



bomaksan[®]
INDUSTRIAL AIR FILTRATION SYSTEMS



PLTF SERIES
JET-PULSE PLEATED
BAG HOUSE FILTER UNIT



GENERAL FEATURES



ECONOMICAL

PLTF Jet-Pulse Pleated Bag House Dust Collectors are much economical than traditional Bag House Filters. The main reason is **Pleated Bag Filter Units requires much less space than Regular Bag Filters.**



FLEXIBLE

PLTF Jet-Pulse Pleated Bag House Dust Collectors can be customised depending on your facility requirements. Bomaksan engineers provide solutions to all kind of limitations.



DURABLE AND LEAK-PROOF

Side and upper doors of cabin, makeup profile, chassis and carrying legs are produced with sufficient plate thickness and leak-proof is ensured by press injection unifying with a nut.



AUTOMATED CLEANING SYSTEM

Thanks to its' high yielded automatic cleaning system designed by Bomaksan engineers as part of an R&D project of TUBITAK, while the consumption of compressed air is decreasing, the life and performance of filter increase.



ADVANCED FILTRATION

PLTF Jet-Pulse Pleated Bag House Dust Collectors provides supreme filtration efficiency when it is compared with traditional bag filters.



EASY MAINTENANCE

Bomaksan branded PLTF Jet-Pulse Pleated Bag Houses decreases your time and labor expenses up to 50% due to its well-engineered pleated bag filters which contains nozzle and cages inside.

APPLICATIONS



Cement



Pharmaceutical



Food & Beverage



Chemical



Foundry



Powder Coating

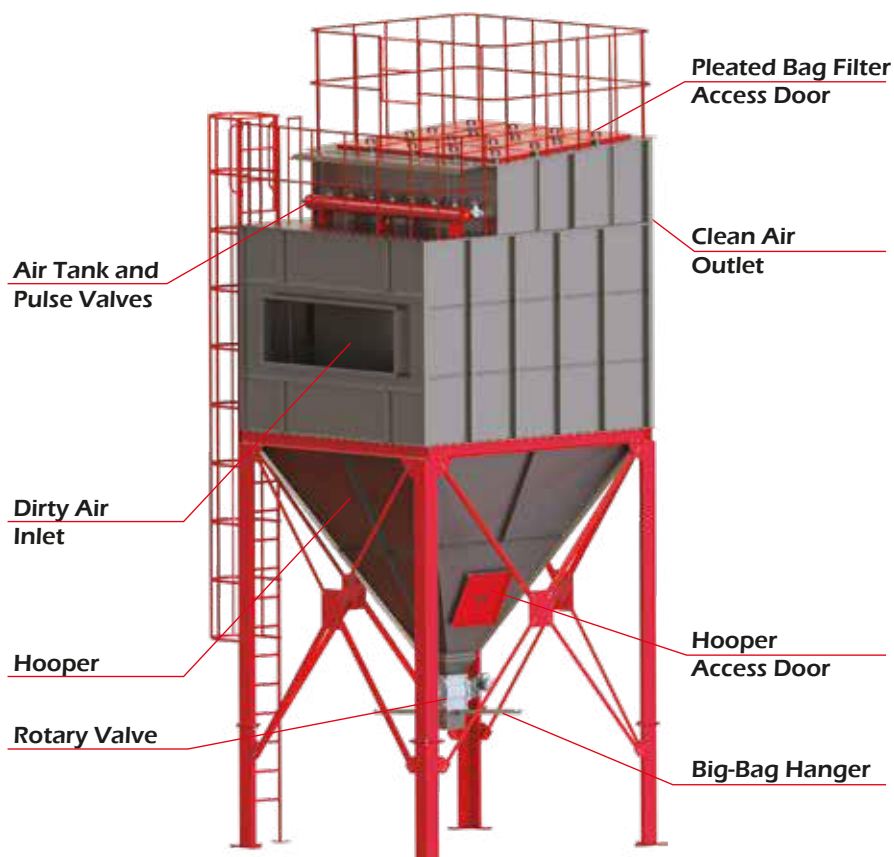


Metal Working

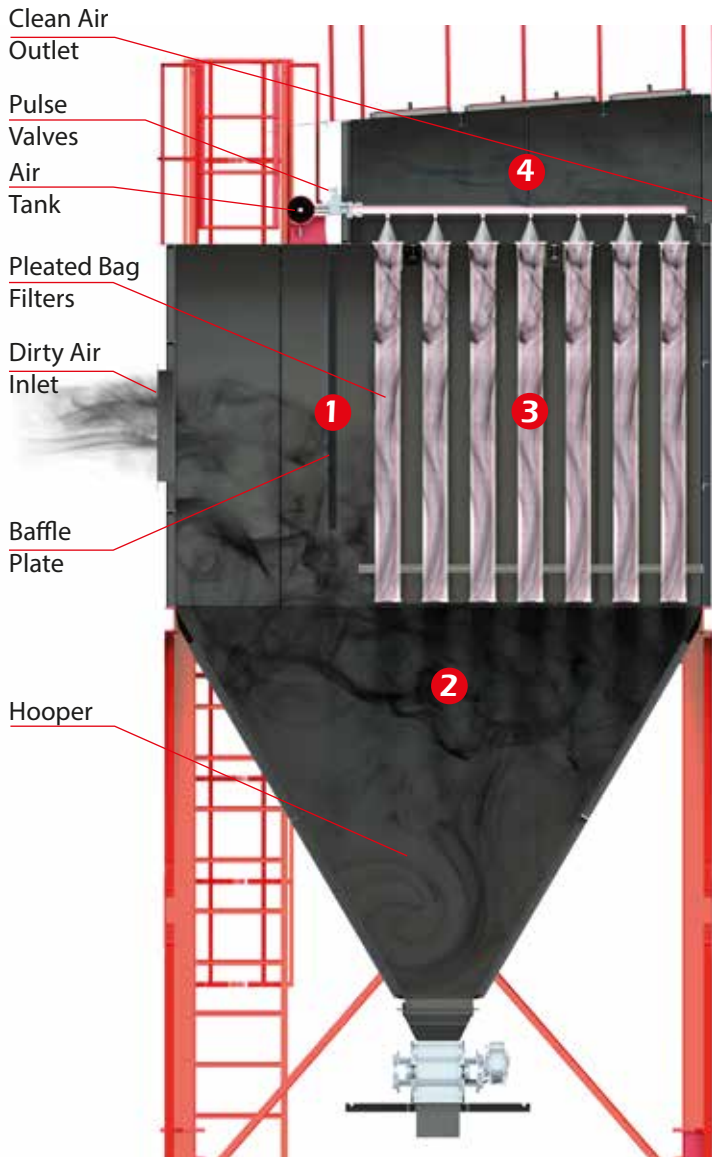


Ceramic/Glass

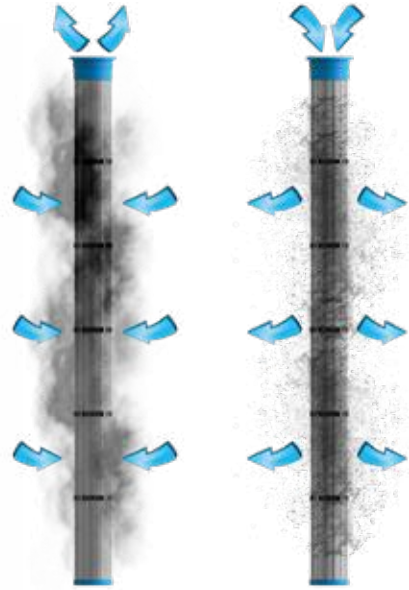
HIGHLIGHTS



HOW IT WORKS?

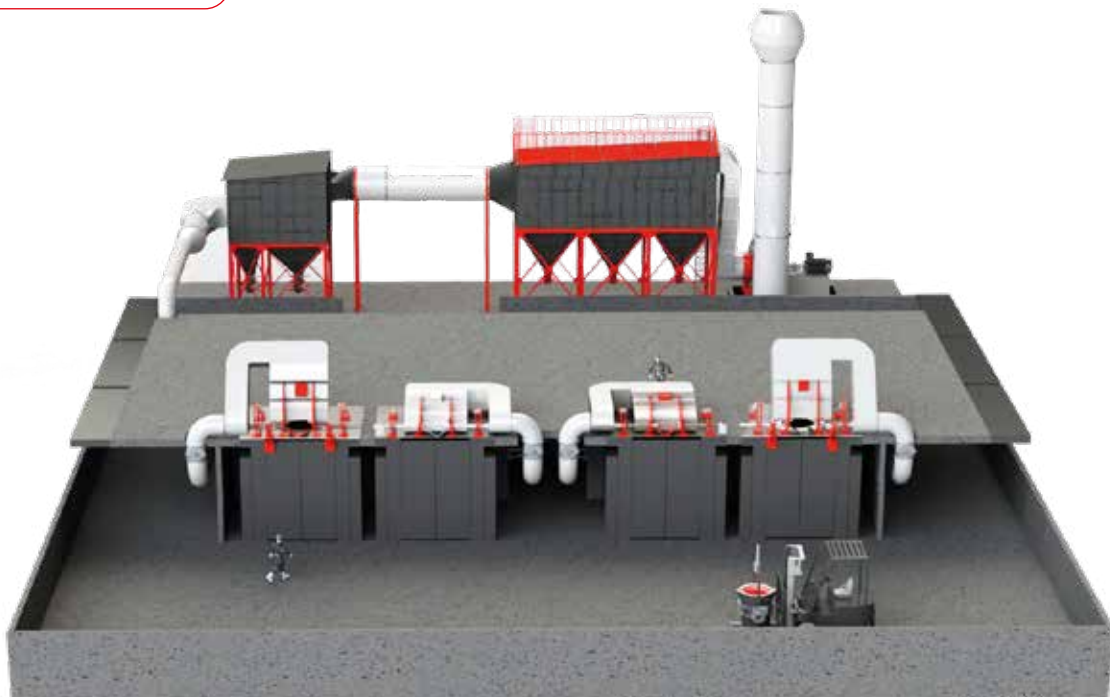


FILTER CLEANING PRINCIPLE







- 1** Heavy particles carried by dirty air (such as spark, big and abrasive particles and so on) are directed to bunker via baffle plate.
- 2** Light particles in dirty air rise in filter cabin and are hold by pleated bag filters.
- 3** Pleated bag filters are cleaned by pulse valves with compressed air, after differential pressure sensitive pulse valve controller detects the pollution level of filters.
- 4** Clean air coming from cartridge filters is released to indoor or atmosphere.

SAMPLE INSTALLATION



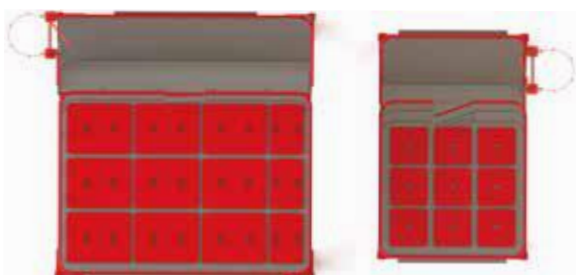
Advantages of Pleated Bag Houses

-  Requires much less space
-  Consumes less compressed air and energy
-  Higher filter life time
-  Makes maintenance much easier



Requires Less Space

- Requires much less space with the same filtration area comparing to conventional bag house filters.
- Best choice for company who need more spaces for production

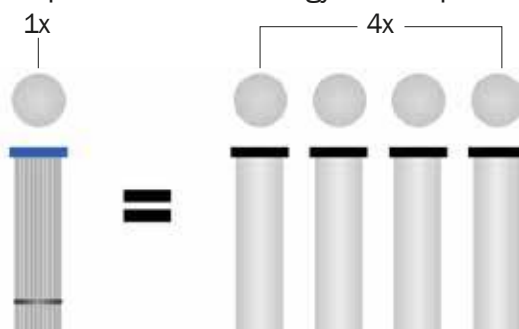


Higher Life Time

- Because of advanced surface filtration technology, their filter life is much higher comparing needle felt bag filters.
- Less replacement and maintenance requirement allows you to stop less and produce more.

Consumes Less Energy

- Pleated Bag filters have the same filtration area of 4 conventional bag filters(at same height). This advancement provide less compressed air and energy consumptions.



Faster Maintenance

- Pleated bag filters can be replaced 6 times faster comparing the conventional bag filters due to the fact that the number of pleated bag filter per bag house is much less than bag filters and they have a special design which allows you to remove and install them faster.

	CONVENTIONAL BAG FILTERS	PLEATED BAG FILTERS
Filter Height	Max. 8 m	Max. 2 m
Filtration Area	Small	2-3 Times Higher
Filter Life Time	Acceptable	Perfect
Installing / Maintenance Cost	High	Low
Leak / Abrasion	Can Occur	Leak-Proof
Emmision Level	High	Low
Power Consumption	High	Low
Comp. Air Requirement	5-6 L / m2	3-4 L / filter
Air Permeability	Acceptable	Perfect
Pressure Drop	High	Low
Initial Bag House Investment	High	Low

STANDARD ACCESORIES

● RADIAL FAN

Targeted to satisfy requested flow and pressure, centrifuge type, conforming the standards and with its' direct drive engine its' produced to work quite and vibration free. Fan engines are made by steel as standard and balanced dynamically and statically on specialized plants.



● PULSE-VALVE & AIR TANK

Pulse Valves are made by aluminum cast and 1½" sized. They perform with 24V DC standard voltage. Air tank is produced conforming to compressed container technique and adequate to store the air between two valves.



● FAN CONTROLLER PANEL

The panel containing thermal switch controlling ventilator engine, contactor, engine protection relay and working/warning lights.



● PLEATED BAG FILTERS

High efficient pleated bag filters are produced by 100% non-woven polyester and can have surface treatments depending on the application.



● PULSE-VALVE CONTROLLER

It analyzes differential pressure occurs due to pollution of filters digitally and controls pulse valves. Covered with IP 65 class, made by ABS, water- and dust-proof case.



● ROTARY VALVE

In case of high dust load, Rotary Valves removes the dust from the hooper continuously. It is made from casted body, has outboard bearings, motor and reductor group.



OPTIONAL ACCESORIES

● BIG-BAG HANG

Dust coming from rotary valve needed to be stored in a storage. Big Bags are one of the most commonly used storage type. Big Bag hangs are the equipmant which holds big bags steady. Big Bag hangs are dessigned to hold big bags in the most effective way.



● FREQUENCY INVERTER

It is a high-efficiency, frequency inverter for manipulating by increasing or decreasing the frequency of the radial fan.



● SILENCER

In order to prevent air noise from the fan, backstage type is produced in suitable capacities. It can be manufactured specially.



EX-PROOF ACCESORIES

The accessories suggested to be used in environments containing particles with risk of explosion.

● EXPLOSION VENT

ATEX certificated explosion door is used, which is produced by stainless steel.



● PILOT BOX & EX-PROOF COILS

It is the box that keeps the explosion coils out of explosive and dangerous environments. It also protects electrical equipment from harsh environments.



● EX-PROOF FAN & MOTOR

ATEX certificated ex-proof engine and ventilator are used, which are suitable for different capacity requirements.



PLEATED BAG FILTER



According to DIN EN 60335-2-69 standards, it has a filtration efficiency up to 99,9%.



Higher filtration area with the same volume



Extended use without losing filtration efficiency.

In Bomaksan branded PLTF Jet-pulse Pleated Bag House Units, highly efficient 100% non-woven polyester pleated bag filters are used. With its' superior pleating technique it's guaranteed the pleating sizes have been equal and better filter cleaning is ensured

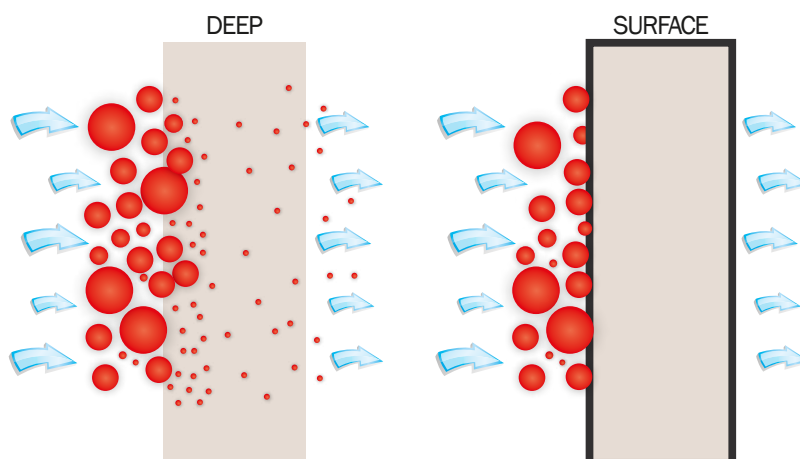
Bomaksan engineers offer the most suitable filter material for all execution and dust types. Some filter materials considering factors such as density of dust, humidity proportion, if the dust has a potential to be loaded statically and so on are as follows;

- polyMIGHT 55: %100 spunbond non-woven polyester
- polyMIGHT HO 55: polyMIGHT 55 + oleo & hydrophobic impregnation
- polyMIGHT ALU: polyMIGHT 55 + AL coating (Antistatic)
- polyMIGHT PTFE 65: polyMIGHT 55 + thermal bonded ePTFE membrane
- polyMIGHT ALU PTFE: polyMIGHT ALU + thermal bonded ePTFE membrane



On the contrary to traditional filters, filters made by non-woven polyester performs the filtration not in the filter but on the surface. Therefore;

SURFACE FILTRATION



- The penetration of dust inside the filter is prevented and filter life is extended
- Less differential pressure is produced and required compressed air consumption for cleaning process is decreased
- Higher filtration efficiency is provided



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Authorized Reseller



Due to improvement on products, Bomaksan reserves the right to change or modify all information taking place in this brochure at any time without any prior notice

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