SNP Series – Space saving large-scale dust collector

The new space-saving type pulse jet duct collectors are more compactly designed, yet still maintain the necessary filtration area, making more effective use of limited factory space. A newly developed plate filter allows duct collector size 1/2 smaller than an ordinary dust collector.

Plate filter

Pulse jet

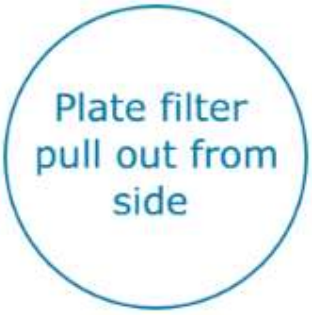
General Dry Dust

Max Filter area

Features:

New Space Saving Pulse Jet Type Medium Pressure Large air volume Dust Collector

- Reduce installation space to 1/2.
- It is a unit structure that can secure the filter area even the installation area is minimum.
- It is very compactly designed
- Maintain necessary filter area
- Newly developed plate filters are lightweight and easy to handle.
- New pulse jet system is designed to separate the dust from the filter units uniformly.
- The modular structure makes diverse combinations possible.

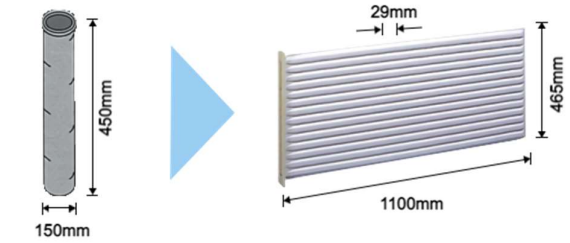


Mold cartridge plate filter

Material: Polyester
Surface treatment: –
Corresponding models: SNP
Application: General dried particles (particle diameter about 10μm)

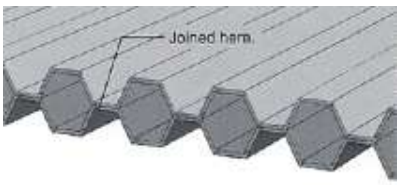
Features

- For dust having a particle diameter of about 10μm.
- Collecting efficiency: Good, Particle diameter about 10μm
- Heat resistant temperature (F): Normal temperature 40˚C (104˚)
- Dust removal: Pulse jet
- maintaining the necessary filtration area, the volumetric ratio of this new filter compared with the existing filter 2/3



General filter Newly developed plate filter

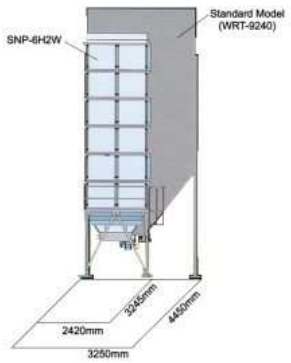
Dozens of cylindrical filtration



Cross-sectional view of the filter media

- This plate filter is comprised of dozens of cylindrical filtration units molded into an integrated plate-shaped structure.
- With this new plate filter, a cage (retainer) is no longer necessary, since sufficient rigidity is provided by the filter itself, thus realizing lightweight and replacement ease.

Occupies only 1/2 of the space ordinary models

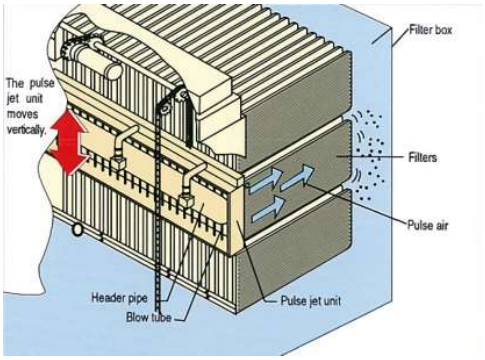


- Occupies only 1/2 of the space ordinary models. Extraordinary space-saving benefits.
  Thanks to the employment of a newly developed plate filter and modified pulse jet mechanism, we successfully developed these SNP-Serie dust collectors requiring only half the space of existing models enabling more effective use of limited factory space to be achieved.

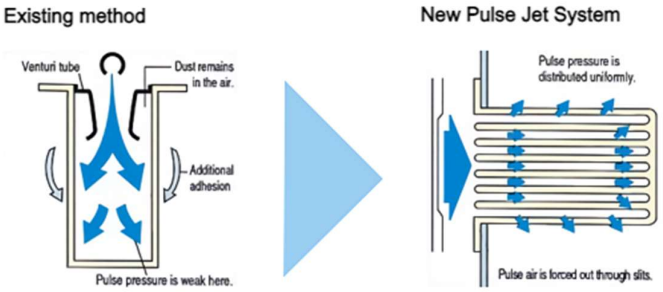
Model	W(mm)	L(mm)	H(mm)	Space Occupancy(m2)	Volume (m3)	Filtration area(m2)
WRT-9240	3250	4450	10470	14.5	151.5	504
SNP-6H2W	2420	3255	9582	8.3	80.2	540
				53%	49%	

*Comparison WRT when convened, the filter area of 500m2

New Pulse Jet System

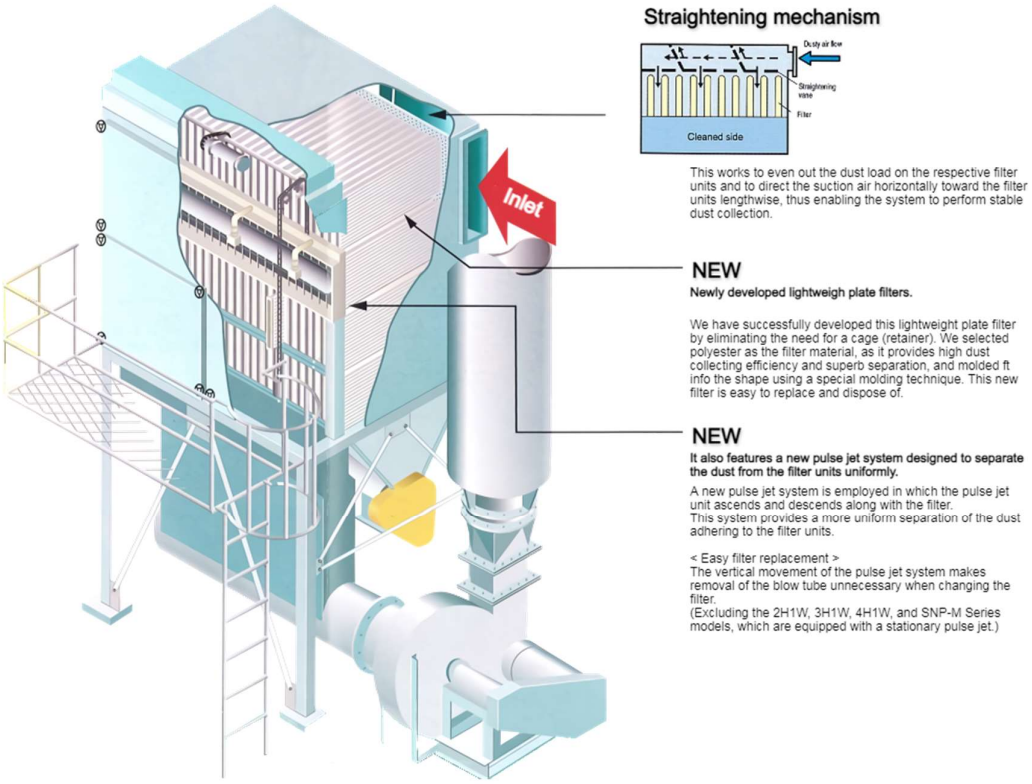


- By forcing the pulse air through slits, the contact area with surrounding air increases, resulting in a greater volume of surrounding air being forced into the filter units.
- Thanks to the enhanced rigidity of the filter material and to reduce the chance of deformation, effective dust separation by means of counter-flowing air is also achieved.

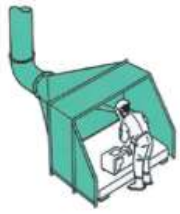


- With the existing system, is not possible to distribute pulse pressure uniformly inside the filter.
- Dust unavoidably remains in the air in the sections neighbouring the venturi tubes

Internal view

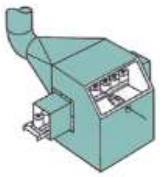


Application

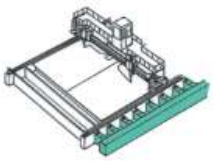


Arc welding

Crushing machine



Thermal spraying work

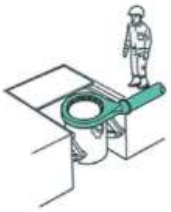


Fusion machine

Sanding /crushing work

Loading raw materials work

Belt conveyor

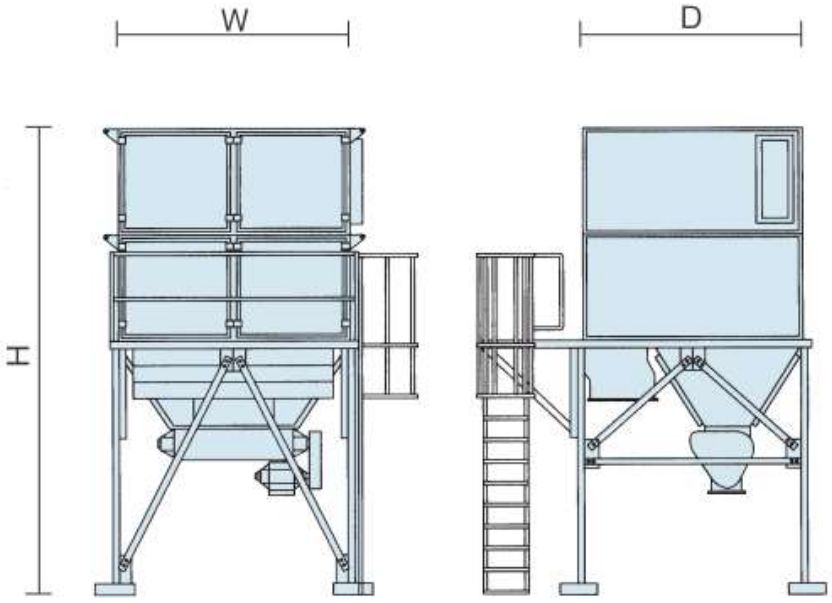


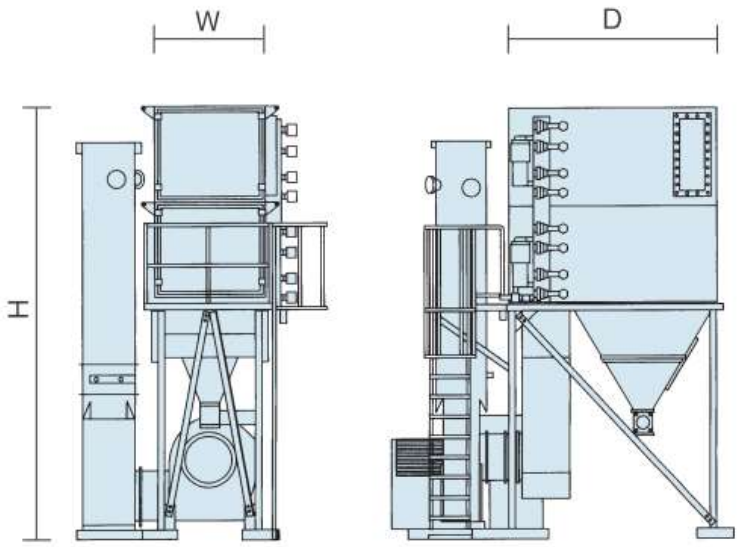
Melting Furnaces

External view

SNP Series

Model description
Basic unit is expressed by 1HIW. A total of 34 filters are installed inside and provide a total surface area of 45 square meters. Assembling these units horizontally and vertically gives the model type shown at right. Model types combinable as standard
configurations in this catalogue are listed.





Sample Installation

SPECIFICATIONS

Model	Dimension	(Unit:mm)		Filter Area	No of Filter	Weight
	W	D	H	m2	pcs	kg
NP-2H1W	1150	2182	4708	90	68	1550
SNP-3H1W	1150	2182	5808	135	102	2100
SNP-4H1W	1150	2182	6908	180	136	2500
SNP-2H2W	2300	2182	5031	180	136	3100
SNP-3H2W	2300	2182	6131	270	204	4200
SNP-4H2W	2300	2182	7231	360	272	5100
SNP-5H2W	2300	2344	8331	450	340	6300
SNP-6H2W						