50kg/m³.
- Two round and rectangular-shaped pre-cut intakes made on two adjoining panels that are easily interchangeable depending on the layout of the ventilation system, allowing for a simplified connection to ducts of different shapes.
- Extraction side circular spigots including cylindrical fittings, complete with rubber gasket for coupling to ducts.
- Delivery side square spigots.
- Internal coupling ports at the impellers to maximise operating efficiency.
- Self-cleaning, centrifugal, backward-curve blade impellers, statically and dynamically balanced, directly coupled to the Single and Three phase motors according to the model. Compliant with the requirements of the Erp N.327/2011/EU Regulation.
- 4 or 6-pole fan motors, IP55, Class F insulation, with thermal protection and suitable for frequency adjustment (no need for sinusoidal filters in the case of three-phase units). Shafts turning in self-lubricating ball bearings that ensure reliable functioning of the units at an ambient temperature up to + 60°C when the products are powered at 230 V / 50 Hz (single-phase devices), or at 400 V / 50 Hz (three-phase devices).





VORT QBK HE COMFORT RANGE

NEW

High efficiency self-supporting cabinet fans

TECHNICAL DATA

	PRODUCTS	CODE	V~HZ	W MAX	A MAX	RPM	MAX FLOW RATE		MAX PRESSURE		°C* MAX	IP motor	KG
							m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK HE COMFORT 250 M EC 	45780	230~50	100	-	2000	1083	301	31.40	307.9	40	55	24.9
	VORT QBK HE COMFORT 315 M EC 	45786	230~50	350	-	1400	3057	849	53.70	526.6	40	55	33.9
	VORT QBK HE COMFORT 315 4M	45781	230~50	250	1,5	1400	2159	600	28.30	277.5	40	55	33.9
	VORT QBK HE COMFORT 355 4M	45782	230~50	340	1,93	1390	3310	919	35.50	348.1	40	55	41,10
	VORT QBK HE COMFORT 400 4M	45783	230~50	610	3,98	1440	4715	1310	46.10	452.1	40	55	52.6
	VORT QBK HE COMFORT 450 4M	45784	230~50	920	7,45	1450	7084	1968	58.80	576.7	40	55	62.2
	VORT QBK HE COMFORT 500 4M	45785	230~50	1480	9,83	1435	9548	2652	72.30	709	40	55	108
THREE PHASE	VORT QBK HE COMFORT 315 4T	45787	230/400~50	200	0,62	1400	2195	610	28.90	283.4	40	55	33.8
	VORT QBK HE COMFORT 355 4T	45788	230/400~50	320	0,79	1390	3268	908	36.20	355	40	55	41
	VORT QBK HE COMFORT 400 4T	45789	230/400~50	570	1,49	1440	4732	1315	46.90	459.9	40	55	52.5
	VORT QBK HE COMFORT 450 4T	45790	230/400~50	930	2,49	1450	7142	1984	60.30	591.4	40	55	77.2
	VORT QBK HE COMFORT 500 4T	45791	230/400~50	1460	3,26	1435	9501	2639	73.00	715.9	40	55	114
	VORT QBK HE COMFORT 560 4T	45792	230/400~50	2430	4,64	1440	12358	3433	90.70	889.5	40	55	145.6
	VORT QBK HE COMFORT 630 4T	45793	230/400~50	4510	8,32	1450	18152	5042	118.60	1163.1	40	55	179.9
	VORT QBK HE COMFORT 710 6T	45794	230/400~50	2230	5,94	960	16725	4646	65.70	644.3	40	55	238,10

* Product continuous operation maximum temperature.

** Data not available.

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE COMFORT 250 M EC	VORT QBK HE COMFORT 315 M EC	VORT QBK HE COMFORT 315 4M	VORT QBK HE COMFORT 355 4M
CODE		45780	45786	45781	45782
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	0.20	0.37	0.37	0.57
Effective electric power input	kW	0.13	0.16	0.40	0.42
SFPint ****	W/(m³/s)	628.12	418.15	426.26	723.76
Face velocity at nominal flow rate	m/s	4.06	4.79	5.06	5.81
Nominal external pressure (Δps, ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	258.87	187.8	187.83	240.96
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	39.5	46.03	34.50	35.29
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	67	64	64	68

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components.
****VSD: with variable speed drive



ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE COMFORT 400 M EC	VORT QBK HE COMFORT450 4M	VORT QBK HE COMFORT 500 4M
CODE		45783	45784	45785
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA
Nominal flow rate	m³/s	0.85	1.25	1.65
Effective electric power input	kW	0.87	1.23	1.97
SFPint ****	W/(m³/s)	1021.75	989.45	1190.87
Face velocity at nominal flow rate	m/s	6.77	7.84	8.41
Nominal external pressure (Δps, ext)	Pa	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	328.68	423.82	526.44
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	34.13	45.57	47.30
Maximum percentage of internal leakage of the case	%	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA
Sound power LWA on the case	dB(A)	73	77	80

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive

	UNIT OF MEASUREMENT	VORT QBK HE COMFORT 315 4T	VORT QBK HE COMFORT 355 4T	VORT QBK HE COMFORT 400 4T	VORT QBK HE COMFORT 450 4T
CODE		45787	45788	45789	45790
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	0.37	0.356	0.84	1.23
Effective electric power input	kW	0.21	0.36	0.65	1.03
SFPint ****	W/(m³/s)	563.61	643.77	773.31	831.71
Face velocity at nominal flow rate	m/s	4.79	5.69	6.67	7.76
Nominal external pressure (Δps, ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δps, int)	Pa	187.73	245.37	332.83	427.73
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (ηFAN)	%	35.30	41.05	46.29	55.36
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	64	68	73	77

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive



VORT QBK HE COMFORT RANGE

NEW

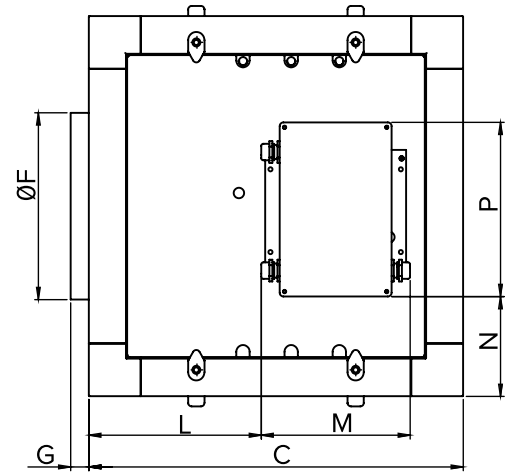
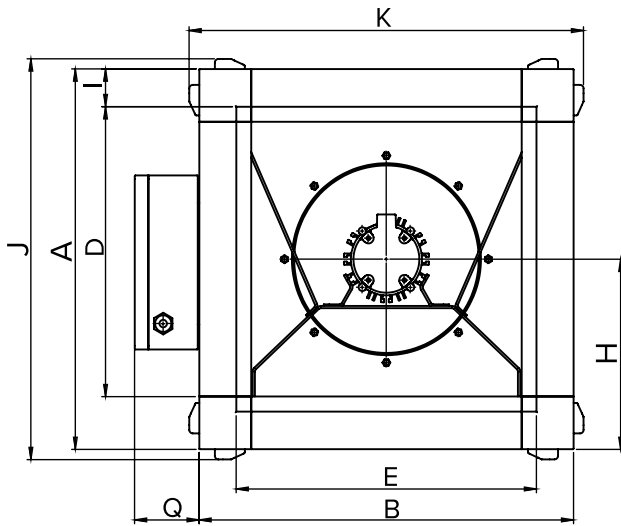
High efficiency self-supporting cabinet fans

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK HE COMFORT 500 4T	VORT QBK HE COMFORT 560 4T	VORT QBK HE COMFORT 630 4T	VORT QBK HE COMFORT 710 6T
CODE		45791	45792	45793	45794
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	****VSD	****VSD	****VSD	****VSD
Type of heat exchanger system HRS	-	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA
Nominal flow rate	m³/s	1.64	2.15	3.09	2.93
Effective electric power input	kW	1.66	2.48	4.48	2.45
SFPint ****	W/(m³/s)	1011.64	1155.08	1448.21	835.77
Face velocity at nominal flow rate	m/s	8.37	8.72	9.91	7.4
Nominal external pressure (Δp_s , ext)	Pa	0	0	0	0
Internal pressure drop of the ventilation components (Δp_s , int)	Pa	528.88	628.35	811.51	451.59
Internal pressure drop of the non-ventilation components (Δp_s , add)	Pa	0	0	0	0
Static efficiency in the nominal point of the ventilation unit (η_{FAN})	%	56.36	58.28	60.10	57.89
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	80	82	86	80

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components. ****VSD: with variable speed drive

DIMENSIONS



PRODUCTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
VORT QBK HE COMFORT 250 EC	505	505	505	405	405	248	25	252,5	50	532	532	232	201	132	232	88
VORT QBK HE COMFORT 315 4M	565	565	565	465	465	298	25	282,5	50	592	592	-	-	-	-	-
VORT QBK HE COMFORT 355 4M	625	625	625	525	525	353	25	312,5	50	652	652	-	-	-	-	-
VORT QBK HE COMFORT 400 4M	690	690	690	590	590	398	25	345	50	717	717	-	-	-	-	-
VORT QBK HE COMFORT 450 4M	765	765	765	665	665	448	25	382,5	50	792	792	-	-	-	-	-
VORT QBK HE COMFORT 500 4M	840	840	840	740	740	498	25	420	50	867	867	-	-	-	-	-
VORT QBK HE COMFORT 315 EC	565	565	565	465	465	298	25	282,5	50	592	592	262	201	162	232	88
VORT QBK HE COMFORT 315 4T	565	565	565	465	465	298	25	282,5	50	592	592	-	-	-	-	-
VORT QBK HE COMFORT 355 4T	625	625	625	525	525	353	25	312,5	50	652	652	-	-	-	-	-
VORT QBK HE COMFORT 400 4T	690	690	690	590	590	398	25	345	50	717	717	-	-	-	-	-
VORT QBK HE COMFORT 450 4T	765	765	765	665	665	448	25	382,5	50	792	792	-	-	-	-	-
VORT QBK HE COMFORT 500 4T	867	840	840	740	740	498	25	420	50	867	867	-	-	-	-	-
VORT QBK HE COMFORT 560 4T	910	910	910	810	810	558	25	455	50	937	937	-	-	-	-	-
VORT QBK HE COMFORT 630 4T	985	985	985	885	885	628	25	492,5	50	1012	1012	-	-	-	-	-
VORT QBK HE COMFORT 710 6T	1060	1060	1060	960	960	708	25	530	50	1087	1087	-	-	-	-	-

Dimensions (mm)



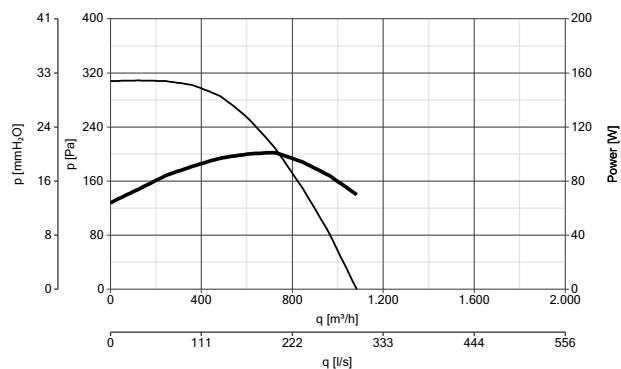
VORT QBK HE COMFORT RANGE

NEW

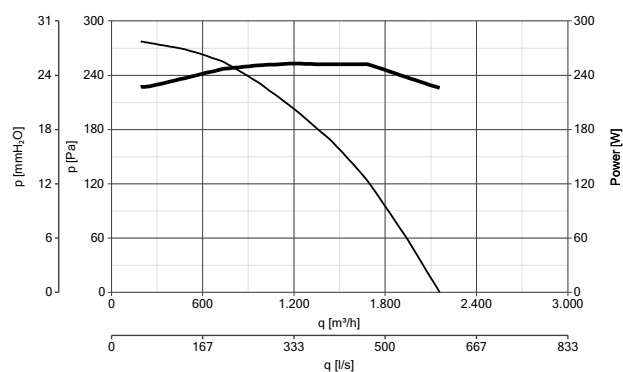
High efficiency self-supporting cabinet fans

PERFORMANCES CURVES

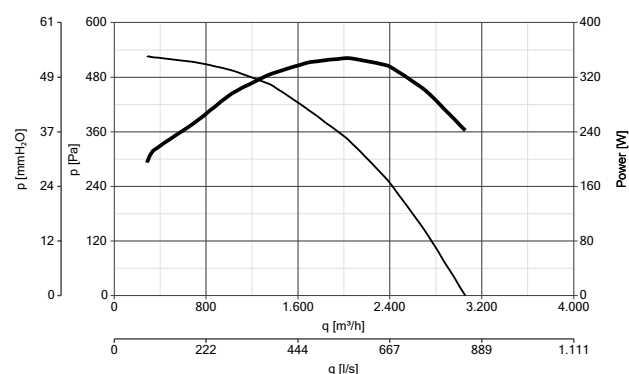
VORT QBK HE COMFORT 250 EC



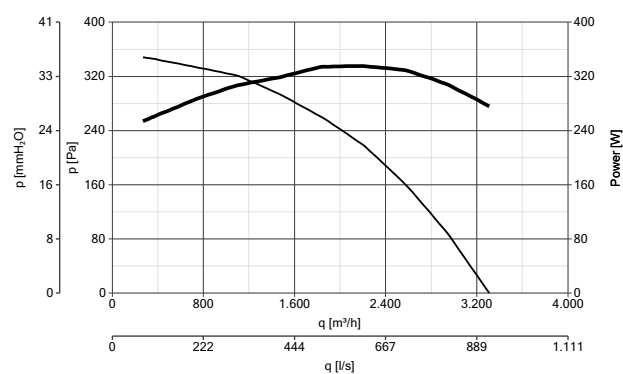
VORT QBK HE COMFORT 315 4M



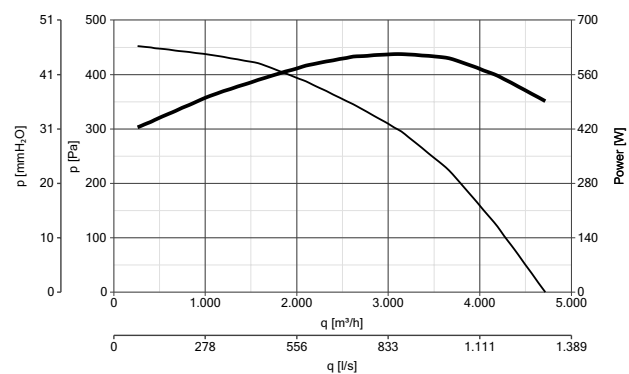
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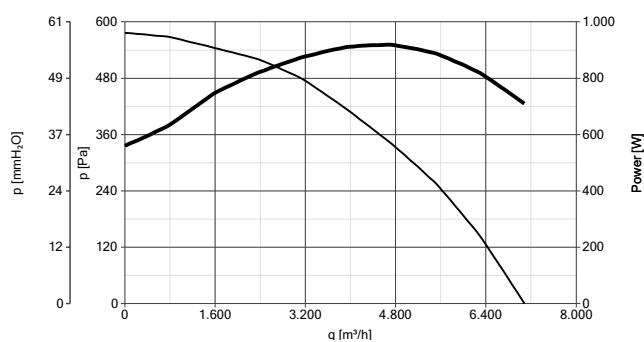
VORT QBK HE COMFORT 355 4M



VORT QBK HE COMFORT 400 4M



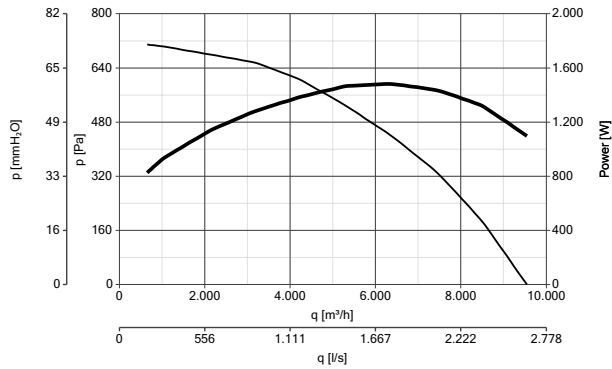
VORT QBK HE COMFORT 450 4M



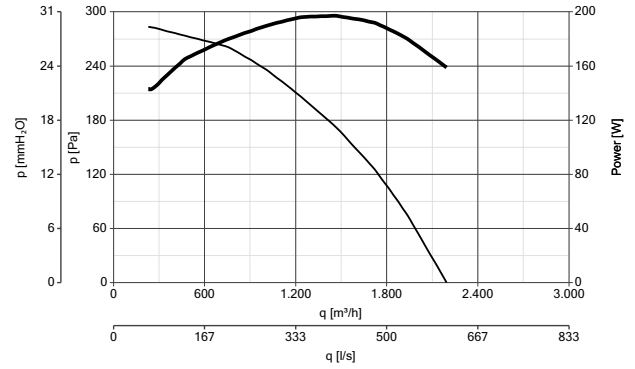


PERFORMANCES CURVES

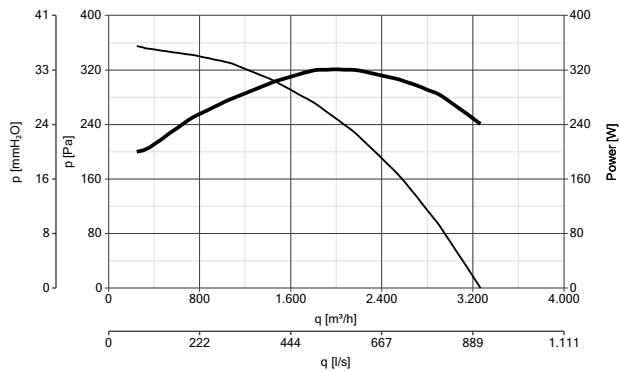
VORT QBK HE COMFORT 500 4M



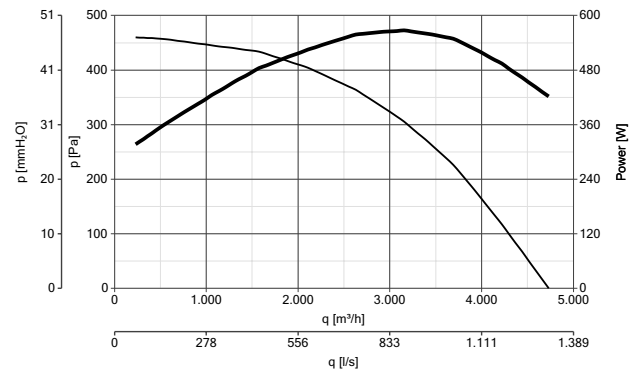
VORT QBK HE COMFORT 315 4T



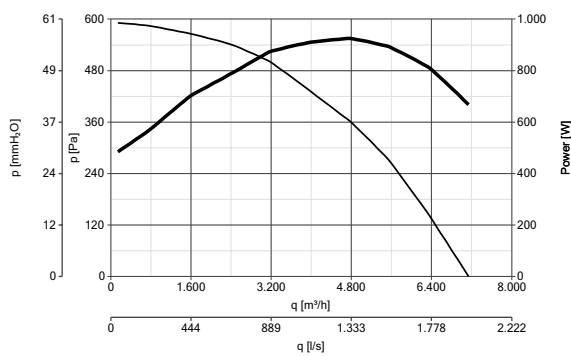
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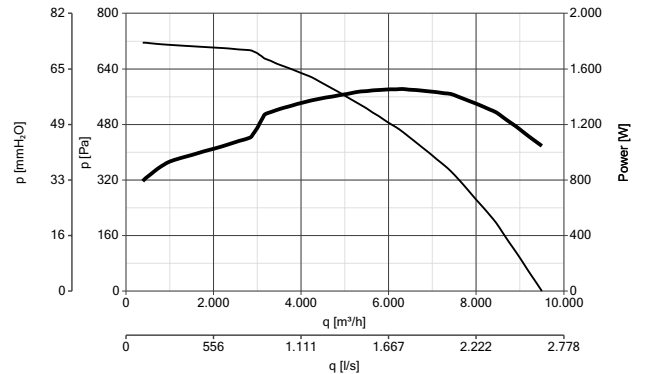
VORT QBK HE COMFORT 400 4T



VORT QBK HE COMFORT 450 4T



VORT QBK HE COMFORT 500 4T





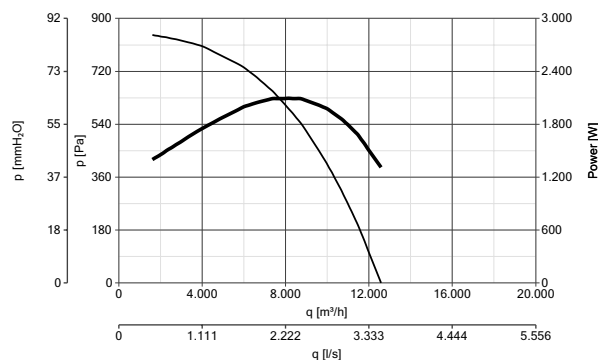
VORT QBK HE COMFORT RANGE

NEW

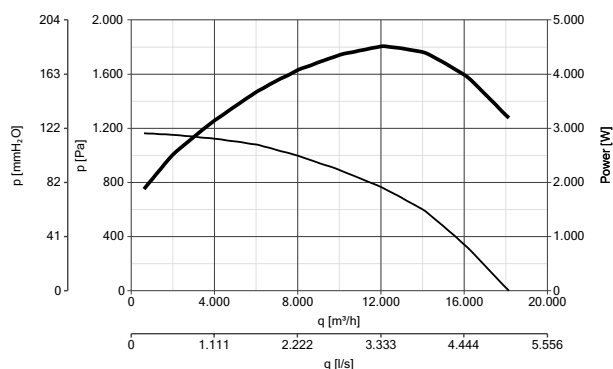
High efficiency self-supporting cabinet fans

PERFORMANCES CURVES

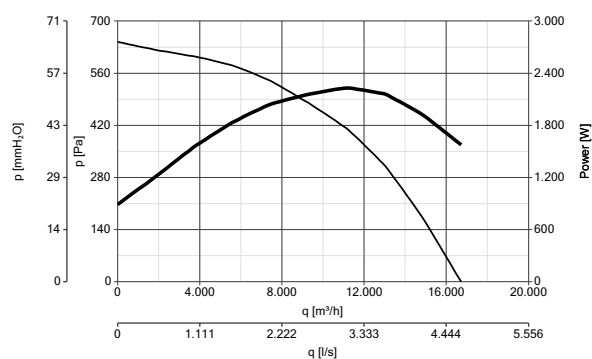
VORT QBK HE COMFORT 560 4T



VORT QBK HE COMFORT 630 4T



VORT QBK HE COMFORT 710 6T



FREQUENCY INVERTERS WITH SINUSOIDAL FILTER

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM INVERTER 4 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 4A.	12815	45781 - 45782 - 45783
	IREM INVERTER 6 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 6A.	12818	45784
	IRET INVERTER 2.5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 2.5A.	12816	45787 - 45788 - 45789
	IRET INVERTER 5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 5A.	12817	45790



CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM INVERTER 230 2.5 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 2.5 A.	12872	45781 - 45782
	EMC-M FTR 2.5 - 4.2 A - EMC filter for single phase loads of between 2.5 and 4.2 A	21873	
	IREM INVERTER 230 4.2 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 4.2 A.	12873	45783
	EMC-M FTR 2.5 - 4.2 A - EMC filter for single phase loads of between 2.5 and 4.2 A	21873	
	IREM INVERTER 230 10 A - Variable frequency speed controller; single-phase power supply, three phase power supply and output, maximum load 10 A.	12875	45784 - 45785
	EMC-M FTR 2.5 - 10 A - EMC filter for single phase maximum load 7 A	21839	
	IREM INVERTER 400 1.2 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 1.2 A.	12876	45787 - 45788
	EMC-M FTR 1.2 - 2.2 A - EMC filter for three phase between 1.2 and 2.2 A	21840	
	IREM INVERTER 400 1.2 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 2.2 A.	12877	45789
	EMC-M FTR 1.2 - 2.2 A - EMC filter for three phase between 1.2 and 2.2 A	21840	
	IREM INVERTER 400 3.6 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 3.6 A.	12878	45790 - 45791
	EMC-M FTR 3.6 A - EMC filter for three phase maximum load 3.6 A	21841	
	IREM INVERTER 400 5 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 5 A.	12879	45792
	EMC-M FTR 5 - 8 A - EMC filter for three phase between 5 and 8 A	21842	
	IREM INVERTER 400 8 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 8 A.	12880	45794
	EMC-M FTR 5 - 8 A - EMC filter for three phase between 5 and 8 A	21842	
	IREM INVERTER 400 12 A - Variable frequency speed controller; three-phase power supply, three phase power supply and output, maximum load 12 A.	12881	45793
	EMC-M FTR 12 - 16 A - EMC filter for three phase between 12.5 and 16 A	21843	
	POT Potentiometer that can be wall-mounted or recessed in a DIN Standard electric box.	12828	45780 - 45786
	SWT 16 - Safety On/Off switch, maximum load 16A	25059	All models



VORT QBK HE COMFORT RANGE

NEW

High efficiency self-supporting cabinet fans

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK - HE SAL RRC - Rain guard	21450	45780
		21451	45781 - 45786 - 45787
		21452	45782 - 45788
		21453	45783 - 45789
		21454	45784 - 45790
		21455	45785 - 45791
		21456	45792
		21457	45793
		21458	45794
		21567	45780
	QBK - HE GP - Protection grille (to apply onto the outlet spigot)	21568	45781 - 45786 - 45787
		21569	45782 - 45788
		21570	45783 - 45789
		21571	45784 - 45790
		21572	45785 - 45791
		21573	45792
		21574	45793
		21575	45794
		26862	45780
		26863	45781 - 45786 - 45787
	QBK - HE MFL - Circular flange to apply onto the outlet spigot	26864	45782 - 45788
		26865	45783 - 45789
		26866	45784 - 45790
		26867	45785 - 45791
		26868	45792
		26869	45793
		26870	45794
		21413	All models



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK SAVIB - Vibration damper supports	21412	45780 - 45781 - 45786 - 45787
		21414	45782 - 45783 - 45784 45788 - 45789
		21586	45785 - 45790
		21415	45785 - 45790 - 45791 45792 - 45793
		21416	45794
		21585	45780
	QBK - HE RF - Flexible fitting	25063	45781 - 45786 - 45787
		25064	45782 - 45788
		25065	45783 - 45789
		21589	45769 - 45775
		25066	45785 - 45791
		25067	45792
		21592	45793
		21593	45794

APPLICATIONS





VORT QBK COMFORT ES RANGE

Double inlet cabinet fans

Double inlet cabinet fans with soundproof, modular structure, equipped with EC (brushless) motors to contain consumption, designed for installation in ventilation ducts of business and industrial premises (bathrooms, offices, laboratories, shops, laundries, restaurants, hotels, bars), where containment of noise emission is an essential requirement.

- EC motors.
- Simple and flexible installation, thanks to the proportionally reduced dimensions and the possibility to re-position the inspection, inlet and delivery panels according to system requirements.
- Silent operation



Designed for applications in ventilation duct. Simple and flexible installation, thanks to the possibility to re-position the panels according to system requirements.

TECHNICAL FEATURES

- 5 single phase models.
- Strong, weatherproof modular construction, made up from aluminium profile frames UNI 9006 and joined by die cast aluminium corner pieces, enclosed by 6/10" galvanised sheet steel sandwich panels with thickness of 48 mm and soundproofed by placing mineral wool between the two (density 90 kg/m³), coated in fibre glass.
- Inspection panels with handle opened using triangular key.
- Intake and delivery panels complete with circular nipple.
- Fan motor groups characterised by forward curved centrifugal impellers with double inlet, simple delivery, made of galvanised sheet steel, dynamically balanced (ISO 1940 Standard, Point 1, Class 6.3), coupled directly to the heat protected EC motors (brushless), in class F and with shafts on ball bearings for virtually "maintenance free" operation at plate maximum environment temperature, speed adjustable via external potentiometer (0-10V signal).
- Cable gland for electric power supply cables integrated into the front panel.
- Protection rating from dusts and water: IP20.
- Class of electric isolation: I (earthing required).

NOTES

The fans in the VORT QBK COMFORT ES range are compliant with the ErP N. 327/2011/EU Reg.





VORT QBK COMFORT ES RANGE

Double inlet cabinet fans

TECHNICAL DATA

	PRODUCTS	CODE	V~50/60HZ	W MAX	A MAX	RPM*	MAX FLOW RATE		MAX PRESSURE		°C** MAX	IP motor	KG
							m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK COMFORT ES 1000	45170	230	260	1.8	2100	1241	345	74	725.7	40	20	35
	VORT QBK COMFORT ES 7/7 M	45171	230	1100	4.6	2000	3263	906	60	588.4	40	44	37
	VORT QBK COMFORT ES 9/9 M	45172	230	1100	4.6	1450	3544	984	88	863.0	40	44	38
	VORT QBK COMFORT ES 10/10 M	45173	230	1100	4.6	1100	4585	1274	120	1176.9	40	44	50
	VORT QBK COMFORT ES 12/12 M	45175	230	1700	7.0	950	5966	1657	118	1159.3	40	54	79

* RPM measured in the point of Maximum Air Flow.

** Product continuous operation maximum temperature.

Note:

The performance data are relative to the F.M.W.L. (Fan Max Working Limit) maximum use curve obtained with the highest DC motor setting.

The speeds of the ventilating units are adjustable with an external potentiometer (DC 0-5V or 0-10V signal).

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK COMFORT ES 1000	VORT QBK COMFORT ES 7/7 M	VORT QBK COMFORT ES 9/9 M	VORT QBK COMFORT ES 10/10 M	VORT QBK COMFORT ES 12/12 M
CODE		45170	45171	45172	45173	45175
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	VSD***	VSD***	VSD***	VSD***	VSD***
Type of heat exchanger system HRS	-	none	none	none	none	none
Heat efficiency of the heat recovery	%	NA	NA	NA	NA	NA
Nominal flow rate	m³/s	0.24583	0.54278	0.75500	1.02306	1.42722
Effective electric power input	kW	0,258	0,695	1,036	1,010	1,103
SFPint ****	W/(m³/s)	385.26	462.14	597.08	537.44	500.31
Face velocity at nominal flow rate	m/s	5.00808	11.05738	9.68804	8.14122	8.97381
Nominal external pressure (Δps, ext)	Pa	196	350	350	218	130
Internal pressure drop of the ventilation components (Δps, int)	Pa	114	198	270	260	240
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0	0	0	0
Static efficiency of the fans used according to the 327/2011/EU Regulation	%	29.5	42.8	45.2	48.4	47.9
Maximum percentage of internal leakage of the case	%	NA	NA	NA	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA	NA	NA	NA
Energy performance or energy classification of the filters	-	NA	NA	NA	NA	NA
Description of the visual filter warning	-	NA	NA	NA	NA	NA
Sound power LWA on the case	dB(A)	61	62	62	63	65

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components.

****VSD: with variable speed drive

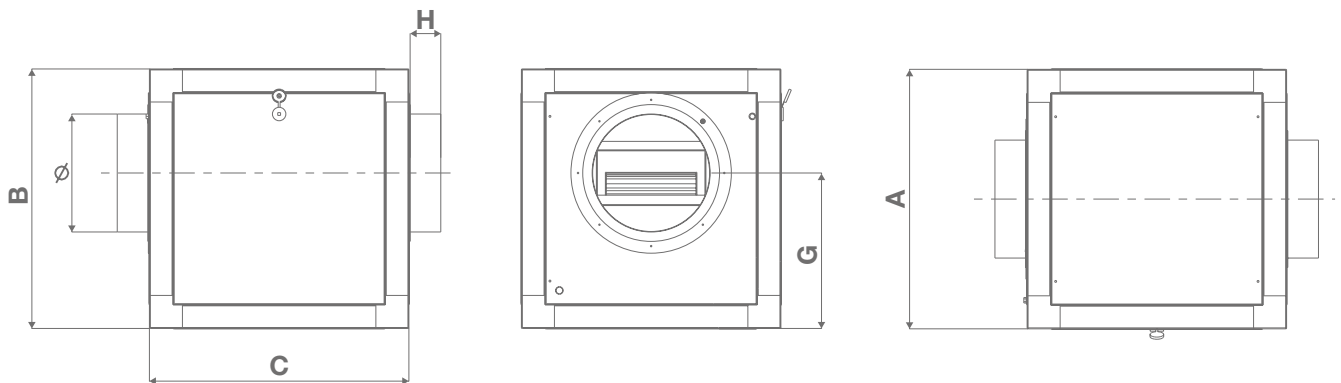


SOUND LEVELS

	PRODUCTS	CODE	SPEED	125 Hz	250 Hz	500 HZ	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW dB(A)	Lp dB(A) 1 m*
SINGLE PHASE	VORT QBK COMFORT ES 1000	45170	MAX	19.6	41.6	38.6	38.7	40.1	41.3	36.2	52.6	32.1
	VORT QBK COMFORT ES 7/7 M	45171	MAX	40.9	53.8	48.5	41.1	47.7	50.9	46.1	61.7	41.2
	VORT QBK COMFORT ES 9/9 M	45172	MAX	48.6	53.8	48.4	48.1	46.2	47.2	39.3	61.6	41.1
	VORT QBK COMFORT ES 10/10 M	45173	MAX	44.4	53.2	50.9	51.6	47.7	48.5	31.9	62.5	42.0
	VORT QBK COMFORT ES 12/12 M	45175	MAX	49.6	56.0	53.6	53.3	46.8	46.5	30.8	64.5	32.1

* Sound pressure measured at 1 m in free field in compliance with the ISO 3741 Standard.

DIMENSIONS



PRODUCTS	A	B	C	G	H	Ø
VORT QBK COMFORT ES 1000	550	550	550	330	65	250
VORT QBK COMFORT ES 7/7 M	550	550	550	330	60	250
VORT QBK COMFORT ES 9/9 M	650	650	650	317.5	60	315
VORT QBK COMFORT ES 10/10 M	650	650	650	375	90	400
VORT QBK COMFORT ES 12/12 M	750	750	750	450	90	450

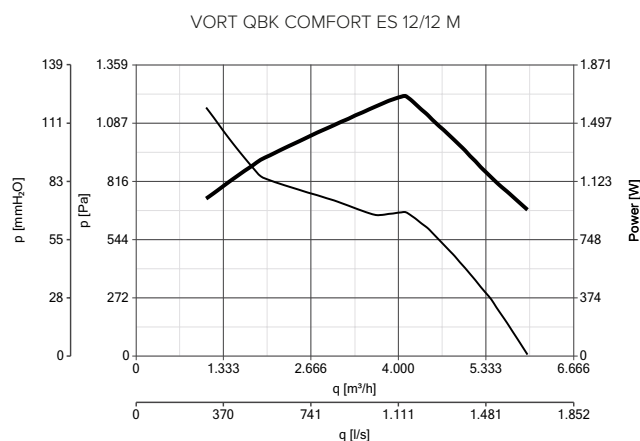
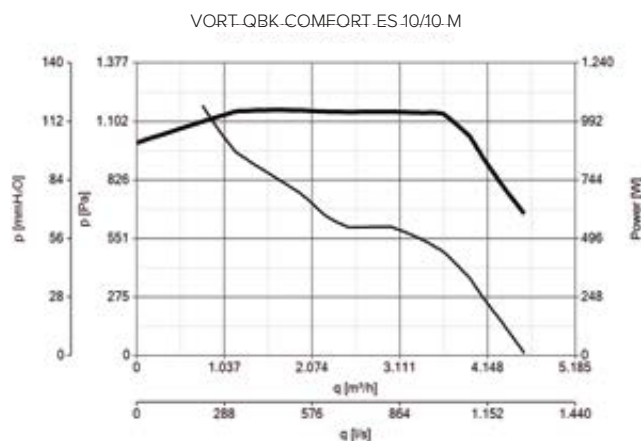
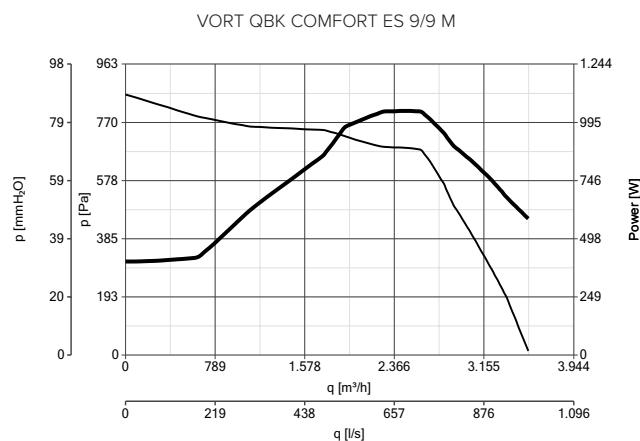
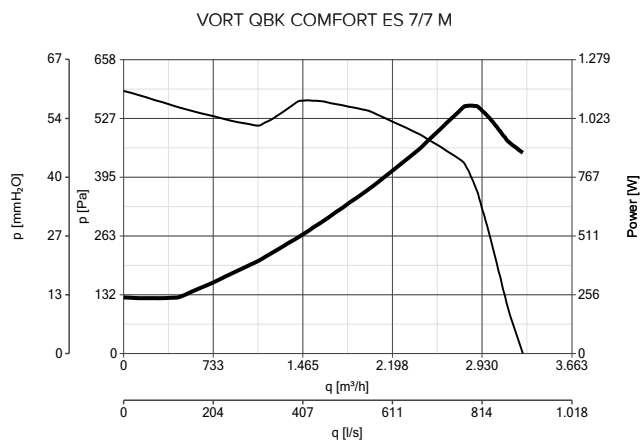
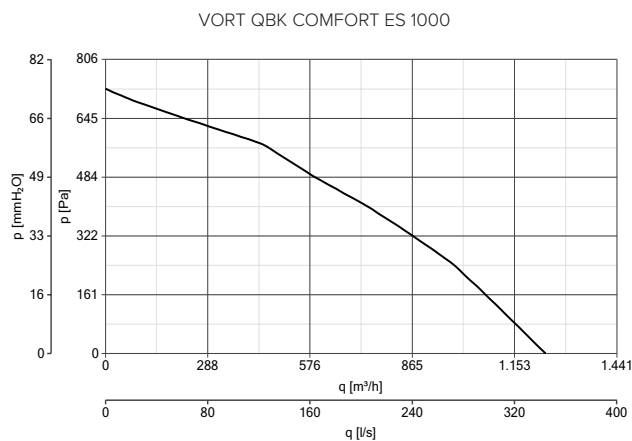
Dimensions (mm)



VORT QBK COMFORT ES RANGE

Double inlet cabinet fans

PERFORMANCES CURVES



— Static pressure
— Power absorbed



ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	QBK RRC - Rain guard	7/7 - 9/9	24212
		10/10	24213
		12/12	24214
	QBK F - Feet	24247	All products

APPLICATIONS





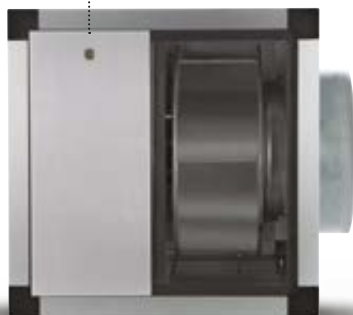
VORT QBK SAL-KC RANGE

Cabinet fans designed to extract hot, humid, dirty air

Sound-proof cabinet fans designed specifically for extraction of hot (max 120°C) humid air and air polluted by suspended residues. Ideal for ventilating industrial spaces and industrial or commercial kitchens.

- Suitable for extraction from industrial or restaurant hoods.
- Suitable for handling hot air streams (up to 120°C), polluted by residual suspended fats.
- Easy to clean.

Cap nut to close
draining.



Condensate/
residues discharge.



Particularly recommended for ventilation of commercial and industrial kitchens. Outdoor installation possible with the use of appropriate covers (optional). Great installation flexibility, thanks to the possibility of adaptation of the air delivery side to the requirements of the system, by appropriately changing the arrangement of the removable panels of the casing.



TECHNICAL FEATURES

- 8 models, single phase and three phase.
- Strong, weatherproof modular construction, made up from aluminium profile frames UNI 9006 and joined by die-cast aluminium corner pieces, enclosed by 6/10" galvanised sheet steel sandwich panels with thickness of 23 mm and soundproofed by placing mineral wool between the two (density 100 kg/m³). Separator panels between motors and impellers to protect the former from heat and the solid residues contained in the air handled.
- Inspection panels with handle opened using triangular key.
- Delivery panels with rectangular section; possibility of connecting to circular ducting using optional adapters.
- Intake panels complete with nipple for connection to circular ducting.
- Fan motor groups characterised by backward curved self-cleaning centrifugal impellers, dynamically balanced (ISO 1940 Standard, Point 1, Class 6.3), coupled directly to the induction motors mounted outside the air stream handled, heat-protected, in class F or H depending on the model, with shafts on ball bearings for virtually "maintenance free" operation at plate maximum environment temperature, speed adjustable via Vortice accessory devices.
- Galvanised steel tray for collection of condensate, drains with cap nuts for closure.
- Galvanised steel anti-bird grilles to protect the motors.
- Cable gland for electric power supply cables integrated into the front panel.
- Protection rating from dusts and water: IP55.
- Class of electric isolation: I (earthing required).

NOTES

The fans in the VORT QBK SAL KC range are compliant with the ErP N. 327/2011/EU Reg.





VORT QBK SAL-KC RANGE

Cabinet fans designed to extract hot, humid, dirty air

TECHNICAL DATA

	PRODUCTS	CODE	V~HZ	W NOM MAX	A NOM MAX	POLES	RPM	MAX FLOW RATE		MAX PRESSURE		°C* MAX	IP motor	KG
								m³/h	l/s	mmH₂O	Pa			
SINGLE PHASE	VORT QBK-SAL KC M 315	45266	220-240	275 285	1.30 1.23	4	1365	1790	497	36.1	354	70	55	33
	VORT QBK-SAL KC M 355	45268	220-240	770 820	3.52 3.41	4	1355	4300	1194	46.3	454	70	55	50
	VORT QBK-SAL KC M 400	45276	220-240	1130 1190	5.19 4.97	4	1325	6300	1750	59.4	582	60	55	68
THREE PHASE	VORT QBK-SAL KC T 315	45267	380-415	270 280	0.58 0.61	4	1420	1860	516	37.5	367	70	55	33
	VORT QBK-SAL KC T 355	45269	380-415	790 805	1.47 1.53	4	1410	4420	1227	50.0	490	70	55	50
	VORT QBK-SAL KC T 400	45277	380-415	1225 1295	2.24 2.22	4	1390	6500	1805	63.7	625	70	55	68
	VORT QBK-SAL KC T 500	45278	380-415	2090 2180	3.65 3.55	4	1325	9000	2500	79.5	780	50	55	80
	VORT QBK-SAL KC T 560	45279	380-415	3520 3630	6.85 6.87	6	950	16300	4500	80.0	785	50	55	100

* Product continuous operation maximum temperature.

** Data not available.

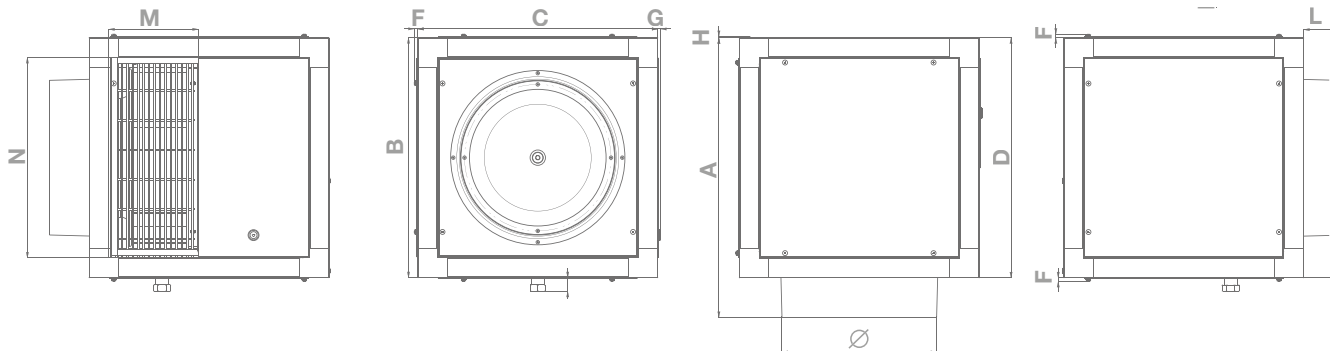
SOUND LEVELS

	PRODUCTS	CODE	SPEED	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LW dB(A)	Lp dB(A) 1 m*
SINGLE PHASE	VORT QBK-SAL KC M 315	45266	MAX	56.8	55.4	60.9	60.4	57.6	50.6	45.1	70.2	49.7
	VORT QBK-SAL KC M 355	45268	MAX	67.1	63.7	68.5	65.8	63.6	60.6	53.4	77.8	57.3
	VORT QBK-SAL KC M 400	45276	MAX	68.2	61.9	66.1	71.9	66.9	60.6	56.4	80.6	60.1
THREE PHASE	VORT QBK-SAL KC T 315	45267	MAX	55.8	55.5	61.3	60.8	58.3	51.6	45.6	70.9	50.4
	VORT QBK-SAL KC T 355	45269	MAX	67.1	64.2	69.7	67.5	64.6	61.7	54.4	79.6	59.1
	VORT QBK-SAL KC T 400	45277	MAX	68.8	62.1	67.3	71.9	68.1	61.1	57.0	82.9	62.4
	VORT QBK-SAL KC T 500	45278	MAX	76.2	67.4	72.2	72.7	70.6	64.8	59.1	84.2	63.7
	VORT QBK-SAL KC T 560	45279	MAX	60.5	68.8	73.0	76.9	78.8	67.4	61.6	86.2	65.7

* Sound pressure measured at 3 m in free field in compliance with the ISO 9614 Standard.



DIMENSIONS

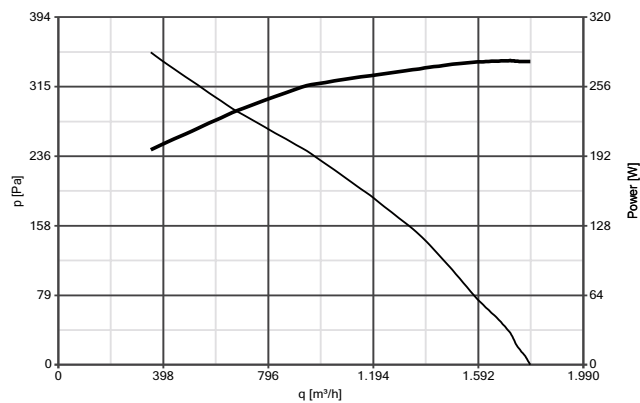


PRODUCTS	A	B	C	D	E	F	G	H	I	L	M	N
VORT QBK-SAL KC 315	566	485	485	485	242.5	8	6	3	28	82	180	405
VORT QBK-SAL KC 355	671	590	590	590	295	8	6	3	28	82	280	510
VORT QBK-SAL KC 400	731	650	650	650	325	8	6	3	28	82	290	570
VORT QBK-SAL KC 500	803	722	722	722	361	8	6	3	28	82	325	642
VORT QBK-SAL KC 560	1092	1011	1011	1011	505.5	8	6	3	28	82	408	930

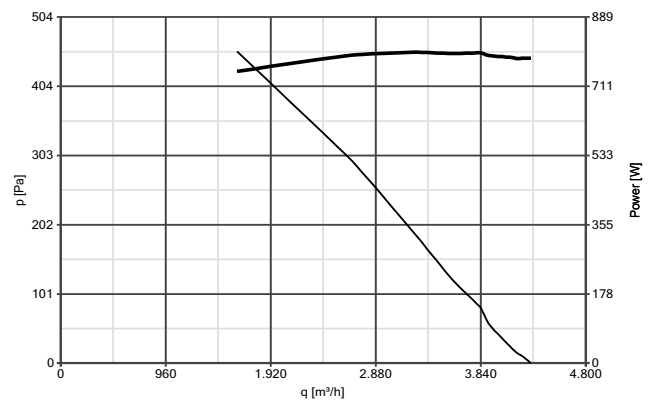
Dimensions (mm)

PERFORMANCES CURVES

VORT QBK-SAL KC M 315



VORT QBK-SAL KC M 355



— Power absorbed
- - - Static pressure

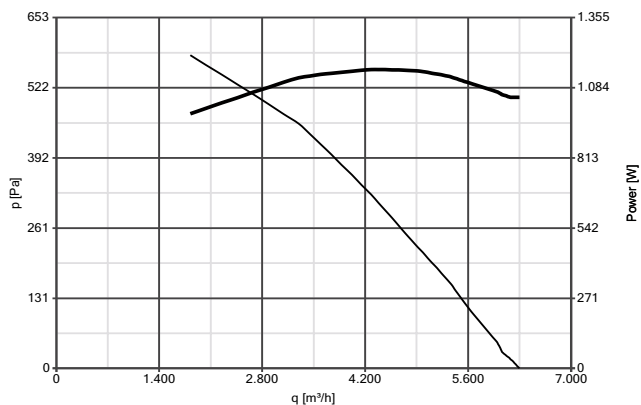


VORT QBK SAL-KC RANGE

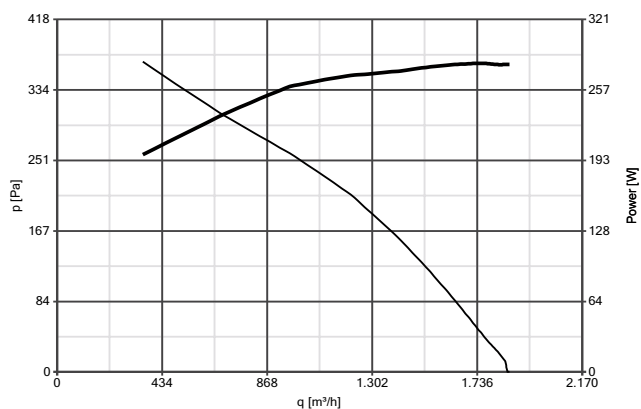
Cabinet fans designed to extract hot, humid, dirty air

PERFORMANCES CURVES

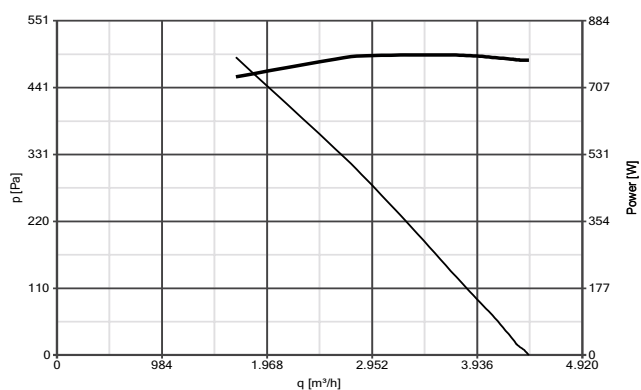
VORT QBK-SAL KC M 400



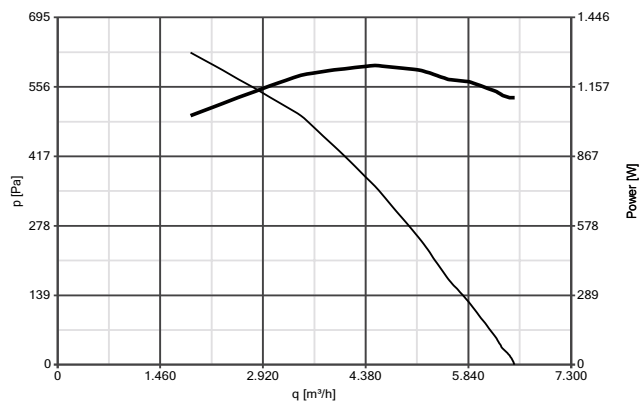
VORT QBK-SAL KC T 315



VORT QBK-SAL KC T 355

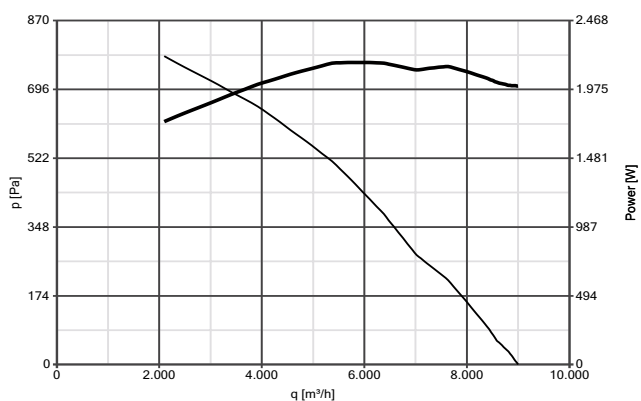


VORT QBK-SAL KC T 400

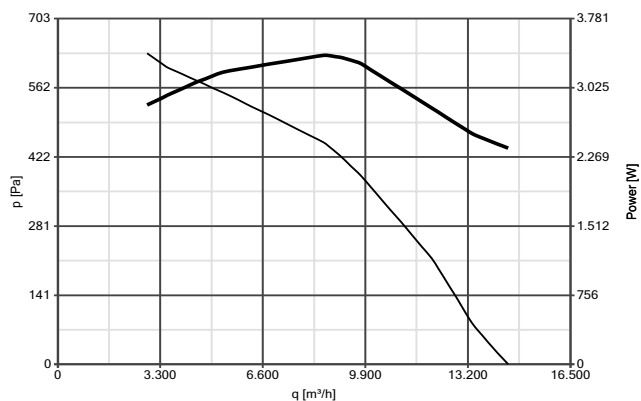


— Power absorbed
— Static pressure

VORT QBK-SAL KC T 500



VORT QBK-SAL KC T 560





ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	CIRCULAR DISCHARGE ADAPTOR	315 24184	45266 - 45267
		355 24185	45268 - 45269
		400 24186	45276 - 45277
		500 24187	45278
	RAIN GUARD	315 24192	45266 - 45267
		355 24193	45268 - 45269
		400 24194	45276 - 45277
		500 24195	45278
		560 24137	45279
	ANGLED DISCHARGE SECTION	315 24196	45266 - 45267
		355 24197	45268 - 45269
		400 24198	45276 - 45277
		500 24199	45278
		560 24138	45279
	ANTI VIBRATION DAMPERS	315 24188	45266 - 45267
		355 24189	45268 - 45269
		400 24190	45276 - 45277
		500/560 24191	45278 - 45279
	QBK F (FEET)	24144	45278 - 45279
		24204	45266 - 45267 - 45268 45269 - 45276 - 45277

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IREM INVERTER 4 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 4A.*	12815	45266
	IREM INVERTER 6 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 6A.*	12818	45268 - 45276
	IRET INVERTER 2.5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 2.5A.*	12816	45267 - 45269
	IRET INVERTER 5 M - variable frequency speed controller with EMC filter and sinusoidal filter; single phase power supply and output, maximum load 5A.*	12817	45277 - 45278
	SWT 16 - Safety On/Off switch, maximum load 16A.	25059	All models
	POT - Potentiometer	12828	12815 - 12816 - 12817 - 12818

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



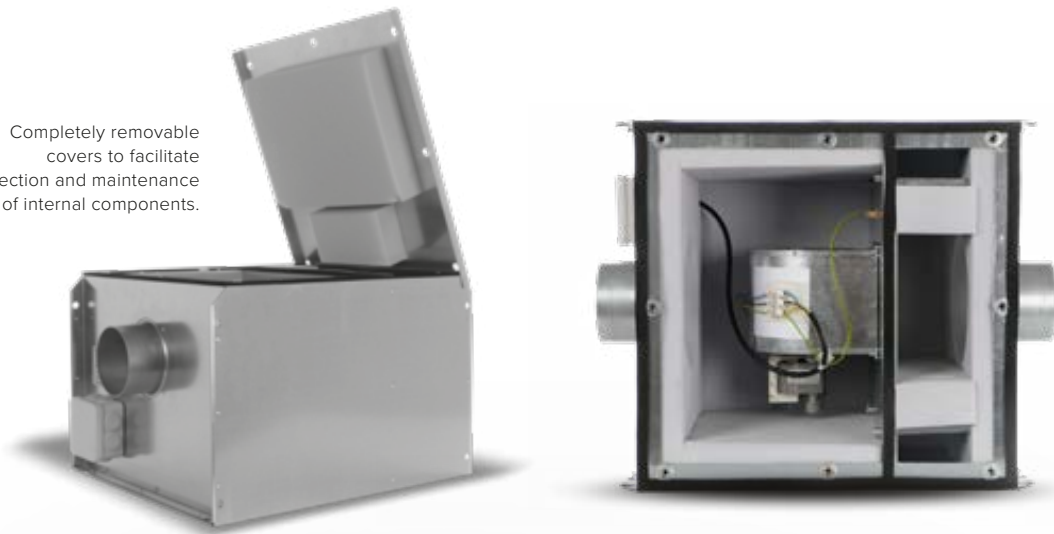
VORT QBK QUIET RANGE

Sound-proof self-supporting cabinet fans

Sound-proof self-supporting cabinet fans, designed to guarantee low noise emissions and to facilitate installation in residential, commercial or industrial premises (toilets, laboratories, bars, restaurants, laundries, shops), thanks to their small size.

- Low noise emissions.
- Reduced vertical clearance, which facilitates installation in ceilings and false ceilings.

Completely removable covers to facilitate inspection and maintenance of internal components.





TECHNICAL FEATURES

- 6 models, all single phase, with nominal diameters between 100 and 315 mm and flow rates up to 2,400 m³/h.
- Galvanised sheet steel casings, fully clad with 50 mm thick fire-resistant (melamine) acoustic panels (DIN EN 13501 Standard). Integrated slotted supports to facilitate and speed up suspended installation.
- Fan motor groups characterised by forward curved centrifugal impellers made of galvanised sheet steel, dynamically balanced (ISO 1940 Standard, Point 1, Class 6.3), coupled directly to the heat-protected induction motors, with shafts on ball bearings for virtually “maintenance free” operation at plate maximum environment temperature, speed adjustable via Vortice accessory devices.
- Electrical connection box complete with cable gland diam. 20 mm, mounted externally and characterised by high protection from dusts and water (IP55).
- Protection rating from dusts and water: IPX4.
- Class of electric isolation: I (earthing required).

NOTE

The fans in the VORT QBK QUIET range are compliant with the ErP N. 327/2011/EU Reg..





VORT QBK QUIET RANGE

Sound-proof self-supporting cabinet fans

TECHNICAL DATA

SINGLE PHASE	PRODUCTS	CODE	V~50HZ	W MAX	A MAX	RPM*	MAX FLOW RATE		MAX PRESSURE		°C* MAX	CLASS motor	KG
							m³/h	l/s	mmH₂O	Pa			
	VORT QBK QUIET 100	45251	230	56	0.45	2410	160	44	21.4	210	50	H	12
	VORT QBK QUIET 125	45252	230	56	0.40	2268	187	52	20.4	200	50	H	12
	VORT QBK QUIET 150	45253	230	128	0.60	2051	471	131	42.4	416	50	B	18
	VORT QBK QUIET 200	45254	230	133	0.60	1811	640	178	43.2	424	50	B	22
	VORT QBK QUIET 250	45255	230	438	2.5	1311	1558	433	39.2	385	40	F	40
VORT QBK QUIET 315	45256	230	630	3.5	1390	2570	714	45.2	444	50	F	50	

* RPM measured in the point of Maximum Air Flow.

* Product continuous operation maximum temperature.

Nota:

The performance data are relative to the F.M.W.L. (Fan Max Working Limit) maximum use curve obtained with the highest DC motor setting.

The speeds of the ventilating units are adjustable with an external potentiometer (DC 0-5V or 0-10V signal).

ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK QUIET 100	VORT QBK QUIET 125	VORT QBK QUIET 150	VORT QBK QUIET 200
CODE		45251	45252	45253	45254
Manufacturer's name or brand name	-	Vortice	Vortice	Vortice	Vortice
Specific energy consumption class for temperate climate	-	F	F	F	F
Specific energy consumption SEC (temperate climate)	kWh/m²a	- 0.5	- 4.4	- 9.9	- 9.1
Specific energy consumption SEC (cold climate)	kWh/m²a	9.0	- 13.3	- 19.3	- 18.4
Specific energy consumption SEC (hot climate)	kWh/m²a	12.0	7.7	1.7	2.6
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**	UVNR-U**	UVNR-U**
Type of drive	-	VM***	VM***	VM***	VM***
Type of heat exchanger system HRS	-	absent	absent	absent	absent
Heat efficiency of heat recovery at the reference flow rate HRS	%	NA	NA	NA	NA
Maximum flow rate	m³/h	113	121	400	615
Total electric power absorbed by the fan at maximum flow rate	W	52.0	52.5	122.0	172.0
Sound power level	LWA [dB(A)]	44	43	54	52
Reference flow rate	m³/s	0.0220	0.0235	0.0778	0.1196
Reference pressure difference	Pa	129	61	53	86
SFI****	W/(m³/h)	0.53097	0.40732	0.23214	0.25784
Control factor CTRL	-	1	1	1	1
Type of control	-	manual	manual	manual	manual
Maximum percentage of internal leakage	%	NA	NA	NA	NA
Maximum percentage of external leakage	%	NA	NA	NA	NA
Rate of mixture	-	NA	NA	NA	NA
Position and description of the filters visual signal	-	NA	NA	NA	NA
Sensitivity of the air stream to pressure changes at ± 20 Pa	-	NA	NA	NA	NA
Internal/external air sealing	m³/h	NA	NA	NA	NA
AEC annual consumption of electricity	kWh of electricity/a	665	510	291	323
AHS annual heating saved with temperate climate	kWh of primary energy/a	1715	1715	1715	1715
AHS annual heating saved with cold climate	kWh of primary energy/a	2732	2732	2732	2732
AHS annual heating saved with hot climate	kWh of primary energy/a	632	632	632	632

NA Not Applicable. ** UVR-U: Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFI: Specific absorbed power.



ENERGY DATA PURSUANT TO REGULATION N° 1253/2014/EU

	UNIT OF MEASUREMENT	VORT QBK QUIET 250	VORT QBK QUIET 315
CODE		45255	45256
Manufacturer's name or brand name	-	Vortice	Vortice
Type of ventilation unit declared	-	UVNR-U**	UVNR-U**
Type of drive	-	VM***	VM***
Type of heat exchanger system HRS	-	none	none
Heat efficiency of the heat recovery	%	NA	NA
Nominal flow rate	m³/s	0.41889	0.68722
Effective electric power input	kW	0,422	0,615
SFPint ****	W/(m³/s)	NA	NA
Face velocity at nominal flow rate	m/s	8.53354	8.81833
Nominal external pressure (Δps, ext)	Pa	25	28
Internal pressure drop of the ventilation components (Δps, int)	Pa	355	282
Internal pressure drop of the non-ventilation components (Δps, add)	Pa	0	0
Static efficiency of the fans used according to the 327/2011/EU Regulation	%	37.7	34.6
Maximum percentage of internal leakage of the case	%	NA	NA
Maximum percentage of external leakage of the case	%	NA	NA
Energy performance or energy classification of the filters	-	NA	NA
Description of the visual filter warning	-	NA	NA
Sound power LWA on the case	dB(A)	58	60

NA Not Applicable. ** UVNR-U: Non- Residential Ventilation Unit - Unidirectional. *** VM: Multiple Speed. **** SFPint: Specific internal power of the ventilation components.

SOUND LEVELS

PRODUCTS	CODE	SPEED	Lp dB(A) 3 m*
VORT QBK QUIET 100	45251	MAX	OUTLET
			INTAKE
			RADIATED
VORT QBK QUIET 125	45252	MAX	OUTLET
			INTAKE
			RADIATED
VORT QBK QUIET 150	45253	MAX	OUTLET
			INTAKE
			RADIATED
VORT QBK QUIET 200	45254	MAX	OUTLET
			INTAKE
			RADIATED
VORT QBK QUIET 250	45255	MAX	OUTLET
			INTAKE
			RADIATED
VORT QBK QUIET 315	45256	MAX	OUTLET
			INTAKE
			RADIATED

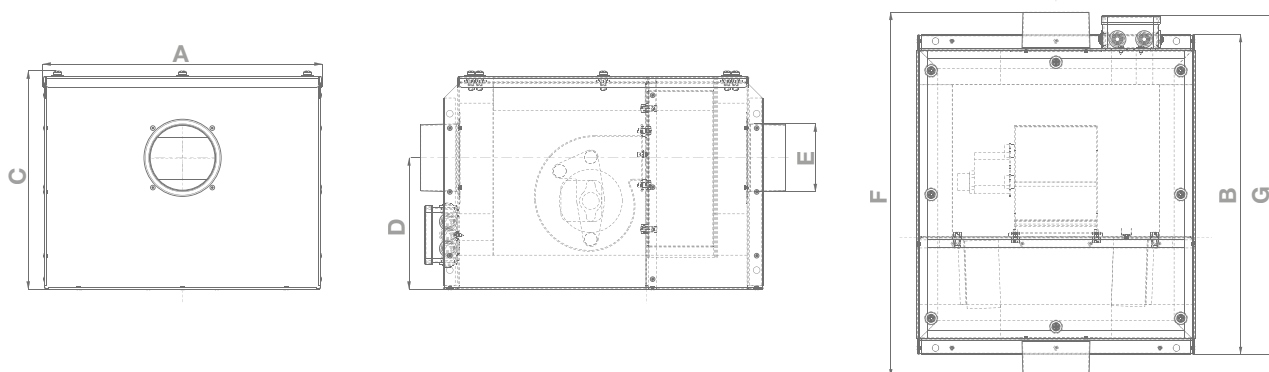
* Sound pressure measured at 3 m in free field in compliance with the ISO 9614 Standard.



VORT QBK QUIET RANGE

Sound-proof self-supporting cabinet fans

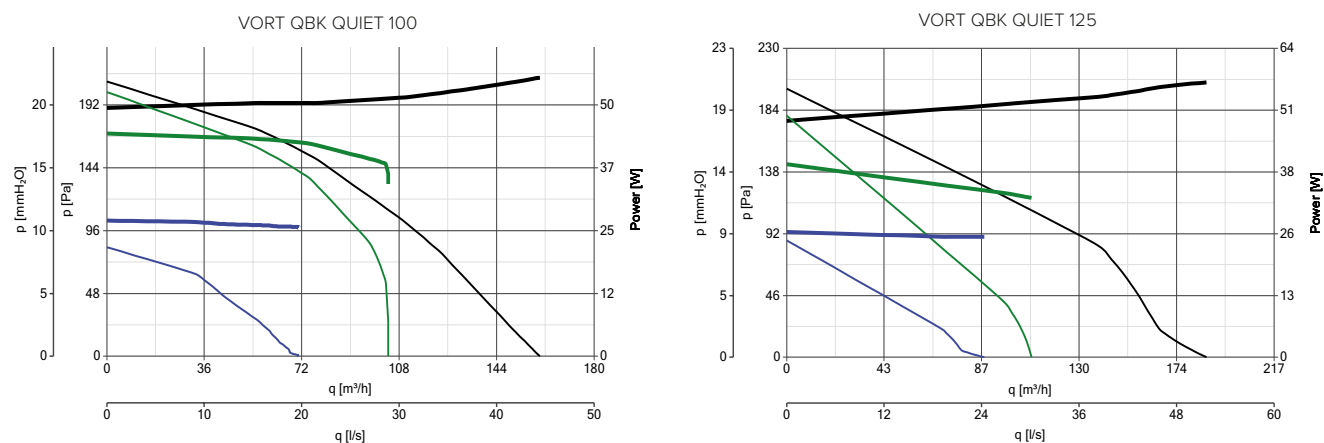
DIMENSIONS



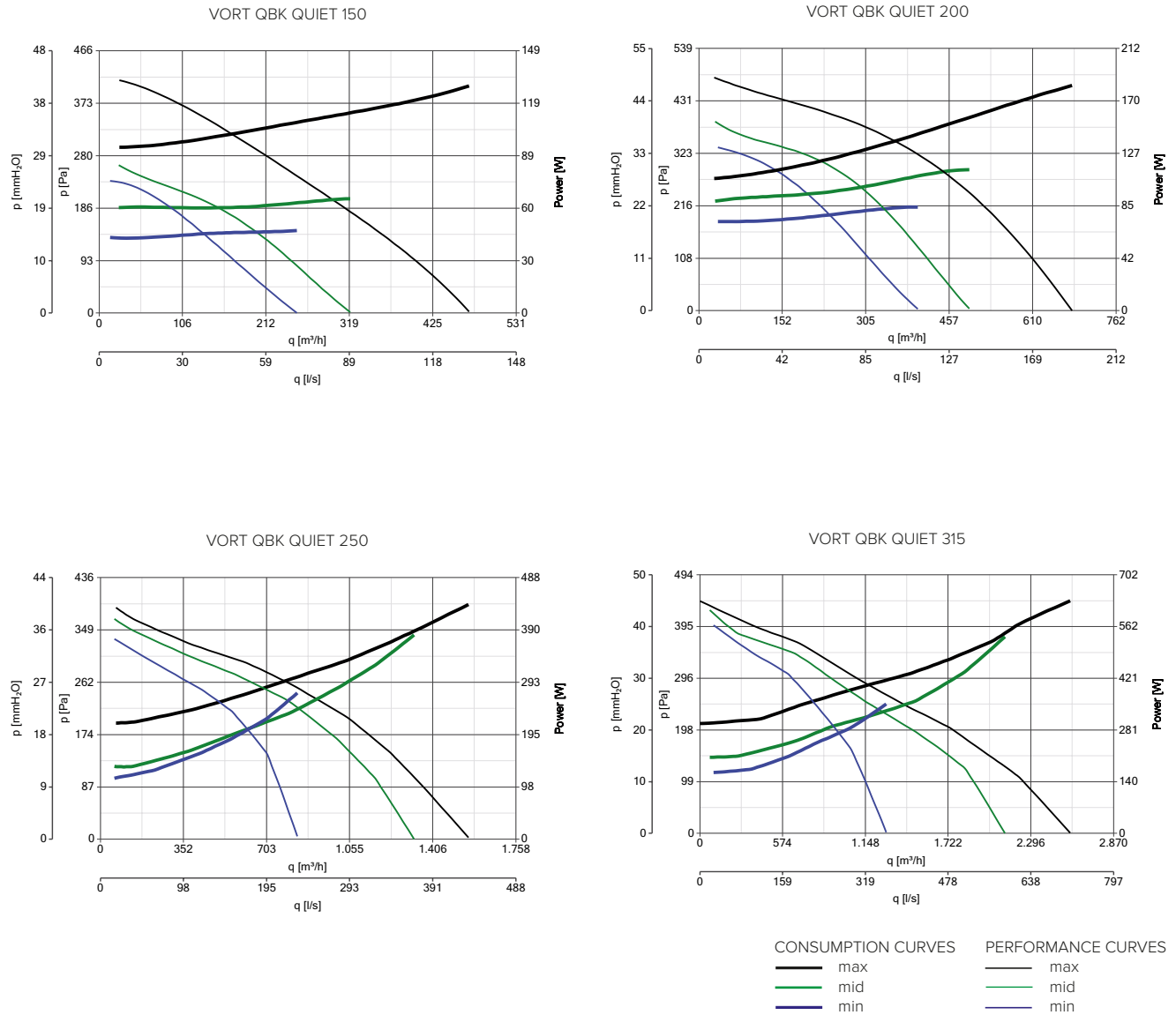
PRODUCTS	A	B	C	D	ØE	F	G
VORT QBK QUIET 100	416	477	317	195	100	544	505
VORT QBK QUIET 125	416	477	317	195	125	544	505
VORT QBK QUIET 150	488	572	375	224	150	680	600
VORT QBK QUIET 200	488	572	375	224	200	680	600
VORT QBK QUIET 250	609	719	551	352	250	870	746
VORT QBK QUIET 315	609	719	551	352	315	870	746

Dimensions mm

PERFORMANCES CURVES



PERFORMANCES CURVES



CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCTS
	IRM 30 - Single phase voltage variator	12921	45251 - 45252
	IRM 40 - Single phase voltage variator	12922	45255
	IRM 50 - Single phase voltage variator	12928	45256
	SC QUIET 150	12831	45256

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This print-out cancels and replaces all previous versions.

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