

MEGAFAN

THE NEW FAN GENERATION



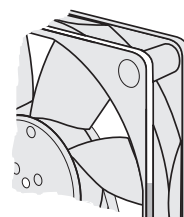
- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 24, TR 64. Stripped and tinned ends
- Mass 175 g.

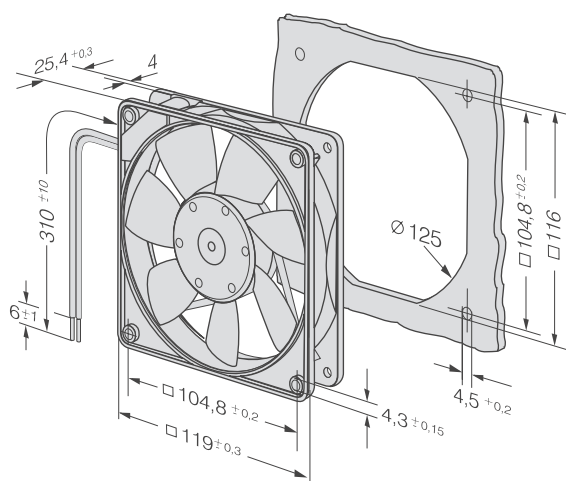
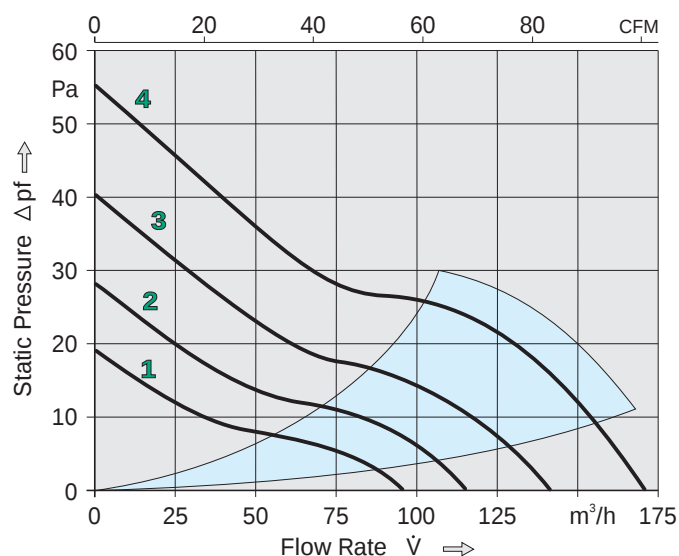
SERIES 4400 F

119x119x25mm

Air flow		Nominal Voltage		Noise		Sintec-Sleeve Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type
m ³ /h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours		
94	55.3	12	7...14	26	3.9	○	1.25	1600	-20...+75	80 000 / 35 000		1	4412FGL
114	67.1	12	7...12.6	32	4.3	○	2.0	1950	-20...+75	75 000 / 32 500		2	4412FGML
140	82.4	12	7...12.6	38	4.8	○	3.2	2400	-20...+75	70 000 / 30 000		3	4412FGM
140	82.4	12	7...12.6	38	4.8	●	3.2	2400	-20...+75	70 000 / 30 000		3	4412FM
140	82.4	24	12...28	38	4.8	●	3.2	2400	-20...+75	70 000 / 30 000		3	4414FM
170	100.1	24	12...28	43	5.3	●	5.0	2900	-20...+75	62 500 / 27 500		4	4414F
170	100.1	48	43...56	43	5.3	●	6.5	2900	-20...+60	52 500 / 30 000		4	4418F

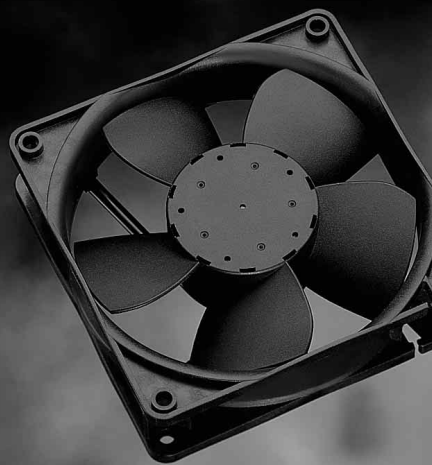


Available on request:
Fan housing with stiffening
ribs. For mounting over
both flanges.



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THE NEW FAN GENERATION



new · new · new · new · new

- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via leads AWG 22, TR 64. Stripped and tinned ends
- Mass 240 g.

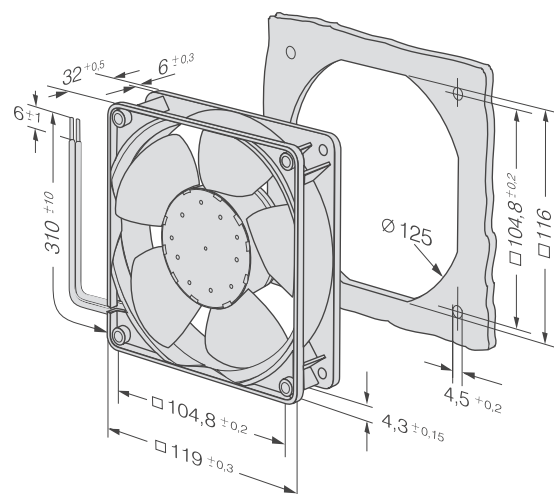
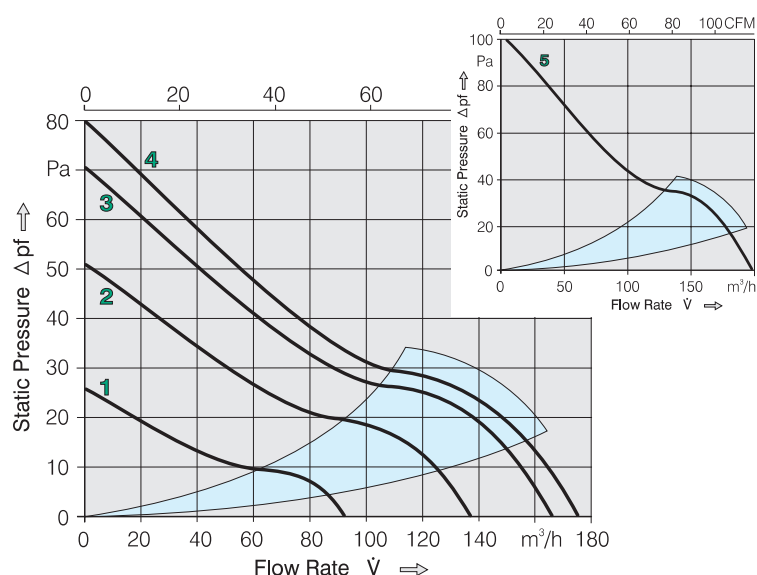
SERIES 4300N

119x119x32 mm

Air flow		Nominal Voltage		Noise		Sinter Sleeve Bearings		Power Input	Nominal Speed	Temperature Range		Service Life L ₁₀		Curve	Type
m ³ /h	CFM	V DC	V DC	dB(A)		○/●				°C		Hours	Hours		
93	54.7	12	7...14.5	28	4.1	○		1.2	1650	-20...+70		80 000 / 40 000		1	4312NGL
137	80.6	12	7...14.5	37	5.1	○		2.6	2450	-20...+70		70 000 / 35 000		2	4312NGM
166	97.7	12	7...14.5	43	5.6	○		4.0	3000	-20...+70		60 000 / 30 000		3	4312NGN
176	103.4	12	7...14.5	45	5.8	○		4.7	3150	-20...+70		60 000 / 30 000		4	4312NGH
198	116.5	12	7...14.5	49	6.2	○		6.5	3600	-20...+70		57 500 / 25 000		5	4312NGHH
93	54.7	24	12...28	28	4.1	○		1.2	1650	-20...+70		80 000 / 40 000		1	4314NGL
137	80.6	24	12...28	37	5.1	○		2.6	2450	-20...+70		70 000 / 35 000		2	4314NGM
166	97.7	24	12...28	43	5.6	○		4.0	3000	-20...+70		60 000 / 30 000		3	4314NGN
176	103.4	24	12...28	45	5.8	○		4.7	3150	-20...+70		60 000 / 30 000		4	4314NGH
198	116.5	24	12...28	49	6.2	○		6.5	3600	-20...+70		57 500 / 25 000		5	4314NGHH

Optional:

- Ball bearing versions available shortly





- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CW looking at rotor.
- Electrical connection via leads AWG 22, TR 64. Stripped and tinned ends
- Mass 220 g.

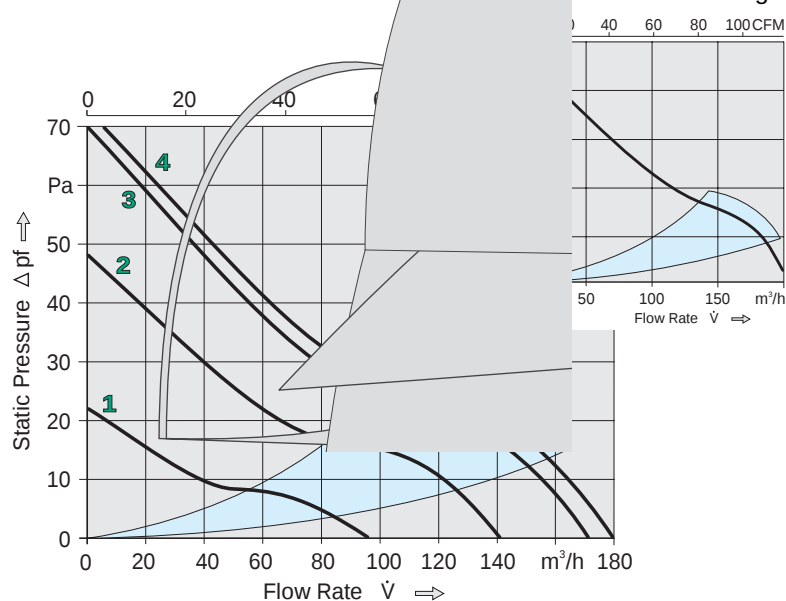
SERIES 4300

119x119x32mm

Air flow	Air flow	Nominal Voltage	Voltage Range				Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type
			V DC	V DC	dB(A)	bels					at 40 °C	at t _{max}		
m³/h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours			
95	55.9	12	6...15	30	4.3		1.2	1550	-20...+75	80 000 / 35 000		1	4312 GL	
95	55.9	12	6...15	30	4.3	●	1.2	1550	-20...+75	80 000 / 35 000		1	4312 L	
140	82.4	12	6...15	39	5.3		2.6	2300	-20...+75	70 000 / 30 000		2	4312 GM	
140	82.4	12	6...15	39	5.3	●	2.6	2300	-20...+75	70 000 / 30 000		2	4312 M	
170	100.1	12	6...15	45	5.8		5.0	2800	-20...+75	62 500 / 27 500		3	4312 G	
170	100.1	12	6...15	45	5.8	●	5.0	2800	-20...+75	62 500 / 27 500		3	4312	
180	105.9	12	6...15	47	6.1	●	5.8	3000	-20...+75	57 500 / 25 000		4	4312-143	
204	120.1	12	6...13.2	51	6.4	●	8.5	3400	-20...+75	47 500 / 20 000		5	4312-179	

Attention:

In the foreseeable future the 4300 fan series will be removed from the range and replaced by the products of the new series 4300 N.



Rotor protrusion max. 0.4 mm





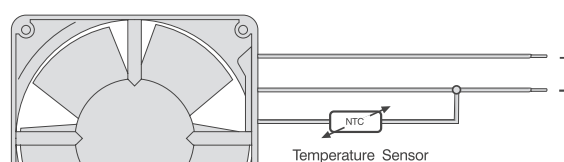
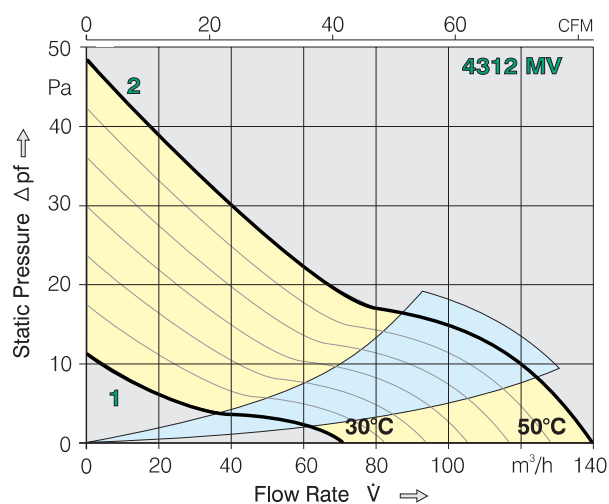
- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CW looking at rotor.
- Electrical connection via 3 leads AWG 22, TR 64. Stripped and tinned ends
- Mass 220 g.

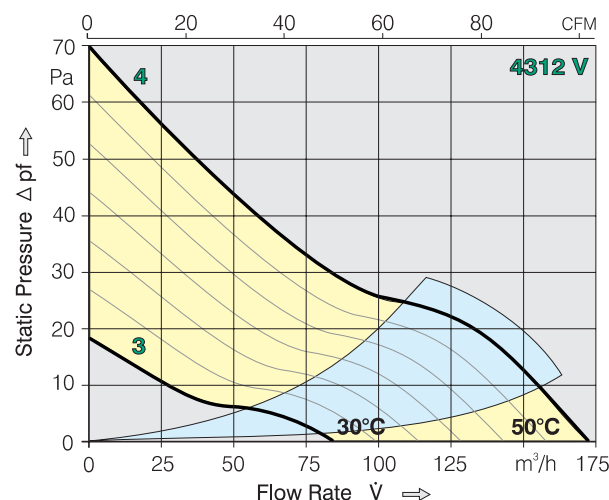
SERIES 4300 VARIOFAN

119x119x32mm

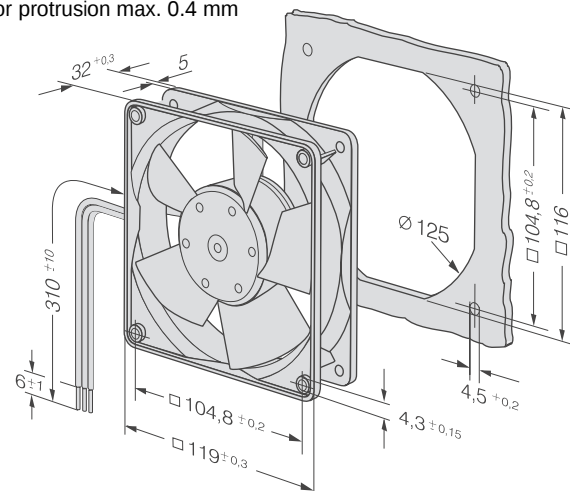
Air flow	Air flow	Nominal Voltage		Voltage Range		Noise		Sinter Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀	at 40 °C	at t _{max} .	Curve	Type
		m³/h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours				
	70	41.2	12	8...12.6	22	3.7	●	1.4	1150	-20...+65	70 000 / 37 500	1	4312 MV				
	140	82.4			39	5.3		3.4	2300					2			
	85	50.0	12	8...12.6	29	4.2	●	1.8	1400	-20...+65	65 000 / 35 000	3	4312 V				
	170	100.0			45	5.8		5.4	2800					4			



The temperature sensor for controlling the motor speed is not included in delivery. Temperature sensor LZ 370 see accessories page 76.

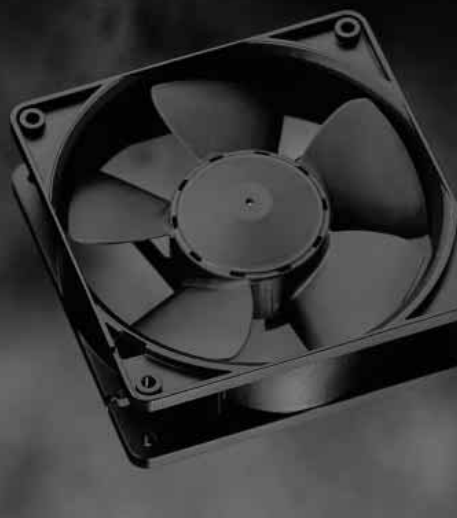


Rotor protrusion max. 0.4 mm



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- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 22, TR 64. Stripped and tinned ends
- Mass 240 g.

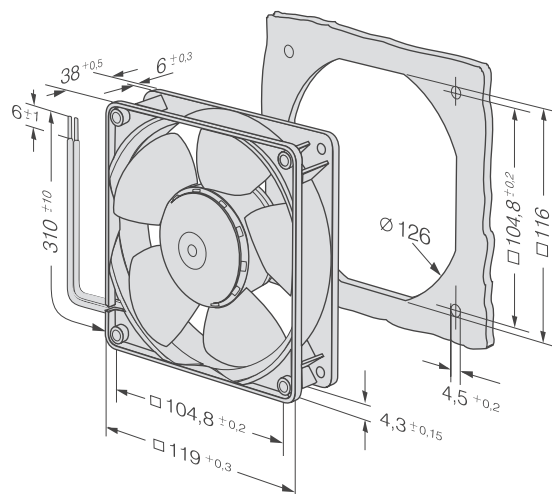
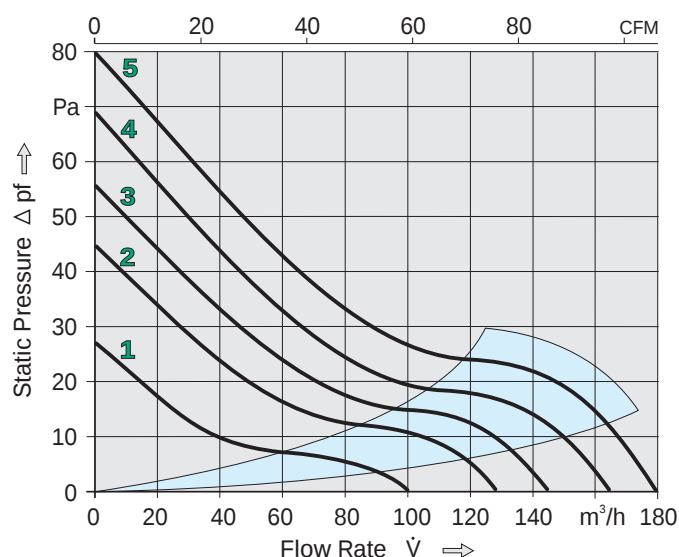
SERIES 4200N

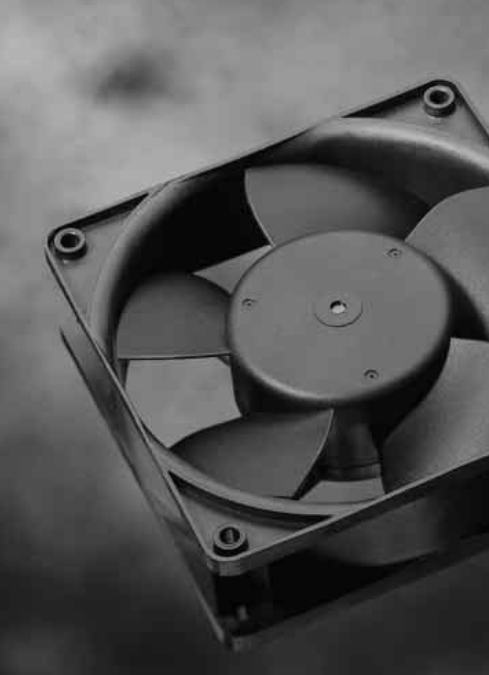
119x119x38mm

Air flow		Nominal Voltage		Noise		Sinter-Sleeve Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type
m³/h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours		
100	58.9	12	7...14.5	28	4.3	○	1.4	1700	-20...+70	80 000 / 40 000		1	4212NGL
127	74.8	12	7...14.5	35	4.8	○	2.2	2150	-20...+70	70 000 / 35 000		2	4212NGML
144	84.8	12	7...14.5	38	5.1	○	3.0	2450	-20...+70	70 000 / 35 000		3	4212NGM
165	97.1	12	7...14.5	42	5.4	○	4.0	2750	-20...+70	60 000 / 30 000		4	4212NGN
180	105.9	12	7...14.5	45	5.7	○	5.0	3050	-20...+70	60 000 / 30 000		5	4212NGH
100	58.9	24	12...28	28	4.3	○	1.4	1700	-20...+70	80 000 / 40 000		1	4214NGL
127	74.8	24	12...28	35	4.8	○	2.2	2150	-20...+70	70 000 / 35 000		2	4214NGML
144	84.8	24	12...28	38	5.1	○	3.0	2450	-20...+70	70 000 / 35 000		3	4214NGM
165	97.1	24	12...28	42	5.4	○	4.0	2750	-20...+70	60 000 / 30 000		4	4214NGN
180	105.9	24	12...28	45	5.7	○	5.0	3050	-20...+70	60 000 / 30 000		5	4214NGH
180	105.9	48	36...56	45	5.7	○	5.0	3050	-20...+70	60 000 / 30 000		5	4218NGH

Optional:

- Ball bearing version available shortly
- Varied speeds with high flow rate





- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.

- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 22, TR 64. Stripped and tinned ends
- Mass 290 g.

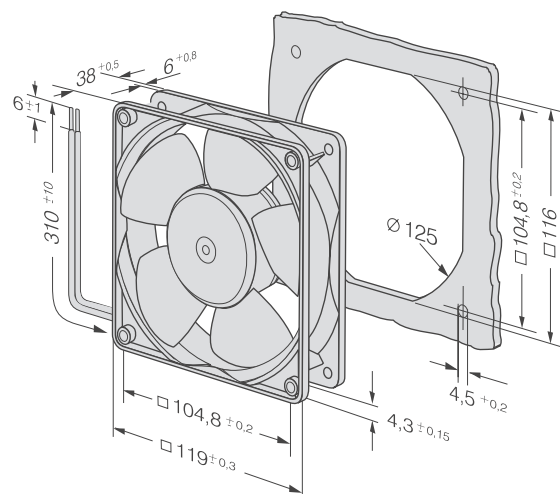
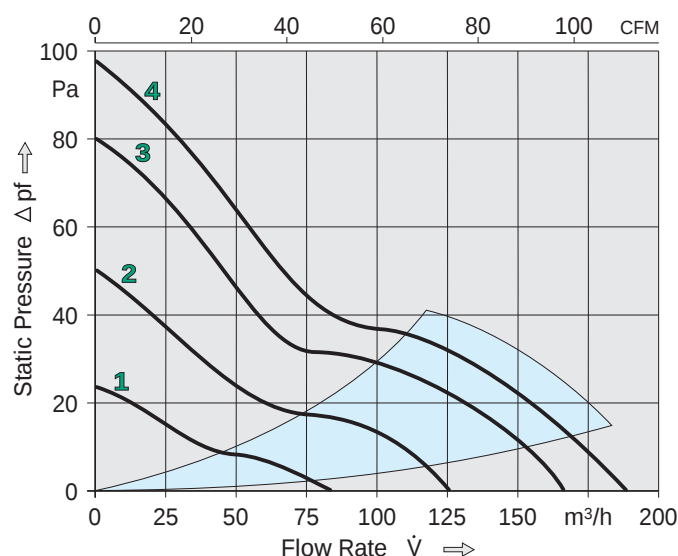
SERIES 4200

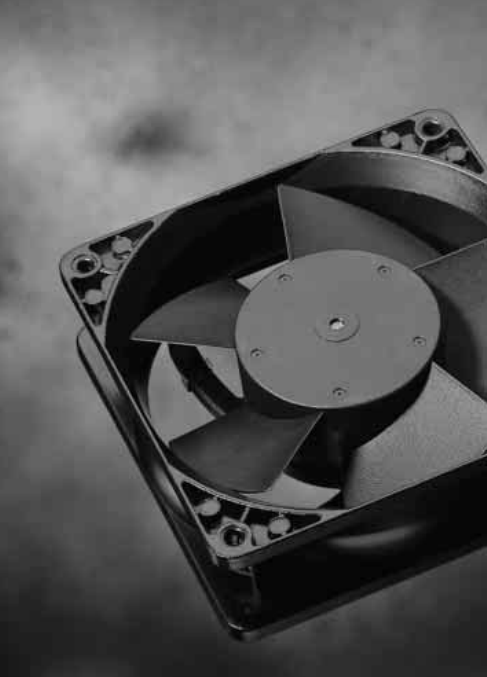
119x119x38mm

Air flow	Air flow	Nominal Voltage		Voltage Range		Noise		Sinter-Sleeve Bearings		Ball Bearings		Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type
		V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours							
m³/h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min ⁻¹	°C	Hours	Hours							
86	50.6	12	7...14.5	29	4.2	●	1.2	1600	-20...+75	80 000 / 35 000	1							4212L
127	74.7	12	7...14.5	38	4.9	○	2.2	2350	-20...+75	70 000 / 30 000	2							4212GM
127	74.7	12	7...14.5	38	4.9	●	2.2	2350	-20...+75	70 000 / 30 000	2							4212M
165	97.1	12	7...14.5	45	5.6	●	4.3	3050	-20...+75	62 500 / 27 500	3							4212
184	108.3	12	7...14.5	49	5.9	●	5.3	3400	-20...+65	60 000 / 32 500	4							4212H
86	50.6	24	12...28	29	4.2	●	1.2	1600	-20...+75	80 000 / 35 000	1							4214L
165	97.1	24	12...28	45	5.6	○	4.3	3050	-20...+75	62 500 / 27 500	3							4214G
165	97.1	24	12...28	45	5.6	●	4.3	3050	-20...+75	62 500 / 27 500	3							4214
184	108.3	24	12...28	49	5.9	○	5.3	3400	-20...+65	60 000 / 32 500	4							4214GH
184	108.3	24	12...28	49	5.9	●	5.3	3400	-20...+65	60 000 / 32 500	4							4214H
165	97.1	48	36...56	45	5.6	●	4.3	3050	-20...+75	62 500 / 27 500	3							4218
184	108.3	48	36...56	49	5.9	●	5.6	3400	-20...+65	60 000 / 32 500	4							4218H

Attention:

In the foreseeable future the 4200 fan series will be removed from the range and replaced by the products of the new series 4200N.





- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.

- Metal fan housing. Impeller of fibre-glass reinforced plastic PA. Housing with ground lug for screw M4.
- Air intake over struts. Rotational direction CW looking at rotor.
- Electrical connection via 2 flat pins 2,8 x 0,5 mm.
- Mass 390 g.

SERIES 4100

119x119x38mm

Air flow		Nominal Voltage		Noise		Sinter-Sleeve Bearings Ball Bearings	Power Input	Nominal Speed	Temperature Range	at t_{max} .	Curve	Type
m³/h	CFM	V DC	V DC	dB(A)	bels							
160	94.2	12	7...15	44	5.3	○	3.5	2800	-10...+75	85 000 / 37 500	1	4182NGX
180	105.9	12	7...15	49	5.7	●	4.5	3200	-30...+75	85 000 / 37 500	2	4182NX
160	94.2	24	12...30	44	5.3	○	3.5	2800	-10...+75	85 000 / 37 500	1	4184NGX
180	105.9	24	12...29	49	5.7	●	4.5	3200	-30...+75	85 000 / 37 500	2	4184NX
237	139.5	24	12...25	59	6.5	●	11	4400	-30...+55	70 000 / 50 000	3	4184NXH
160	94.2	48	36...56	44	5.3	●	3.5	2800	-30...+75	85 000 / 37 500	1	4188NXM

48V Type with grounding screw M4x8 (TORX).

