





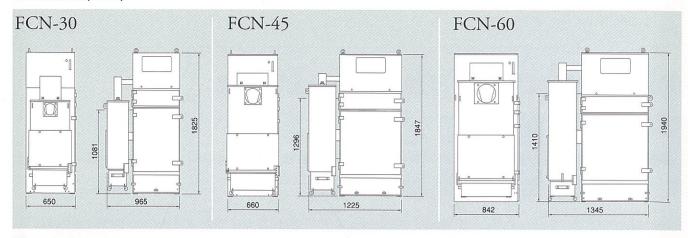
Hosoe Facility in JAPAN

FCN SERIES

COUNTERMEASURES AGAINST FIRE FIRE PREVENTION FUME COLLECTOR



Dimensions (in mm)



■Specifications

Model .		FCN-30			FCN-45			FCN-60		
Power (Volts, H	ertz)				200	volt 3-phase	50/60Hz			
Output (kW)		1.5			2.2			3.7		
Dust collector unit	Air capacity(m³/min)	0	10	15	0	20	30	0	30	45
	Static pressure (kPa)	2.55	2.25	1.20	2.55	2.35	1.29	2.84	2.32	0.73
Fan unit	Air capacity(m³/min)	10	20	25	15	30	40	20	40	55
	Static pressure (kPa)	2.77	2.68	2.48	2.78	2.65	2.36	3.39	3.12	2.49
Noise (db[A])		70 ± 2 or below			70 ± 2 or below			73 ± 2 or below		
Filter	Area (m²)	27.0			40.5			60.8		
	Quantity (pcs.)	4			6			9		
	Shape	Formed cartridge (length 750mm 132 ridge type)								
	Material	Polyester span bond								
	Dust drop	Auto pulse jet method								
Pilot valves (quantity)		2			3			3		
Compressed air consumption (N liters/min)		20			30			40		
Spark sensor		Option								
Smoke sensor		Option								
Heat absorber roller drive motor		2.2W×2								
Bucket capacity (liters)	Bottom of separator box	16			30			44		
	Bottom of dust collector	21			12×2			20×2		
Power cord (me	ters)				3 me	eters (4 core,	no plug)			
Suction inlet diameter (mm)		φ150			φ200			φ250		
Size: W×D×H (mm)		965×650×1825			1225×660×1847			1345×842×1940		
Weight (kg)		250			340			430		
Paint color		JPMA J11-833								

^{*} Noise value is a reference figure. It does not include noise when pulse jet is operating.

** Lists performance figures for standard specifications. Performance may differ on units with custom specifications.

This unit does not completely eliminate the intrusion of sparks. Please consult with our branch office or dealer for installing and selecting the hood shape, height and piping.

Inflammable powder from non-oxidized fumes such as generated by carbon-dioxide welding might be suctioned in and generate sparks causing combustion.



FOR SAFE OPERATION

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- Do not suction the following materials:
- Flammable materials... gasoline, thinner, benzene, kerosene, paint,
- Explosive materials... aluminum, magnesium, titanium, zinc, epoxies, etc.
- · Adhesive materials... Water-Soluble Mist, oil mist, etc.
- Other... water, oil, liquid chemicals, cigarette stubs, ashes, etc.
- Do not operate the machine in areas exposed to mist, fumes or gases that are inflammable, explosive or corrosive.
- •Be sure to ground the machine to protect against electric shock.
- If there is a danger of suctioning sparks, consult with our branch or sales office to select the appropriate model.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.

Specifications and descriptions contained in this catalog may be subject to change without notice.

Please direct any questions to:

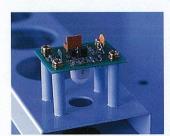
🔼 AMANO Corporation 🖿

275 MAMEDO-CHO, KOHOKUKU, YOKOHAMA, JAPAN TEL(045)401-1441 FAX(045)439-1150

CAT-920800 K8706Y10-2002.6

FIRE PREVENTION FUME COLLECTOR

NOW MORE STRONGER PROTECTION AGAINST DUST COLLECTOR FIRES! NOW CARRIED WITH VARIOUS KINDS OF FIRE-PREVENTION FUNCTIONS!



SPARK & SMOKE SENSOR (option)

Sparks sucked into the collector are detected by an infrared sensor. Fire breaking out inside the dust collector is detected by a smoke sensor. The safe design which always checks operation.



CIRCLE FLOW SEPARATOR

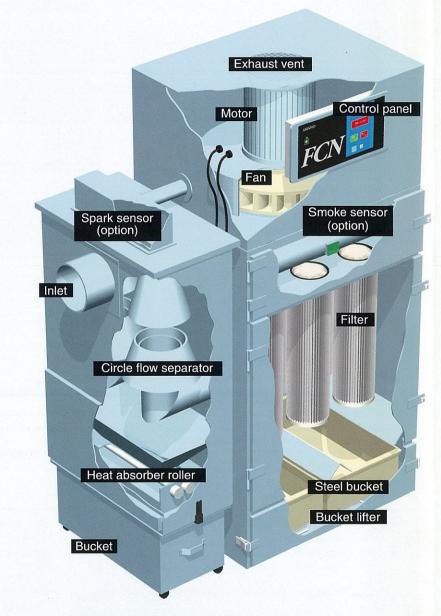
Primary separation and heat absorption of dust suctioned into the circle flow separator prevents fires from starting. This process separates out more than 70 percent of dust. Lightening the load on the dust filter in this way, gives the filters a longer service life.





HEAT ABSORBER ROLLER

Sparks and inflammable dust separated by the circle flow separator are prevented from combusting by the energy absorption and the effect of the heat absorber roller, and inflammable dust are prevented entering the bucket. The energy absorption and dispersion effect of the metal roller work in preventing fires.

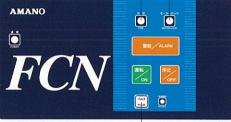




Dust separated out by the circle flow separator collects in the bottom bucket, and dust after filterating collects in the bottom bucket of the dust collector. Dust can be removed just by releasing the locking clip and taking out the bucket.

COMPACT DESIGN WHICH UNITIED. A ROTARY FLOW SEPARATOR

Motor lock lamp (heat absorber roller discharge error) Fire lamp -(Lights up when sparks are detected) (Flashes when fire is detected)



Filter cleaning switch —

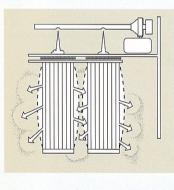
CONTROL PANEL

Panel is designed for good visibility. Warning lamp lights up when sparks or hight temperature dust enter the system. Warning lamp flashes to report that smoke (fire) occurred. Dust collector automatically comes to a stop when a problem occurs. (When installed with spark/smoke sensor.

※ Spark/smoke sensor is optional.

FILTER & CLEANING

The reliable pulse jet system is used for shaking dust off the filter. The internal jet-amp operates to remove dust. Completely filter is easily replaced without having to use



OPTIONS

• Fine-fill filter

Installs inside rotary flow separator. Spark sensor (for detecting intrusion of sparks or thermal powder)

 Smoke sensor Installs inside dust collector (for detecting fire)

PART NO. MODEL FCN-30 FCN-45 FCN-60

High efficiency dust trapping type filter

FCQ-762072 FCR-762072 FCS-762072 Spark sensor Smoke sensor FCQ-767072 FCR-767072 FCR-767072 Fine-fill filter PGA-322270 PGA-322270 PGA-322270 Standard filter PGA-322170 PGA-322170 PGA-322170

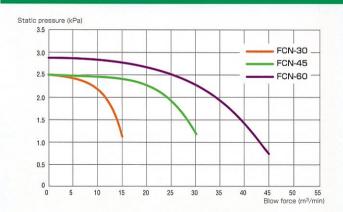


-45 (with option)

APPLICATIONS

- Plants running 24 hours a day & automated factories
- Requiring a high degree of safety
- Workplaces with fumes from laser machining
- Workplaces with fumes from plasma machining
- Workplaces with fumes and sparks in the air from welding and cutting metal

PERFORMANCE CURVE





See our dealer for more details