

CFQ  
Series



## Centrifugal In-Line Cabinet Fan Backward Curved CIL





# CIL Cabinet Fan

## Introduction

**CFQ SERIES** is specially design for residential and commercial application, it produces high air volume at high static with low operating noise.

Suitable for:

<b>Condominium</b>	<b>Office</b>	<b>Restaurant</b>
Kitchen	Meeting room	Dining room
Toilet	Toilet	Kitchen

## Range

CFQ225, CFQ280, CFQ315, CFQ400, CFQ500

## Features

- In-Line application
- Suitable for installation with duct
- Easy installation
- Equipped with external rotor motor
- Compact in size

## Specification

### Casing

- Material : GI Sheet Metal
- Optional items:
  - 1) Powder coating
  - 2) Internal insulation with open cell NBR for sound attenuation





### Impeller

- Material : Aluminium
- Type : Backward curve centrifugal

### Motor

- High efficiency external rotor motor
- Permanently lubricated ball bearing ensuring reliable and maintenance free operation
- Built-in thermal protective device
- Insulation: Class F
- IP 54

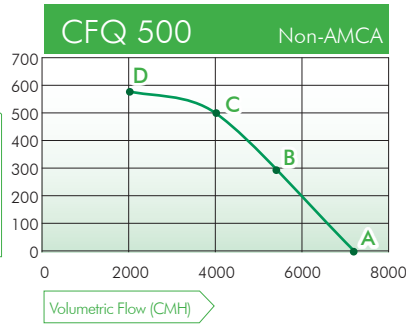
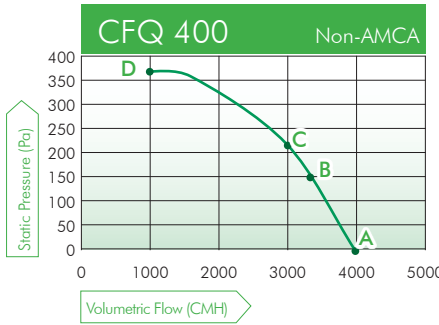
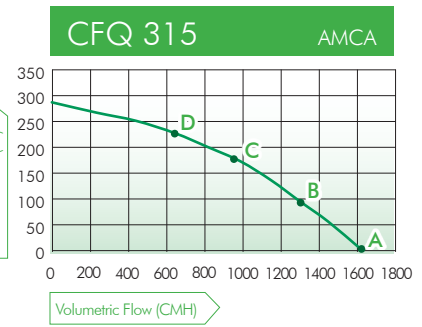
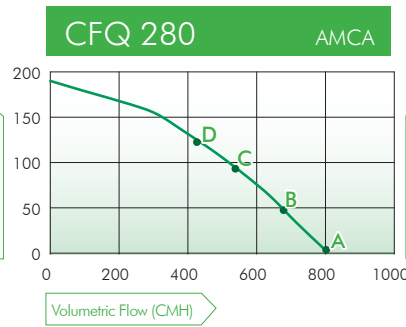
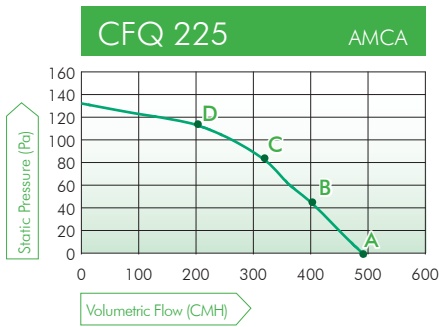


Accessories (Optional)	
Inlet Grille  - GR06 (For 6" Duct) - GR08 (For 8" Duct)	Inlet Grille  - GAQ 04 (For 4" Duct) - GAQ 06 (For 6" Duct) (c/w Saranet Filter)
Inlet Grille  - GRS06 (For 6" Duct) - GRS08 (For 8" Duct)	Outlet Grille  - GA4CG (For 4" Duct) - GA6CG (For 6" Duct)

## Conversion Table

### Air Flow

L/s	m <sup>3</sup> /hr	m <sup>3</sup> /s	CFM
1	3.6	0.001	2.119
0.278	1	0.278x10 <sup>-3</sup>	0.588
1000	3600	1	2119
0.063	0.227	0.063x10 <sup>-3</sup>	0.1337
0.472	1.7	0.472x10 <sup>-3</sup>	1



Zhongshan SAIVER WELAIRE Air-Cond. Equip. Co., Ltd. certifies that models: CFQ225, CFQ280, CFQ315 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Models CFQ400, CFQ500 are not licensed by AMCA International.

\* The sound power level of A, B, C and D, please refer technical data below.

## Air Change Required per Hour

Home	Kitchen	15	Ordinary Building	Office	6
	Bathroom and toilet	10		Waiting room	10
	Living room	6		Conference room	12
	Ballroom	8	School	Exhibition Hall	10
	Dining room	8		Chemical Laboratory	6
	Kitchen	15		Auditorium	6
	Corridor	5		Gymnasium	8
	Toilet	10		Library	6
Industrial Plant	General Working Area	6	Theatre	Classroom	6
	Painting Area	20		Auditorium	6
	Generator Room	20		Corridor	6
Restaurant	Dining room	6	Smoking Room	12	
	Kitchen	20	Projection Room	20	
	Banquet Hall	10			

## Conversion Table Static Pressure

psi	kg/cm <sup>2</sup>	W.G.		Pascal (Pa)
		(in.)	(ft.)	
1	0.07	27.7	2.309	0.69x10 <sup>4</sup>
14.22	1	394.08	32.84	9.81x10 <sup>4</sup>
3.61x10 <sup>-2</sup>	2.538x10 <sup>-3</sup>	1	0.083	248.84
1.45x10 <sup>-4</sup>	0.1x10 <sup>-4</sup>	0.004	3.349x10 <sup>-4</sup>	1

## Technical Data

Model	CFQ 225	CFQ 280	CFQ 315	CFQ 400	CFQ 500
Volt / Phase / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Max Motor Input (W)	52	94.6	150	560	1550
Air Flow (CMH)	497	810	1631	4000	7200
Static Pressure (Pa)	134	189	287	360	580
Amps (A)	0.23	0.46	0.68	2.46	6.8
RPM	1430	1410	1370	1350	1250
Sound Power dB(A)	Point A	67	73	75	77
	Point B	65	65	71	72
	Point C	65	63	69	70
	Point D	65	63	69	69
Sound Pressure dB(A) at 3m	Point A	47	46	52	54
	Point B	44	44	50	52
	Point C	44	42	48	49
	Point D	45	42	49	48

\* Speed (RPM) shown is nominal. Performance is based on actual speed of test.

\* Sound Pressure-dB(A) at 3m levels are not licensed by AMCA international.

\* Performance certified is for installation type D-Ducted inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories).

\* Ratings include the effects of duct end correction

\* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwIA Sound power levels for installation type D ducted inlet, ducted outlet.

\* Models of CFQ 400 and CFQ 500 are not licensed to bear the AMCA certified ratings seal for sound performance.



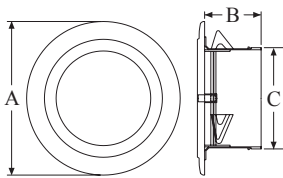


## Dimension (mm)

	MODEL	A	B	C	WEIGHT
	CFQ 225	365	365	300	6.7
	CFQ 280	440	440	300	9.4
	CFQ 315	490	490	360	11.0
	CFQ 400	610	610	440	26.0
	CFQ 500	750	750	520	42.5

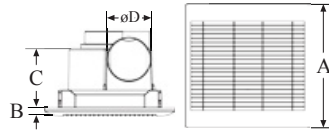
## Accessories

### Inlet Grille



MODEL	GAR06	GAR08
A	210	250
B	84	67
C	145	195

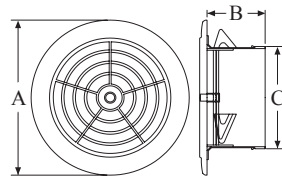
### Inlet Grille



MODEL	GAQ04	GAQ06
A	290	345
B	20	26
C	168	192
D	100	147

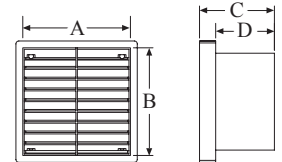
Ceiling Opening 245x230 310x295

### Inlet Grille



MODEL	GRS06	GRS08
A	210	250
B	84	67
C	145	195

### Outlet Grille



MODEL	GA4CG	GA6CG
A	110	202
B	110	202
C	76.5	66
D	60	26

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