



OVERVIEW

BOMAKSAN brand VERTY Series Jet-Pulse Compact Cartridge Filter Units can be used as central extraction systems or can be installed right next to the source of pollution. It is a compact, plug-and-play device that contains the Radial Fan, Fan Control Panel, Jet-Pulse cleaning system, dust collection bin and cartridge filters. In this way, it provides easy installation.

It is a suitable choice between 2.500 m³/h - 12.000 m³ h extraction capacities with variety of fan pressure. Fan performance curves are given in this document showing that the variety of fan operation points. The electrical motors of this series are range from 2,2 kW to 11 kW.

VERTY series are meets the security requirements of units of the welding fume category W3 (highly alloyed steels). This unit is CE certified. If you handle the unit correctly, you can use it for circulating air operation because it fulfills the requirements of the exceptional rules according to the new German Hazardous Substances Ordinance (GefStoff V).

Plug&Play

Bomaksan branded VERTY Series Jet-Pulse Dust Collector takes up less place than its' compact design. It is a plug&play device that contains all accessories on its own.

Auto Cleaning

In BOMAKSAN brand Jet-Pulse filter units, compressed air cleaning works on the basis of differential pressure. In this way, the filters are cleaned only when necessary and the compressed air consumption is reduced.

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.

Easy Maintenance

Bomaksan branded VERTY Series Jet-Pulse Dust Collector has unique filter replacement design. This unique design lets you replace the filters very easily and quickly.

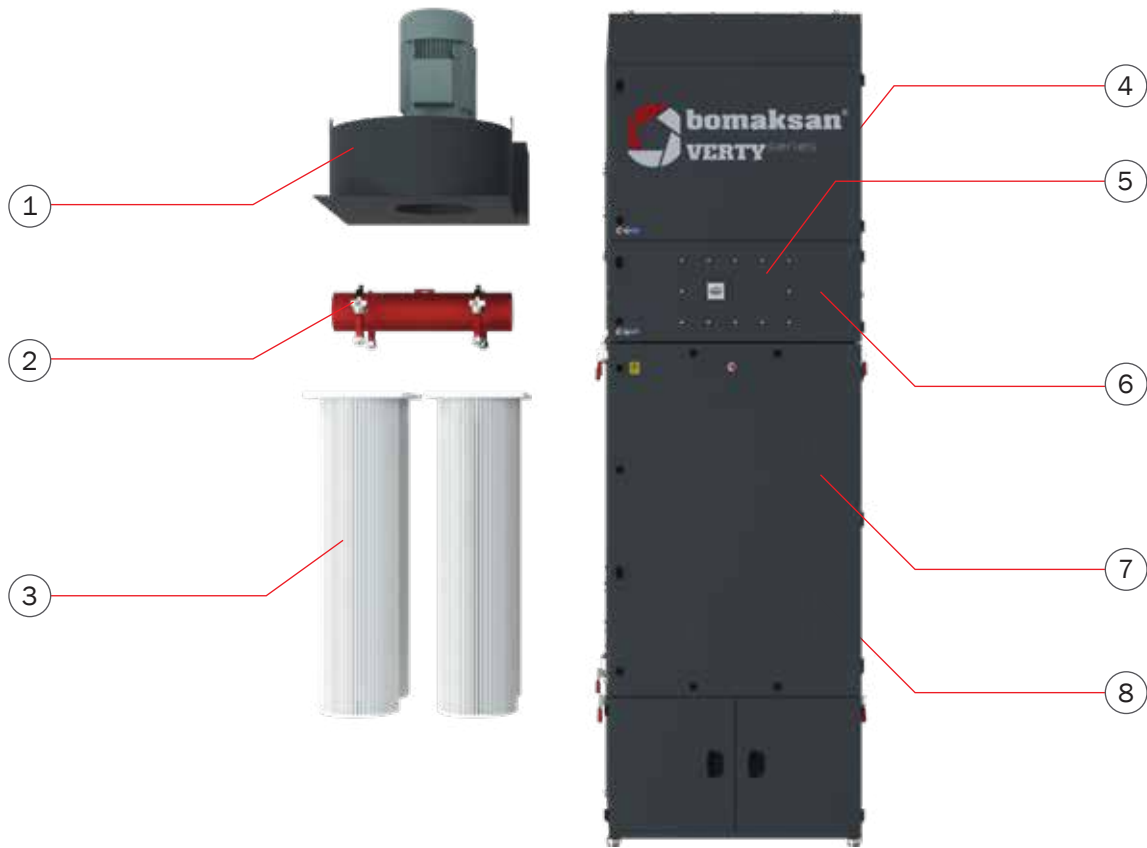
Standard Features

• M Class polyMIGHT 55 Cartridge Filters	• Radial Fan	• Maintenance doors
• Jet-Pulse Automatic Cleaning System	• Fan Control Panel	• 3 - side inlet option
• dP Controlled Cleaning Control System	• Indoor Installation Package	• 2 - side outlet option
• Filter Clog Alarm	• Dust Collecting Tray with sealing	

Optional Features

• F9 or H13 Class Cartridge Filters	• Silencer Module	• In-Line Spark Arrestor
• HEPA Filter Module (Up to 7,5 kW)	• Super-Silent Cabinet	• Spark Trap
• Activated Carbon Filter Module	• B-Control Panel	• Continuous precoating device
• Fan Enclosure Module	• VFD Fan Control	• Master-Slave Control Box

Part Description



NO	PART NAME	NO	PART NAME
1	Radial Fan	5	Built-in Control Panel
2	Jet-Pulse Cleaning System	6	Cleaning System Access Door
3	Cartridge Filter Set	7	Cartridge Filter Access Door
4	Clean Air Outlet	8	Dirty Air Inlet

Filtration Area Matrix

Verty Series filter units have several filtration media and length configurations. You can find the configuration matrix in the next table.

Please make sure that your filter configuration is align with your capacity requirement. Each application requires different air-to-cloth ratio, so please choose the right air-to-cloth ratio for your specific application / process.

If you are not sure about the air-to-cloth ratio selection, please ask Bomaksan sales representatives.

	66 cm	100 cm	120 cm	132 cm
B135FR	80 m ²	120 m ²	N/A	160 m ²
255P	40 m ²	60 m ²	100 m ²	N/A
255H0	40 m ²	60 m ²	100 m ²	N/A
260ALU	40 m ²	60 m ²	100 m ²	N/A
265ALUPTFE	40 m ²	60 m ²	100 m ²	N/A
265PTFE	40 m ²	60 m ²	100 m ²	N/A

Filter&Fan Configuration - 50 Hz

TECHNICAL DETAILS						
STANDARD FILTRATION CONFIGURATION						
MODEL	2,2 kW	3 kW	4 kW	5,5 kW	7,5 kW	11 kW
Filter Cabinet	V66	V66	V66	V100	V132	V132
Cartridge Filter	4	4	4	4	4	4
Filter Length (cm)	66	66	66	100	120	120
Filtration Area (m ²)	40	40	40	60	100	100
Filter Material	255P	255P	255P	255P	255P	255P
max. Air Flow (m ³ /h)	3.500	4.300	5.500	6.500	7.250	11.000
max. Pressure (Pa)	2.600	3.300	3.200	4.100	4.900	4.800
Fan Motor Power(kW)	2,2	3	4	5,5	7,5	11

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

Bomaksan uses nanoBLEND FR - B135FR filter media in "Efficient Filtration Configuration". nanoBLEND FR filter media provides F9 Class filtration efficiency and preferred where high filtration efficiency is required.

nanoBLEND Filters are the mixture of cellulose and polyester material with nanofiber finishing. High filtration efficiency is ensured by high technology nanofiber finishing.

TECHNICAL DETAILS						
EFFICIENT FILTRATION CONFIGURATION						
MODEL	2,2 kW	3 kW	4 kW	5,5 kW	7,5 kW	11 kW
Filter Cabinet	V66	V66	V66	V100	V100	V132
Cartridge Filter	4	4	4	4	4	4
Filter Length (cm)	66	66	66	100	100	132
Filtration Area (m ²)	80	80	80	120	120	160
Filter Material	B135FR	B135FR	B135FR	B135FR	B135FR	B135FR
max. Air Flow (m ³ /h)	3.500	4.300	5.500	6.500	7.250	11.000
max. Pressure (Pa)	2.600	3.300	3.200	4.100	4.900	4.800
Fan Motor Power(kW)	2,2	3	4	5,5	7,5	11

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TECHNICAL DETAILS						
HIGH EFFICIENT FILTRATION CONFIGURATION						
MODEL	2,2 kW	3 kW	4 kW	5,5 kW	7,5 kW	11 kW
Filter Cabinet	V66	V66	V66	V100	V132	V132
Cartridge Filter	4	4	4	4	4	4
Filter Length (cm)	66	66	66	100	120	120
Filtration Area (m ²)	40	40	40	60	100	100
Filter Material	265PTFE	265PTFE	265PTFE	265PTFE	265PTFE	265PTFE
max. Air Flow (m ³ /h)	3.500	4.300	5.500	6.500	7.250	11.000
max. Pressure (Pa)	2.600	3.300	3.200	4.100	4.900	4.800
Fan Motor Power(kW)	2,2	3	4	5,5	7,5	11

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

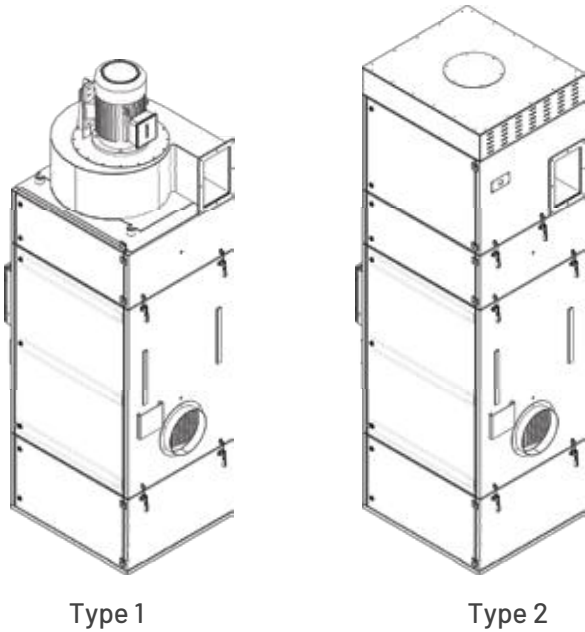
Bomaksan uses polyMIGHT 55 - 255P filter media as standard in VERTY Series filter units. polyMIGHT 55 - 255P filter media provides M Class filtration efficiency.

polyMIGHT 55 filter media is 100% spunbond non-woven polyester which does not contain any cellulose material.

Bomaksan uses polyMIGHT PTFE 65 - 265PTFE media in "Superior Filtration Efficiency Configuration". polyMIGHT PTFE 65 filter media provides H13 Class filtration efficiency and preferred where very high filtration efficiency is required.

polyMIGHT PTFE 65 filters are 100% spunbond non-woven polyester material with ePTFE membrane finishing. Superior filtration efficiency is ensured by ePTFE membrane finishing.

Fan Cabinet Configuration



Verty series filter units have 2 types of fan and exhaust section options.

- Type 1 : without Fan Housing
- Type 2 : with Fan Housing

Please take note that you can add duct type silencer for Type 1 and Type 2.

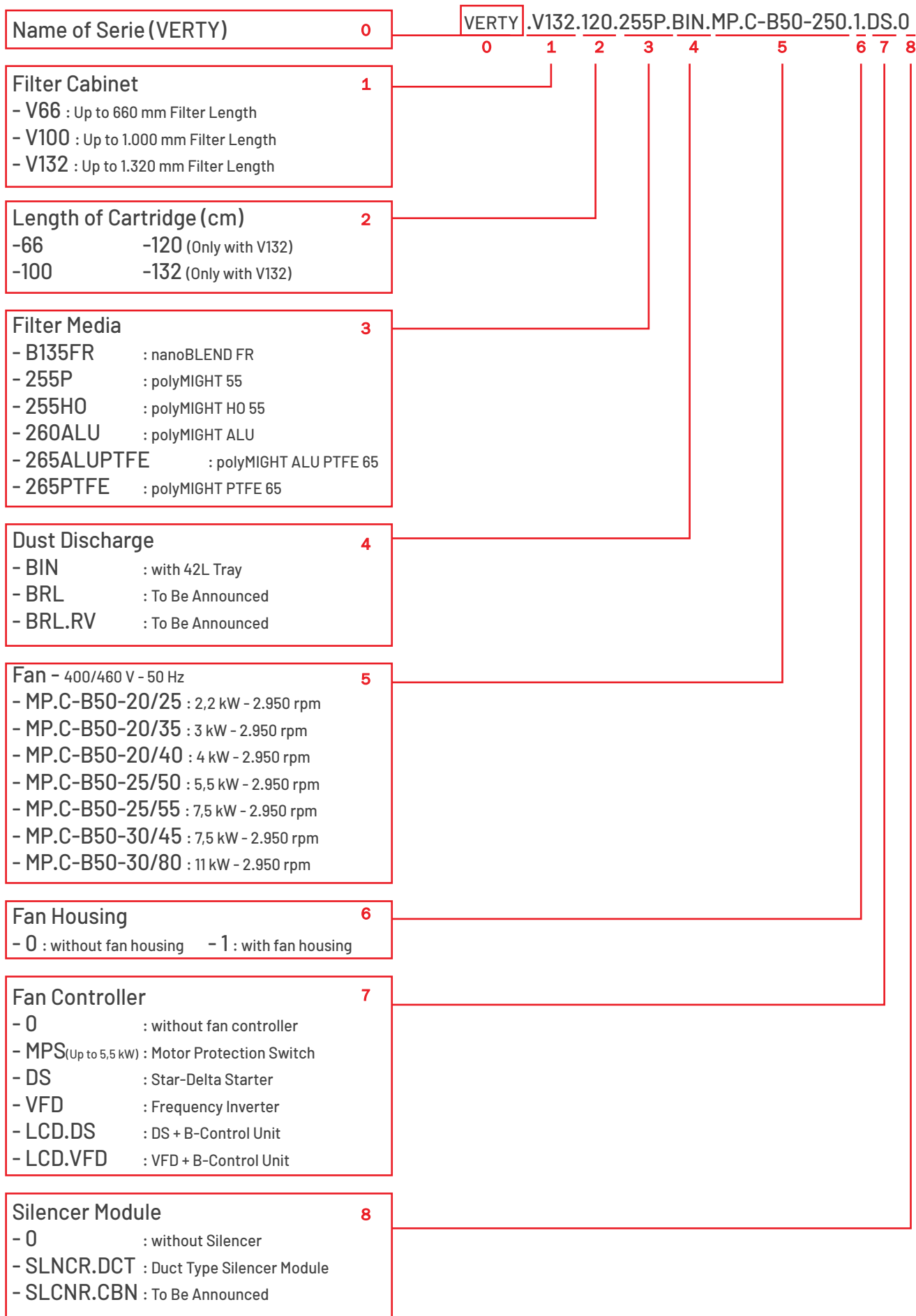
Bomaksan highly recommend to add silencers for noise sensitive locations. The filter unit can go above 80 dB(a) without silencers.

DIMENSIONS		2,2 kW	3 kW	4 kW	5,5 kW	7,5 kW	11 kW
Type 1 without Fan Housing	Width (W)	900	900	900	900	900	900
	Length (L)	1.000	1.000	1.000	1.000	1.000	1.000
	Height (H) - V66	2.300	2.350	2.400	2.550	2.450	2.610
	Height (H) - V100	2.640	2.690	2.740	2.890	2.790	2.950
Type 2 with Fan Housing	Width (W)	900	900	900	900	900	900
	Length (L)	1.000	1.000	1.000	1.000	1.000	1.000
	Height (H) - V66	2.400	2.400	2.400	2.600	2.600	2.600
	Height (H) - V100	2.740	2.740	2.740	2.940	2.940	2.940
	Height (H) - V132	3.060	3.060	3.060	3.260	3.260	3.260

Fan Controller Configuration

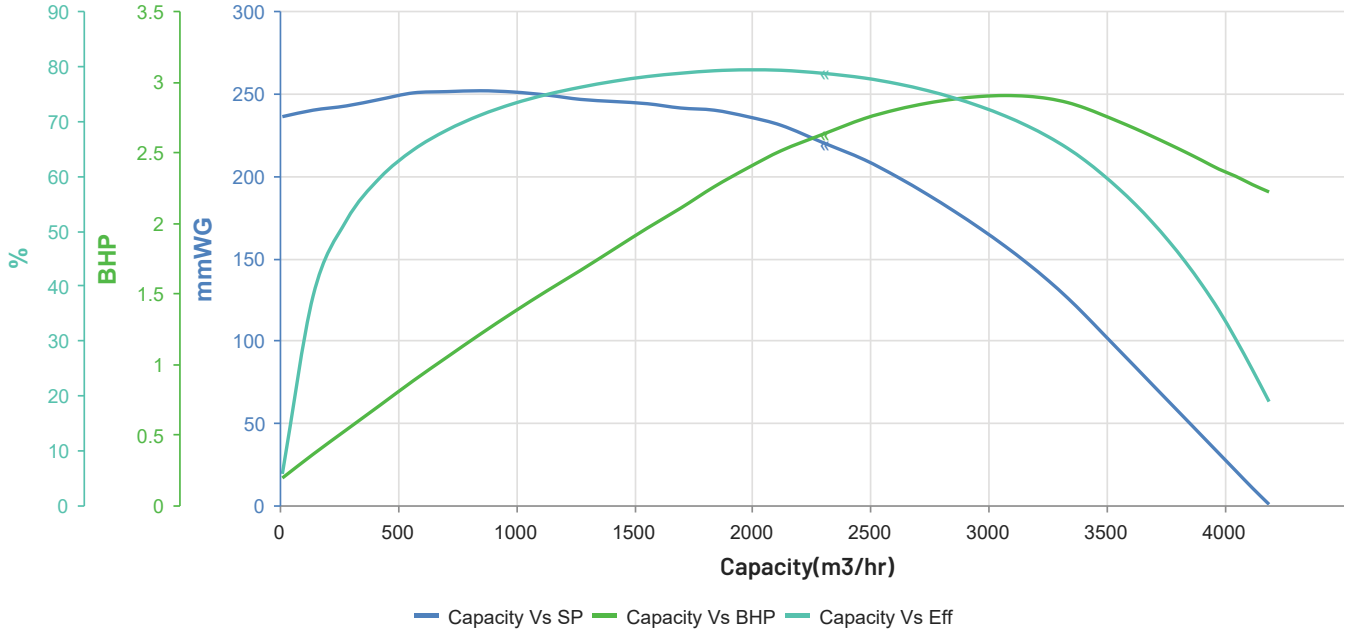
CONTROLLER TYPES		2,2 kW	3 kW	4 kW	5,5 kW	7,5 kW	11 kW
MPS with Motor Protection Switch Built-in	Fan Start/Stop	YES	YES	YES	YES	N/A	N/A
	Motor Protection	YES	YES	YES	YES	N/A	N/A
	Master-Slave Operation	YES	YES	YES	YES	N/A	N/A
	Phase Sequence Relay	NO	NO	NO	NO	N/A	N/A
	Fan Speed Adjustment	NO	NO	NO	NO	N/A	N/A
DS with Star-Delta Starter Built-in Control Panel	Fan Start/Stop	N/A	N/A	N/A	N/A	YES	YES
	Motor Protection	N/A	N/A	N/A	N/A	YES	YES
	Master-Slave Operation	N/A	N/A	N/A	N/A	YES	YES
	Phase Sequence Relay	N/A	N/A	N/A	N/A	YES	YES
	Fan Speed Adjustment	N/A	N/A	N/A	N/A	NO	NO
VFD with Frequency Inverter Separate Panel Box (Cooling Inc.)	Fan Start/Stop	YES	YES	YES	YES	YES	YES
	Motor Protection	YES	YES	YES	YES	YES	YES
	Master-Slave Operation	YES	YES	YES	YES	YES	YES
	Phase Sequence Relay	YES	YES	YES	YES	YES	YES
	Fan Speed Adjustment	YES	YES	YES	YES	YES	YES

How to Order?



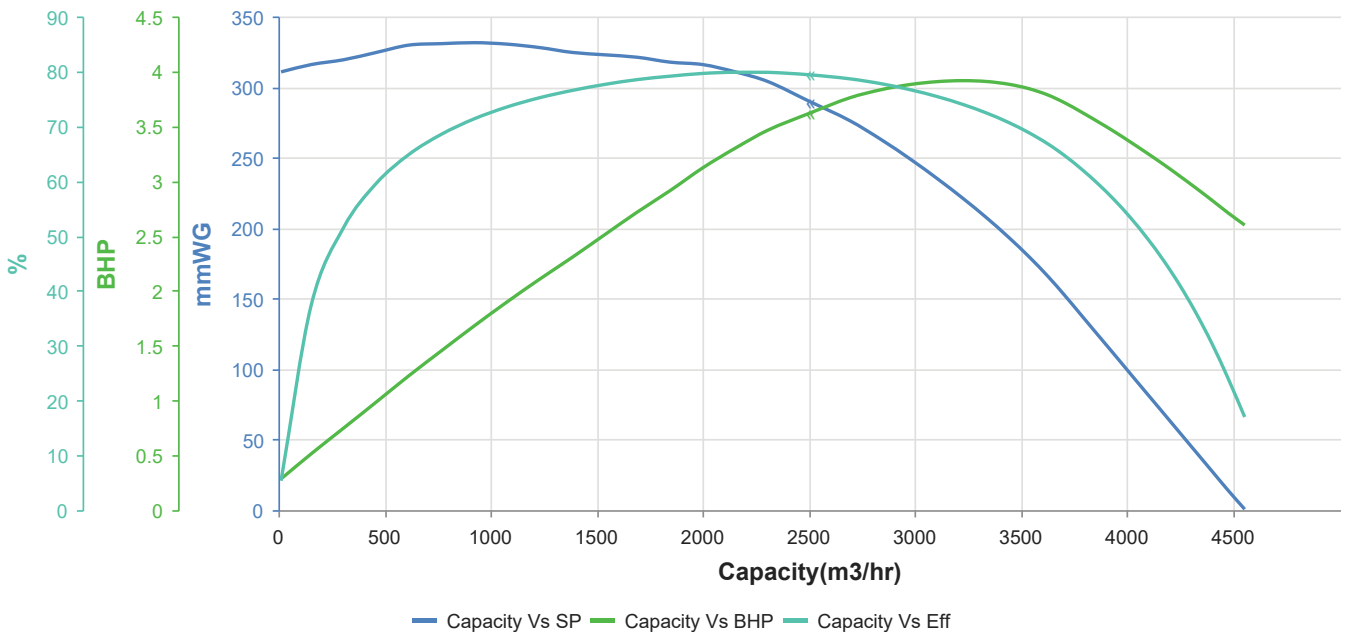
Fan Performance Curves

MP.C-B50-20/25 - 2,2 kW



MODEL	MPC-B50-20/25	
Power	2,2 kW	2,2 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm

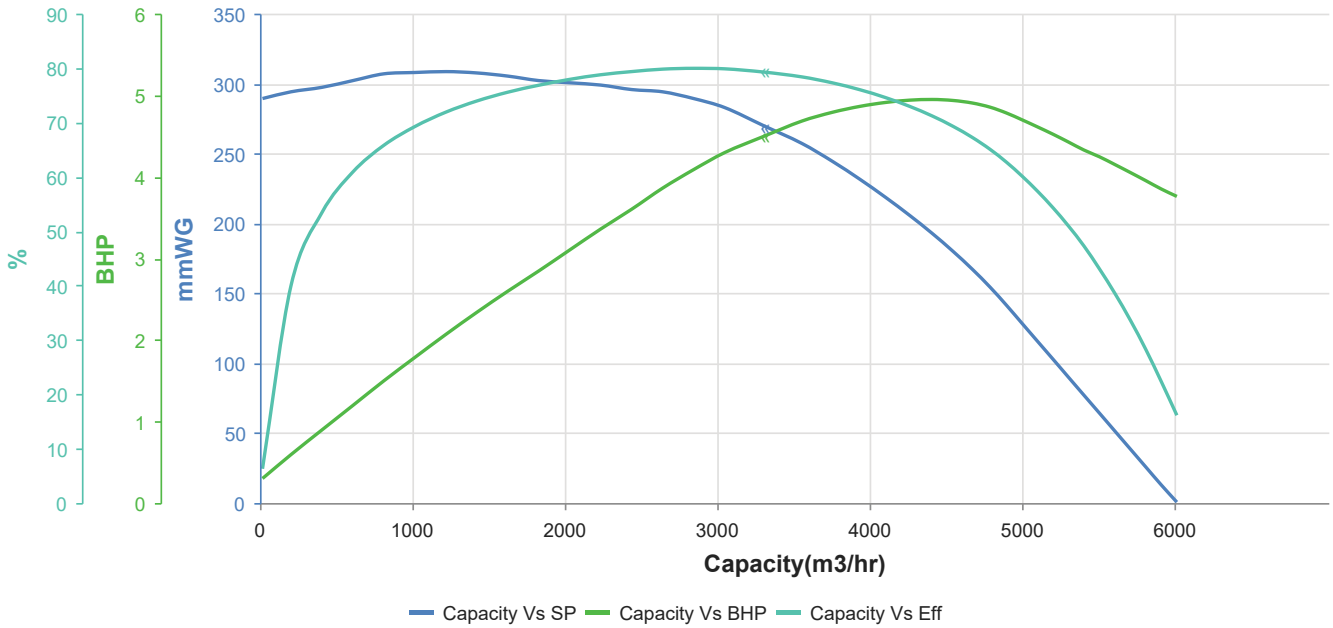
MP.C-B50-20/35 - 3 kW



MODEL	MPC-B50-20/35	
Power	3 kW	3 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm

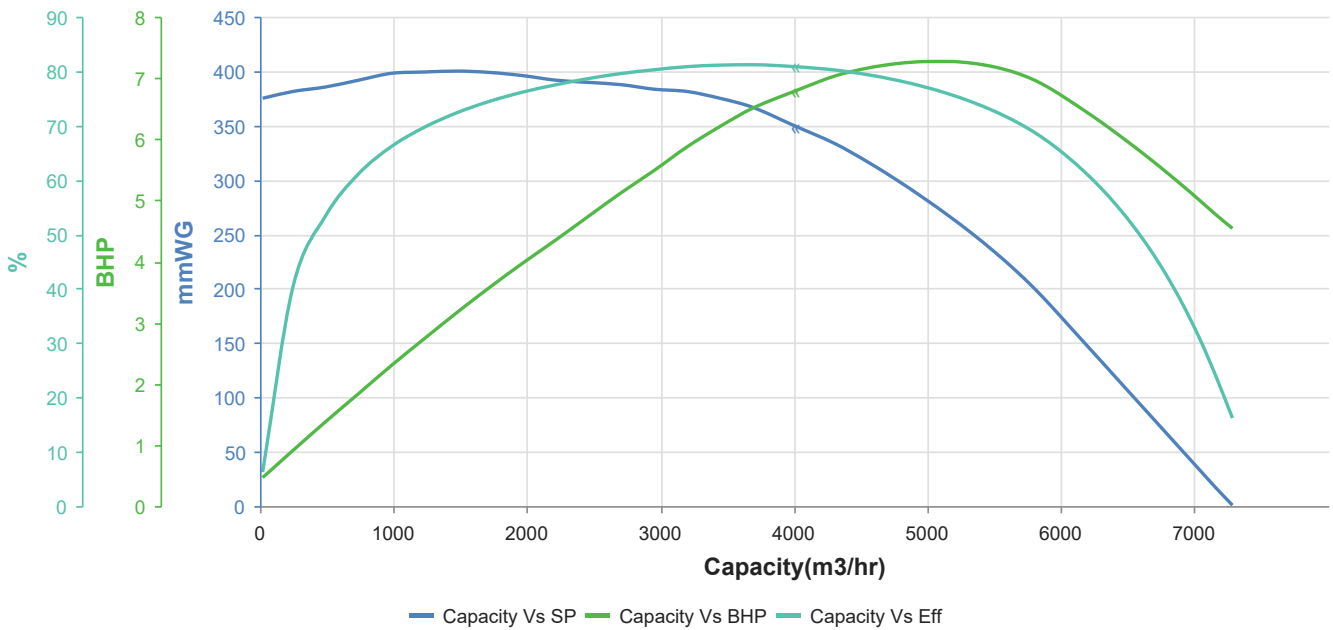
Fan Performance Curves

MP.C-B50-20/40 - 4 kW



MODEL	MPC-B50-20/40	
Power	4 kW	4 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm

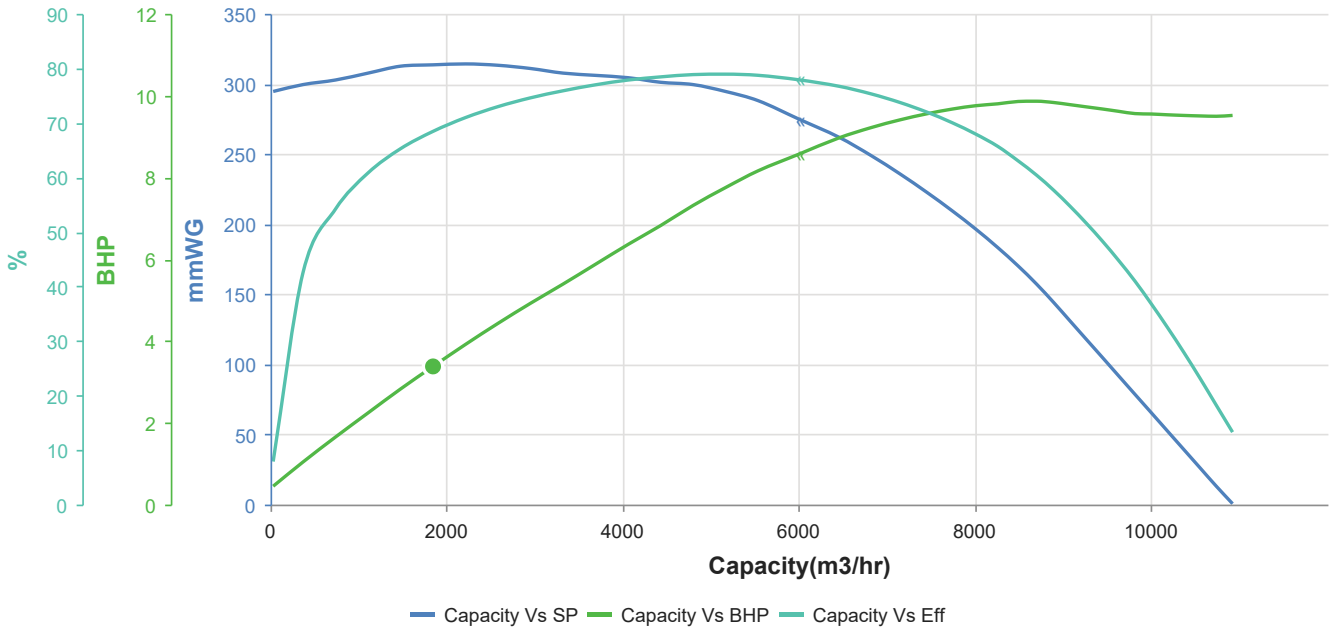
MP.C-B50-25/50 - 5,5 kW



MODEL	MPC-B50-25/50	
Power	5,5 kW	5,5 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm

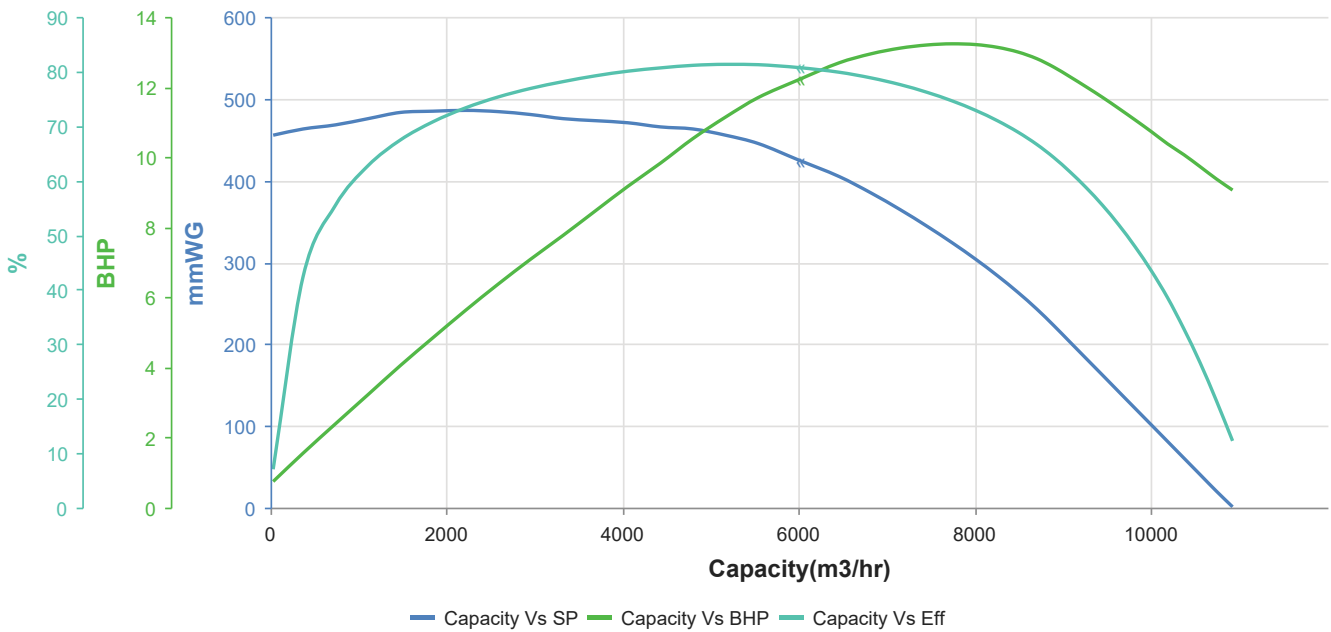
Fan Performance Curves

MP.C-B50-25/55 - 7,5 kW



MODEL	MPC-B50-25/55	
Power	7,5 kW	7,5 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm

MP.C-B50-30/80 - 11 kW



MODEL	MPC-B50-30/80	
Power	11 kW	11 kW
Tension	400 V	415 V
Frequency	50 Hz	50 Hz
Rated Current		
Motor Speed	2.950 rpm	2.950 rpm