



Pulse Jet Type
Dust Explosion Pressure Diffusion Type Dust Collector

*PiE-SDN/DN*SERIES

Reduce dust explosion risks

Filter cleaning available while operation

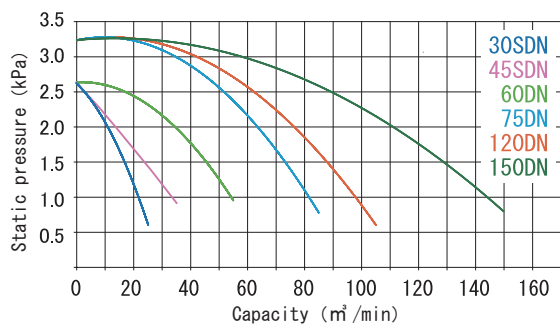


Specifications

Model	PiE-30SDN			PiE-45SDN			PiE-60DN			PiE-75DN			PiE-120DN			PiE-150DN				
Power supply	3-phase 50Hz/60Hz separate use																			
Motor	Output(kW)	1.5			2.2			3.7			5.5			7.5			5.5 × 2			
	Type	Dust-explosion-proof, Dustproof Type									TEFC Motor									
Dust collector	Capacity	(m^3/min)	0	15	25	0	20	35	0	35	55	0	50	85	0	65	105	0	100	150
		(cf/min)	0	530	883	0	705	1236	0	1236	1942	0	1765	3002	0	2295	3708	0	3531	5297
	Static pressure (kPa)	2.72	1.71	0.60	2.72	1.71	0.90	2.73	2.03	0.92	3.19	2.53	0.76	3.23	2.41	0.59	3.19	2.27	0.72	
Noise (dB[A])	76±2 or less																			
Filter	Area(m^2)/(sf)	9 / 97			13.5 / 145			18 / 193			27 / 291			36 / 388			54 / 581			
	Quantity	4			6			8			12			16			24			
	Type	Molded cartridge																		
	Material	Polyester spunbond filter																		
	Dust off	Automatic Pulsejet (Differential Pressure Detection)																		
Bucket capacity (L)	22			35			25 × 2			BL type : 70 × 1 BS type : 30 × 2			BL type : 60 × 1 BS type : 37 × 2			BL type : 70 × 2 BS type : -				
	5m / 15ft (3PNCT·4 core·without plug)																			
Power cord (m)	-																			
Sensor functions	Static pressure display (filter and duct damage by pressure) rotation direction, total operation hours, error message																			
Inlet duct (mm)/(in)	ϕ 150 / ϕ 5.9"			ϕ 200 / ϕ 7.87"			ϕ 250 / ϕ 9.84"			ϕ 290 / ϕ 11.42"			ϕ 290 / ϕ 11.42"			ϕ 380 / ϕ 14.96"				
Weight (kg)/(lbs)	370 / 814			540 / 1188			460 / 1012			BL type : 670 / 1477 BS type : 620 / 1367			BL type : 950 / 2094 BS type : 890 / 1962			BL type : 1410 / 3109 -				
	W × D × H	(in)	38.9 × 56.6 × 72.8			53 × 58.6 × 75			63 × 52 × 81			BL type : 96.42 × 52.13 × 103 BS type : 96.42 × 52.13 × 90.43			BL type : 97.52 × 61.38 × 128.9 BS type : 97.52 × 61.38 × 113			BL type : 108.9 × 76.42 × 154 -		
(mm)		998 × 1438 × 1850			1345 × 1488 × 1907			1596 × 1319 × 2055			BL type : 2449 × 1324 × 2615 BS type : 2449 × 1324 × 2297			BL type : 2477 × 1559 × 3275 BS type : 2477 × 1559 × 2871			BL type : 2765 × 1941 × 3684 -			
Coating color	JPMA S11-344																			

- PCBs comply with PiE-M type. (Pulse jet with differential pressure detection type)
- The capability indicates the inlet capability with check valve.

Performance curve



Kst value and Pmax

We confirm the Kst value of the pneumatic powder and decide right model.

Model	Kst value or less ($\times 10^2 \text{kPa} \cdot \text{m/s}$)	Pmax or less ($\times 10^2 \text{kPa}$)
PiE-30SDN	700	11.5
PiE-45SDN		
PiE-60DN	300	11.0
PiE-75DN		
PiE-120DN		
PiE-150DN		

For Your Safety

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.
- The collecting dust of our dust-explosion pressure diffusion type dust collector shall be the combustible dust of which we are ensured of dust-collecting capability by the evaluation of its dust explosion hazardous characteristics.
- Do not suction the following materials:
 - Flammable dust with the characteristics of high explosibility such as magnesium powder
 - Flammable materials... gasoline, thinner, benzene, kerosene, paint, etc.
 - Fire remains... cigarette stubs, ashes, etc.
 - Other... water, oil, liquid chemicals, etc.
- 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 our branch office and sales office about dust explosion risk assessment.
- 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.
- The dust-explosion pressure diffusion type dust collector shall be installed outside in order to reduce risks of explosion pressure diffusion. An installation inside a building increases a risk of dust explosion pressure diffusion.
- Install the dust-explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This product is not an explosion-proof type. Do not install the machine at hazardous areas specified by laws.
- Do not operate the machine in areas exposed to mist, fumes or gases that are inflammable, explosive or corrosive.
- Please comply with regulations stipulated by laws and/or ordinances that are applicable to product installation.
- 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.
- Be sure to ground the machine to protect against electric shock.
- The ambient temperature range is from 0°C to 40°C.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- A dust pack cannot be used in order to prevent static charge.
- 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.

Please direct any questions to:

Digital data only

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