



bomaksan[®]
INDUSTRIAL AIR FILTRATION SYSTEMS



YBF SERIES
OIL MIST COLLECTORS



GENERAL FEATURES



PLUG & PLAY

Bomaksan branded YBF Oil Mist Filter takes up less place thanks to its' compact design. It is a plug and play device that contains all accessories.



SILENCE

Bomaksan branded YBF Oil Mist Filters are designed to work silently. You can easily install them indoor.



ECONOMICAL

Bomaksan branded YBF Oil Mist Filters decreases your installation expenses thanks to its easy setup and your air duct expenses due to its special design suitable to work indoors.



RECYCLE

Bomaksan branded YBF Oil Mist Filters allow you to recycle the waste oil thanks to the filtration method.



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 inflection unifying with a nut.



EASY MAINTENANCE

Bomaksan branded YBF Oil Mist Filter decreases your time and labor expenses minimum due to its custom-engineered coalescer filters and oil drainage system.

APPLICATIONS



Metal Working



Steel Foundries



Aviation



Foundries



Automotive



Sheet Metal

HIGHLIGHTS

Fan Cabinet and
Fan Access Door

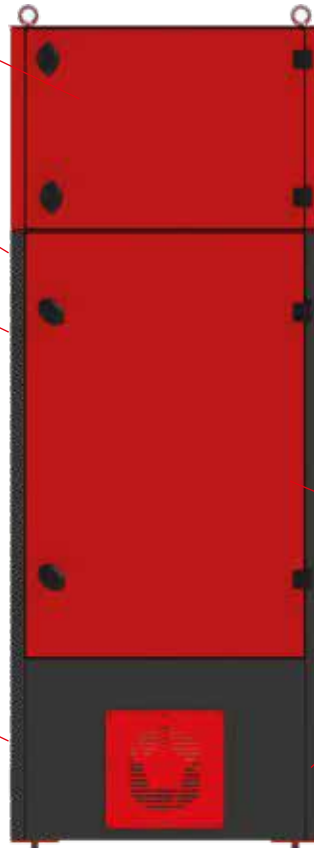
ON/OFF
Button

dP Gauge

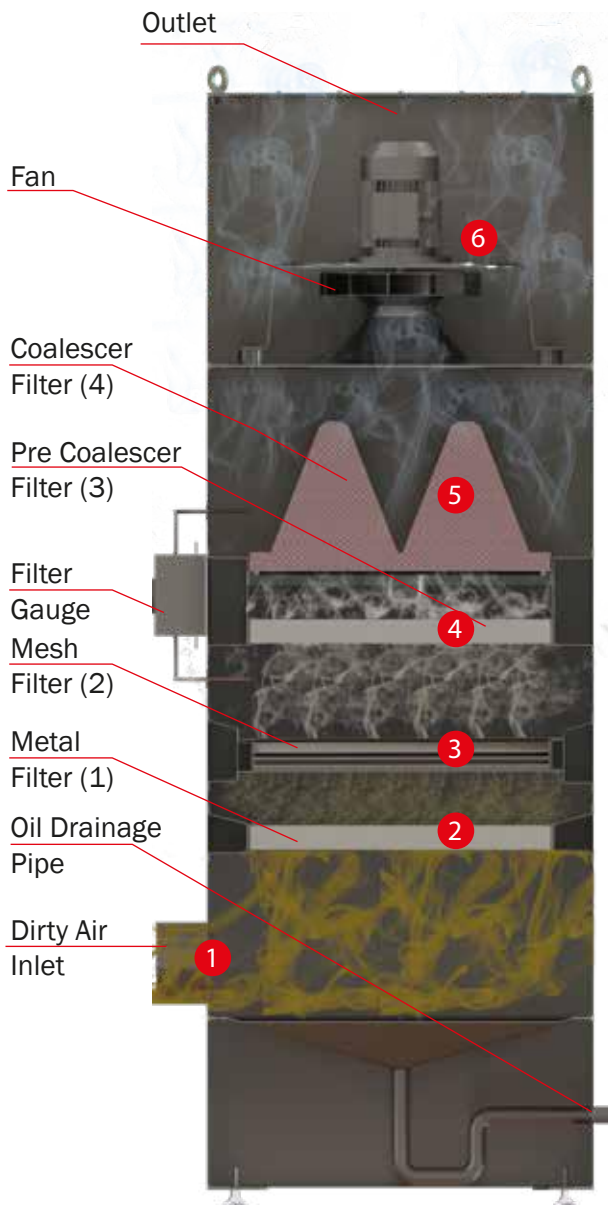
Dirty Air
Inlet

Filter Access
Door

Oil Drainage
Pipe

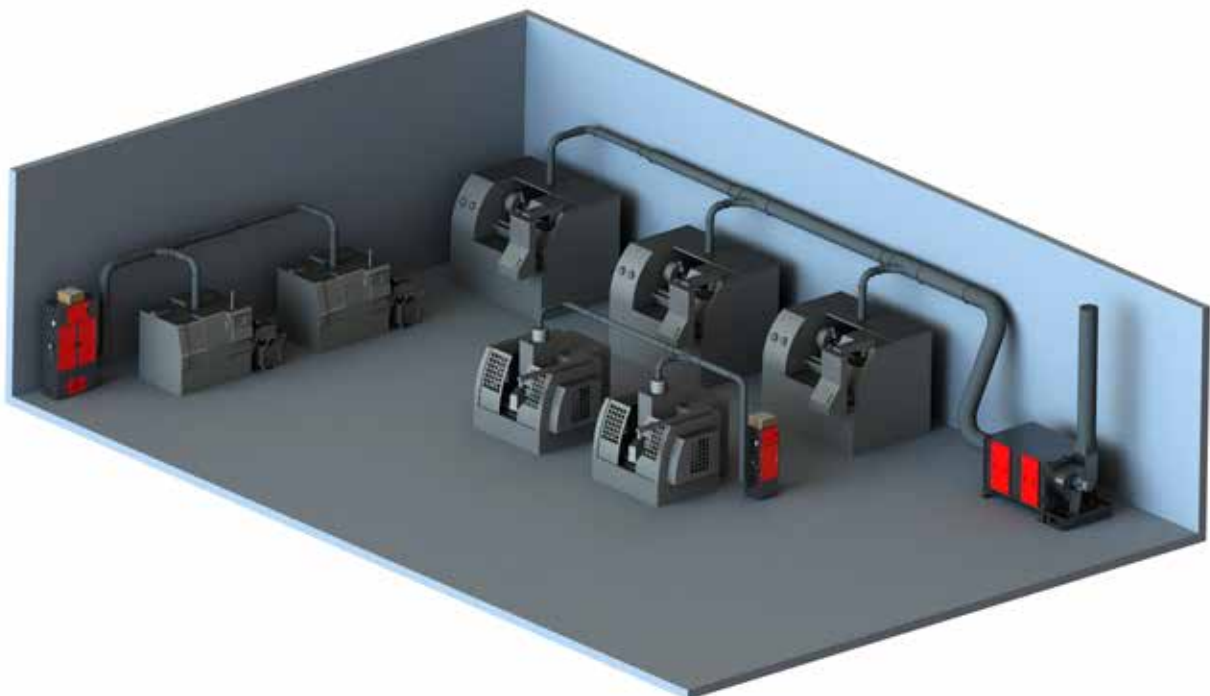


HOW IT WORKS?



- 1 Dirty and Oil air collected to the Oil Mist Filters via designated ducts.
- 2 1st stage filtration achieved by metal filter. At this stage rough oil mist particles drain.
- 3 2nd stage filtration achieved by mesh filters. Coarse oil mist particles are drained by mesh filters.
- 4 3rd stage filtration achieved by pre-coalescer filters. Main objective of pre-coalescer filters is to extend expensive coalescer filters' life.
- 5 4th stage filtration is more like absolute filtration and achieved by Coalescer filters. Coalescer filters are high quality and super efficient filters. Coalescer filter drains the small oil mist particles on the surface and release oil-free air to the ambient.
- 6 Fresh air which is cleaned with 4 stage filtration can be released to the ambient with high efficient fans.

SAMPLE INSTALLATION



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.



● MANOMETRE

It measures the differential pressure(dP) with the probs located before and after of Coalescer filter. Increasing in dP reffers filter clogging. It is used to see clogging of Coalescer filters and replacement time.



● METAL FILTER (1st STAGE)

The very first stage filters of 4 stages filtration. Metal filters condensates the rough oil in coming from dirty air inlet. They are washable and can be used again and again. If there is a corrosion on the filter, then they need to be replaced.



● MESH FILTER (2nd STAGE)

Mesh filters are 2nd stage filters. Fine oil particles which can pass through metal filters, enter to the aluminium mesh filter. Dirty air filtered while passing through mesh construction. They are washable but if mesh construction is broken, replacement required.



● PRE-COALESCEER FILTER (3rd STAGE)

Pre-Coalescer filters are 3rd stage filters and their main purpose is to extend coalescer filter's life. Oil particles which are small enough to pass 2nd stage, caught on pre-coalescer. They are not washable and neet to be replaced when they are clogged.



● COALESCEER FILTER (4th STAGE)

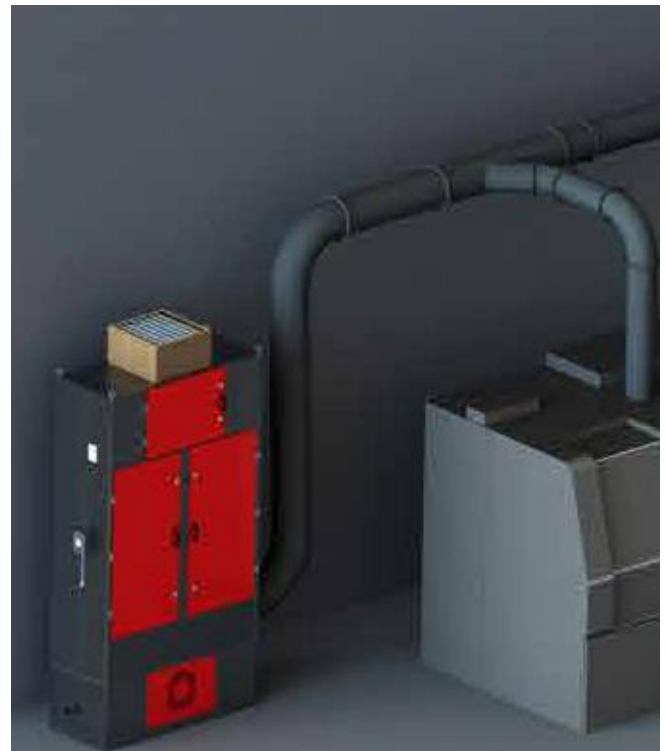
The final stage of 4 stages filtration is coalescer filter. After coalescer filter, breathable air will release. They are high tech and high efficient.Coalescer filters filtrate the thinnest oil mist particles and help you clean working environment.



OPTIONAL ACCESSORIES

● HEPA FILTER

Hepa filters are preffered when high class filtration is required. It's dimension will diverse depending on the capacity of your oil mist collector. When choosing HEPA filter, please ask help from your Bomaksan sales representative.



4 STAGE FILTRATION

1



METAL FILTER

Metal filters condensates the rough oil in coming from dirty air inlet. They are washable and can be used again and again. If there is a corrosion on the filter, then they need to be replaced.



Washable



Recycable

2



MESH FILTER

Fine oil particles which can pass through metal filters, enter to the aluminium mesh filter. Dirty air filtered while passing through mesh construction. They are washable but if mesh construction is broken, replacement required.



Washable



Recycable

3



PRE-COALESCER FILTER

Their main purpose is to extend coalescer filter's life. Oil particles which are small enough to pass 2nd stage, caught on pre-coalescer. They are not washable and need to be replaced when they are clogged.



NOT Washable



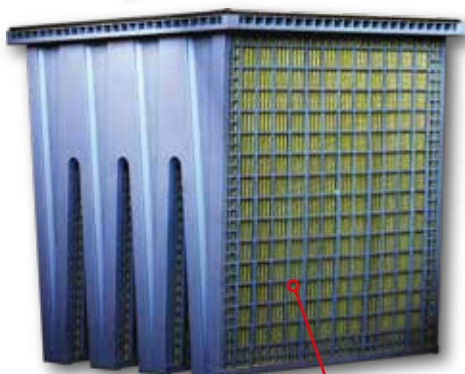
Recycable

4

Final Stage Filtration



COALESCER FILTER



Coalescer filters prevent oil mist and fume to release to the ambient thanks to its high tech filter media technology. Oil drops goes through several steps in coalescer media. After each step, oil drops are stand together and create bigger drop. After a certain size, bigger drops cannot hold on the media and fall down with gravitational force.



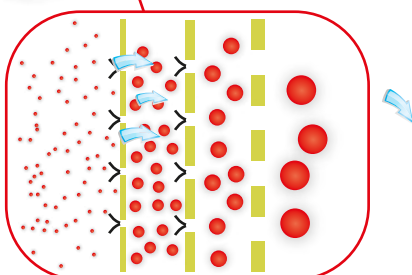
NOT Washable

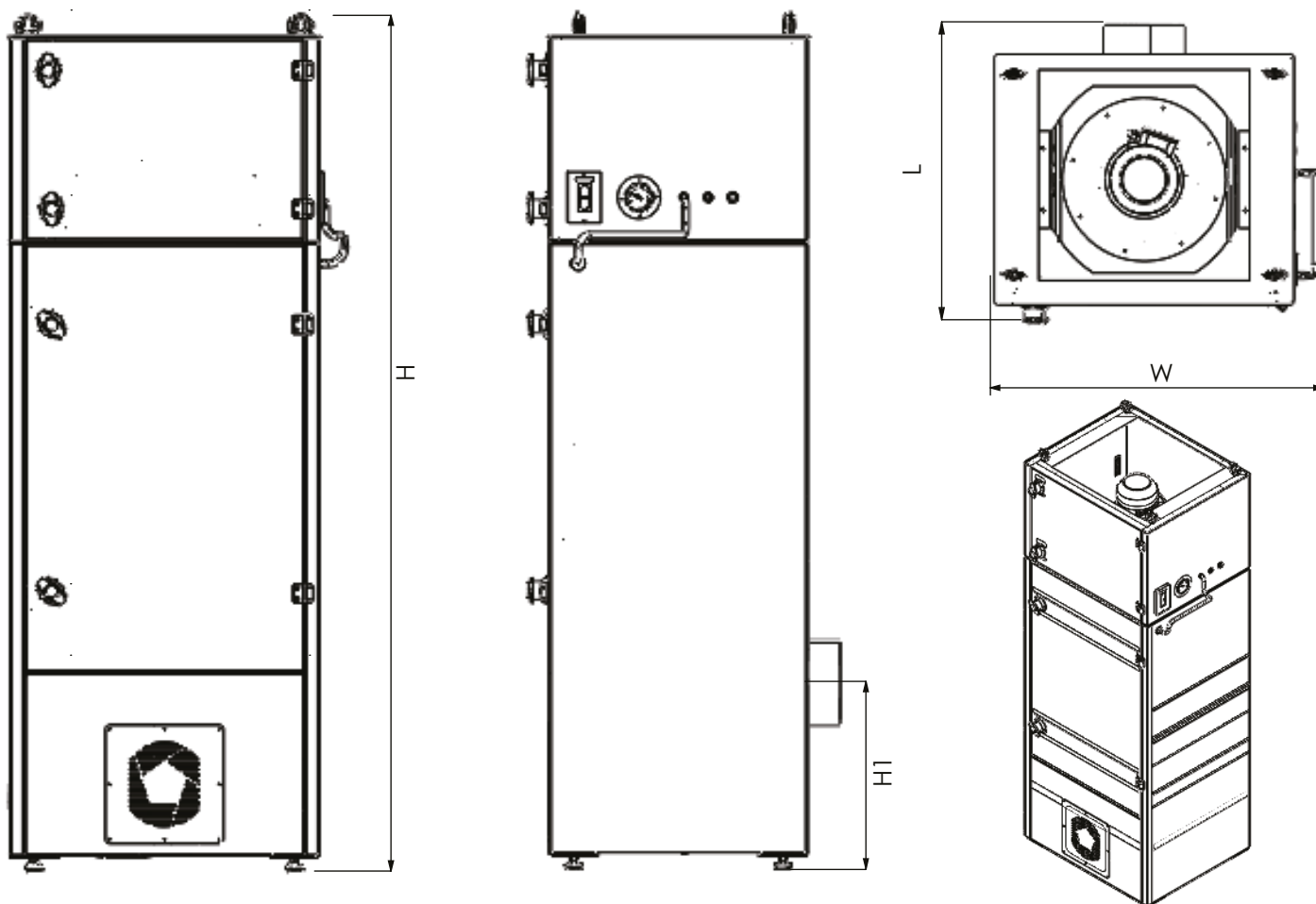


Recycable

How It Works?

High tech filter media inside coalescer filter brings small oil drops together and create a bigger oil drops. After a certain point, cohesion force cannot overcome gravitational force and bigger drop drain through surface. Thus the dirty air coming through coalescer filter get cleaner and fresh air can be maintained.



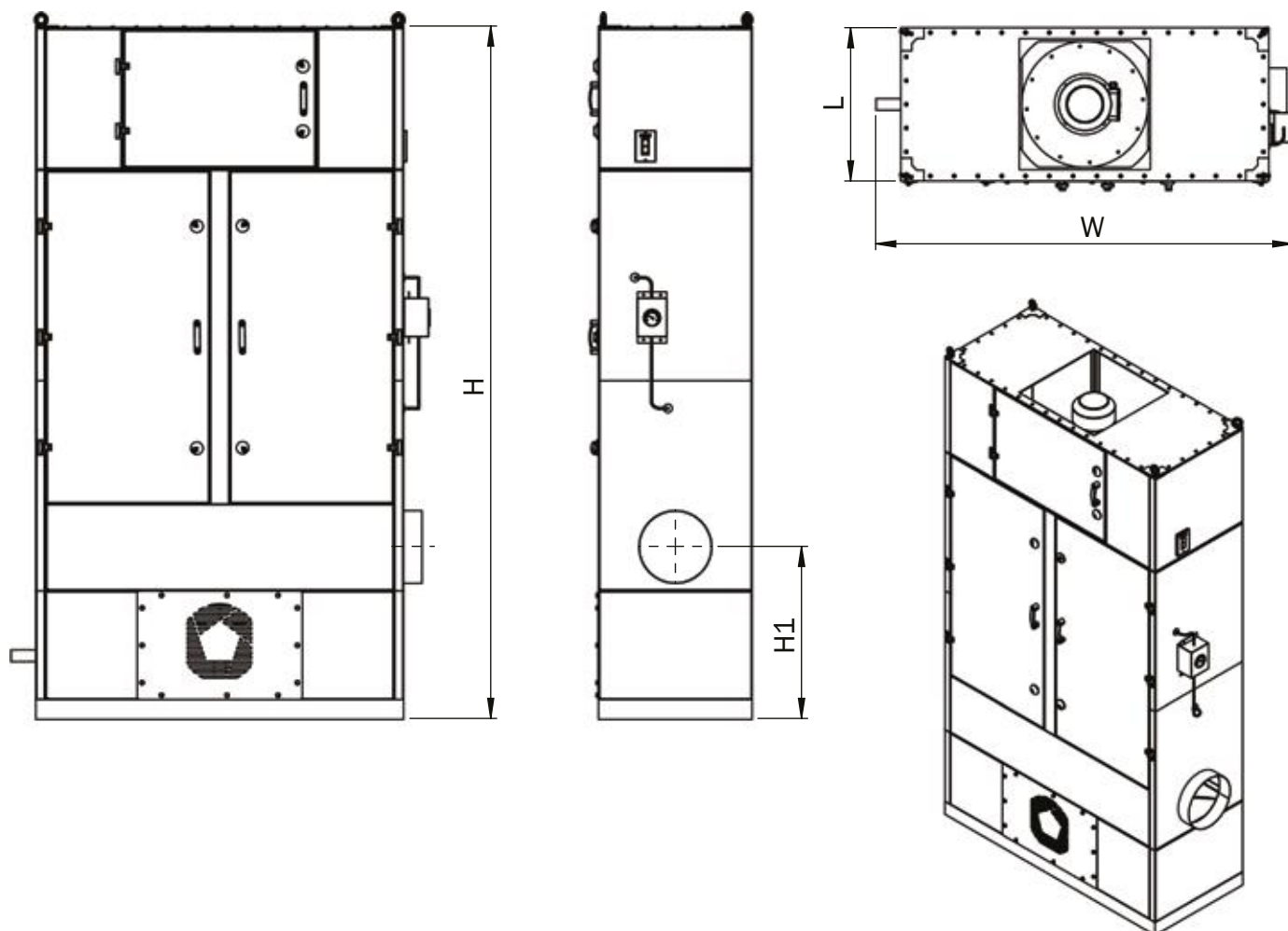


TECHNICAL DETAILS

MODEL	YBF-10	YBF-15	YBF-20	H-YBF-10	H-YBF-15	H-YBF-20
Air Flow Rate (m ³ /h)	1.000	1.500	2.000	1.000	1.500	2.000
Differential Pressure (Pa)	1.700	1.700	1.700	2.000	2.000	2.000
Off-Device Pressure (Pa)	500	500	500	500	500	500
Coalescer	✓	✓	✓	✓	✓	✓
Pre Coalescer	✓	✓	✓	✓	✓	✓
Mesh Filter	✓	✓	✓	✓	✓	✓
Metal Filter	✓	✓	✓	✓	✓	✓
Hepa Filter	-	-	-	✓	✓	✓
Power Supply (V / Hz)	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**
Motor Power (kW)	1,1	1,1	1.5	1,1	1.5	2.2
Motor Revolution (RPM)	2.950	2.950	2.950	2.950	2.950	2.950
Operating Temp (°C)	0 / 80	0 / 80	0 / 80	0 / 80	0 / 80	0 / 80
Noise Level (dB)	75 - 80	75 - 80	75 - 80	75 - 80	75 - 80	75 - 80
DIMENSIONS	YBF-10	YBF-15	YBF-20	H-YBF-10	H-YBF-15	H-YBF-20
Width (W) (mm)	890	890	890	890	890	890
Length (L) (mm)	705	705	705	705	705	705
Height (H) (mm)	2.305	2.305	2.305	2.600	2.600	2.600
Inlet Height (H1) (mm)	425	425	425	425	425	425
Inlet Diameter (mm)	Ø160	Ø180	Ø200	Ø160	Ø180	Ø200

*Bomaksan, reserves the right to make changes in this table without prior notice

** For alternative voltage supply demands, please contact with Bomaksan Clean Air Experts.



TECHNICAL FEATURES

MODEL	YBF-30	YBF-40	H-YBF-30	H-YBF-40
Air Flow Rate (m ³ /h)	3.000	4.000	3.000	4.000
Differential Pressure (Pa)	1.700	1.700	2.000	2.000
Off-Device Pressure (Pa)	500	500	500	500
Coalescer	✓	✓	✓	✓
Pre Coalescer	✓	✓	✓	✓
Mesh Filter	✓	✓	✓	✓
Metal Filter	✓	✓	✓	✓
Hepa Filter	-	-	✓	✓
Power Supply (V / Hz)	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**	380 V / 50 Hz**
Motor Power (kW)	2.2	3	3	4
Motor Revolution (RPM)	2.950	2.950	2.950	2.950
Operating Temp (°C)	0 / 80	0 / 80	0 / 80	0 / 80
Noise Level (dB)	75 - 80	75 - 80	75 - 80	75 - 80
DIMENSIONS	YBF-30	YBF-40	H-YBF-30	H-YBF-40
Width (W) (mm)	1.670	1.670	1.670	1.670
Length (L) (mm)	705	705	705	705
Height (H) (mm)	2.620	2.620	2.885	2.885
Inlet Height (H1) (mm)	500	500	500	500
Inlet Diameter (mm)	Ø250	Ø300	Ø250	Ø300

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RELIABLE • SUSTAINABLE • EXPERIENCED • GLOBAL • QUALIFIED

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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