



CA MD and CA MD E RANGE

In-line centrifugal fans in metal

PRODUCT SPECIFICATIONS

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

- **13 models:** from 100 diameter to 315.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Direction flaps optimised to reduce turbulence inside the appliance.
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II □ .



LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD	16150	60 - 85	0.30 - 0.40	1730 - 2450	220 - 340	61 - 94	30 - 39	294 - 383	32.2 - 43.2 (*)	50	2.97
CA 125 MD	16151	60 - 85	0.30 - 0.40	1580 - 2380	280 - 450	78 - 125	27 - 37	265 - 363	30.8 - 45.9 (*)		3.0
CA 150 Q MD	16152	60 - 85	0.30 - 0.40	1430 - 2350	300 - 500	83 - 139	21 - 35	206 - 343	34.7 - 48.1 (*)		2.98
CA 150 MD	16153	110 - 155	0.50 - 0.70	1815 - 2080	570 - 770	188 - 214	44 - 54	432 - 530	40.7 - 48.0		5.52
CA 160 MD	16154	110 - 155	0.55 - 0.70	1654 - 2080	640 - 840	178 - 228	41 - 50	402 - 491	40.7 - 47.4		5.47
CA 200 MD	16155	110 - 155	0.55 - 0.70	1700 - 2100	820 - 1050	228 - 292	37 - 48	363 - 471	43.8 - 49.6		5.43
CA 250 MD	16156	115 - 200	0.55 - 0.90	1800 - 2420	950 - 1300	264 - 361	42 - 56	412 - 549	46.7 - 55.9		6.55
CA 315 MD	16157	190 - 280	0.85 - 1.25	1940 - 2500	1350 - 1800	375 - 500	52 - 72	510 - 706	52.4 - 57.7		9.47

Available only for the Extra EU market**

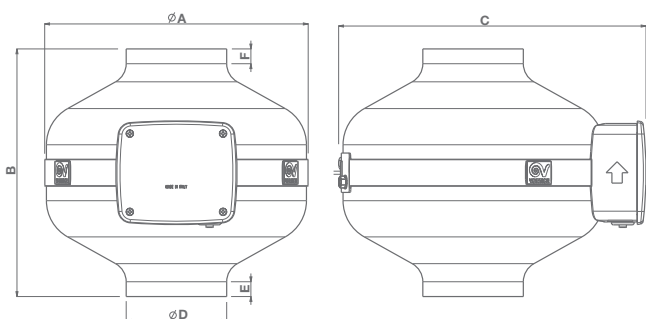
CA 150 MD E	16163	45 - 85	0.37 - 0.38	1775 - 2670	340 - 550	94 - 153	40 - 45	392 - 441	42.4 - 53.2 (**)	50	6.1
CA 160 MD E	16164	45 - 85	0.37 - 0.38	1860 - 2665	370 - 570	103 - 158	37 - 45	363 - 441	43.4 - 53.4 (**)		6.3
CA 200 MD E	16165	45 - 90	0.37 - 0.40	1610 - 2610	500 - 830	139 - 231	42 - 46	412 - 451	36.2 - 48.1 (**)		6.0
CA 250 MD E	16166	58 - 120	0.51 - 0.53	1615 - 2660	600 - 1000	167 - 278	42 - 53	412 - 520	38.3 - 52.7 (**)		7.6
CA 315 MD E	16167	58 - 120	0.51 - 0.53	1560 - 2660	620 - 1080	172 - 300	43 - 58	422 - 569	41.8 - 52.3 (**)		11.0

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

Electrical supply: 230 V - 50 Hz.



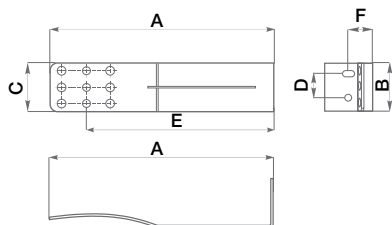
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F
CA 100 MD	255	239	300	97	15	15
CA 125 MD				122	23	23
CA 150 Q MD				147	30	30
CA 150 MD	347	275	392	147	17	17
CA 160 MD				157	18	18
CA 200 MD				197	20	17
CA 250 MD				247	38	35
CA 315 MD	406	306	455	312	36	30
CA 150 MD E	347	275	392	147	17	17
CA 160 MD E				157	18	18
CA 200 MD E				197	20	17
CA 250 MD E				247	38	35
CA 315 MD E	406	294	455	312	21	30

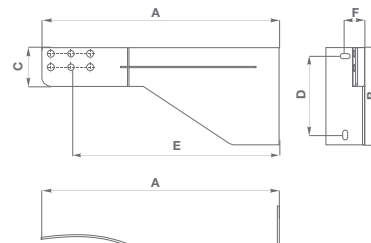
Dimensions (mm)

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

SOUND LEVELS









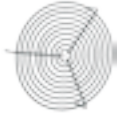

Models	Code	Speed	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz
CA 100 MD	16150	min	49.4	42	51.7	49.3	46.4	42.8	38.7
		max	58.2	53.3	60.7	59.8	56.5	54.1	46.3
CA 125 MD	16151	min	45	51.7	51	45.9	42.1	35.1	n.a.
		max	55.4	63.4	64.5	61.6	58.7	55.2	48.4
CA 150 Q MD	16152	min	45.2	57.6	53.7	48.9	48.9	39.7	26.3
		max	55.9	68.4	66.1	62.6	62.6	56.9	48.9
CA 150 MD	16153	min	56	65.4	59.7	53.3	50	42.6	32.8
		max	62.2	71.1	67.3	61.6	59.2	51.9	44.6
CA 160 MD	16154	min	58.6	64.9	59.8	53	53	41.5	32.2
		max	62.1	70.4	66.5	60.9	60.9	50.4	43.1
CA 200 MD	16155	min	58	68.3	61.5	55.4	54.2	45.7	38
		max	61.5	70.3	69.7	63.2	60.8	54.5	47.4
CA 250 MD	16156	min	60.2	69.6	65.1	60.9	58.5	51.5	44.7
		max	68.8	71.2	77.9	69.4	65.8	60.9	55.6
CA 315 MD	16157	min	70.8	71.8	74	64.7	62.8	60.5	57.7
		max	74.3	72.4	77.6	71.6	70.3	67.1	66

Frequency bands in octaves and sound output. The measurements of the sound power have been carried out according to international standards EN ISO-3741.

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In-line centrifugal fans in metal

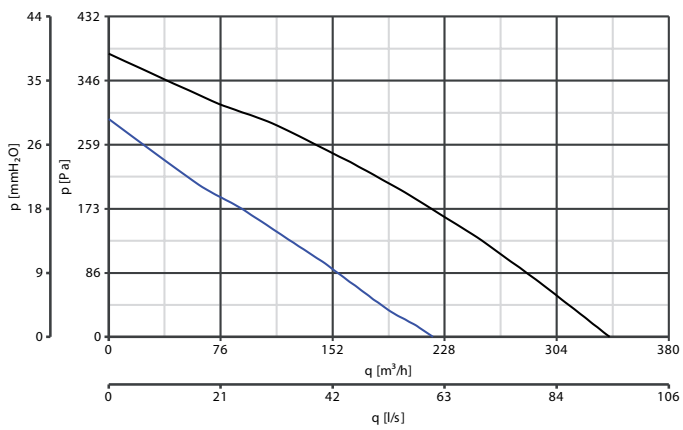
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16150 - 16151 - 16152 - 16153
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	SCNRB Non-reversible built-in electronic speed controller	12971	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16150
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16151
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16152 - 16153
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16154
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16155
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16156
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16157 - 16167
	CA-MU Galvanized sheet-metal brackets	22674	All products

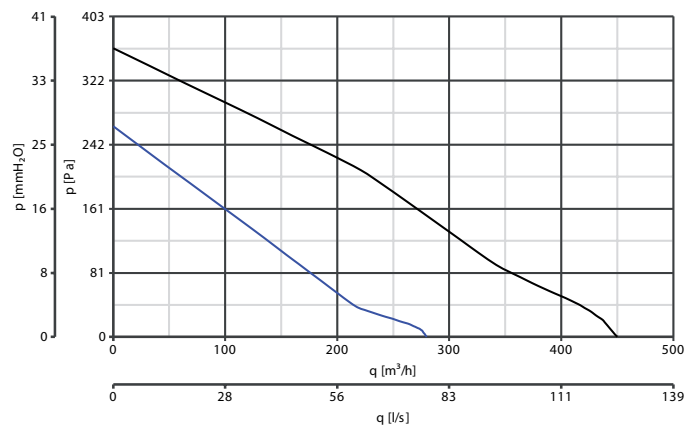
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

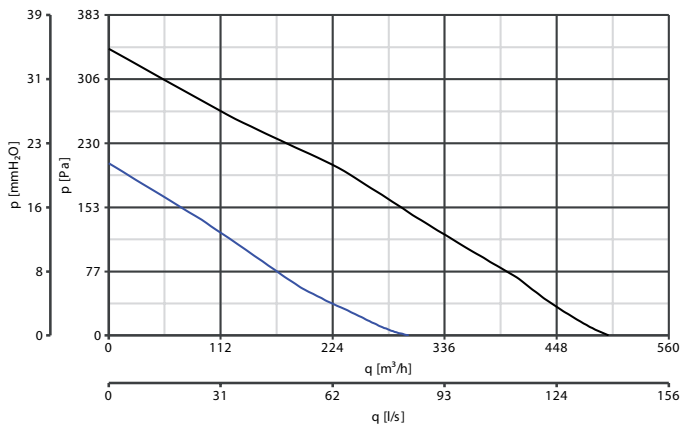
CA 100 MD Cod. 16150



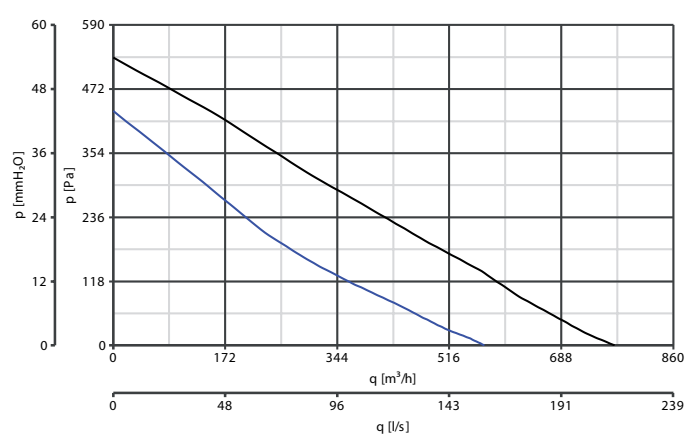
CA 125 MD Cod. 16151



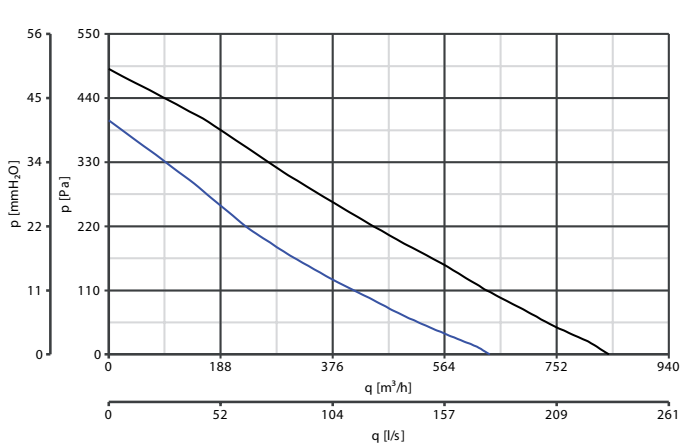
CA 150 Q MD Cod. 16152



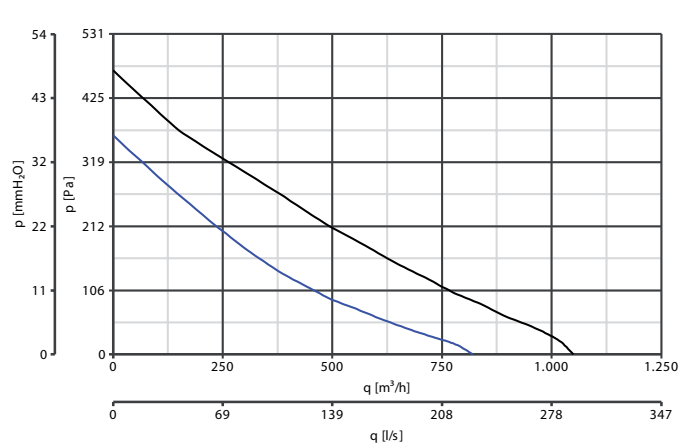
CA 150 MD Cod. 16153



CA 160 MD Cod. 16154



CA 200 MD Cod. 16155

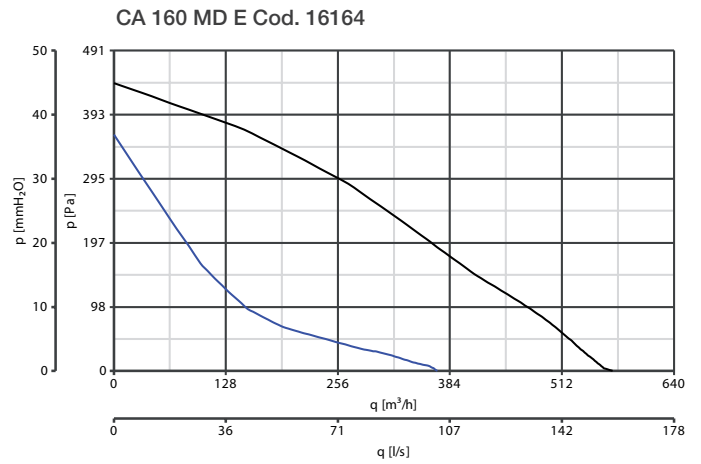
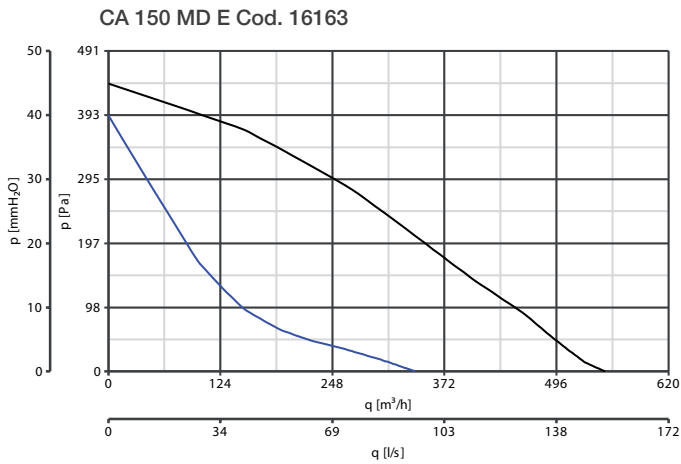
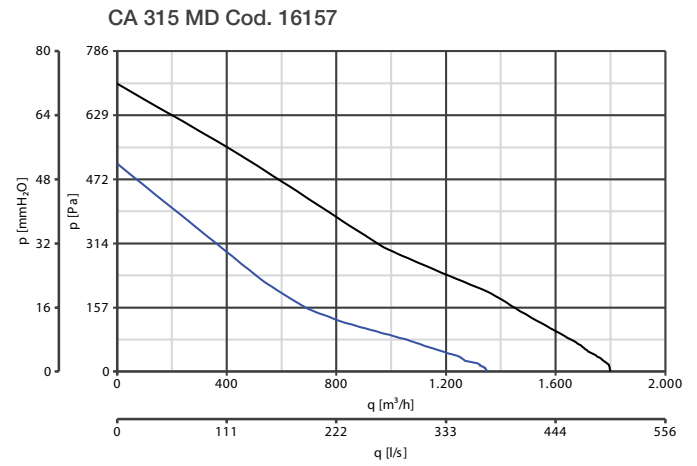
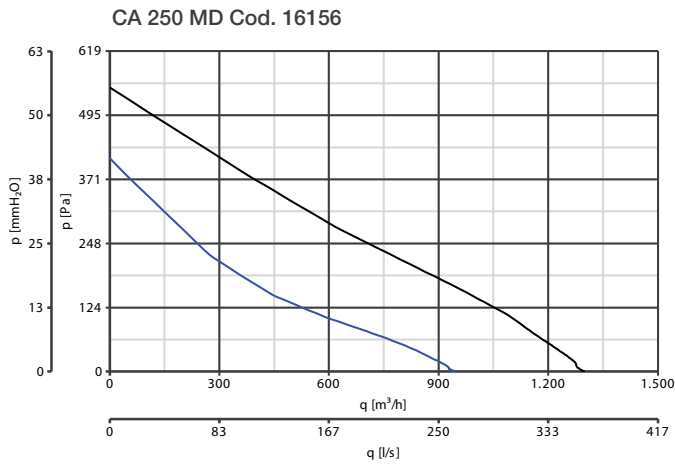




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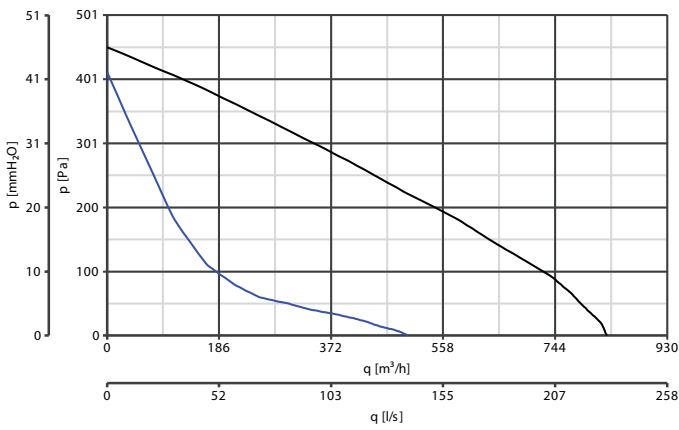
In-line centrifugal fans in metal

PERFORMANCE CURVES

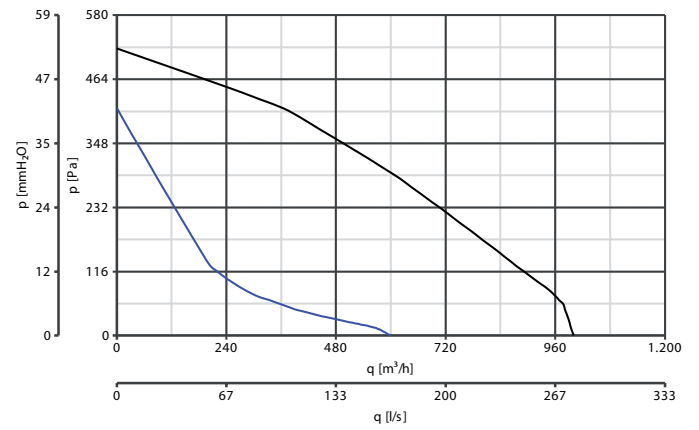


PERFORMANCE CURVES

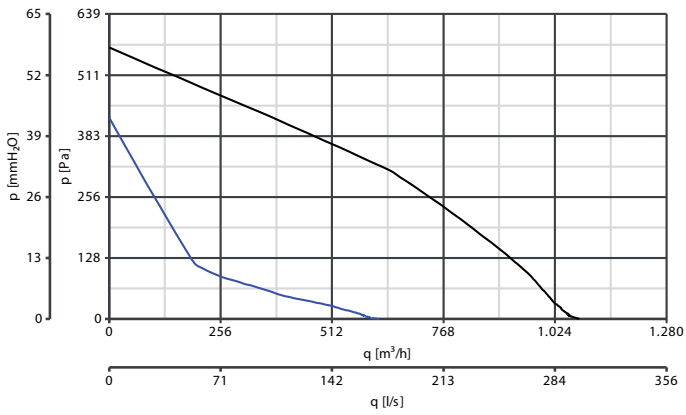
CA 200 MD E Cod. 16165



CA 250 MD E Cod. 16166



CA 315 MD E Cod. 16167



— min. — max.



CA MD EP RANGE

In-line centrifugal fans in metal

PRODUCT SPECIFICATIONS

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

- **8 models:** from 100 diameter to 315.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Direction flaps optimised to reduce turbulence inside the appliance.
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II



LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD EP	16208	26 - 85	0.22 - 0.40	1190 - 2370	163 - 337	45.0 - 93.0	19.9 - 38.9	195.9 - 381.6	32.2 - 43.2 (*)	50	2.97
CA 125 MD EP	16209			1130 - 2300	210 - 445	58.0 - 123.6	17.6 - 36.8	172.6 - 361.4	30.8 - 45.9 (*)		3.0
CA 150 Q MD EP	16210			1160 - 2340	230 - 470	63.8 - 130.5	12.3 - 33.3	121.1 - 327.0	34.7 - 48.1 (*)		2.98
CA 150 MD EP	16211	39 - 85	0.34 - 0.38	1580 - 2650	313 - 535	86.9 - 148.6	32.2 - 44.3	316.0 - 435.1	42.4 - 53.2 (**)		4.9
CA 160 MD EP	16212			1130 - 2665	325 - 555	90.2 - 154.1	32.7 - 44.0	321.5 - 431.8	43.4 - 53.4 (**)		
CA 200 MD EP	16213	39 - 98	0.35 - 0.43	1440 - 2630	412 - 775	114.0 - 215.0	36.0 - 45.0	353.0 - 441.0	36.2 - 48.1 (**)		4.8
CA 250 MD EP	16214	50 - 120	0.47 - 0.53	1410 - 2635	540 - 1010	150.0 - 280.5	33.7 - 54.8	330.8 - 537.6	38.3 - 52.7 (**)		5.3
CA 315 MD EP	16215			1510 - 2630	570 - 1015	158.3 - 281.9	36.0 - 22.5	353.2 - 544.9	41.8 - 52.3 (**)		

* 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.

Electrical supply: 230 V - 50 Hz.


 Remote Control Unit
included


CA MD EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 MD EP	CA 125 MD EP	CA 150 Q MD EP	CA 150 MD EP
		16208	16209	16210	16211
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	E	E	E
Specific Energy Consumption class SEC average	kWh/m ² a	-9,5	-10,6	-11,2	-11,9
Specific Energy Consumption class SEC cold		-18,9	-20,1	-20,7	-21,5
Specific Energy Consumption class SEC warm		2,1	0,9	0,3	-0,5
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA
Maximum flow rate [m ³ /s]	m ³ /s	0,075	0,0894	0,0972	0,1222
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	80,5	80	82	90
Sound power level LWA	LWA [dB(A)]	64	66	69	74
Reference flow rate	m ³ /s	0,0525	0,0626	0,0681	0,0856
Reference pressure difference	Pa	75	70	70	60
SPI	W/(m ³ /h)	0,24497	0,20852	0,19102	0,16883
Control factor CTRL	%	1	1	1	1
Control typology	-	manual	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-
Mixing rate	-	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m ³ /h	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	3,069	2,612	2,393	2,115
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

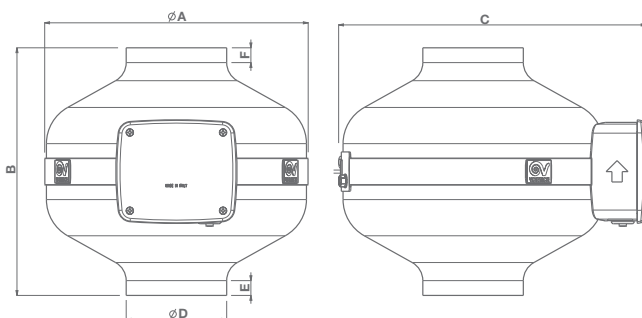
CA MD EP RANGE

In-line centrifugal fans in metal

CA MD EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

Models		CA 160 MD EP	CA 200 MD EP	CA 250 MD EP	CA 315 MD EP
Code		16212	16213	16214	16215
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	E	E	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-11,6	-13,3	-13	-13,1
Specific Energy Consumption class SEC cold		-21,2	-23,1	-22,7	-22,9
Specific Energy Consumption class SEC warm		-0,2	-2,1	-1,7	-1,9
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA
Maximum flow rate [m³/s]	m³/s	0,1292	0,1847	0,2472	0,2583
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	89	94	136	131
Sound power level LWA	LWA [dB(A)]	74	69	73	73
Reference flow rate	m³/s	0,0904	0,1293	0,1731	0,1808
Reference pressure difference	Pa	80	62	65	85
SPI	W/(m³/h)	0,17819	0,12374	0,13355	0,1278
Control factor CTRL	%	1	1	1	1
Control typology	-	manual	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-
Mixing rate	-	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m³/h	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	2,232	1,55	1,673	1,601
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRUVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

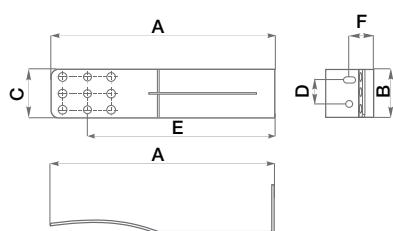
DIMENSIONS


Models	Ø A	B	C	Ø D	E	F
CA 100 MD EP	255	239	300	97	15	15
CA 125 MD				122	23	23
CA 150 Q MD EP				147	30	30
CA 150 MD EP	347	275	392	147	17	17
CA 160 MD EP				157	18	18
CA 200 MD EP				197	20	17
CA 250 MD EP				247	38	35
CA 315 MD EP	406	294	455	312	21	30

Dimensions (mm)

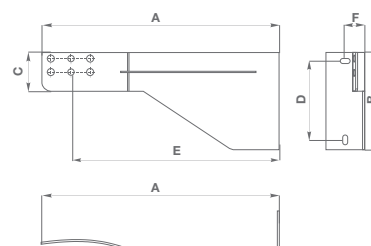
DIMENSIONS

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16208
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16209
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16210 - 16211
	CA-G 150 Protection grille nominal diameter 160 mm	22762	16212
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16213
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16214
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16215
	CA-MU Galvanized sheet-metal brackets	22674	All products

Description and size on page 52; System components on page 54

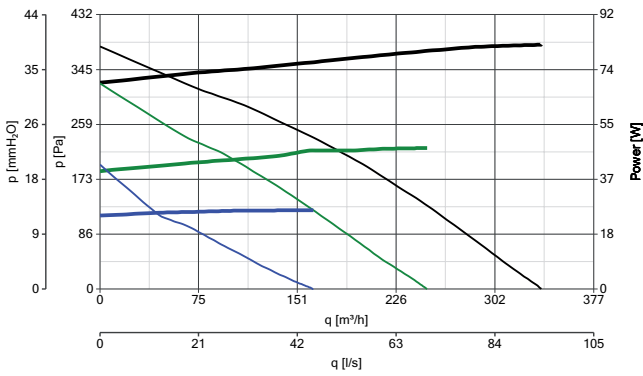


CA MD EP RANGE

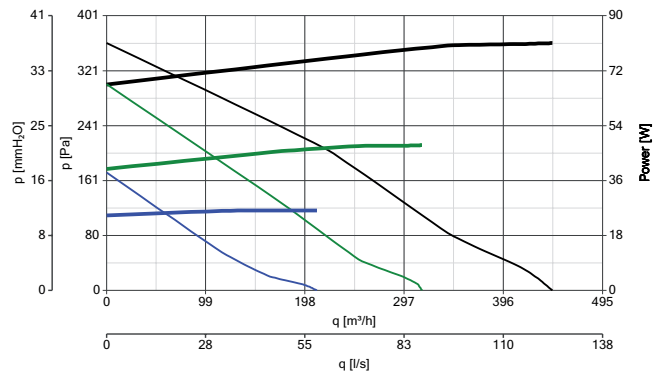
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PERFORMANCE CURVES

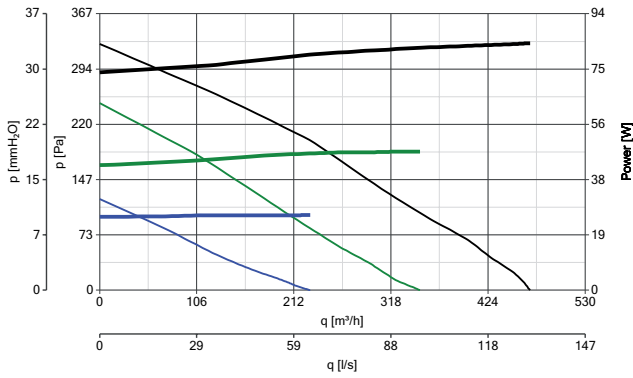
CA 100 MD EP Cod. 16208



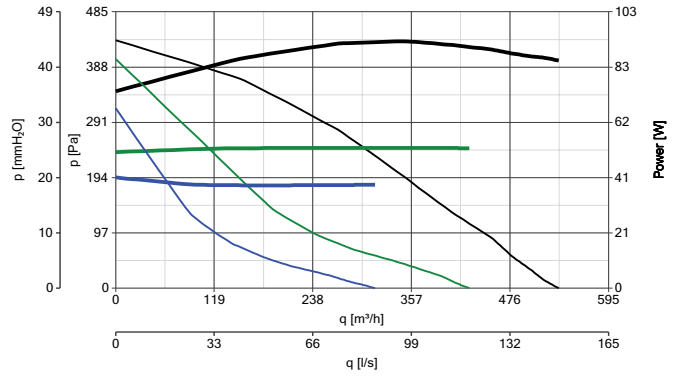
CA 125 MD EP Cod. 16209



CA 150 Q MD EP Cod. 16210

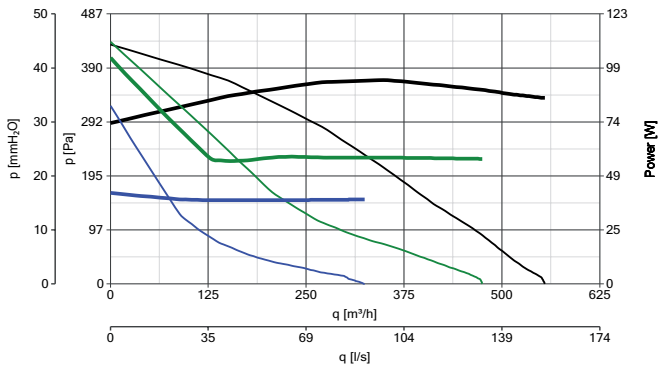


CA 150 MD EP Cod. 16211

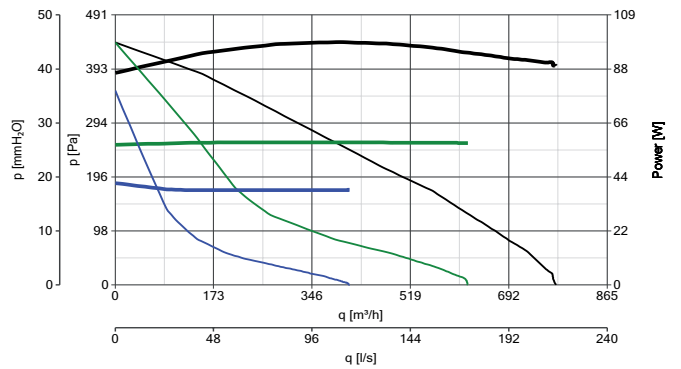


PERFORMANCE CURVES

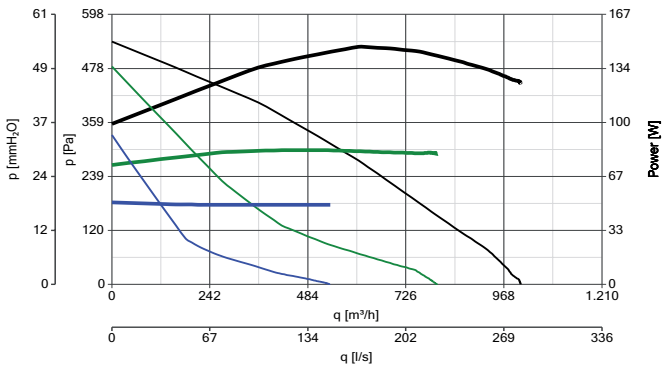
CA 160 MD EP Cod. 16212



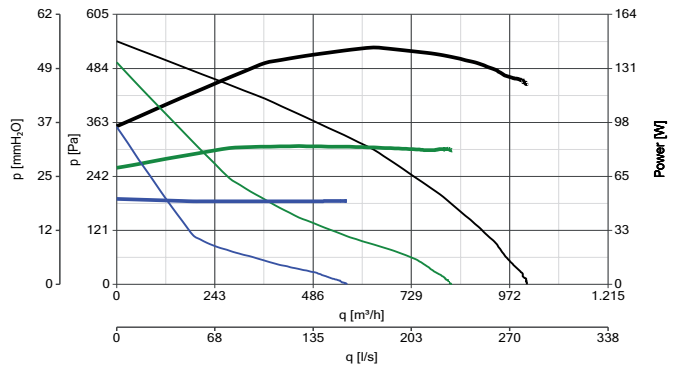
CA 200 MD EP Cod. 16213



CA 250 MD EP Cod. 16214



CA 315 MD EP Cod. 16216



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min



CA ES RANGE

“Energy Saving” in-line centrifugal fans in metal

PRODUCT SPECIFICATIONS



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

- **8 models:** CA 100 ES, CA 125 ES, CA 150 Q ES, CA 150 ES, CA 160 ES, CA 200 ES, CA 250 ES, CA 315 ES.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds, one speed for models CA 250 ES and CA 315 ES.
- Backward curved centrifugal impellers.
- High efficient ball bearing EC motors.
- Low noise emissions.
- Low specific consumption.
- Two levels of airflow, pressure, noise emissions and consumption (for all the models with a diameter until 200).
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II □.
- Insulation class: I. ⊕ (for models 250 ES and 315 Es).

TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*		Max °C	Kg
		min	max	min	max	min	max	m³h		I/S		mmH₂O		Pa		min	max		
CA 100 ES	16170	11	29	0.12	0.29	1310	2020	170	270	47	75	16	37	157	363	24.9	36.8	50	2.7
		19	55	0.20	0.53	1690	2530	220	340	61	94	27	49	265	480	35.4	43.4		
		35	80	0.35	0.75	2140	2880	280	380	78	105	43	51	422	500	38.5	46.9		
CA 125 ES	16171	11	29	0.12	0.29	1180	1820	220	350	61	97	14	34	137	333	25.3	38.4	50	2.6
		19	55	0.20	0.53	1520	2310	280	440	78	122	23	47	225	461	33.2	45.9		
		35	80	0.35	0.75	1930	2620	370	500	103	139	38	49	373	480	40.3	49.7		
CA 150 Q ES	16172	11	29	0.12	0.29	1170	1810	240	380	67	105	11	26	108	255	27.5	40.0	50	2.6
		19	55	0.20	0.53	1515	2300	310	490	86	136	18	42	176	412	34.7	46.6		
		35	80	0.35	0.75	1925	2590	410	560	114	155	30	45	294	441	41.5	49.6		
CA 150 ES	16173	20	30	0.21	0.30	1230	1420	420	480	117	133	17	22	167	216	30.3	34.3	50	4.5
		44	105	0.43	0.93	1620	2170	550	750	153	208	29	51	284	500	38.0	47.3		
		58	120	0.55	1.05	1800	2260	630	820	175	228	36	56	353	549	41.4	48.1		
CA 160 ES	16174	20	30	0.21	0.30	1230	1410	470	540	130	150	17	22	167	216	34.3	35.1	50	4.6
		44	105	0.43	0.93	1620	2160	630	840	175	233	29	51	284	500	39.2	47.1		
		58	120	0.55	1.05	1780	2230	700	890	194	247	36	56	353	549	41.7	48.1		
CA 200 ES	16175	20	30	0.21	0.30	1210	1385	580	675	161	187	15	20	147	196	32.1	34.8	50	4.6
		44	105	0.43	0.93	1600	2140	770	1050	214	292	26	47	255	461	38.0	46.7		
		58	120	0.55	1.05	1760	2240	880	1120	244	311	31	50	304	490	40.8	47.6		
CA 250 ES	16176	140		1.20		3050		1150		319		73		716		57.3		50	4.9
CA 315 ES	16177	148		1.27		1935		1800		500		51		500		50.7		50	6.9

* 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.

Electrical supply: 230 V – 50 Hz.

CA ES
RANGE



CA ES
RANGE



CA ES RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 ES 16170	CA 125 ES 16171	CA 150 Q ES 16172	CA 150 ES 16173	CA 160 ES 16174
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	F	E	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-5,8	-9,3	-10,3	-10,9	-11,6
Specific Energy Consumption class SEC cold		-21,1	-23	-23,6	-23,9	-24,2
Specific Energy Consumption class SEC warm		-0,11	-2,0	-2,6	-2,9	-3,2
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	VSD***	VSD***	VSD***	VSD***	VSD***
Type of heat recovery system HRS	-	None	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA	NA
Maximum flow rate	m³/s	0,075	0,1083	0,1244	0,1806	0,1944
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	80,5	77,8	80	119	113,9
Sound power level LWA	LWA [dB(A)]	56	54	55	58	60
Reference flow rate	m³/s	0,0525	0,0758	0,0871	0,1264	0,1361
Reference pressure difference	Pa	70	70	60	60	60
SPI	W/(m³/h)	0,17989	0,12454	0,10842	0,989	0,08816
Control factor CTRL	%	1	1	1	1	1
Control typology	-	manual	manual	manual	manual	amb. centralized
Maximum internal leakage rates	-	NA	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-	-
Mixing rate	-	NA	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m³/h	NA	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	4,507	3,12	2,716	2,478	2,209
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** VSD: Variable-Speed Drive



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CA ES RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

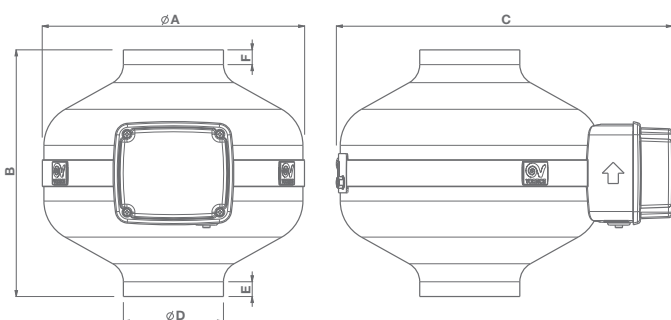
	Models Code	CA 200 ES 16175	CA 250 ES 16176	CA 315 ES 16177
Supplier's name or trade mark	-	Vortice	Vortice	Vortice
Declared typology	-	NRVU-U**	NRVU-U**	NRVU-U**
Type of drive		VSD***	VSD***	VSD***
Type of heat recovery system HRS	-	None	None	None
Thermal efficiency of heat recovery	-	NA	NA	NA
Nominal NRVU flow rate	m ³ /s	0,22639	0,31333	0,49528
Effective electric power input	kW	0,113	0,144	0,153
SFPint	W/(m ³ /h)	NA	NA	NA
Face velocity at design flow rate	m/s	7,20618	6,38318	6,35533
Nominal external pressure (?ps,int)	Pa	111	5	16
Internal pressure drop of ventilation components (?ps,int)	Pa	4	155	154
Internal pressure drop of non-ventilation components (?ps,int)	Pa	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 3272011	%	23,0	34,8	55,0
Declared maximum internal leakage rate of the casing of ventilation units	%	NA	NA	NA
Declared maximum external leakage rate of the casing of ventilation units	%			
Energy performance energy or classification of the filters	-	NA	NA	NA
Description of visual filter warning	%	NA	NA	NA
Casing sound power level (LWA)	dB(A)	NA	NA	NA

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** VSD: Variable-Speed Drive

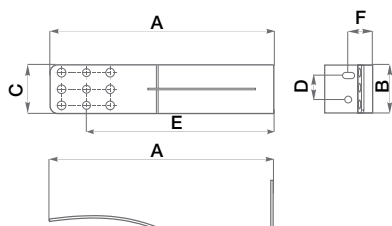
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F
CA 100 ES	255	239	330	97	15	15
CA 125 ES				122	23	23
CA 150 Q ES				147	30	30
CA 150 ES	347	275	422	147	17	17
CA 160 ES				157	18	18
CA 200 ES				197	20	17
CA 250 ES				267	392	247
CA 315 ES	406	362	455	315	35	30

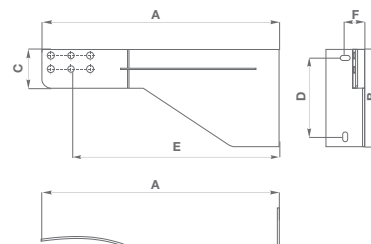
Dimensions (mm)

Galvanised sheet-metal brackets (for model Ø 100-125-150)

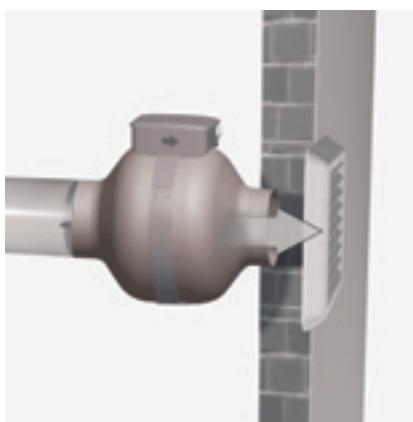
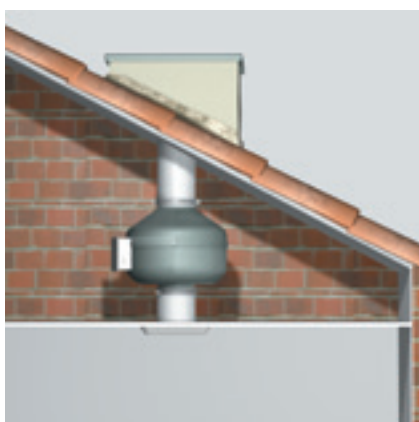


Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)









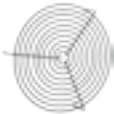

Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10



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PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16150 - 16151 - 16152 - 16153
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16170
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16171
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16172 - 16173
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16174
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16175
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16176
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16177
	CA-MU Galvanized sheet-metal brackets	22674	All products

Description and size on page 52; System components on page 54