

## Roof Mounted Kitchen Fans

### Roof Mounted Kitchen Exhaust Fans



**Manufacturer: CFM Fans**

**Model: MV Series**

The MV series of Kitchen Exhaust Fans are roof mounted axial fans specifically designed to extract grease laden air from kitchens and cooking areas. The motors are partially shielded from the airflow and the fully weatherproof galvanised steel ventilated housings come with a grease trap connection. All units are supplied with a circular base for direct connection to circular ducting. The Axial Impellers are sourced from 'Multi-wing' or on occasion from 'Titan' and units range in diameter from 305mm to 660mm with various blade designs and materials to ensure the best impeller for the required application. Most commonly used are aerofoil adjustable pitch impellers from PPG or Aluminium fitted to high quality single or three phase squirrel cage motors. They are capable of handling airflows up to 7000 l/sec and static pressures up to 270Pa.

#### Performance Summary:

*Performance summary tables should be used as a broad indication of the actual fan capabilities. Please refer to the individual fan curves for specific performance and noise data, available in the CFM Fan Selector Program [Download Fan Selector]*

#### MV - Blade Angle at max 40°

Size	RPM	Airflow	Pressure	Motor			SPL (Avg)
		l/sec (max)	Pa (max)	Phase	kW	Amps	dB(A) @3m
305	1400	950	150	1	0.18	0.83	51
	1400	950	150	3	0.37	2.1	51
381	1400	1900	160	1	0.37	2.4	54
	1400	1900	160	3	0.37	1.2	54
457	1400	3400	160	1	0.75	4.5	59
	1400	3400	160	3	0.75	2.1	59
559	1400	4300	220	3	2.2	4.6	64
	960	2800	100	3	0.75	2.23	56
	720	2100	60	3	0.55	2	51
660	1400	7000	270	3	2.2	4.6	70
	960	4600	120	3	0.75	2.23	60
	720	3500	70	3	0.55	2	56

Specifications:

- Performance tests carried out in accordance with BS848 Part 1 (1980) and AS 2936 - 1987
- Noise level tests carried out in accordance with BS848 Part 2 (1985) and shown as average dB(A) values
- Fully weatherproof Galvanised Steel Housing with grease trap connection
- Easy to install or remove
- Suitable for high temperature kitchen exhaust systems
- Motors available in single or three phase, 2 speed and / or speed controllable
- Smoke Spill units are available and comply with AS4429 [Specials]
- Fans for hazardous environments are available with ExE, ExD, ExN motors etc. [Specials]
- Optional extras include: Powder Coating, Anti-vibration Mounts, Grease Trap

## Roof Mounted Kitchen Exhaust Fans



**Manufacturer: CFM Fans**

**Model: MCV-GT Series**

The MCV-GT series of Kitchen Exhaust Fans are roof mounted centrifugal fans specifically designed to extract grease laden air from kitchens and cooking areas and collect this grease in an integral reservoir, thus simplifying the cleaning and maintenance of the unit. The units are ideal for fast food restaurants and busy kitchens. The fully weatherproof galvanised steel housings can easily be tilted outward to expose the impeller and facilitate easy access for cleaning. CFM Fans source their impellers from reputable manufacturers such as Ziehl-Abegg, EBM Papst and others. Available in three sizes from 450mm diameter to 560mm diameter and in either three phase or single phase models. They are capable of handling airflows up to 3100 l/sec and static pressures up to 700Pa.

**Performance Summary:**

*Performance summary tables should be used as a broad indication of the actual fan capabilities. Please refer to the individual fan curves for specific performance and noise data, available in the CFM Fan Selector Program [Download Fan Selector]*

**MCV-GT**

Size	RPM	Airflow	Pressure	Motor	SPL (Avg)
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		l/sec (max)	Pa (max)	Phase	kW	Amps	dB(A) @3m
450G	1400	1480	450	1	0.73	3.3	48
	1400	1560	540	3	0.74	1.46	48
	960	1000	250	3	0.39	0.75	37
500G	1400	2100	590	1	1.3	5.7	53
	1400	2200	600	3	1.35	2.6	53
	960	1900	420	3	0.83	1.4	46
560G	1400	3100	700	3	2.16	4.1	50
	960	2050	270	3	1.35	2.3	45

**Specification:**

- Performance tests carried out in accordance with BS848 Part 1 (1980)
- Noise level tests carried out in accordance with BS848 Part 2 (1985)
- Fully weatherproof Galvanised Steel Housing
- Sealed for life ball bearing motors
- Motors available in single or three phase, 2 speed and / or speed controllable
- Powder-coated as an optional extra if required
- All metal construction is available on request to satisfy AS/NZS1668.1:1998 for Kitchen Exhaust Fan Casings and Cowls
- Suitable for high temperature kitchen exhaust systems

**Roof Mounted Kitchen Exhaust Fans**



**Manufacturer: Systemair Sweden**

**Model: DVN Series**

The Systemair DVN Range of kitchen exhaust roof fans are equipped with high efficient IE2 motors. The casing and impeller with backward-curved blades is manufactured from seawater resistant aluminum. The base frame is manufactured from hot dipped galvanized steel sheet and the integrated protection guard consists of powder-coated galvanized steel. Speed control is only possible by using a frequency converter. Motor protection is done by cold conductors (PTC), which have to be connected to an external motor protection device. The motor is suspended on effective vibration dampers outside of the airstream allowing a maximum temperature of transported air up to 120°C. The DVNI version has 50 mm mineral wool insulation for lower sound level. In addition, the IE2 motors generate less noise and

develop less heat, which has a positive influence on the efficiency and the cooling requirement of the motor.

#### Performance Summary:

Performance summary tables should be used as a broad indication of the actual fan capabilities. Please refer to the individual fan curves for specific performance and noise data, available on the Systemair Website

Product code	voltage	Air flow m <sup>3</sup> /s @ static pressure Pa							Motor Data		dBA @ 4m
		0	50	100	200	300	400	500	FLC	Kw	
DVN355E4	230-1-50	0.85	0.81	0.76	0.65	0.51			1.50	0.37	49
DVN355DV	400-3-50	0.85	0.79	0.73	0.60	0.42			0.95	0.37	50
DVN400E4	230-1-50	1.00	0.97	0.91	0.78	0.69	0.28		2.00	0.37	52
DVN400DV	400-3-50	1.10	1.07	0.99	0.84	0.76	0.51		1.40	0.37	52
DVN450DV	400-3-50	1.55	1.50	1.44	1.33	1.19	1.00	0.68	2.50	0.75	54
DVN500DV	400-3-50	2.17	2.05	1.99	1.85	1.70	1.51	1.25	4.30	1.50	57
DVN560DS	400-3-50	1.39	1.33	1.27	0.94				2.35	0.55	47
DVN560DV	400-3-50	3.00	2.90	2.80	2.64	2.45	2.24	2.00	5.80	2.20	65
DVN560DS	400-3-50	2.08	1.99	1.87	1.62	1.26	0.69		2.10	0.75	50
DVN630D4	400-3-50	4.14	4.10	4.00	3.80	3.70	3.50	3.30	9.20	4.00	67
DVN630DS	400-3-50	2.56	2.50	2.40	2.16	1.85	1.30		4.80	1.50	54
DVN710D6	400-3-50	3.90	3.80	3.70	3.40	3.10	2.70	2.30	5.70	2.20	59

#### Specification:

- High efficient motor IE2
- Speed-controllable via frequency converter
- Integral cold conductor (PTC)
- Standard motor outside the air stream
- Max temperature of transported air up to 120°C
- Suitable for coastal applications

- Vertical exhaust
- Low sound level
- Easy to maintain and reliable