



CA V0 E RANGE

In-line centrifugal fans in self-extinguishing plastic

PRODUCT SPECIFICATIONS



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

- **7 models:** CA 100 V0 D, CA 125 V0 D, CA 150 V0 D, CA 200 V0 Q, CA 200 V0 E, CA 250 V0 E, CA 315 V0 E.
- Structure in self-extinguishing V0 PP thermoplastic resin.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Constructed to withstand splashing (suitable for damp environments).
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44 CA V0 E.
- Protection rating: IPX4 CA V0.
- Insulation class: II. □

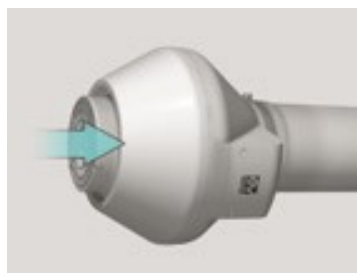
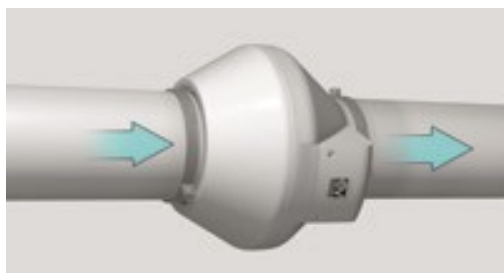
TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max C°	Kg
					m³h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 V0 D	16008	65 - 85	0.32 - 0.38	1660 - 2540	150 - 235	41.7 - 65.3	30 - 40	274 - 392	51 - 56 (*)	50	2.4
CA 125 V0 D	16018	67 - 85	0.34 - 0.40	1480 - 2470	210 - 360	58.3 - 100	25 - 36	245 - 353	45 - 56 (*)		2.3
CA 150 V0 D	16028	70 - 85	0.34 - 0.41	1400 - 2390	280 - 500	77.8 - 138.9	20 - 34	196 - 333	44 - 56 (*)		2.6
CA 200 V0 Q	16035	100	0.35	2290	700	194.4	37	363	59 (*)		3.1
CA 200 V0 E	16038	90	0.40	2615	840	233	45	441	50.3 (**)	55	4.0
CA 250 V0 E	16039	90	0.40	2650	920	256	42	412	49.9 (**)		4.3
CA 315 V0 E	16041	120	0.54	2660	1100	305	55	539	54 (**)		6.5

* 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 for CA V0 E models.
Electrical supply: 220/240 V ~ 50 Hz for CA 100, 120, 150 V0 models.
Electrical supply: 220/240 V ~ 50/60 Hz for CA 200 V0 Q model.

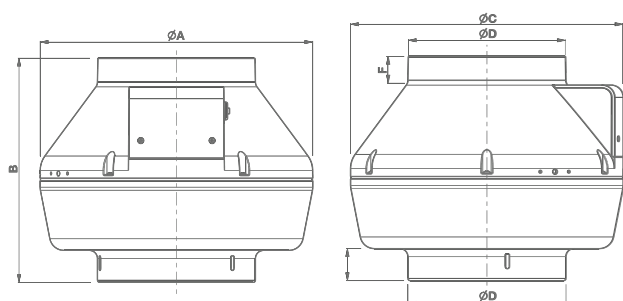




CA V0 E
RANGE



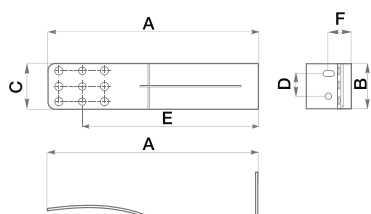
DIMENSIONS



Models	A	B	Ø C	Ø D	E	F
CA 100 V0 D	250	250	250	97	30	30
CA 125 V0 D				122		
CA 150 V0 D	300	305	300	147/157		
CA 200 V0 Q	340	280	340	197	40	
CA 200 V0		305		247		
CA 250 V0						
CA 315 V0	400	340	400	312	75	40

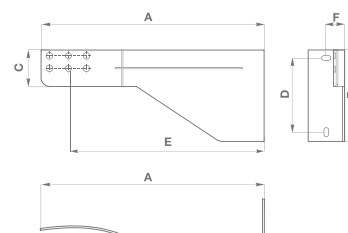
Dimensions (mm)

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

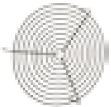
Models	Code		63 Hz	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz
CA 100 V0 D	16008	max speed	43.6	54.4	69.3	64.0	65.2	63.1	60.0	53.1
CA 125 V0 D	16018		47.2	54.6	69.0	65.8	66.2	63.0	59.8	52.3
CA 150 V0 D	16028		44.6	52.6	66.1	62.9	65.8	63.0	61.9	51.7
CA 200 V0 Q	16035		-	-	-	-	-	-	-	-
CA 200 V0 E	16038		10.70	37.80	48.30	58.0	59.20	62.40	56.30	55.30
CA 250 V0 E	16039		23.50	37.10	51.30	56.30	60.50	57.80	55.30	57.80
CA 315 V0 E	16041		23.80	38.80	61.40	60.70	67.10	63.10	60.90	59.70



CA V0 E RANGE

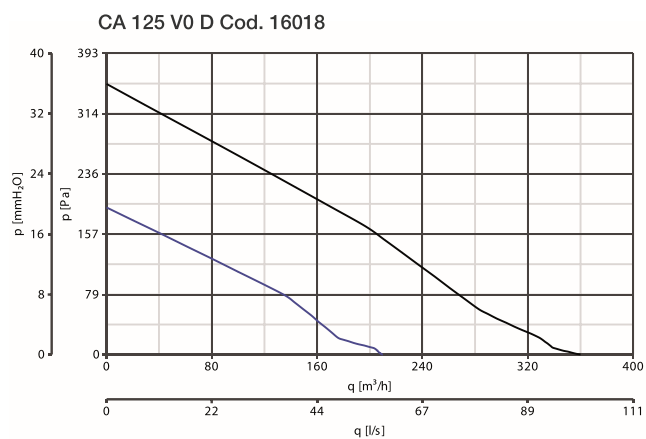
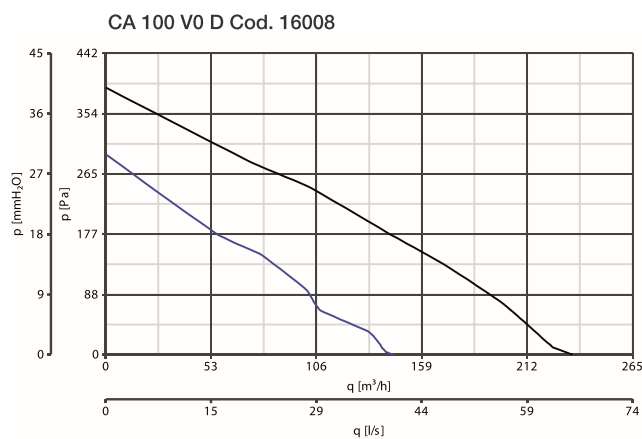
In-line centrifugal fans in self-extinguishing plastic

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	16008 - 16018 - 16028
	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	16008
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16018
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16028
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16035 - 16038
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16039
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16041
	CA-MU Galvanized sheet-metal brackets	22674	All products

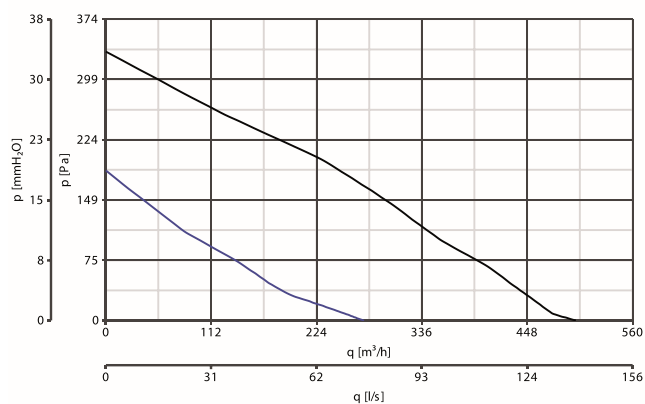
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

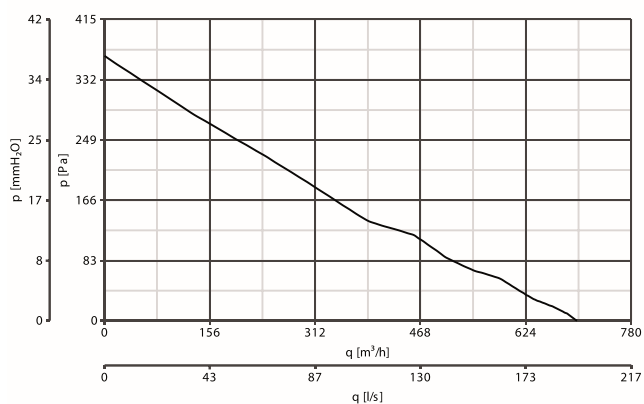


PERFORMANCE CURVES

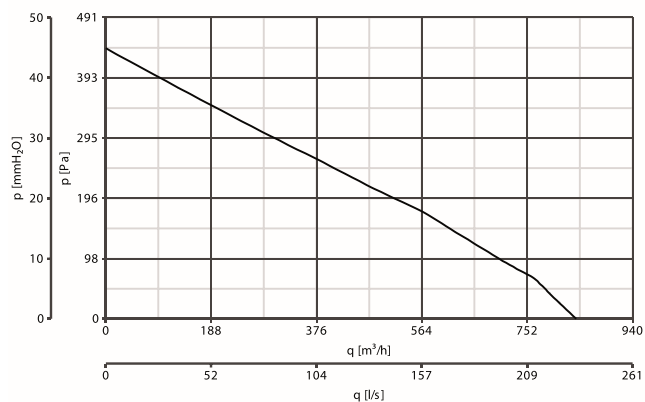
CA 150 V0 D Cod. 16028



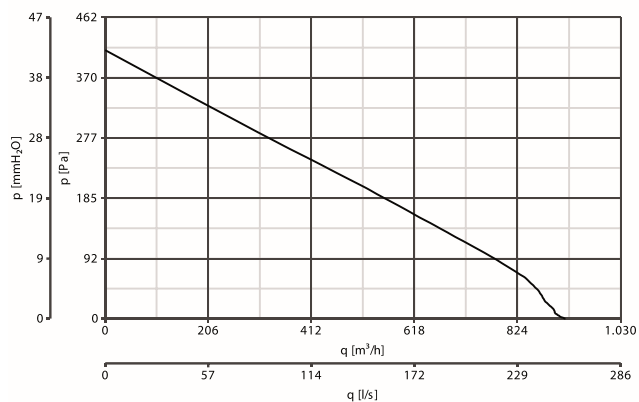
CA 200 V0 Q Cod. 16035



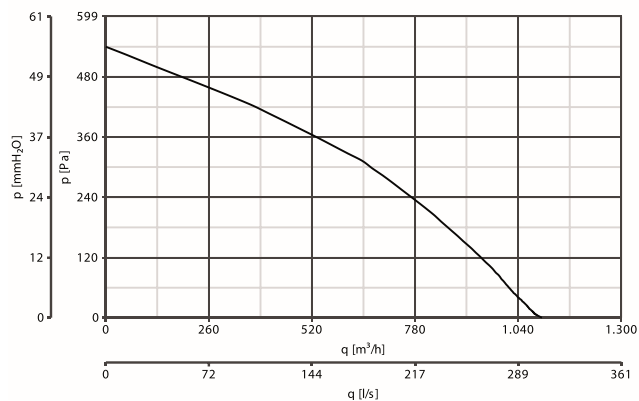
CA 200 V0 E Cod. 16038



CA 250 V0 E Cod. 16039



CA 315 V0 E Cod. 16041



min. max.



NEW

CA V0 EP RANGE

In-line centrifugal fans in self-extinguishing plastic

PRODUCT SPECIFICATIONS



LONG LIFE 30.000 h



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

- **7 models:** CA 100 V0 D EP, CA 125 V0 D EP, CA 150 V0 D EP, CA 200 V0 Q EP, CA 200 V0 EP, CA 250 V0 EP, CA 315 V0 EP.
- Structure in self-extinguishing V0 PP thermoplastic resin.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Constructed to withstand splashing (suitable for damp environments).
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44 CA V0 E.
- Protection rating: IPX4 CA V0.
- Insulation class: II. □

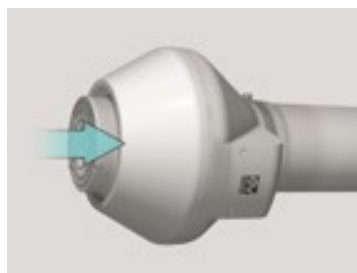
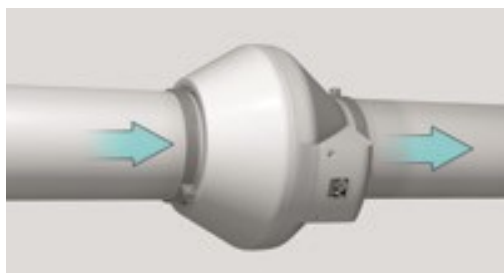
TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max C°	Kg
					m³h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 V0 D EP	16216	26 - 85	0.22 - 0.38	1255 - 2480	110.0 - 231.0	30.5 - 64.1	16.9 - 38.1	165.5 - 373.7	51 - 56 (*)	50	2.4
CA 125 V0 D EP	16217		0.22 - 0.40	1180 - 2400	162.0 - 347.0	45.0 - 96.3	14.7 - 35.7	144.2 - 350.4	45 - 56 (*)		2.3
CA 150 V0 D EP	16218		0.22 - 0.41	1125 - 2335	235.0 - 506.7	65.2 - 140.5	10.9 - 32.6	107.2 - 319.7	44 - 56 (*)		2.6
CA 200 V0 Q EP	16219	39 - 100	0.27 - 0.35	1545 - 2355	440.0 - 690.0	122.2 - 191.6	23.6 - 35.3	231.9 - 346.1	59 (*)	55	3.1
CA 200 V0 EP	16220	39 - 90	0.35 - 0.40	1320 - 2611	387.1 - 775.0	107.5 - 215.3	24.6 - 42.2	241.2 - 413.9	50.3 (**)		3.5
CA 250 V0 EP	16221	45 - 90	0.37 - 0.40	1600 - 2610	525.0 - 855.0	145.8 - 237.5	22.2 - 38.1	218.0 - 373.2	49.9 (**)		3.7
CA 315 V0 EP	16222	48 - 120	0.48 - 0.54	1280 - 2640	527.0 - 1100.0	146.3 - 305.5	27.5 - 56.6	270.0 - 554.7	54 (**)		5.5

* 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: 220/240 V ~ 50 Hz for CA 100, 120, 150 V0 D EP models.
Electrical supply: 220/240 V ~ 50/60 Hz for CA 200 V0 Q EP model.
Electrical supply: 230 V ~ 50 Hz for CA 200, 250, 315 V0 EP models.





CA V0 EP
RANGE



Remote Control Unit
included



CA V0 EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 V0 D EP 16216	CA 125 V0 D EP 16217	CA 150 V0 D EP 16218	CA 200 V0 Q EP 16219
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	F	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-6,3	-9	-11,3	-12,6
Specific Energy Consumption class SEC cold		-15,4	-18,4	-20,8	-22,3
Specific Energy Consumption class SEC warm		5,7	2,6	0,2	-1,3
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	0,0514	0,0703	0,1014	0,1375
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	77	80	83,5	83,5
Sound power level LWA	LWA [dB(A)]	77	77	77	80
Reference flow rate	m³/s	0,036	0,0492	0,071	0,0963
Reference pressure difference	Pa	100	80	55	60
SPI	W/(m³/h)	0,34749	0,25974	0,18787	0,14661
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	4,353	3,254	2,353	1,837
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



CA V0 EP RANGE

In-line centrifugal fans in self-extinguishing plastic

CA V0 EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

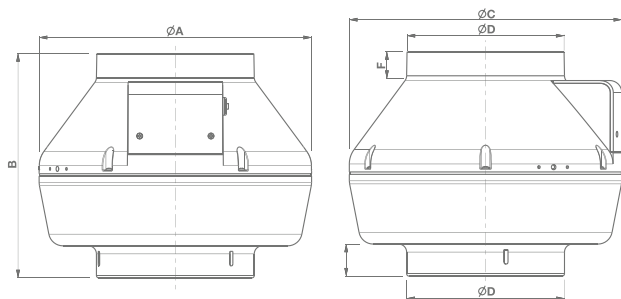
Models		CA 200 V0 E EP	CA 250 V0 E EP	CA 315 V0 E EP
Code		16220	16221	16222
Supplier's name or trade mark	-	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	E	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-13	-13,2	-13,5
Specific Energy Consumption class SEC cold		-22,7	-23	-23,3
Specific Energy Consumption class SEC warm		-1,7	-2	-2,3
Declared typology	-	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA
Maximum flow rate [m³/s]	m³/s	0,1722	0,1972	0,275
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	96	98,4	139
Sound power level LWA	LWA [dB(A)]	71	70	75
Reference flow rate	m³/s	0,1206	0,1381	0,1925
Reference pressure difference	Pa	50	60	50
SPI	W/(m³/h)	0,13272	0,12555	0,11717
Control factor CTRL	%	1	1	1
Control typology	-	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA
Maximum external leakage rates	%	-	-	-
Mixing rate	-	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and – 20 Pa	m³/h	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	1,663	1,573	1,468
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322
AHS warm Annual heating saved		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

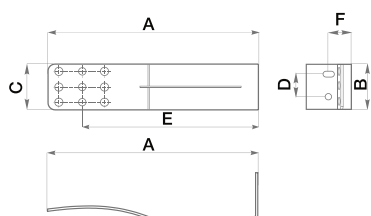


Models	A	B	Ø C	Ø D	E	F
CA 100 V0 D EP	250	250	250	97	30	30
CA 125 V0 D EP				122		
CA 150 V0 D EP	300	305	300	147/157		
CA 200 V0 Q EP	340	280	340	197	40	
CA 200 V0 EP				247		
CA 250 V0 EP		305				
CA 315 V0 EP	400	340	400	312	75	40

Dimensions (mm)

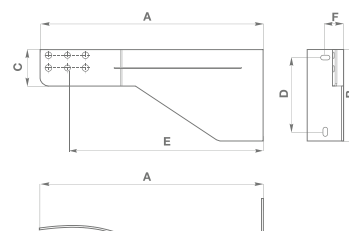
DIMENSIONS

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



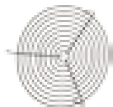
Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

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	16216
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16217
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16218
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16219 - 16220
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16221
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16222
	CA-MU Galvanized sheet-metal brackets	22674	All products

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

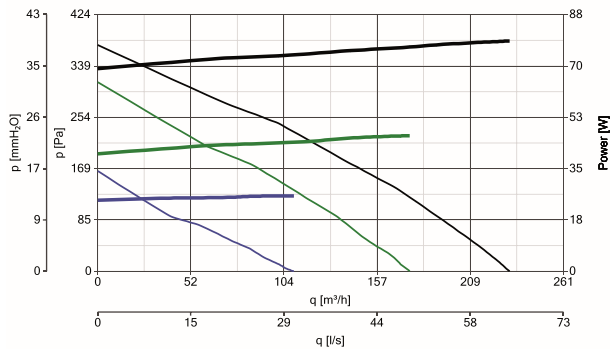


CA V0 EP RANGE

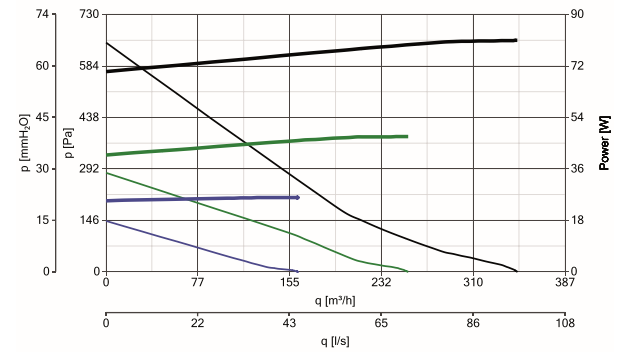
In-line centrifugal fans in self-extinguishing plastic

PERFORMANCE CURVES

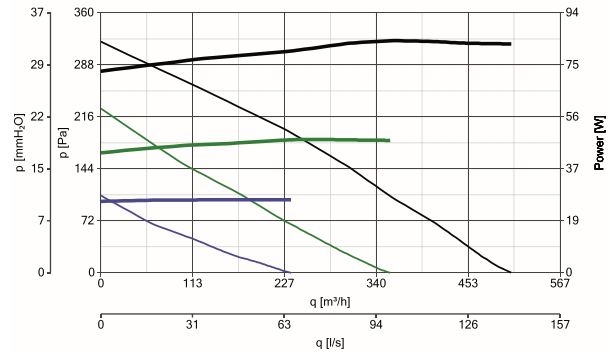
CA 100 V0 D EP Cod. 16216



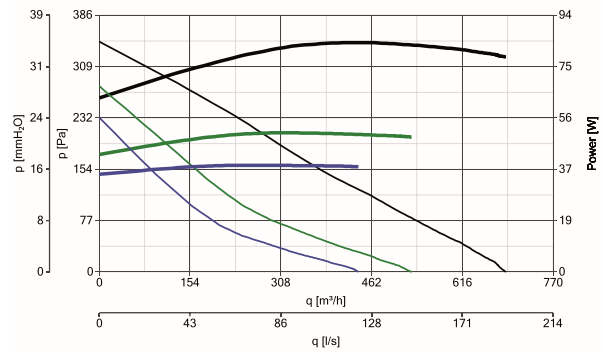
CA 125 V0 D EP Cod. 16217



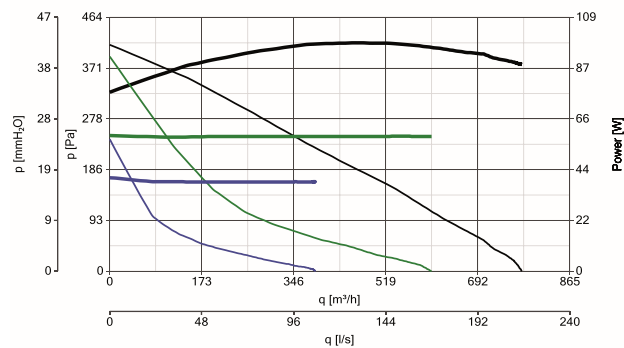
CA 150 V0 D EP Cod.. 16218



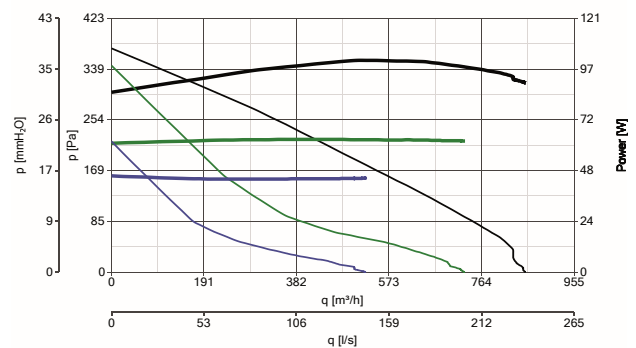
CA 200 V0 Q EP Cod. 16219



CA 200 V0 EP Cod. 16220

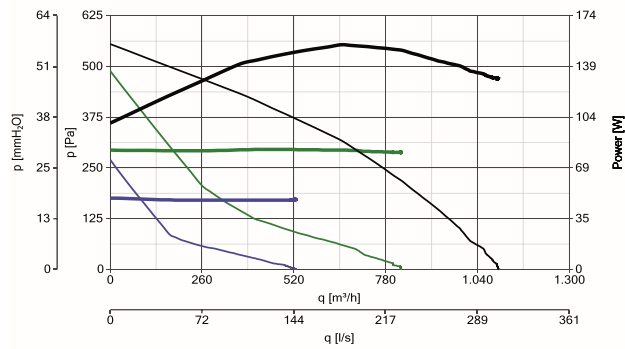


CA 250 V0 D EP Cod. 16221



PERFORMANCE CURVES

CA 315 V0 D EP Cod. 16222



POWER CONSUMPTION
— max
— med
— min

PERFORMANCE CURVES
— max
— med
— min