



CA WE D E RANGE

Mixed flow duct fans for external wall



Painted sheet steel mixed flow duct fans, designed for outdoor installation. The ideal low-visual impact, low-noise ventilation solution for residential or commercial premises (kitchens, toilets, laboratories, bars, restaurants, laundries, shops, etc.).

Versions

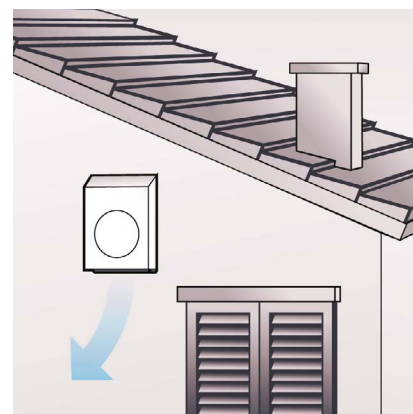
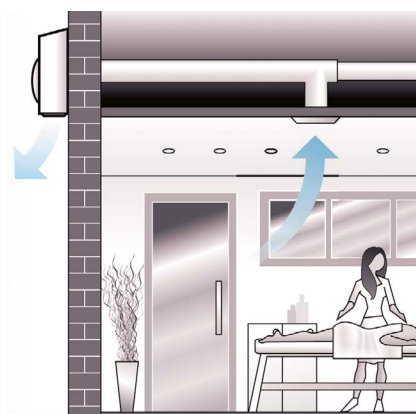
- 5 models, with nominal diameter between 100 and 200 mm.

Key Features

- Built to withstand weathering and high temperatures.
- Designed to minimise noise in the environment.
- Automatic delivery closing to prevent air re-entry and the entry of foreign bodies.
- Fully compliant with Reg. ErP 2018 N. 1253/2014.

Technical features

- Steel sheet front covers that have been painted with polyester paint against aggressive weathering. Grille-protected delivery spigots with automatic spring closure device to prevent the entry of foreign bodies.
- Rear flanges in plastic resin with a mineral-based additive to dampen vibrations and soften noise.
- 3-speed fans that can be set using optional device TRIO-CA (code 12869), composed of:
 - AC motors with thermal overload cut-out and shafts turning on ball bearings to guarantee long lasting (at least 40,000 h) continuous service at the maximum plate temperature.
 - Backward-curve, heat resistant plastic resin blade impellers loaded with glass fibre to combine structural strength and dimensional stability.
- Possibility of connecting to remote environmental temperature, humidity, smoke and presence sensors (optional).
- Protection rating from the water: IPX5.
- Insulation Class: II .





DUCTED FANS

CA WE D E RANGE

TECHNICAL DATA

Models	Code	V _{n50}				Max Airflow		Max Pressure		LP DB(A) 3m	Max °C	KG
			W	A	RPM	m³/h	l/s	mmH ₂ O	Pa			
			min/med/max	min/med/max	min/med/max	min/med/max	min/med/max	min/med/max	min/med/max	min/med/max		
CA 100 WED	16091	220-240	12 24 50	0,13 0,18 0,23	925 1515 2390	68 150 252	18,8 41,6 70	18,3 37,4 38,6	180 366,4 379,4	38,3 - 50,1	60	4,5
CA 125 WED	16092	220-240	12 24 50	0,13 0,18 0,23	880 1400 2350	85 175 328	23,6 48,6 91,1	15,3 34,3 36,7	150,4 336,3 359,5	36,3 - 49,5	60	4,5
CA 150 WEDE	16087	230	38 100	0,36 0,44 0,44	1015 1455 2520	215 335 625	59,7 93 173,1	27,2 42,1 45,5	267,1 413,6 446,6	23,1 - 42,9	55	8
CA 160 WEDE	16088	230	38 57 100	0,36 0,44 0,44	1060 1475 2490	235 362 660	65,2 100,5 183,3	30,1 43,4 45,2	295,7 425,8 443,9	22 - 37,5	55	8
CA 200 WEDE	16089	230	38 53 100	0,36 0,44 0,44	1100 1460 2495	245 353 680	60 90 188,8	24,9 38,9 44,3	244,4 381,7 434,3	20,9 - 39,1	55	8

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

ENERGY DATA FOR REGULATION N° 1254/2014/UE

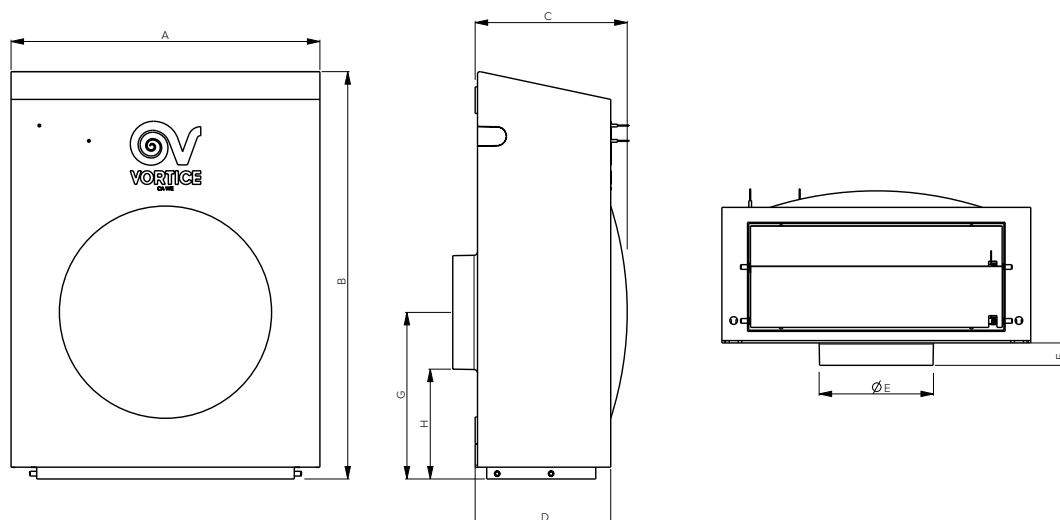
	UNIT OF MEASURE	CA 100 WED	CA 125 WED	CA 150 Q WED	CA 150 WEDE	CA 160 WEDE	CA 200 WEDE
CODE		16091	16092	16093	16087	16088	16089
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice	Vortice	Vortice
SFPint	W(m³/s)	NA*	NA*	NA*	NA*	NA*	NA*
Declared typology	-	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**
Type of drive	-	MSD***	MSD***	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None	None	None
Nominal NRVU flow rate	m³/s	0,06328	0,08097	0,09533	0,17219	0,18325	0,18492
Effective electric power input	kW	0,052	0,053	0,053	0,104	0,105	0,103
Face velocity at design flow rate	m/s	8,05678	6,59821	5,39476	9,74421	9,11411	5,88608
Nominal external pressure (Δps, ext)	Pa	471	314	20	69	20	98
Internal pressure drop of ventilation components (Δps,int)	Pa	-234	-121	144	157	187	107
Internal pressure drop of non-ventilation components (Δps,add)	Pa	0	0	0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	28,8	29,5	29,5	37,4	36,1	36,8
Declared maximum internal leakage rate of the casing of ventilation units	%	NA*	NA*	NA*	NA*	NA*	NA*
Declared maximum external leakage rate of the casing of ventilation units	%	NA*	NA*	NA*	NA*	NA*	NA*
Energy performance or classification of the filters	-	NA*	NA*	NA*	NA*	NA*	NA*
Description of visual filter warning	-	NA*	NA*	NA*	NA*	NA*	NA*
Casing sound power level	LWA[dB(A)]	50	50	50	43	38	39

*NA: Not applicable - **RVU-U: Non Residential Ventilation Unit - Unidirectional - ***MSD: Multi-Speed Drive





DIMENSIONS

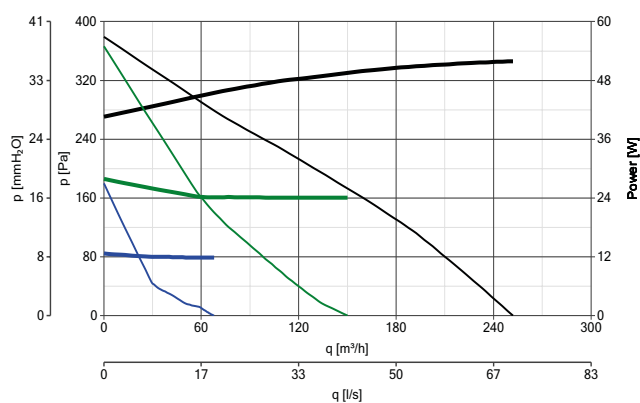


MODELS	A	B	C	D	ØE	F	G	H
CA100 WED	262	345	127	113	97	20	142	93
CA125 WED	262	345	127	113	122	20	142	80,5
CA150 WEDE	360	430	173	155	147	20	180	106
CA160 WEDE	360	430	173	155	157	20	180	101
CA200 WEDE	360	430	173	155	157	20	180	81

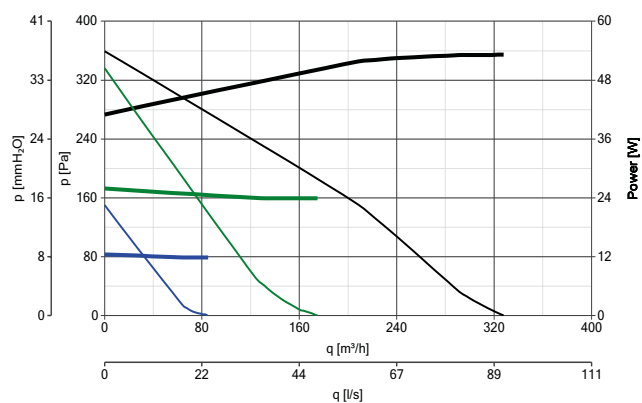
Dimensions (mm)

PERFORMANCE CURVES

CA 100 WE D



CA 125 WE D



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min

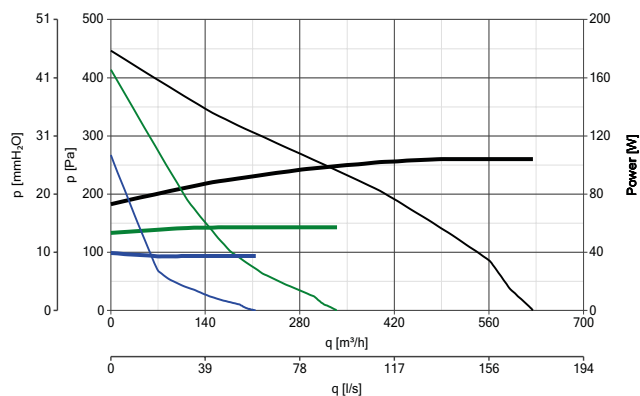


DUCTED FANS

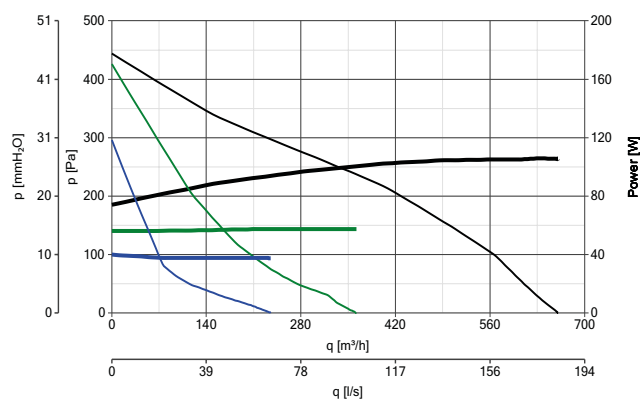
CA WE D E RANGE

PERFORMANCE CURVES

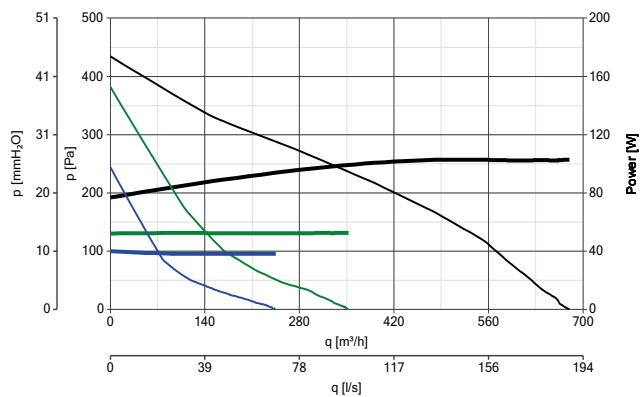
CA 150 WE D E



CA 160 WE D E



CA 200 WE D E



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min

CONTROLLERS

MODELS	DESCRIPTION	CODE	PRODUCT
	C 1.5 - ELECTRONIC SPEED CONTROLLER 1.5 A	12966	ALL PRODUCTS
	C 2.5 - ELECTRONIC SPEED CONTROLLER 2.5 A	12967	ALL PRODUCTS
	KIT SCB - BUILT-IN CONTROLLER ADAPTOR	22481	12966 - 12967
	TRIO - 3 SPEED SWITCH FOR WALL AND FLUSH MOUNTING INSIDE UNI 503 STANDARD ELECTRIC BOXES	12869	ALL PRODUCTS