

General characteristics

Noise data

Acoustic measurements made at a distance of 1.0 metre from the surface of the fan (inner side) and 45° radially off the fan axis.

Air flow performance data

The performance data were determined in accordance with AMCA standard 210-74 on a double chamber test set up with measurement on the suction side.

Overload

All Crouzet fans have integrated protection against locked rotor condition to avoid damage to windings and electronic components. Restarting is automatic as soon as any constraints on running have been removed.

Bearing systems

All Crouzet fans have specially designed and precision lubricated sleeve bearings for long, maintenance-free performance at low noise level. Ball bearing on request.

Safety

All fans are designed and manufactured in conformance with the requirements of UL, CSA and VDE.

Life

AC fans

Bearings sleeve

□ 120 x 38 mm	100 000 hours at 25 °C 25 000 hours at 55 °C 10 000 hours at 70 °C
□ 92 x 25 mm 80 x 38 mm 80 x 25 mm	80 000 hours at 25 °C 20 000 hours at 55 °C 10 000 hours at 70 °C

AC fans

Ball bearings

□ 120 x 38 mm	100 000 hours at 25 °C 25 000 hours at 55 °C 10 000 hours at 70 °C
□ 92 x 25 mm 80 x 38 mm 80 x 25 mm	80 000 hours at 25 °C 25 000 hours at 55 °C 10 000 hours at 80 °C

DC fans

Bearings sleeve

□ 120 x 38 mm 92 x 25 mm 80 x 25 mm	100 000 hours at 25 °C 80 000 hours at 25 °C 80 000 hours at 25 °C
□ 80 x 25 mm	65 000 hours at 25 °C 30 000 hours at 55 °C 20 000 hours at 65 °C

Operating temperature

AC :	-10 °C at + 70 °C
DC :	0 °C at + 70 °C

Storage temperature

AC :	-30 °C at + 75 °C
DC :	-30 °C at + 75 °C

Operating voltage

AC :	115 V : 85 V - 125 V 220 V : 185 V - 245 V
DC :	12 V : 10.2 V - 13.8 V 24 V : 20.4 V - 27.6 V

Dielectric strength

AC :	1500 V ~ for one minute
DC :	600 V ~ for 2 seconds

Insulation resistance

AC :	500 V = 100 M
DC :	250 V = 10 M

Flow conversion table

	CFM	m ³ /h	m ³ /min	l/min	l/s
1 CFM	1	1.7	0.028	28.3	0.47
1 m ³ /h	0.588	1	0.017	16.67	0.28
1 m ³ /min	35.28	60	1	1000	16.67
1 l/min	0.035	0.06	0.001	1	0.017
1 l/s	2.12	3.6	0.06	60	1

The new KDE range

Self-commutated DC fans

The range of DC fans have the advantage of a new, patented design referred to as "single winding".

This new range, the KDE range, forms a useful replacement for the MD range and provides the following improvements:

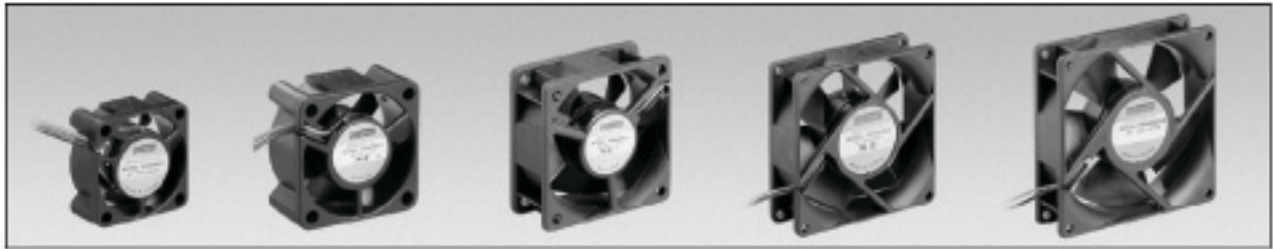
- higher air flow thanks to smaller motor diameter,
- quieter (gain of at least 2 dB),
- longer life,
- greater dielectric strength.

The new range offers upward compatibility (1) with the MD range (see table below) and allows us to offer fans even more compact than the 0 x 0, 0 x 0, 0 x 0, and 0 x 0 models.

(1) Current consumption should be checked however, as it may be higher in some cases.

Old part no	New part no	Old part no	New part no
□ 60		□ 120	
99 486 177	99 484 401	99 487 477	99 484 001
99 486 179	99 484 403	99 487 478	99 484 003
99 486 179	99 484 404	99 487 479	99 484 004
□ 80		99 487 487	99 484 005
99 486 277	99 484 301	99 487 488	99 484 007
99 486 279	99 484 303	99 487 488	99 484 008
99 486 287	99 484 304	99 487 377	99 484 101
99 486 287	99 484 354	99 487 378	99 484 102
99 486 289	99 484 306	99 487 379	99 484 103
□ 92		99 487 387	99 484 104
99 486 377	99 484 201	99 487 388	99 484 105
99 489 377	99 484 251	99 487 389	99 484 106
99 486 379	99 484 203		
99 486 387	99 484 204		
99 486 389	99 484 206		

Brushless DC Axial Fans



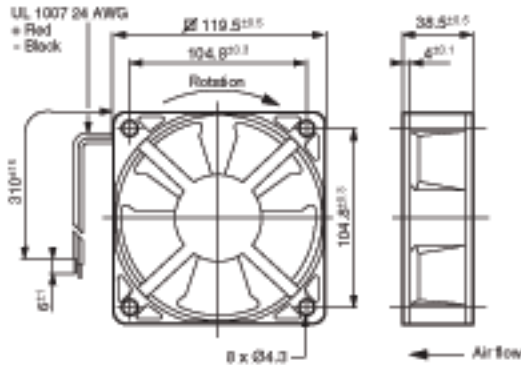
General Specifications		Part Number	Voltage (V)	Current (A)	Speed (RPM)	Power (W)	Airflow (CFM)	Max. Air Pressure (Inch-H ₂ O)	Noise (dBA)	Weight (g)	Bearing Type	
Material:		80 x 80 x 25mm (3 1/8 x 1 1/2)										
Body	PBT UL 94V-0	99484301	12	0.22	3000	2.6	41.7	0.19	33.0	120	Sleeve	
Fan	PBT UL 94V-0	99484303	12	0.12	2200	1.4	29.4	0.15	24.5	120	Sleeve	
Insulation: Class E		99484304	24	0.15	3000	3.6	41.7	0.19	33.0	120	Sleeve	
Approvals: UL, cUL, Recognized E118509		99484305	24	0.12	2650	2.9	34.4	0.17	28.0	120	Sleeve	
		99484306	24	0.10	2200	2.4	29.4	0.15	24.5	120	Sleeve	
		99484351	12	0.22	3200	2.6	42.5	0.23	33.5	120	Ball	
Box Count:		99484353	12	0.12	2500	1.4	30	0.14	25.0	120	Ball	
120 x 38	40 pieces	99484354	24	0.22	3100	2.6	38	0.23	33.5	120	Ball	
120 x 25	40 pieces	99484356	24	0.12	2350	1.4	27	0.14	25.0	120	Ball	
92 x 25	50 pieces	60 x 60 x 25 (mm)										
80 x 25	50 pieces	99484401	12	0.19	4500	2.2	21.7	0.20	34.0	60	Sleeve	
60 x 25	100 pieces	99484402	12	0.13	3800	1.6	17.6	0.14	31.0	60	Sleeve	
60 x 15	200 pieces	99484403	12	0.09	3300	1.2	15.9	0.10	26.7	60	Sleeve	
40 x 20	200 pieces	99484404	24	0.11	4500	2.6	21.7	0.20	34.0	60	Sleeve	
40 x 10	400 pieces	99484406	24	0.06	3300	1.4	15.9	0.10	26.7	60	Sleeve	
25 x 10	500 pieces	99484451	12	0.19	4700	2.2	22.1	0.22	34.3	60	Ball	
		99484454	24	0.11	4500	2.6	21.7	0.20	34.0	60	Ball	
		60 x 60 x 15 (mm)										
		99484501	12	0.16	4000	1.9	17.8	0.14	31.0	45	Sleeve	
		99484502	12	0.09	3300	1.2	14.8	0.11	26.0	45	Sleeve	
		40 x 40 x 20 (mm)										
		99484601	12	0.07	6000	0.9	6.5	0.12	25.5	35	Sleeve	
		99484602	12	0.50	4500	0.6	5.2	0.08	22.8	35	Sleeve	
		99484603	24	0.07	6500	1.6	7.8	0.16	29.0	35	Sleeve	
		99484604	24	0.06	6000	1.2	6.5	0.12	25.5	35	Sleeve	
		40 x 40 x 10 (mm)										
		99484701	12	0.09	5500	1.1	5.8	0.11	25.0	15.3	Sleeve	
		99484751	12	0.09	6600	1.1	6.5	0.15	27.0	15.3	Ball	
		25 x 25 x 10 (mm)										
		99484801	12	0.10	10000	1.1	1.5	0.10	23.0	7	Sleeve	

Other Information	To Order, Specify:
For dimensions and air flow performance see page 154. All DC fans are supplied with Lead wires only.	99484002 Standard, normally stocked products
	99484003 Products produced to order @ minimum quantities may apply

Brushless DC Axial Fans - Dimensions and Performance

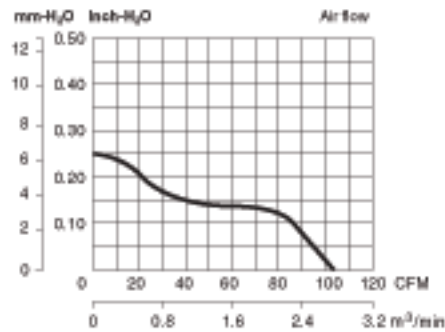
Dimensions

Ø 120 x 38
120 x 25



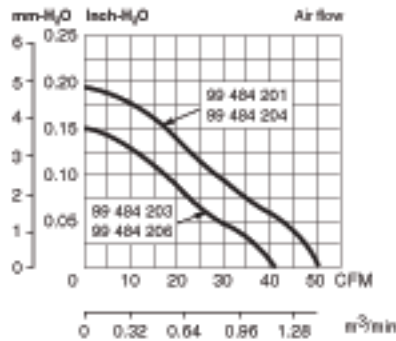
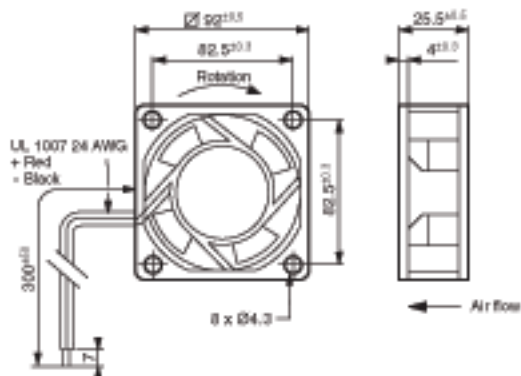
Air performance

99 484 002 - 99 484 006



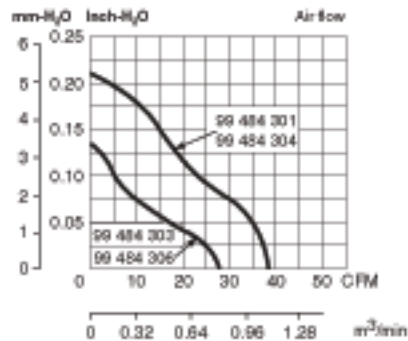
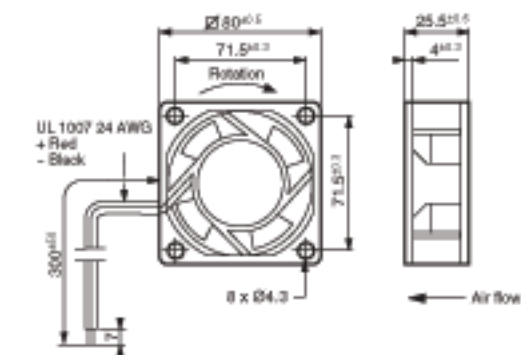
Ø 92 x 25

99 484 201 / 204 - 99 484 203 / 206



Ø 80 x 25

99 484 301 / 304 - 99 484 303 / 306



Ø 60 x 25

99 484 401 - 99 484 403

