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 House 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**

![Diagram of PLTF Jet-Pulse Pleated Bag House Dust Collector](attachment://image.png)
Heavy particles carried by dirty air (such as spark, big and abrasive particles and so on) are directed to bunker via baffle plate.

Light particles in dirty air rise in filter cabin and are held by pleated bag filters.

Pleated bag filters are cleaned by pulse valves with compressed air, after differential pressure sensitive pulse valve controller detects the pollution level of filters.

Clean air coming from cartridge filters is released to indoor or atmosphere.
PLEATED BAG vs. BAG FILTER

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.

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.

Consumes Less Energy

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

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

- **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 1 1/2'' 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.

### Optional Accessories

- **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 equipment which holds big bags steady. Big Bag hangs are designed 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 Accessories

- **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

According to DIN EN 60335-2-69 standards, it has a filtration efficiency up to 99.9%.

Extended use without losing filtration efficiency.

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

- 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
### TECHNICAL DETAILS

#### DIMENSIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-16</th>
<th>PLTF-20</th>
<th>PLTF-24</th>
<th>PLTF-25</th>
<th>PLTF-30</th>
<th>PLTF-36</th>
<th>PLTF-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W) (mm)</td>
<td>2.300</td>
<td>2.780</td>
<td>2.780</td>
<td>2.900</td>
<td>3.395</td>
<td>3.400</td>
<td>3.220</td>
</tr>
<tr>
<td>Length (L) (mm)</td>
<td>2.315</td>
<td>2.270</td>
<td>2.745</td>
<td>2.785</td>
<td>2.665</td>
<td>2.865</td>
<td>3.185</td>
</tr>
<tr>
<td>Height (H) (mm)</td>
<td>7.110</td>
<td>7.110</td>
<td>7.125</td>
<td>7.125</td>
<td>7.460</td>
<td>7.545</td>
<td>7.220</td>
</tr>
<tr>
<td>1. Module Height (H1) (mm)</td>
<td>4.185</td>
<td>4.185</td>
<td>4.185</td>
<td>4.195</td>
<td>4.520</td>
<td>4.600</td>
<td>4.250</td>
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<tr>
<td>2. Module Height (H2) (mm)</td>
<td>5.630</td>
<td>5.630</td>
<td>5.650</td>
<td>5.630</td>
<td>5.960</td>
<td>6.040</td>
<td>5.730</td>
</tr>
</tbody>
</table>

#### FILTER Material

- polyMIGHT 65, polyMIGHT HD 55, polyMIGHT ALU, polyMIGHT PTFE 65, polyMIGHT ALU PTFE

#### FILTER Capacity (m³/h)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-49</th>
<th>PLTF-56</th>
<th>PLTF-63</th>
<th>PLTF-70</th>
<th>PLTF-77</th>
<th>PLTF-84</th>
<th>PLTF-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W) (mm)</td>
<td>3.450</td>
<td>3.360</td>
<td>3.360</td>
<td>3.900</td>
<td>3.900</td>
<td>3.900</td>
<td>3.900</td>
</tr>
<tr>
<td>Length (L) (mm)</td>
<td>3.310</td>
<td>3.680</td>
<td>3.680</td>
<td>3.900</td>
<td>4.500</td>
<td>4.750</td>
<td>5.025</td>
</tr>
<tr>
<td>Height (H) (mm)</td>
<td>8.495</td>
<td>9.075</td>
<td>9.075</td>
<td>8.005</td>
<td>8.295</td>
<td>8.295</td>
<td>8.295</td>
</tr>
<tr>
<td>1. Module Height (H1) (mm)</td>
<td>5.340</td>
<td>5.040</td>
<td>5.040</td>
<td>5.040</td>
<td>5.330</td>
<td>5.330</td>
<td>5.330</td>
</tr>
</tbody>
</table>

### Pleated Bag Filters (quantity)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-16</th>
<th>PLTF-20</th>
<th>PLTF-24</th>
<th>PLTF-25</th>
<th>PLTF-30</th>
<th>PLTF-36</th>
<th>PLTF-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyMight 65</td>
<td>16</td>
<td>20</td>
<td>24</td>
<td>25</td>
<td>30</td>
<td>36</td>
<td>42</td>
</tr>
</tbody>
</table>

### Total Filtration Area (m²)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-49</th>
<th>PLTF-56</th>
<th>PLTF-63</th>
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<th>PLTF-77</th>
<th>PLTF-84</th>
<th>PLTF-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyMight 65</td>
<td>min.220 - max.392</td>
<td>min.252 - max.448</td>
<td>min.283 - max.504</td>
<td>min.315 - max.560</td>
<td>min.346 - max.616</td>
<td>min.378 - max.672</td>
<td>min.409 - max.728</td>
</tr>
</tbody>
</table>

### Filter Material

- polyMIGHT 65, polyMIGHT HD 55, polyMIGHT ALU, polyMIGHT PTFE 65, polyMIGHT ALU PTFE

### Pulse Valve (type - quantity)

- 1 1/2" - 7
- 1 1/2" - 8
- 1 1/2" - 9
- 1 1/2" - 10
- 1 1/2" - 11
- 1 1/2" - 12

### Voltage Requirement

- 400V 50Hz

### Max. 5000

### Fan Capacity (m³/h)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-49</th>
<th>PLTF-56</th>
<th>PLTF-63</th>
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<th>PLTF-84</th>
<th>PLTF-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyMight 65</td>
<td>15.500 - 42.000</td>
<td>18.000 - 48.000</td>
<td>20.000 - 54.000</td>
<td>22.500 - 60.500</td>
<td>25.000 - 66.000</td>
<td>27.000 - 72.500</td>
<td>29.000 - 78.500</td>
</tr>
</tbody>
</table>

### Compressed Air Requirement (bar)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLTF-49</th>
<th>PLTF-56</th>
<th>PLTF-63</th>
<th>PLTF-70</th>
<th>PLTF-77</th>
<th>PLTF-84</th>
<th>PLTF-91</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolyMight 65</td>
<td>4.6</td>
<td>4.6</td>
<td>4.6</td>
<td>4.6</td>
<td>4.6</td>
<td>4.6</td>
<td>4.6</td>
</tr>
</tbody>
</table>

### Pulse Valve (type - quantity)

- 1 1/2" - 7
- 1 1/2" - 8
- 1 1/2" - 9
- 1 1/2" - 10
- 1 1/2" - 11
- 1 1/2" - 12

### Voltage Requirement

- 400V 50Hz

### Max. 5000
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.