



DUCTED FANS

CA MD RANGE



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In-line centrifugal fans in metal

Painted sheet steel centrifugal duct fans, installed in false ceilings or in attics. The ideal low-visual impact ventilation solution for residential, commercial or industrial premises (kitchens, toilets, laboratories, bars, restaurants, laundries, shops, etc).

Versions

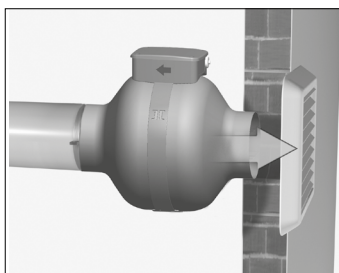
8 models, with nominal diameter between 100 and 315 mm.

Key features

- Built to withstand weathering and high temperatures.
- Standard supplied support brackets.
- High protection rating from dust and water for safe use in industrial environments.
- Wide continuous operation temperature range (-25 °C / + 50 °C).
- Can be installed horizontally, vertically or sloping.

Technical features

- Pickled, phosphate-coated steel sheet casing that has been painted with polyester paint against aggressive weathering.
- Motor-holder built into the boxes housing the mains connection terminals and the flow conditioner fins, constructed in self-extinguishing plastic resin (V0).
- 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 continuous service (at least 30,000 h) at the maximum plate temperature.
 - Backward-curve, heat resistant plastic resin blade impellers loaded with glass fibre to combine structural strength and dimensional stability.
- Galvanised steel sheet brackets for wall, ceiling and false ceiling installation.
- Possibility of connecting to remote environmental temperature, humidity, smoke and presence sensors (optional).
- Protection rating from dusts and water: IP44 (appliance ducted in extraction and delivery).
- Insulation Class: II .





TECHNICAL DATA

TECHNICAL DATA													
Models	Code	V~50HZ	Max Airflow					Max Pressure		LP DB(A) 3m	Max °C	KG	
			W	A	RPM	m³/h	l/s	mmH₂O	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 MD	16150	230	26 47 85	0,22 0,30 0,40	1190 1810 2370	163 250 337	45,0 69,4 93,0	19,9 33 38,9	195,9 323,4 381,6	32,3* - 43,2*	50	2,97
	CA 125 MD	16151	230	26 47 85	0,22 0,30 0,40	1130 1685 2300	210 315 445	58,0 87,5 123,6	17,6 30,7 36,8	172,6 301,3 361,4	30,8* - 45,9*	50	3,0
	CA 150 MD E	16163	230	26 47 85	0,22 0,30 0,38	1160 1725 2650	230 350 535	63,8 97,2 148,6	12,3 25,3 44,3	121,0 248,7 435,1	42,3** - 53,2**	50	4,9
	CA 150 Q MD	16152	230	26 47 85	0,22 0,30 0,40	1160 1725 2340	230 350 470	63,8 97,2 130,5	12,3 25,3 33,3	121,1 248,2 327,0	34,7* - 48,1*	50	2,98
	CA 160 MD E	16164	230	39 53 85	0,35 0,36 0,38	1130 2160 2665	325 450 555	90,2 125 154,1	32,7 41,8 44,0	321,5 409,8 431,8	43,4* - 53,4*	50	4,9
	CA 200 MD E	16165	230	39 57 89	0,35 0,38 0,43	1440 2140 2630	412 620 775	114,0 172,2 215,0	36,0 45,0 45,0	353,0 441,0 441,0	36,2** - 48,1**	50	4,8
	CA 250 MD E	16166	230	50 82 120	0,47 0,55 0,53	1410 2120 2635	540 805 1010	150,0 223,6 280,5	33,7 49,2 54,8	330,8 482,6 537,6	38,3** - 52,7**	50	5,3
	CA 315 MD E	16167	230	50 82 120	0,47 0,54 0,53	1510 2150 2630	570 830 1015	158,3 230,5 281,9	36,0 50,7 55,5	353,2 497,3 544,9	41,8** - 52,3**	50	7,0
	CA 315 MD SE	16097	220-240	190	0,84	2800	1550	430	67	657	58\	45	6,6

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

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



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ENERGY DATA FOR REGULATION N° 1254/2014/UE

	UNIT OF MEASURE	CA 160 MD E	CA 200 MD E	CA 250 MD E	CA 15 MD E	CA 315 MD SE
CODE		16164	16165	16166	16167	16097
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice	Vortice
SFPint	W(m³/s)	482,85	382,78	397,50	385,03	293,89
Declared typology	-	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**
Type of drive	-	MSD***	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None	NONE
Nominal NRVU flow rate	m³/s	0,13611	0,21389	0,2747	0,2791	0,361
Effective electric power input	kW	0,088	0,089	0,127	0,123	0,220
Face velocity at design flow rate	m/s	6,7696	6,8083	5,5966	3,5822	4,633
Nominal external pressure (Δps, ext)	Pa	70	12	21	18	187
Internal pressure drop of ventilation components (Δps,int)	Pa	279	135	126	122	175
Internal pressure drop of non-ventilation components (Δps,add)	Pa	0	0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	43,2	35,3	31,8	31,8	40,2
Declared maximum internal leakage rate of the casing of ventilation units	%	NA*	NA*	NA*	NA*	NA*
Declared maximum external leakage rate of the casing of ventilation units	%	5,9	4,2	2,3	2,2	0,5
Energy performance or classification of the filters	-	NA*	NA*	NA*	NA*	NA*
Description of visual filter warning	-	NA*	NA*	NA*	NA*	NA*
Casing sound power level	LWA[dB(A)]	74	69	73	73	75

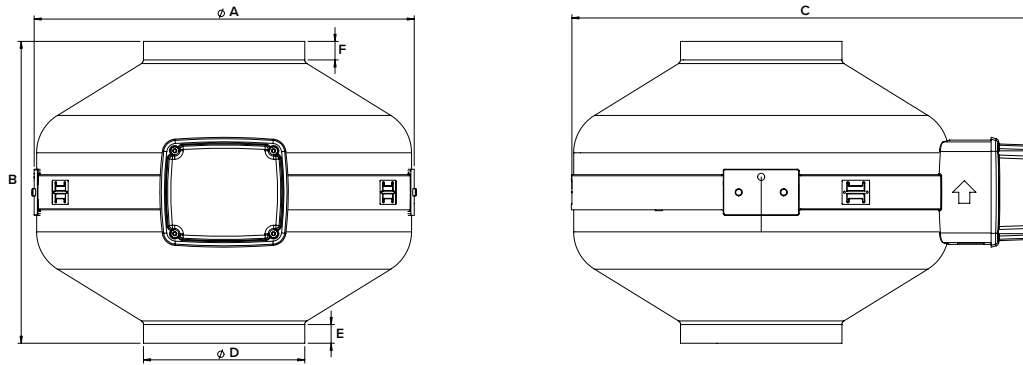
	UNIT OF MEASURE	CA 100 MD	CA 125 MD	CA 150 MD E	CA 150 Q MD
CODE		16150	16151	16163	16152
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
SFPint	W(m³/s)	602,29	478,53	567,30	408,13
Declared typology	-	NRVU-U**	NRVU-U**	NRVU-U**	NRVU-U**
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Nominal NRVU flow rate	m³/s	0,07917	0,09861	0,14333	0,10260
Effective electric power input	kW	0,051	0,051	0,086	0,053
Face velocity at design flow rate	m/s	10,08	8,0335	8,1110	5,8003
Nominal external pressure (Δps, ext)	Pa	12,8	8,8	15	31,4
Internal pressure drop of ventilation components (Δps,int)	Pa	183	148	255	149
Internal pressure drop of non-ventilation components (Δps,add)	Pa	0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	30,4	30,7	44,9	28,8
Declared maximum internal leakage rate of the casing of ventilation units	%	NA*	NA*	NA*	NA*
Declared maximum external leakage rate of the casing of ventilation units	%	3,6	3,0	6,3	2,8
Energy performance or classification of the filters	-	NA*	NA*	NA*	NA*
Description of visual filter warning	-	NA*	NA*	NA*	NA*
Casing sound power level	LWA[dB(A)]	64	66	74	69

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





DIMENSIONS



MODELS	ϕA	B	C	ϕD	E	F
CA 100	255	239	330	97	15	15
CA 125	255	239	330	122	23	23
CA 150 Q	255	239	330	147	30	30
CA 150	347	275	424	147	17	17
CA 160	347	275	424	157	18	18
CA 200	347	275	424	197	20	17
CA 250	347	275	424	247	38	35
CA 315	406	306	488	312	21	30
CA 315 SE	415	314	455	312	29	42

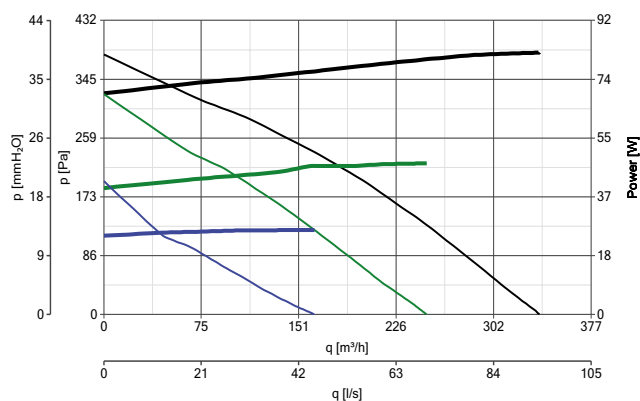


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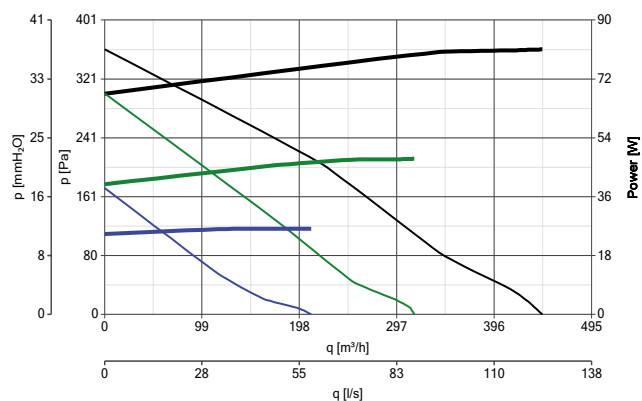
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PERFORMANCE CURVES

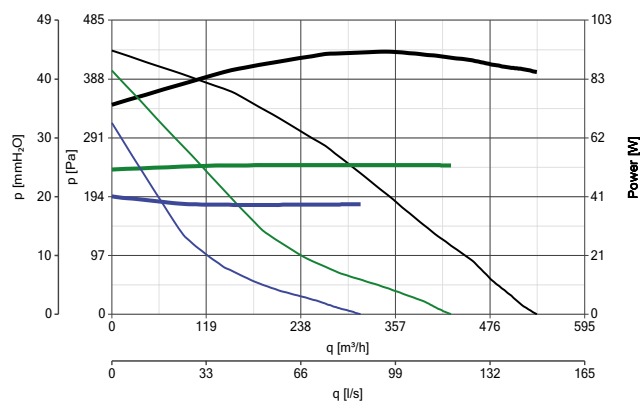
CA 100 MD



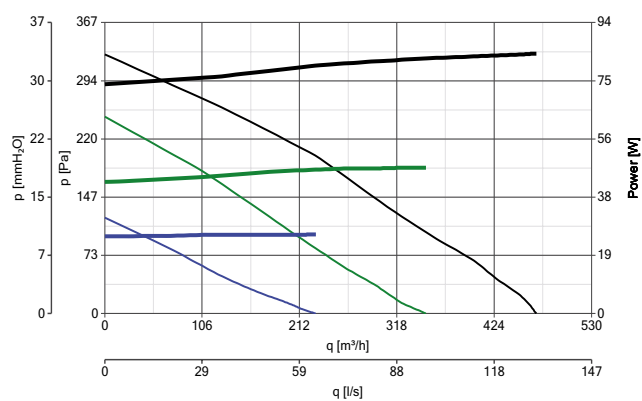
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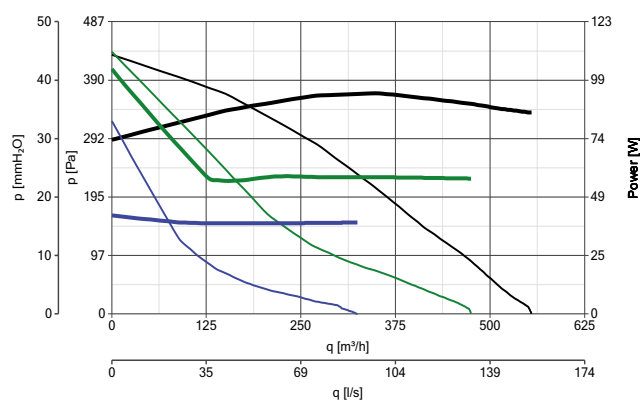
CA 150 MD E



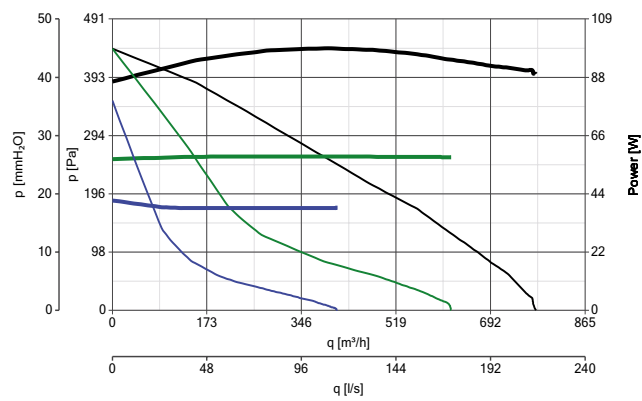
CA 150 Q MD



CA 160 MD E



CA 200 MD E



POWER CONSUMPTION
— max
— med
— min

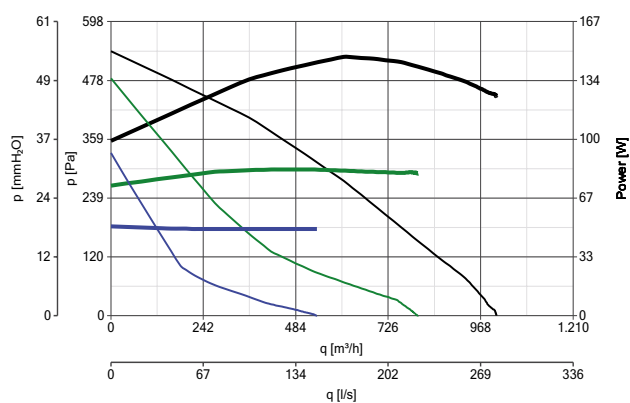
PERFORMANCE CURVES
— max
— med
— min



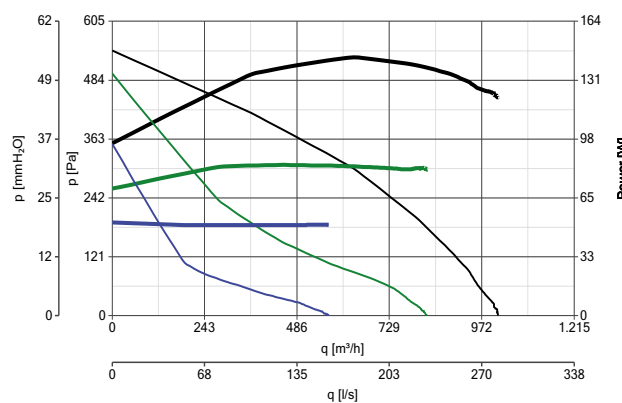


PERFORMANCE CURVES

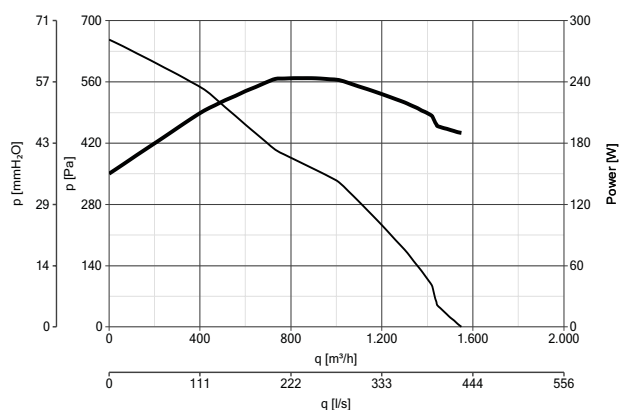
CA 250 MD E



CA 315 MD E



CA 315 MD SE



POWER CONSUMPTION

- max
- med
- min

PERFORMANCE CURVES

- max
- med
- min



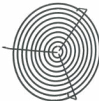
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CONTROLLERS

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
	SCNRB - ELECTRONIC SPEED CONTROLLER, BUILT-IN	12971	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	16150 - 16151 - 16163 - 16152 - 16164 16165 - 16166 - 16167
	IRM5 2B - 5-POSITION SPEED CONTROLLER OF THE AUTOTRANSFORMER TYPE, DESIGNED TO CONTROL SINGLE-PHASE ASYNCHRONOUS MOTORS.	12861	16097

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCT	
	CA-MU - MOUNTING BRACKETS	22674	ALL PRODUCTS	
		100	22750	16150 - 16107
		125	22755	16151 - 16108
	CA-G - PROTECTION GRILLE	150	22760	16152 - 16163 - 16109 - 16153
		200	22765	16165 - 16155
		250	22770	16166 - 16156
		315	22775	16167 - 16157 - 16097