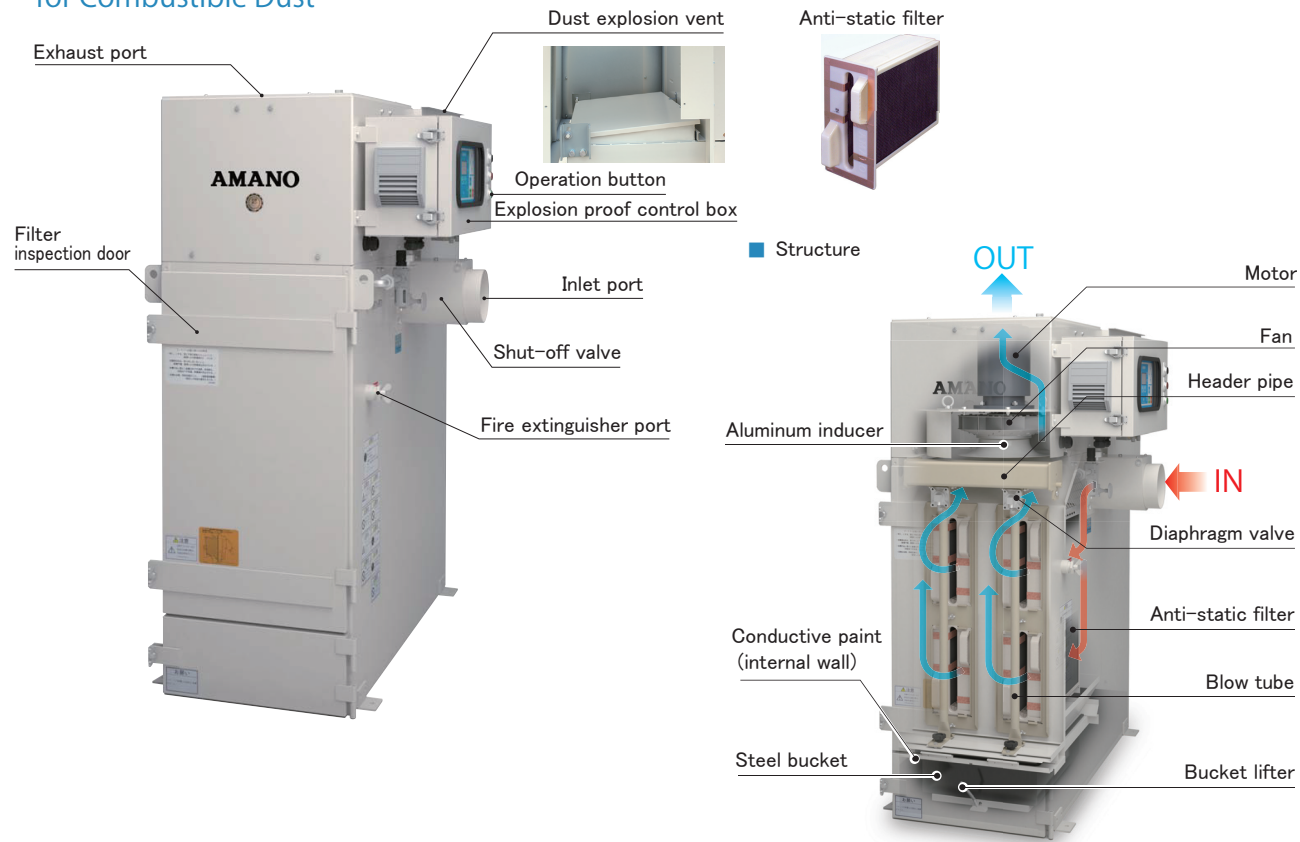


Specifications

for Combustible Dust



Kst value and Pmax

PiF-SD/D Series	30D	45D	60D	30SD	45SD	75D	120D	150D
Kst [$\times 10^2 \text{kPa} \cdot \text{m/s}$]			Max 400				Max 300	
Pmax [$\times 10^2 \text{kPa}$]			Max 11.5				Max 11	
Filter length[mm]			500				750	
Flameless vent			Option				Not available	
Rapture disk			Option				Not available	
Installation			Indoor				Outdoor	

Kst: The deflagration index of a dust. It indicates a approximate explosive power.

Pmax: The maximum measured pressure of the deflagration.

For Your Safety

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Dust explosion pressure diffusion type dust collectors collect flammable dust (with dust explosiveness). Flammable substances, flammable gases and mixtures of flammable dust and gases can not be collected.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.
- Please evaluate a dust explosion risk every time the collecting combustible dusts are changed and ensure the dust-collecting capability before using the machine.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear.
- Please consult with Amano branch office and sales office about dust explosion risk assessment.
- Do not suction the following materials:
 - Flammable dust with the characteristics of high explosibility such as magnesium, etc.
 - Flammable materials and gas: gasoline, thinner, benzene, kerosene, paint, ethylene, etc.
 - Sparks: sparks, or dust that contains sparks
 - Fire remains: cigarette butts, ashes, etc.
 - Others: water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- The dust-explosion pressure diffusion type dust collector shall be installed outside in order to reduce risks of explosion pressure diffusion. Indoor installation increases a risk of dust explosion pressure diffusion.
- To set it up indoors, be sure take a protective measure against powder explosion (including protection wall installation, elimination of elements which hamper the diffusion of explosion pressure, etc.). Along with the measure, change it to a fire extinguishing specification to alleviate the hazard induced by explosion pressure diffusion.
- Install the dust explosion pressure diffusion type dust collector in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This machine is not an explosion-proof type. Do not install the machine at hazardous area specified by laws.
- Please comply with any regulations stipulated by laws and ordinances for installation of dust collector.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to ground the machine to avoid electric shock.
- Ensure that the pipe work is straight not to allow powder to accumulate, with appropriate diameter and shortest length according to powder collection condition.
- Keep the operation ambient temperature between 0 to 40 °C (32 to 104 °F).
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- Dust pack should not be used for antistatic purpose.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual.
- Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- In the event of dust explosion, please contact us for inspection.

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

AMANO Corporation

275 MAMEDO-CHO, KOHOKU-KU, YOKOHAMA,
JAPAN 222-8558
TEL.+81-45-439-1508 FAX.+81-45-439-1150
Website: <http://www.amano.co.jp/English/>

Please direct any questions to:



Pulse Jet Type
Dust Explosion Proof Dust Collector

PiF-SD/D SERIES



Reduce dust explosion risks



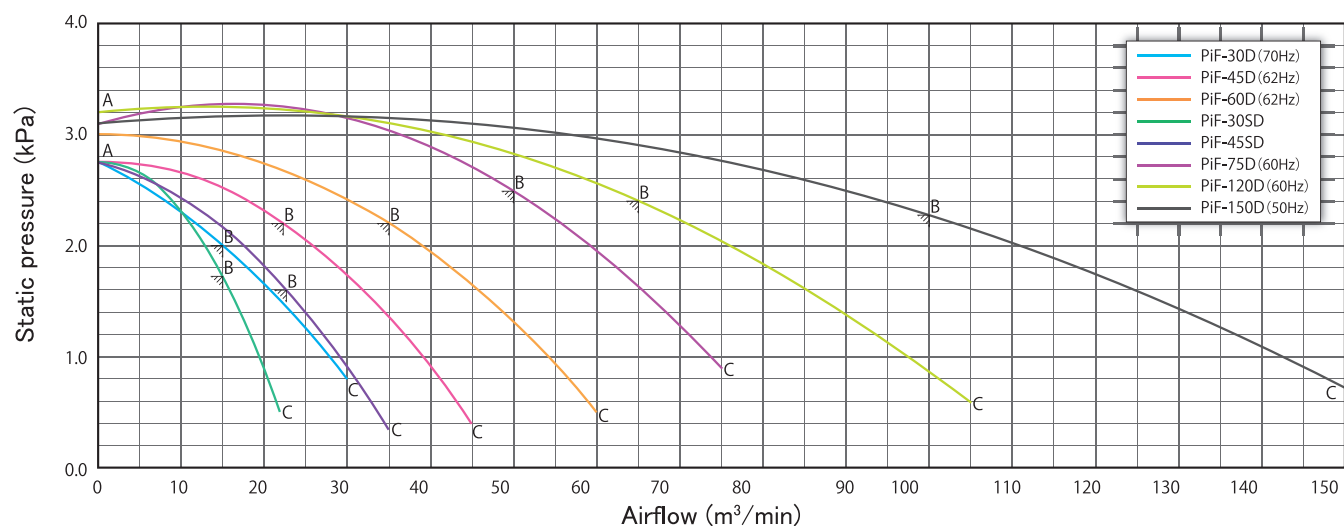
※Kst value: explosive index. Maximum pressure rise rate. It indicates the intensity of explosion.

Specifications

Model	PiF-30D			PiF-45D			PiF-60D			PiF-30SD			PiF-60D						
Power Supply	50Hz 60Hz, Three-Phase 200V									50Hz or 60Hz, Three-Phase 200V									
Motor	Output(kW)	1.35			2.0			3.1			1.5			2.2					
	Inverter	Standard equipment									—								
	Frequency adjustable range[Hz]	30 ~ 60						30 ~ 50						—					
	Type	IE3(2P)/Vertical flange mounted TEFC motor									IE2(2P)/Explosion-preventive standard dust-proof vertical flange motor								
Air Capacity	(m ³ /min)	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
	(cfm)	0	15	30	0	22.5	45	0	35	60	0	15	22	0	22.5	35			
Static Pressure(kPa)	2.75	2.00	0.80	2.75	2.20	0.40	3.00	2.20	0.50	2.75	1.72	0.49	2.75	1.62	0.35				
Noise (dB[A])	76±2 or less									70±2 or less			76±2 or less						
Filter	Surface area (m ²)/(ft ²)	12.0/129.1			18.0/193.6			24.0/258.2			12.0/129.1			18.0/193.6					
	Unit (pcs)	4			6			8			4			6					
	Shape	Molded cartridge																	
	Material	Anti-electrostatic filter with grounding connector (Polyester spunbond)																	
	Dust removal	Auto pulse jet (Differential pressure detection)																	
Bucket capacity(L)	27			38			27 × 2			27			38						
Ambient Temperature (°C)/(°F)	0 ~ 40 / 32 ~ 104																		
Permissible intake air temperature (°C)/(°F)	0 ~ 40 / 32 ~ 104																		
Power cord (m)	5 (4-core without plug)																		
Suction port diameter (mm)/(in)	φ 150/6			φ 200/8			φ 250/10			φ 150/6			φ 200/8						
Dimensions	WxDxH(mm)	607 × 1243 × 1569			788 × 1228 × 1600			991 × 1209 × 1774			556 × 1245 × 2247			681 × 1237 × 2392					
	WxDxH(in)	26.5 × 48.9 × 61.7			30.9 × 48.3 × 62.9			39.0 × 47.5 × 69.8			21.8 × 49.0 × 88.4			26.8 × 48.7 × 94.1					
Weight (kg)/(lbs.)	290/640			340/750			465/1026			375/827			435/959						
Paint Color	JPMA S11-344																		

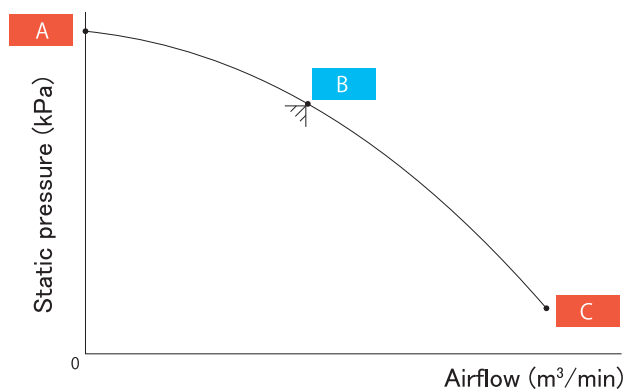
Model	PiF-75D			PiF-120D			PiF-150D						
Power Supply	50Hz 60Hz, Three-Phase 200V												
Motor	Output(kW)	5.5			7.5			11.0					
	Inverter	Standard equipment											
	Frequency adjustable range[Hz]	30 ~ 60						30 ~ 50					
	Type	IE3(2P)/Vertical flange mounted TEFC motor											
Air Capacity	(m ³ /min)	A	B	C	A	B	C	A	B	C			
	(cfm)	0	50	75	0	65	105	0	100	150			
Static Pressure(kPa)	3.10	2.50	0.90	3.20	2.41	0.59	3.10	2.27	0.72				
Noise (dB[A])	76±2 or less												
Filter	Surface area (m ²)/(ft ²)	38.4/409			57.6/620			86.4/930					
	Unit (pcs)	8			12			18					
	Shape	Molded cartridge											
	Material	Anti-electrostatic filter with grounding connector (Polyester spunbond)											
	Dust removal	Auto pulse jet (Differential pressure detection)											
Bucket capacity(L)	22.5 × 2			22.5 × 3			22.5 × 3						
Ambient Temperature (°C)/(°F)	0 ~ 40 / 32 ~ 104												
Permissible intake air temperature (°C)/(°F)	0 ~ 40 / 32 ~ 104												
Power cord (m)	5 (4-core without plug)												
Suction port diameter (mm)/(in)	φ 290/11.4						φ 380/15						
Dimensions	WxDxH(mm)	950 × 1519 × 2292			1398 × 1650 × 2389			1484 × 2009 × 3055					
	WxDxH(in)	37.4 × 59.8 × 90.2			55 × 65 × 94.1			58.4 × 79.1 × 120					
Weight (kg)/(lbs.)	520/1146			710/838			1020/2249						
Paint Color	JPMA S11-344												

Performance Curve



- ※Listed figures apply to standard unit, and those may change depending on custom requirements.
- ※Use conductive pipes / ducts. Bring it with the main body of dust collector into conduction with each other reliably.
- ※This machine is indoor installation specification.
- ※The noise value stated in the specification sheet is the actual measurement value set by our company regulations. It does not guarantee the noise value of all usage conditions. The functional sound of the pulse jet is excluded.

Performance Curve Description



- A: Max Pressure (No airflow)
- B: Rated airflow and pressure
- C: Max Air flow

It is recommended to keep the dust collector at rated airflow and pressure in regular operation. Too much airflow/pressure may cause filter and motor failures.