

# Centrifugal Fume Handling Units (CFF)



## Features and Benefits

- Manufactured from UV stabilised polypropylene.
- Motor mounted outside the airstream.
- Internal mounting (IP55)
- Suitable for extracting aggressive corrosive air
- Quality Assurance to BS EN ISO 9001.
- Performance tested to BS 848 Part 1.

## Ventilation

Range of anti-corrosive polypropylene direct-drive single inlet centrifugal fans

### Application

The CFF range of fans are suitable for many special applications where the extraction of a corrosive atmosphere is required. Such applications include the extraction of the following:

- Industrial chemical fumes
- Petrochemical fumes
- Laboratories

### Casing

The casing and inlet connection flange are moulded from tough polypropylene plastic. All models are provided with a robust sheet metal mounting frame to support the motor and facilitate installation.

### Impellers

All models incorporate radial centrifugal impellers manufactured from tough polypropylene.

### Motors

All models incorporate asynchronous induction motors with squirrel cage rotor in die cast aluminium. Manufactured in accordance with IEC 34-1 standard.

The following standard specifications apply:

- ! Single Phase 230V 50Hz
- ! Three phase 400V 50Hz.
- ! IP55 protection, with Class F insulation.

## Mounting Arrangements

All models are also provided with a robust sheet metal mounting frame to support the motor and facilitate installation. Easily Rotatable discharge outlet standard on 160-250 models.

### Ancillaries

Flexible connectors  
PVC matched pairs with welded seams for intake and discharge.  
Worm Drive Clips  
Starters and Overloads

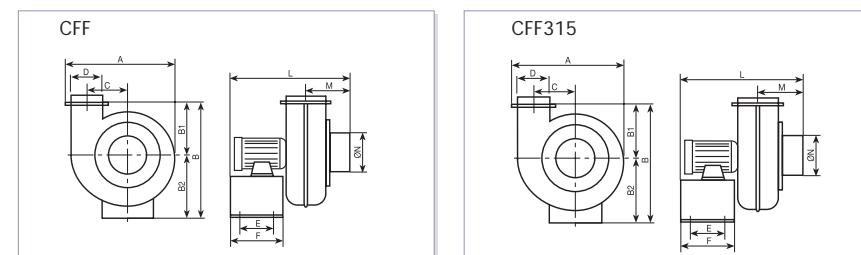
### Special Version

Depending upon requirements the CFF range of fans can be supplied with the following:

Casings manufactured from PVC, for the extraction of air/gas containing chromium

## Performance Guide

### Dimensions



Type	m <sup>3</sup> /s at Pa										
	A	B	B1	B2	C	E	F	L	M	N	Ø D
160	425	450	200	250	135	120	150	440	160	160	160
200	590	570	260	310	250	170	220	530	200	200	200
250	790	760	340	420	290	200	260	660	240	250	250
315	920	840	380	460	340	300	365	700	250	315	–

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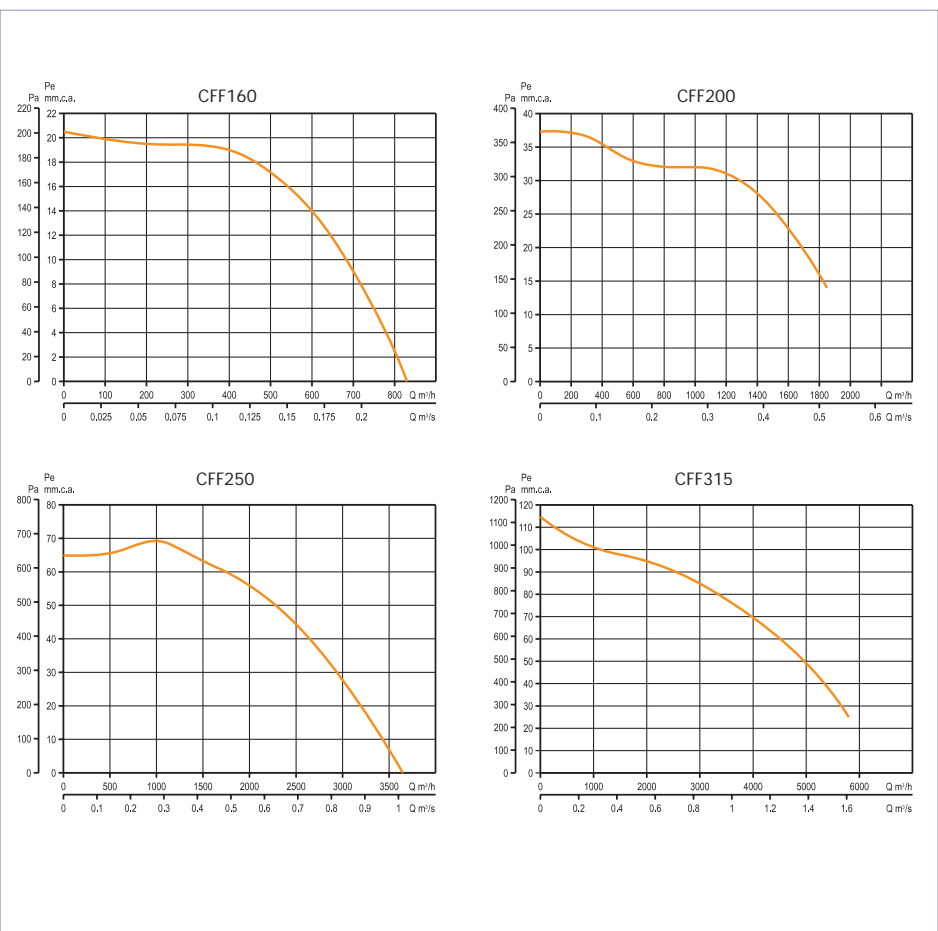
## Sound Data

Model	Inlet Sound Power (Free discharge)									Total sound pressure
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total LwA	
CFF160	34.0	42.4	51.1	58.5	65.3	62.1	57.6	51.7	68.2	54.0
CFF200	47.2	52.6	58.9	65.5	78.3	74.1	71.2	66.2	80.6	66.0
CFF250	52.9	57.7	70.1	76.3	80.0	74.5	69.2	62.3	82.8	69.0
CFF315	61.8	70.3	87.1	83.6	86.8	79.8	74.5	68.4	91.3	77.0

## Performance Curves

Model	r.p.m.	m <sup>3</sup> /s at Pa																
		0	50	100	150	200	250	300	350	400	500	600	800	900	950	1000	1050	1100
CFF160	1360	0.231	0.210	0.190	0.160	0.025	-	-	-	-	-	-	-	-	-	-	-	-
CFF200	1370	-	-	-	0.504	0.470	0.420	0.360	0.120	-	-	-	-	-	-	-	-	-
CFF250	1420	1.013	0.980	0.950	0.920	0.890	0.855	0.820	0.775	0.730	0.630	0.480	-	-	-	-	-	
CFF315	1430	-	-	-	-	-	1.611	1.570	1.525	1.480	1.380	1.250	0.930	0.710	0.550	0.310	0.180	0.100

## Performance



## Accessories



Part No	Unit weight (Kg)	Motor	Motor KW	S.C. Amps	F.L.C. Amps	D.O.L. Starter † Part No	Overload Part No	Flexible Connection Part No (pair)	Worm Drive Clips Part No	Set of Av's Part No
Three Phase Unit										
CFF16034	10.8	3 phase	0.25	2.10	0.60	10311415A	10312015A	431681	561707	AVM220
CFF20034	17.6	3 phase	0.37	3.68	1.05	10311415A	10312015A	431683	561710	AVM220
CFF25034	35.2	3 phase	1.5	17.50	3.50	10311415A	10312050A	431685	561710	AVM220
CFF31534	59.8	3 phase	2.2	24.50	4.90	10311415A	10312075A	431688	561715	AVM220
Single Phase Unit										
CFF16014	10.8	1 phase	0.25	6.15	2.50	10311240A	10312033A	431681	561707	AVM220
CFF20014	17.6	1 phase	0.37	7.92	3.40	10311240A	10312050A	431683	561710	AVM220
CFF25014	35.2	1 phase	1.5	21.04	8.00	10311240A	10312100A	431685	561710	AVM220

N.B.

Three Phase units are suitable for frequency inverter speed control

Single Phase units are not suitable for speed control

Motor must have overload protection and should also have single phasing prevention.