

COBRA BC 0601-1200 A/G

Dry screw vacuum pumps



VACUUM SOLUTIONS

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High performance

Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, integrated vacuum booster, perfectly suited for cold atomic layer deposition processes, load lock and transfer chambers, metrology, lithography, physical vapor deposition, rapid thermal annealing and etching processes like oxide, silicon and metal

Efficient

Low cost of ownership, minimal maintenance, long service intervals, high uptime, direct water cooling

Compact

Fit-in-place design, directly mounted canned motor, backing pump and vacuum booster combined on a compact base frame

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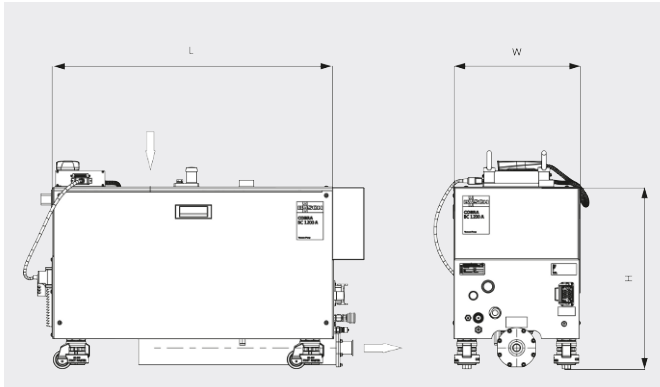
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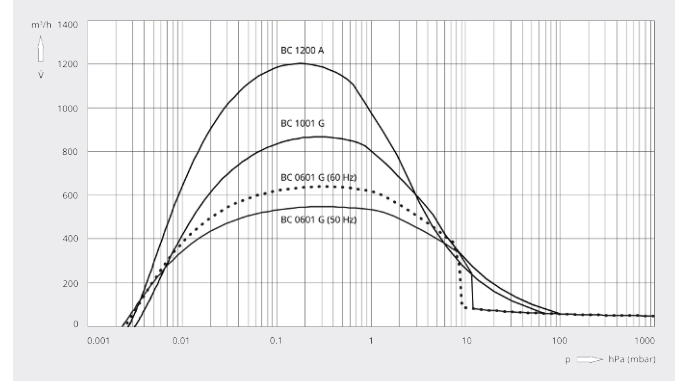
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: ± 10%

— 50 Hz 60 Hz



	COBRA BC 0601 G	COBRA BC 1001 G	COBRA BC 1200 A
Nominal pumping speed	550 / 640 m³/h (50 / 60 Hz)	870 m³/h (50 / 60 Hz)	1200 m³/h (50 / 60 Hz)
Ultimate pressure	0.003 hPa (mbar) (50 / 60 Hz)	0.003 hPa (mbar) (50 / 60 Hz)	0.003 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	1.5 kW (50 / 60 Hz)	1.5 kW (50 / 60 Hz)	1.5 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	1.5 kW (50 / 60 Hz)	2.9 kW (50 / 60 Hz)	4.0 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	1.25 / 1.35 kW (50 / 60 Hz)	1.7 / 1.2 kW (50 / 60 Hz)	1.9 / 1.3 kW (50 / 60 Hz)
Nominal motor speed backing pump	3000 min ⁻¹ (50 / 60 Hz)	3000 min ⁻¹ (50 / 60 Hz)	3000 min ⁻¹ (50 / 60 Hz)
Nominal motor speed vacuum booster	3000 / 3600 min ⁻¹ (50 / 60 Hz)	5400 min ⁻¹ (50 / 60 Hz)	5400 min ⁻¹ (50 / 60 Hz)
Sound pressure level (ISO 2151), KpA = 3 dB	60 dB(A) (50 / 60 Hz)	60 dB(A) (50 / 60 Hz)	60 dB(A) (50 / 60 Hz)
Water consumption	min. 3.0 – 4.0 l/min	min. 3.0 – 4.0 l/min	min. 4.0 – 5.0 l/min
Nitrogen consumption	0 – 70 l/min	0 – 70 l/min	0 – 200 l/min
Weight approx.	320 kg	310 kg	360 kg
Dimensions (L x W x H)	905 x 354 x 660 mm	1054 x 425 x 615 mm	1054 x 425 x 615 mm
Gas inlet / outlet	DN 63 ISO-K / DN 40 ISO-KF	DN 100 ISO-K / DN 40 ISO-KF	DN 160 ISO-K / DN 40 ISO-KF

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