



Hosoe Facility in JAPAN

Dust Explosion Pressure Diffusion Type Dust Collector

VNA-SDN/DN SERIES

Reduce dust explosion risks

Manual Shaking filter cleaning type

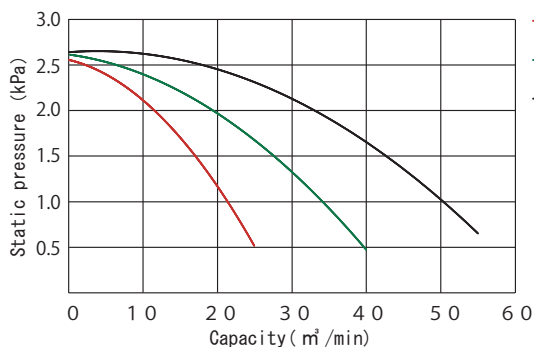


Specifications

Model	VNA-30SDN			VNA-45SDN			VNA-60DN				
Power supply	3-phase 50 or 60Hz separate use										
Motor	Output (kW)	1.5			2.2			3.7			
	Type	Dust explosion proof and dust proof type						TEFC Motor			
Dust Collector	Capacity	(m ³ /min)	0	15	25	0	20	40	0	30	55
		(cf/min)	0	530	883	0	706	1412	0	1060	1942
	Static pressure(kPa)	2.55	1.7	0.52	2.63	1.98	0.48	2.64	2.13	0.65	
Blower Unit	Capacity	(m ³ /min)	0	15	28	0	20	42	0	40	60
		(cf/min)	0	530	989	0	706	1483	0	1412	2120
	Static pressure (kPa)	2.74	2.45	1.56	2.74	2.45	1.67	2.94	2.90	2.05	
Noise (dB[A])	76±2 or less										
Filter	Area (m ²)/(sf)	9 / 96.9			13.5 / 145			18 / 194			
	Quantity	2			3			4			
	Type & Material	Plate Type / Tetron Felt , Aluminun sheet with ground wires									
	Dust off	Manual Handle Operation									
Bucket Capacity (L)	22			35			25 × 2				
Power Cord (mm)/(ft)	5 / 16 (3PNCT 4 core, no plug)										
Inlet Size (mm)/(in)	φ 150 / φ 5.9"			φ 200 / φ 7.87"							
W × D × H	(in)	40" × 49" × 69"			53.3" × 52.3" × 71.7"			61" × 55" × 81"			
	(mm)	1020 × 1253 × 1754			1355 × 1328 × 1821			1546 × 1396 × 2055			
Weight (kg)/(lbs)	340 / 748			400 / 880			450 / 990				
Coating color	JPMA S11-344										

※Listed figures apply to standard specification only. Those figures may change depending on custom requirements.

Performance diffuence curve



Kst value and Pmax

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

Model	Kst value or less (× 10 ² kPa·m/s)	Pmax or less (× 10 ² kPa)
VNA-30SDN	700	11.5
VNA-45SDN	700	11.5
VNA-60DN	300	11.0

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
 - Sparks, sparks, or dust that contains sparks
 - 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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