**GENERAL FEATURES**

**MODULAR**
Bomaksan branded PKF Jet-Pulse Dust Collector has a modular structural design. Thus when you need to increase your filter capacity, you can directly add a new PKF device to your system without replacing the old one.

**FLEXIBILITY**
Bomaksan branded PKF Jet-Pulse Dust Collector may be re-designed by Bomaksan engineers by considering your factories settlement plan and provides the most suitable solution.

**DURABLE & 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 inflection unifying with a nut.

**AUTO CLEANING SYSTEM**
Thanks to it’s high efficient automatic cleaning system designed by Bomaksan engineers as part of an R&D project, while the consumption of compressed air is decreasing, the life and performance of filters increases.

**EASY INSTALLATION**
Thanks to it’s special design, Bomaksan branded PKF Jet-Pulse Dust Collector is shipped to your factory as ready to be setup and easily put to use.

**EASY MAINTENANCE**
Bomaksan branded PKF Jet-Pulse Dust Collector gives you the chance to change dust bin discharge and filter easily due to its ergonomic design.

**APPLICATIONS**
- Metal Working
- Foundry
- Sand Blasting
- Powder Coating
- Food
- Chemicals

**OVERVIEW**
- Cartridge Filter Access Door
- Air Tank and Pulse Valves
- Fan and Valve Control Panel
- Hooper
- Dust Bin
Heavy particles carried by dirty air (such as spark, big and abrasive particles and so on) are directed to bunker via flapper.

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

Cartridge 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.
## STANDARD ACCESSORIES

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

- **CARTRIDGE FILTER**
  Highly productive 100% non-woven polyester cartridge filters are used. You can find detailed information on cartridge filter section. Highly productive 100% non-woven polyester cartridge filters are used.

- **PULSE VALVE & AIR TANK**
  Pulse Valves are made by aluminium 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.

- **SEQUENCER (dP Control)**
  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.

- **DUST BIN**
  It helps to empty the collected dust from filter. It has a sealing gasket and can be disassembled and assembled easily. There are two different models with respect to volume.

- **FAN CONTROL PANEL**
  The panel containing thermal switch controlling ventilator engine, contactor, engine protection relay and working/warning lights.

## OPTIONAL ACCESSORIES

- **ROTARY VALVE**
  When the dust density of dirty air getting into the collector is high, rotary valve empties the dust continuously from the unit. It is made by cast block with an outer ball bearing, engine and reductor.

- **COMP. AIR REGULATOR**
  It regulates the pressure of the compressed air from compressor and ensures it has been forwarded to air tank as dry, thus the filter cleaning pressure is kept under control and safety of filters is guaranteed.

- **SILENCER**
  Produced cylindrically to absorb the air noise of ventilator outlet.

- **DİĞER OPSİYONERLER**
  - Ladder and elevation step
  - FanController Panel with Frequency Converter
  - Filter Inlet and Outlet Manifolds

## EX-PROOF ACCESSORIES

- **EXPLOSION VENT**
  ATEX certificated explosion door is used, which is produced by stainless steel.

- **PILOT BOX & EX-PROOF COILS**
  The box protects pulse valve coils from extreme outside conditions.

- **EX-PROOF FAN and MOTOR**
  ATEX certificated ex-proof motor and fan are used, which are suitable for different capacity requirements.
In Bomaksan branded PKF Jet-pulse Dust Collector Units, highly productive 100% non-woven polyester cartridge 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 - 100% non-woven polyester
- PolyMight HO - 100% non-woven polyester + Oleo and Hydrophobic
- PolyMight ALU - 100% non-woven aluminised polyester + Antistatic
- PolyMight 255 PTFE - 100% non-woven polyester + ePTFE Membrane (E11)
- PolyMight 265 PTFE - 100% non-woven polyester + ePTFE Membrane (H13)
- PolyMight ALU PTFE - 100% non-woven aluminised polyester + ePTFE
- NanoBlend FR - 80% Cellulose 20% Polyester Blend + Nanofiber Coating

SURFACE FILTRATION

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
Bomaksan branded PKF Jet-Pulse Dust Collector is designed studiously by Bomaksan engineers. Data taking place in the tables is prepared for you to choose the PKF model best suited for your needs. Please contact with your Bomaksan Sales Representative to have further informations about our products.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PKF-4</th>
<th>PKF-6</th>
<th>PKF-9</th>
<th>PKF-12</th>
<th>PKF-15</th>
<th>PKF-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge Filter (unit)</td>
<td>4</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>Total Filtration Area (m²)</td>
<td>80</td>
<td>120</td>
<td>180</td>
<td>240</td>
<td>300</td>
<td>360</td>
</tr>
<tr>
<td>Filter Material</td>
<td>NanoBlend FR</td>
<td>NanoBlend FR</td>
<td>NanoBlend FR</td>
<td>NanoBlend FR</td>
<td>NanoBlend FR</td>
<td>NanoBlend FR</td>
</tr>
<tr>
<td>Fan Capacity (m³/h)</td>
<td>2,000 - 5,000</td>
<td>3,000 - 7,500</td>
<td>4,500 - 11,000</td>
<td>6,000 - 15,000</td>
<td>7,500 - 19,000</td>
<td>9,000 - 22,500</td>
</tr>
<tr>
<td>Filtration Velocity (m³/m²/h)</td>
<td>0,42 - 1,05</td>
<td>0,42 - 1,05</td>
<td>0,42 - 1,02</td>
<td>0,42 - 1,05</td>
<td>0,42 - 1,05</td>
<td>0,42 - 1,04</td>
</tr>
<tr>
<td>Pulse - Valve (type - unit)</td>
<td>1 ½” - 2</td>
<td>1 ½” - 3</td>
<td>1 ½” - 5</td>
<td>1 ½” - 6</td>
<td>1 ½” - 8</td>
<td>1 ½” - 9</td>
</tr>
<tr>
<td>Compressed Air Req.(bar)</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>
<tr>
<td>Power Supply (V/Hz)</td>
<td>350V - 50Hz</td>
<td>350V - 50Hz</td>
<td>350V - 50Hz</td>
<td>350V - 50Hz</td>
<td>350V - 50Hz</td>
<td>350V - 50Hz</td>
</tr>
<tr>
<td>Operating Temperature (oC)</td>
<td>0/80 Dry Air</td>
<td>0/80 Dry Air</td>
<td>0/80 Dry Air</td>
<td>0/80 Dry Air</td>
<td>0/80 Dry Air</td>
<td>0/80 Dry Air</td>
</tr>
<tr>
<td>Cabin Comp. Strength (Pa)</td>
<td>Max. 5000</td>
<td>Max. 5000</td>
<td>Max. 5000</td>
<td>Max. 5000</td>
<td>Max. 5000</td>
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</table>

**DIMENSIONS**

<table>
<thead>
<tr>
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<th>PKF-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W) (mm)</td>
<td>1,280</td>
<td>1,600</td>
<td>2,100</td>
<td>2,100</td>
<td>2,500</td>
<td>3,120</td>
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<tr>
<td>Length (L) (mm)</td>
<td>1,900</td>
<td>2,240</td>
<td>2,495</td>
<td>2,980</td>
<td>2,985</td>
<td>3,025</td>
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<tr>
<td>Height (H) (mm)</td>
<td>2,850</td>
<td>3,060</td>
<td>3,540</td>
<td>3,565</td>
<td>3,935</td>
<td>4,030</td>
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<tr>
<td>1st Modula Height (H1) (mm)</td>
<td>1,920</td>
<td>2,780</td>
<td>2,470</td>
<td>2,440</td>
<td>2,745</td>
<td>2,765</td>
</tr>
<tr>
<td>2nd Modula Height(H2) (mm)</td>
<td>2,570</td>
<td>2,990</td>
<td>3,140</td>
<td>3,130</td>
<td>3,505</td>
<td>3,625</td>
</tr>
</tbody>
</table>

* Bomaksan reserves the right to change or modify the details in the list at any time.
### TECHNICAL DETAILS

#### DIMENSIONS

<table>
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<th>PKF-15</th>
<th>PKF18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (W) (mm)</td>
<td>1.980</td>
<td>2.300</td>
<td>2.800</td>
<td>2.800</td>
<td>3.300</td>
<td>3.820</td>
</tr>
<tr>
<td>Length (L) (mm)</td>
<td>1.900</td>
<td>2.240</td>
<td>2.355</td>
<td>2.750</td>
<td>2.750</td>
<td>2.750</td>
</tr>
<tr>
<td>Height (H) (mm)</td>
<td>5.270</td>
<td>5.700</td>
<td>6.250</td>
<td>6.325</td>
<td>6.570</td>
<td>6.585</td>
</tr>
<tr>
<td>1st Modula Height (H1) (mm)</td>
<td>3.360</td>
<td>3.640</td>
<td>4.090</td>
<td>4.080</td>
<td>4.285</td>
<td>4.230</td>
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<tr>
<td>2nd Modula Height(H2) (mm)</td>
<td>4.020</td>
<td>4.440</td>
<td>4.760</td>
<td>4.785</td>
<td>5.060</td>
<td>5.085</td>
</tr>
</tbody>
</table>

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### MODULAR SYSTEM INSTALLATION

- **2 X PKF Modeli**
- **3 X PKF Modeli**
- **4 X PKF Modeli**