

SINGLE STAGE

Power	0.25 – 18 kW
Max. flow	up to 1050 m³/h
Max. pressure	up to 79 kPa
Max. vacuum	up to 40 kPa
Speed	n ≈ 2800 /min

DOUBLE STAGE

Power	0.55 – 15 kW
Max. flow	up to 560 m³/h
Max. pressure	up to 72 kPa
Max. vacuum	up to 57 kPa

POWER SUPPLY

3~ 380–415 V (models from 0.55 kW)

1~ 220–240 V (models up to 2.2 kW)

50 Hz

MODEL CODE

GB-2200S/2

S three-phase 3~ (without S: single-phase 1~)

/2 double stage



OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.



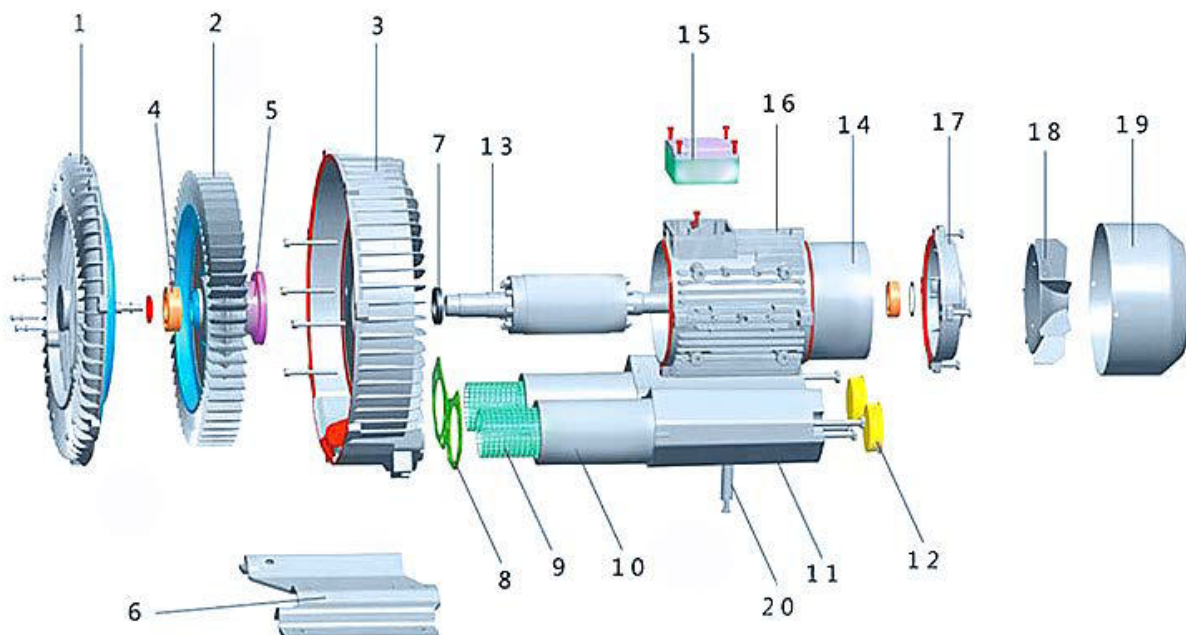
APPLICATIONS — BLOWING

Combustion air supply
Bottle washing and drying
Trim and scrap collection
Air-knife drying
Air cushion handling
Compost and wastewater aeration
Pneumatic capsule transport
Electroplating bath agitation
Aquaculture aeration
Molded-part release
Powder conveying
Incinerator air supply
Exhaust gas dispersion
Vehicle drying
Printing ink drying

APPLICATIONS — SUCTION

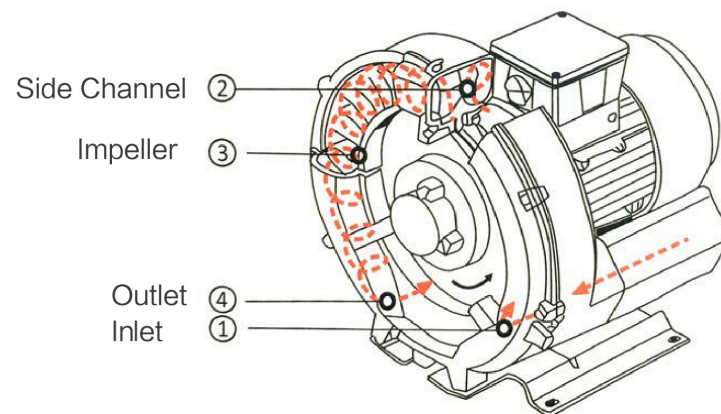
Screen-printing vacuum hold-down
Welding fume and dust extraction
Textile suction
Film hold-down for photoengraving
Pneumatic conveying
Printing press suction
Industrial vacuum cleaning
Vacuum dewatering
Book trimming hold-down
Fabric cutting suction
Milk-carton filling
Soybean conveying
Vacuum workholding
Tunnel ventilation
Garment pressing steam extraction

EXPLODED VIEW



No.	PART	No.	PART	No.	PART	No.	PART
1	Pump cover	6	Base plate	11	Silencer pipe	16	Motor housing
2	Impeller	7	Oil seal	12	Connector (flange)	17	Motor end cover
3	Pump body	8	Gasket	13	Rotor	18	Motor fan
4	Bearing	9	Silencer mesh	14	Motor	19	Motor back cover
5	Bearing seat	10	Silencer foam	15	Terminal box	20	Support tube

OPERATING PRINCIPLE



The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

The gas is taken in through inlet 1. As it enters side channel 2, the rotating impeller 3 accelerates the gas in the direction of rotation. Every rotation adds kinetic energy, while centrifugal force moves the gas outward through the impeller blades and raises its pressure.

The pressure rises further along the side channel. The side channel narrows at the rotor, sweeping the gas off the impeller blades and discharging it through outlet silencer 4, where it exits the side channel blower.

RANGE CHARACTERISTICS

Power	0.25 – 0.37 kW
Max. flow	up to 60 m ³ /h
Max. pressure	up to 16 kPa
Max. vacuum	up to 11 kPa
Speed	$n \approx 2800$ /min
Noise	< 56 dB

MODEL CODE

GB-250 · GB-370

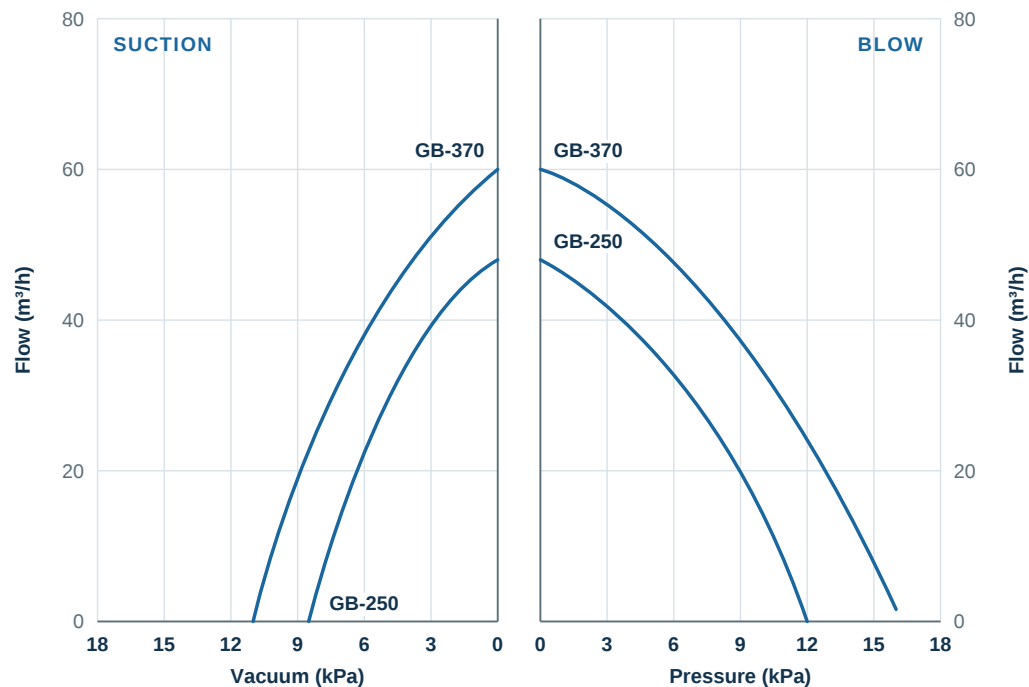
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
–	GB-250	0.25	0.33	–	2.5	48	12	8.5	< 56
–	GB-370	0.37	0.5	–	3.5	60	16	11	< 56

Rated current at 220 V (1~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	0.55 – 0.75 kW
Max. flow	up to 145 m ³ /h
Max. pressure	up to 22 kPa
Max. vacuum	up to 18 kPa
Speed	$n \approx 2800$ /min
Noise	< 60 dB

MODEL CODE

GB-550S · GB-750S

Three-phase 3~ 380–415 V

GB-550 · GB-750

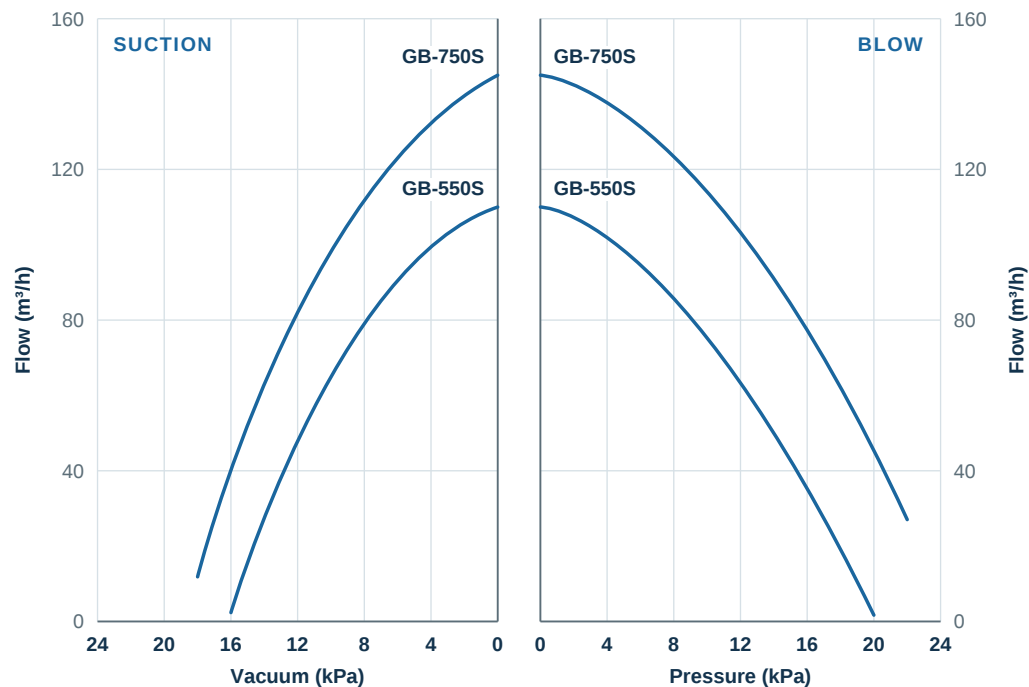
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
GB-550S	GB-550	0.55	0.75	1.45	4.8	110	20	16	< 60
GB-750S	GB-750	0.75	1	1.81	6.3	145	22	18	< 60

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	1.1 – 1.5 kW
Max. flow	up to 220 m ³ /h
Max. pressure	up to 26 kPa
Max. vacuum	up to 21 kPa
Speed	$n \approx 2800$ /min
Noise	< 60 dB

MODEL CODE

GB-1100S · GB-1500S

Three-phase 3~ 380–415 V

GB-1100 · GB-1500

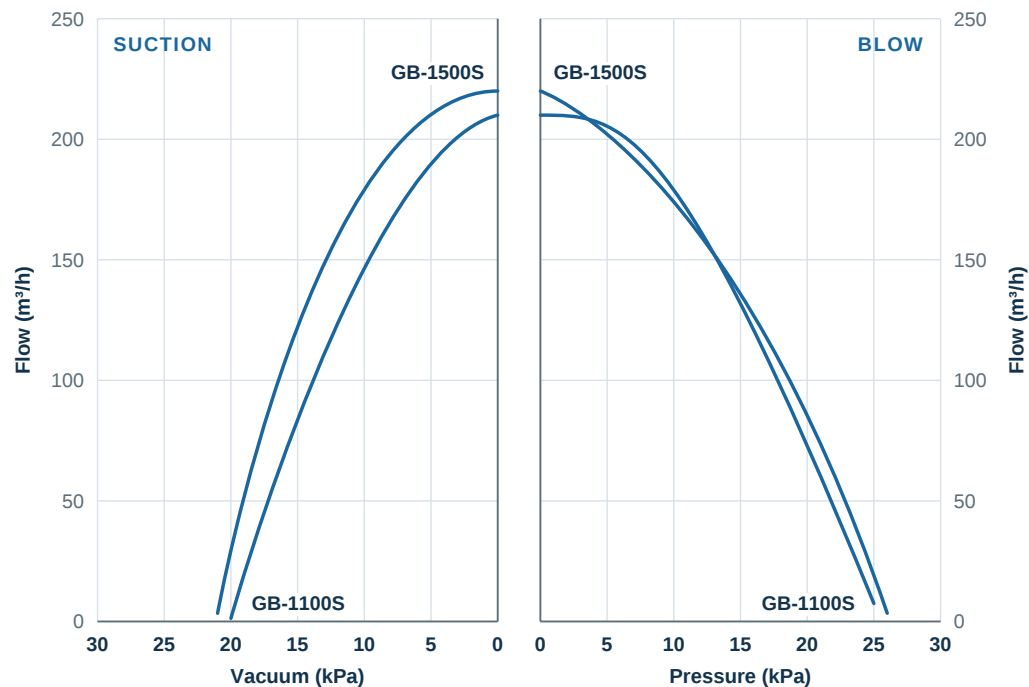
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
GB-1100S	GB-1100	1.1	1.5	2.52	8.7	210	25	20	< 60
GB-1500S	GB-1500	1.5	2	3.44	11.8	220	26	21	< 60

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	2.2 kW
Max. flow	up to 325 m³/h
Max. pressure	up to 36 kPa
Max. vacuum	up to 28 kPa
Speed	$n \approx 2800$ /min
Noise	< 70 dB

MODEL CODE

GB-2200S

Three-phase 3~ 380–415 V

GB-2200

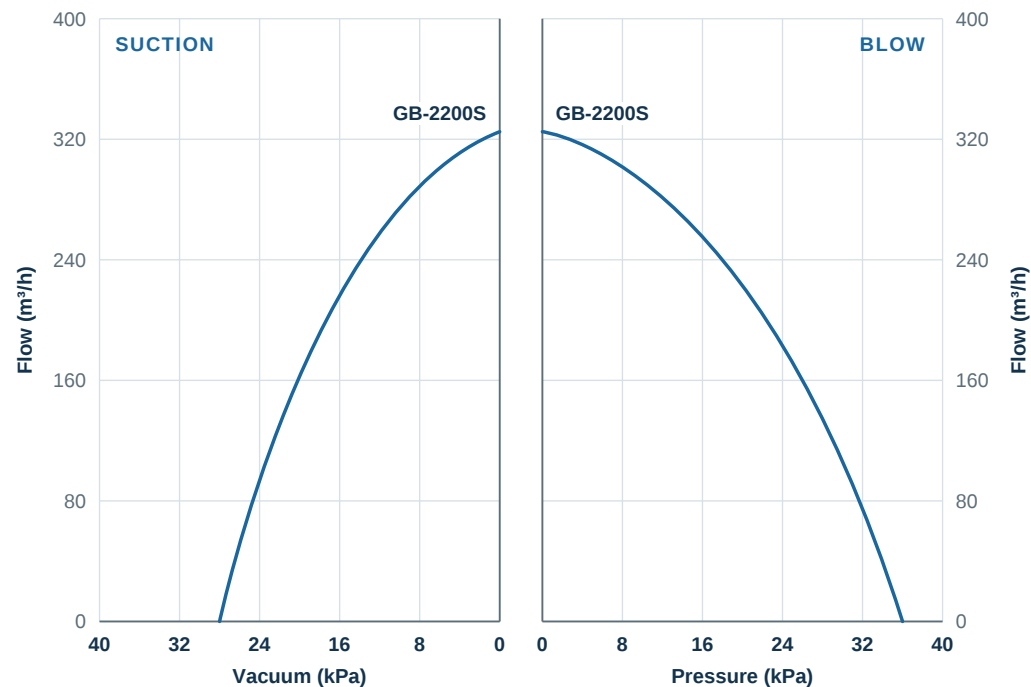
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-2200S	GB-2200	2.2	3	4.92	14.8	325	36	28	< 70

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	3 – 4 kW
Max. flow	up to 475 m ³ /h
Max. pressure	up to 38 kPa
Max. vacuum	up to 30 kPa
Speed	$n \approx 2800$ /min
Noise	< 70 dB

MODEL CODE

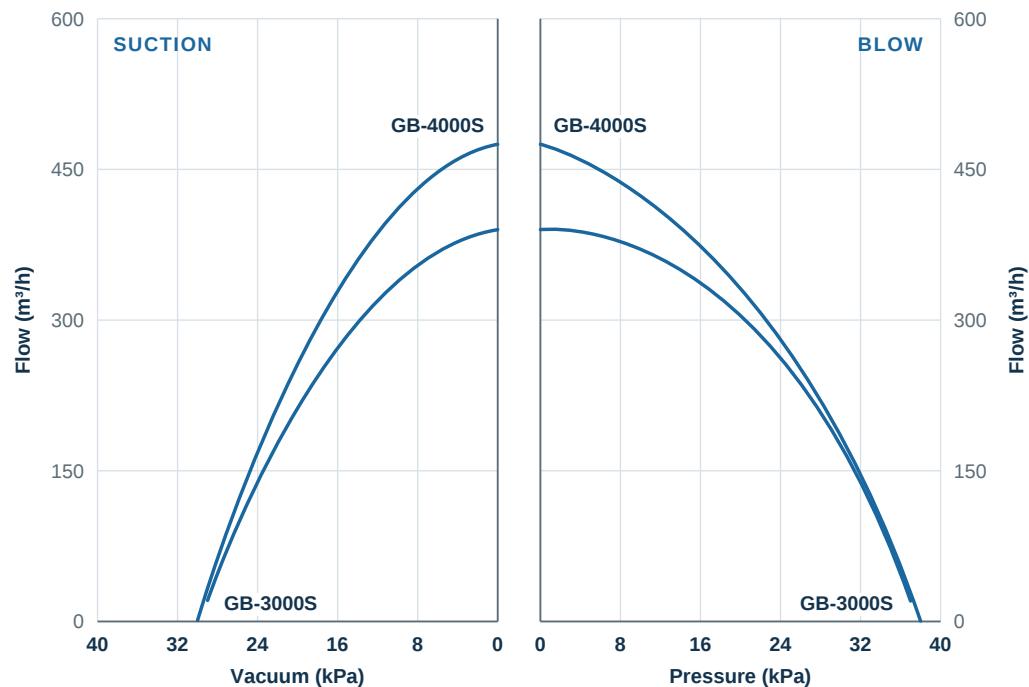
GB-3000S · GB-4000S
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
GB-3000S	–	3	4	6.39	–	390	37	29	< 70
GB-4000S	–	4	5.5	8.17	–	475	38	30	< 70

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	5.5 – 7.5 kW
Max. flow	up to 550 m ³ /h
Max. pressure	up to 45 kPa
Max. vacuum	up to 35 kPa
Speed	$n \approx 2800$ /min
Noise	< 70 dB

MODEL CODE

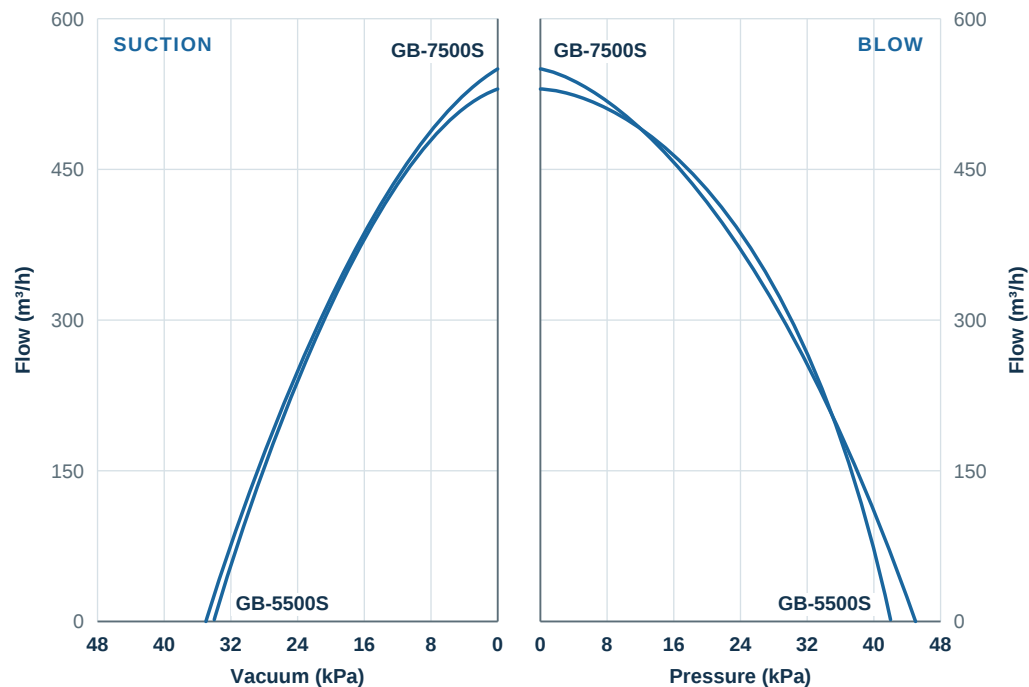
GB-5500S · GB-7500S
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-5500S	–	5.5	7.5	11.1	–	530	42	34	< 70
GB-7500S	–	7.5	10	15	–	550	45	35	< 70

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	9.5 – 11 kW
Max. flow	up to 1050 m ³ /h
Max. pressure	up to 75 kPa
Max. vacuum	up to 40 kPa
Speed	$n \approx 2800$ /min
Noise	< 70 dB

MODEL CODE

GB-9500S · GB-11000S

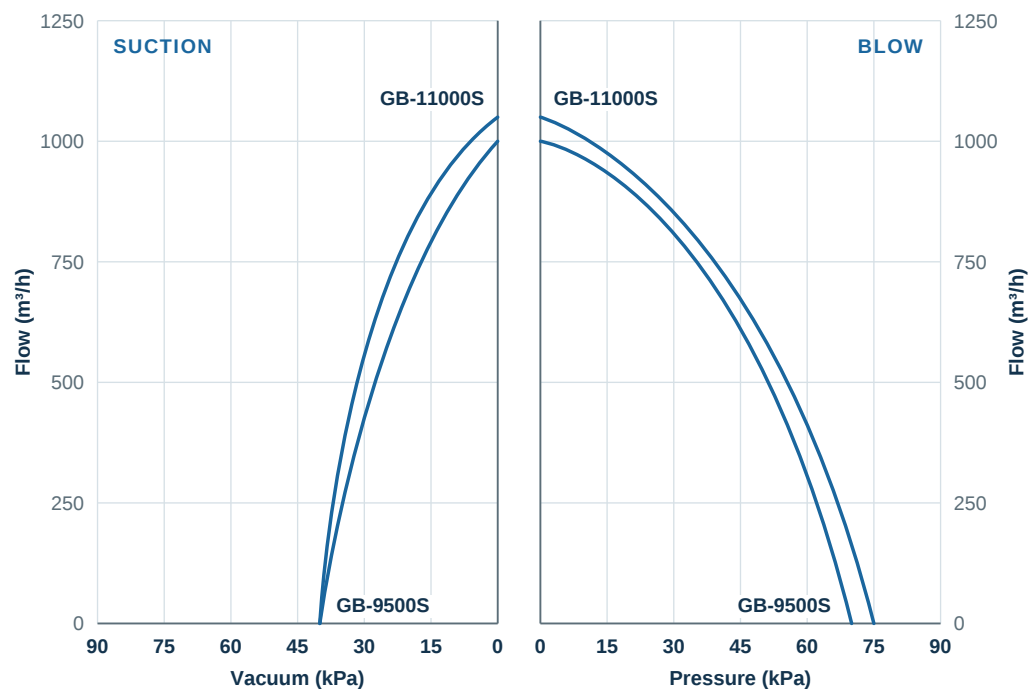
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
GB-9500S	–	9.5	12.5	18	–	1000	70	40	< 70
GB-11000S	–	11	15	21	–	1050	75	40	< 70

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	15 – 18 kW
Max. flow	up to 1050 m ³ /h
Max. pressure	up to 79 kPa
Max. vacuum	up to 40 kPa
Speed	$n \approx 2800$ /min
Noise	< 70 dB

MODEL CODE

GB-15000S · GB-18000S

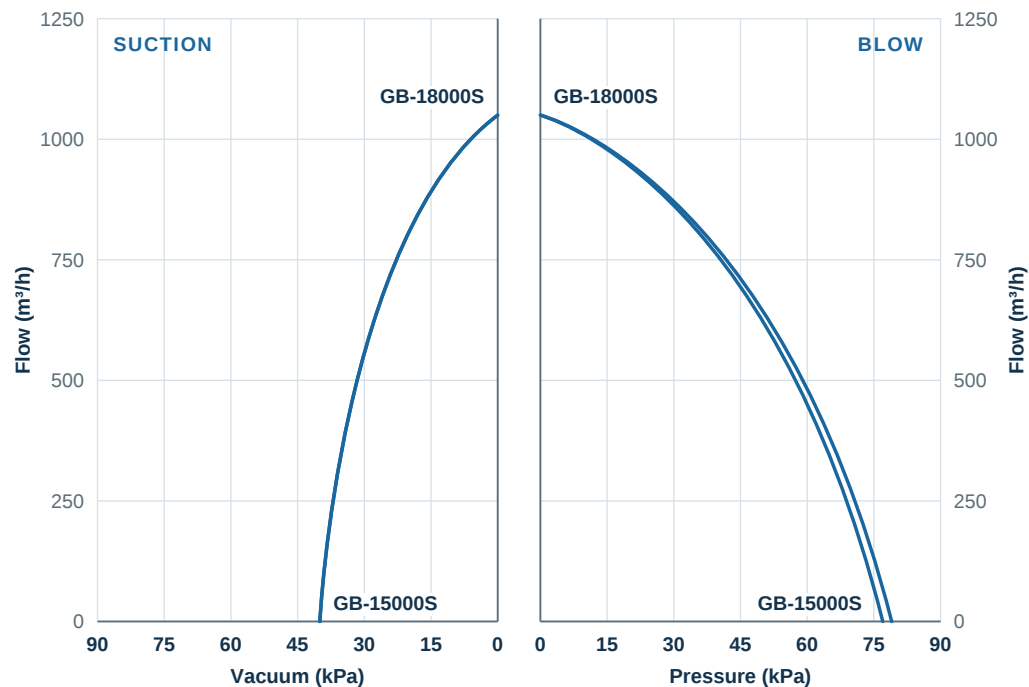
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m ³ /h	kPa	kPa	dB
GB-15000S	–	15	20	28	–	1050	77	40	< 70
GB-18000S	–	18	24	34	–	1050	79	40	< 70

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	0.55 – 0.75 kW
Max. flow	up to 88 m³/h
Max. pressure	up to 31 kPa
Max. vacuum	up to 25 kPa
Noise	< 60 dB

MODEL CODE

GB-550S/2 · GB-750S/2

Three-phase 3~ 380–415 V

GB-550/2 · GB-750/2

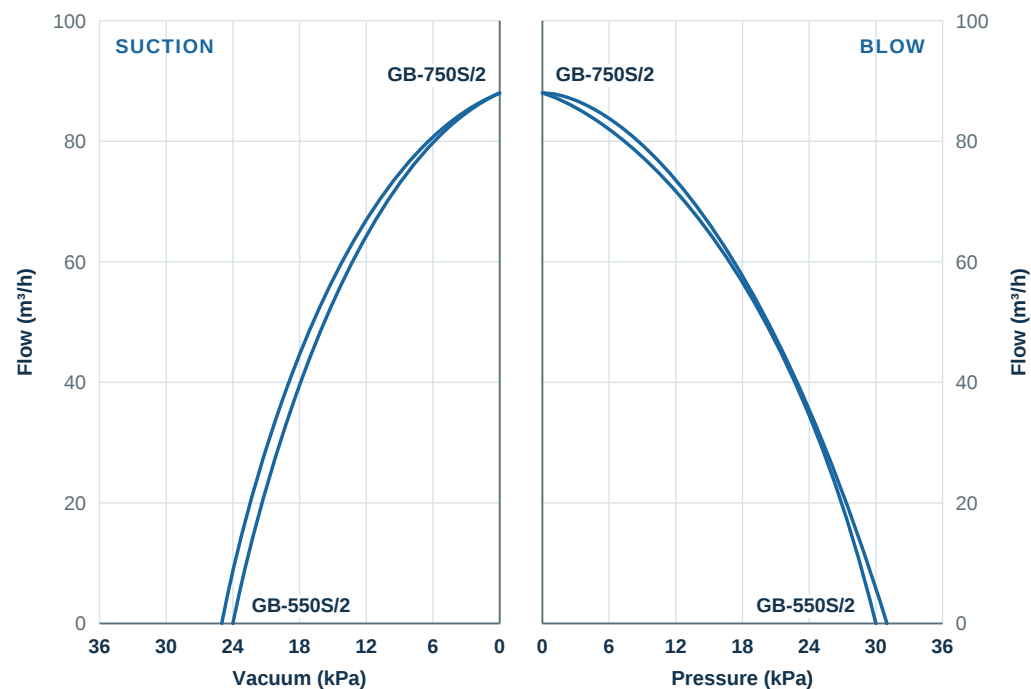
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



Curves GB-550S/2 / GB-750S/2 also apply to GB-550/2 / GB-750/2 (1~).

TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-550S/2	GB-550/2	0.55	0.75	2.2	4.8	88	30	24	< 60
GB-750S/2	GB-750/2	0.75	1	2.4	6.1	88	31	25	< 60

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	1.1 – 1.5 kW
Max. flow	up to 145 m³/h
Max. pressure	up to 38 kPa
Max. vacuum	up to 31 kPa
Noise	< 60 dB

MODEL CODE

GB-1100S/2 · GB-1500S/2

Three-phase 3~ 380–415 V

GB-1100/2 · GB-1500/2

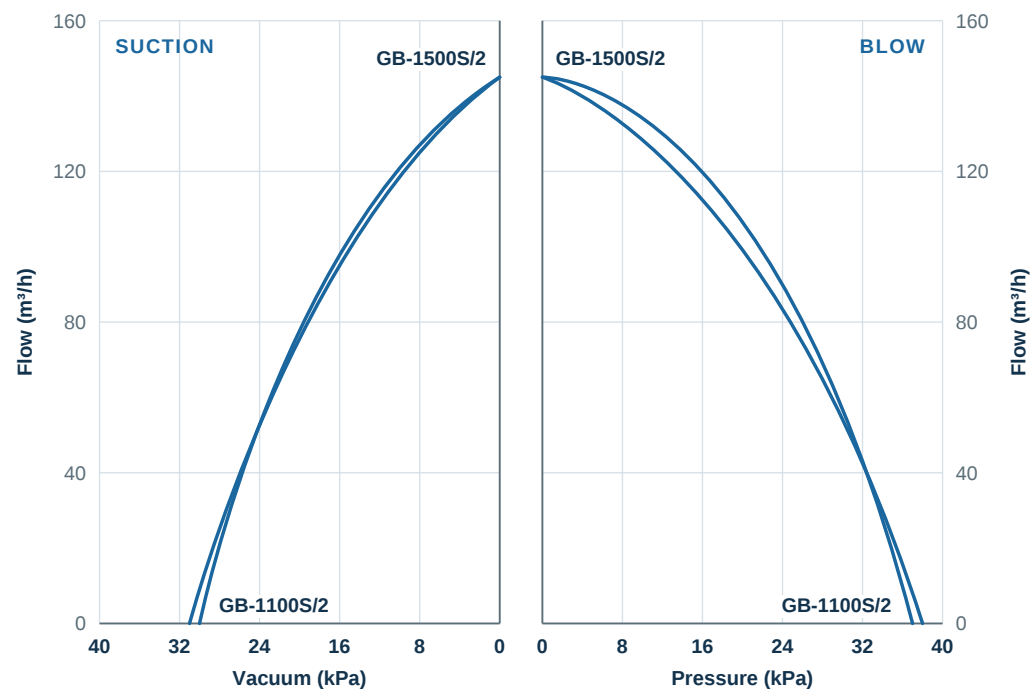
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



Curves GB-1100S/2 / GB-1500S/2 also apply to GB-1100/2 / GB-1500/2 (1~).

TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-1100S/2	GB-1100/2	1.1	1.5	3.3	8.4	145	37	30	< 60
GB-1500S/2	GB-1500/2	1.5	2	4.3	11	145	38	31	< 60

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	2.2 – 3 kW
Max. flow	up to 220 m³/h
Max. pressure	up to 44 kPa
Max. vacuum	up to 43 kPa
Noise	< 70 dB

MODEL CODE

GB-2200S/2 · GB-3000S/2

Three-phase 3~ 380–415 V

GB-2200/2

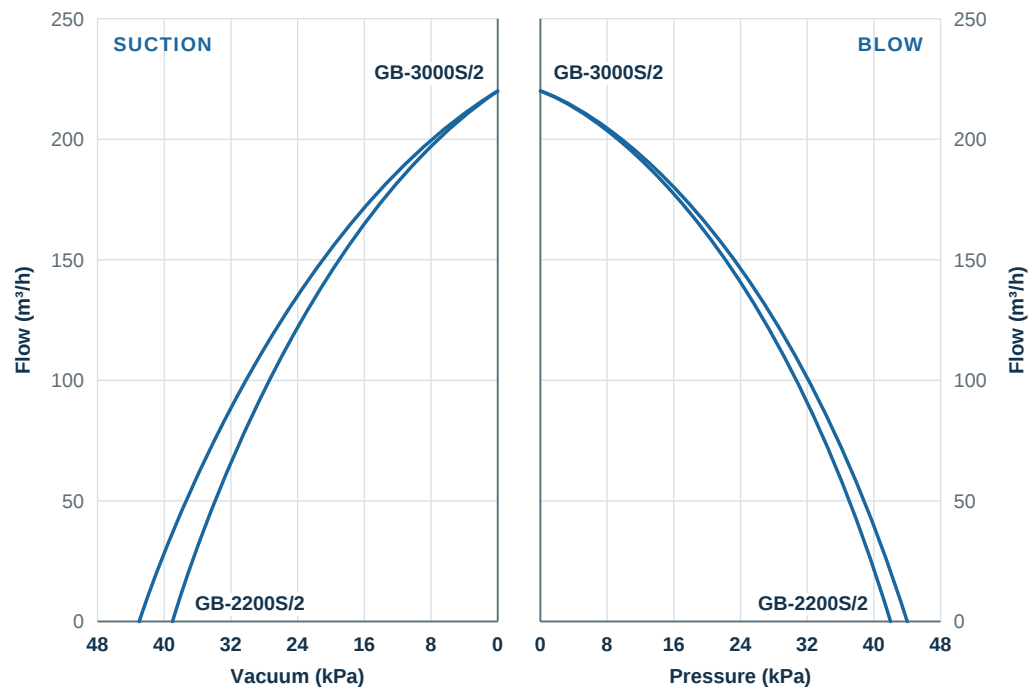
Single-phase 1~ 220–240 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



Curves GB-2200S/2 also apply to GB-2200/2 (1~).

TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-2200S/2	GB-2200/2	2.2	3	5.6	15.5	220	42	39	< 70
GB-3000S/2	–	3	4	7.2	–	220	44	43	< 70

Rated current at 220 V (1~) and 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	4 – 5.5 kW
Max. flow	up to 325 m³/h
Max. pressure	up to 63 kPa
Max. vacuum	up to 48 kPa
Noise	< 70 dB

MODEL CODE

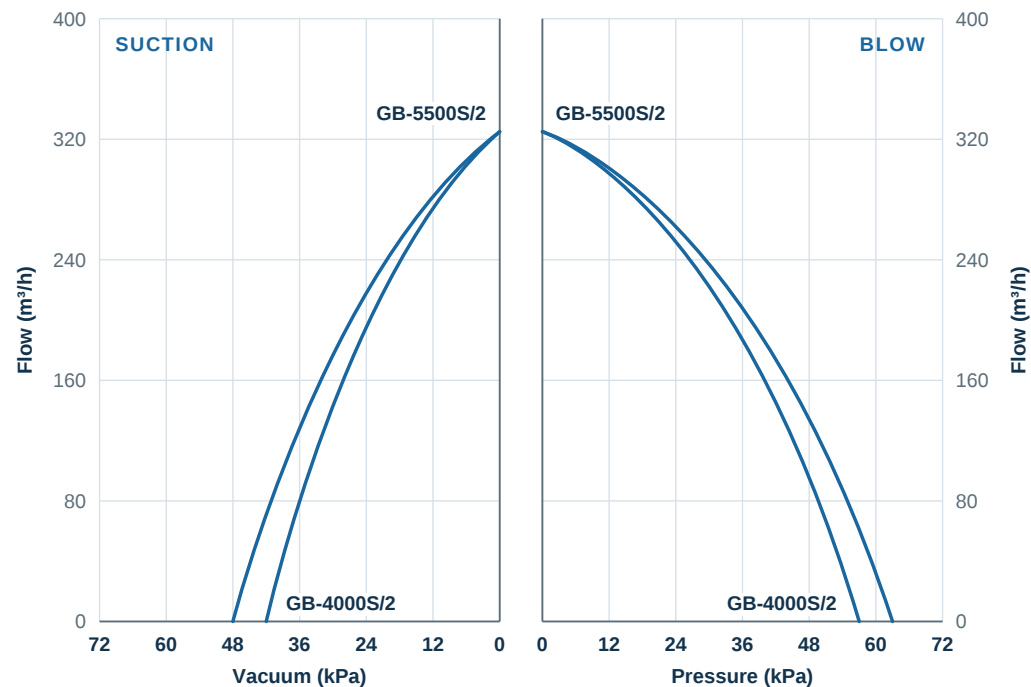
GB-4000S/2 · GB-5500S/2
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-4000S/2	–	4	5.5	9	–	325	57	42	< 70
GB-5500S/2	–	5.5	7.5	13.3	–	325	63	48	< 70

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	7.5 – 9.5 kW
Max. flow	up to 520 m³/h
Max. pressure	up to 70 kPa
Max. vacuum	up to 55 kPa
Noise	< 80 dB

MODEL CODE

GB-7500S/2 · GB-9500S/2

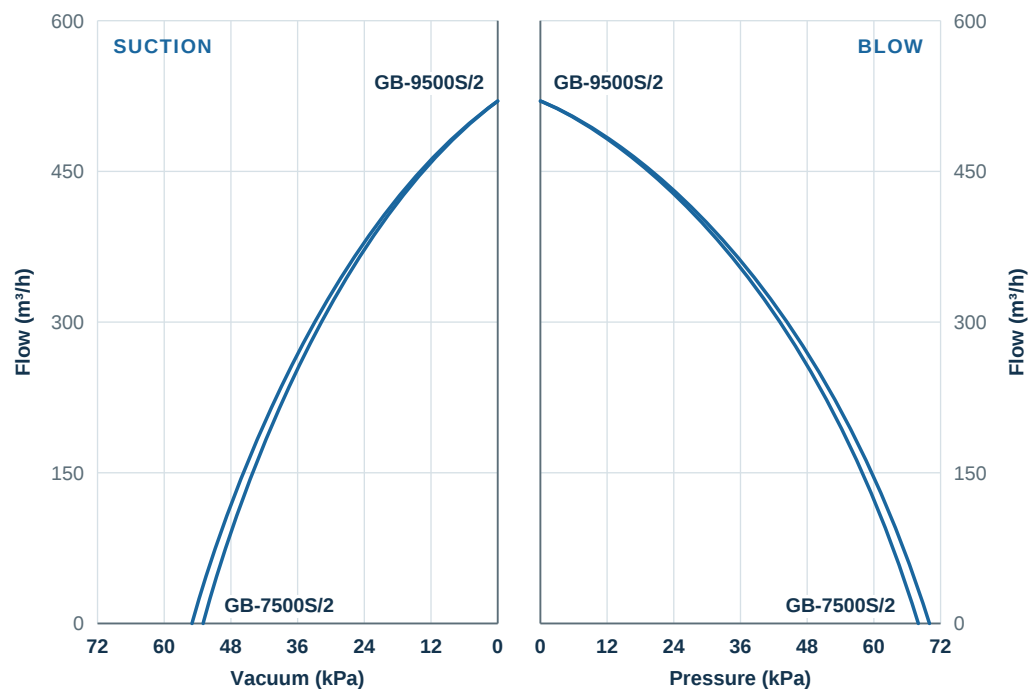
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-7500S/2	–	7.5	10	16.7	–	520	68	53	< 80
GB-9500S/2	–	9.5	12.5	17.3	–	520	70	55	< 80

Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

Performance curves of the GB Series vortex air pumps are for reference only and are not a basis for testing.

RANGE CHARACTERISTICS

Power	11 – 15 kW
Max. flow	up to 560 m³/h
Max. pressure	up to 72 kPa
Max. vacuum	up to 57 kPa
Noise	< 80 dB

MODEL CODE

GB-11000S/2 · GB-15000S/2

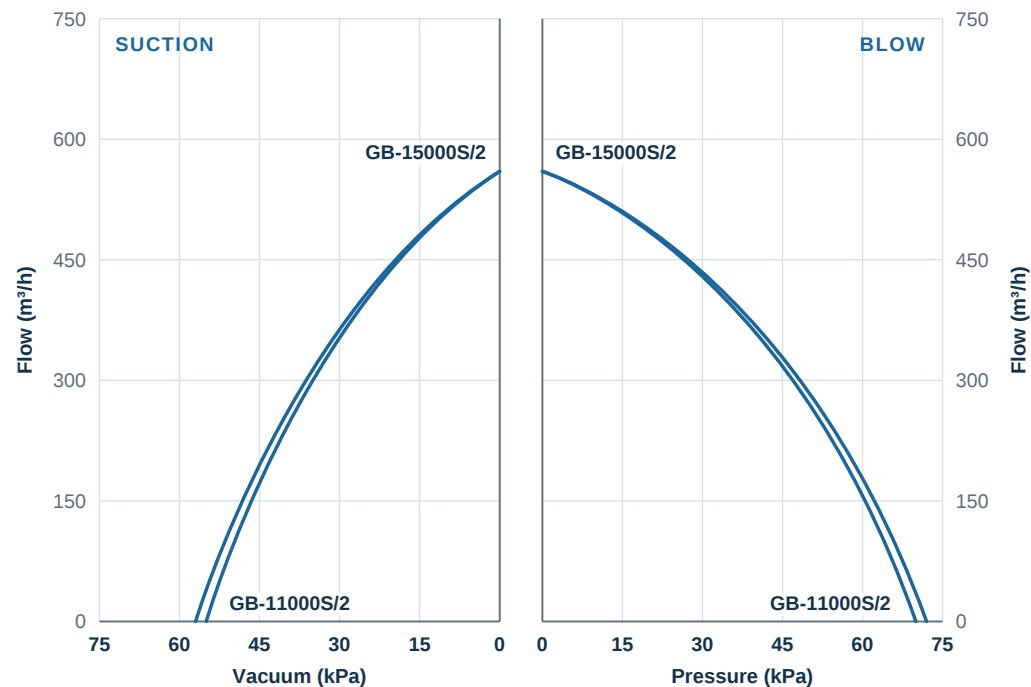
Three-phase 3~ 380–415 V

FREQUENCY

50 Hz



PERFORMANCE CURVES



TECHNICAL DATA

MODEL		POWER		RATED CURRENT (A)		MAX. FLOW	MAX. PRESSURE	MAX. VACUUM	NOISE
3~ 380–415 V	1~ 220–240 V	kW	HP	3~	1~	m³/h	kPa	kPa	dB
GB-11000S/2	–	11	15	21.5	–	560	70	55	< 80
GB-15000S/2	–	15	20	32.5	–	560	72	57	< 80

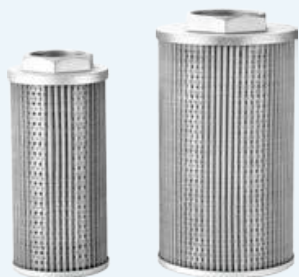
Rated current at 380 V (3~).

OPERATING PRINCIPLE

The impellers are mounted directly on the motor shaft for compression without contact or friction. Maximum operational reliability, even at high differential pressure, is ensured by bearings located outside the compression chamber.

NOTE

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CARTRIDGE FILTER



MESH FILTER CAP



RELIEF VALVE



DISTRIBUTOR



SILENCER



FILTER HOUSING



AIR KNIFE



FILTER + PIPE



PIPE



ELBOW PIPE