COBRA

Screw Vacuum Pump
BA 0100 C

The COBRA BA 0100 C is the proven dry screw vacuum pump for the evacuation of load-lock chambers and other demanding processes involved in the production of photovoltaic cells, flat screens and semiconductors. With its efficient air cooling and the highest pumping speed in its performance class, this vacuum pump is ideal for all applications requiring effective, fast and reliable vacuum generation. COBRA vacuum pumps are oil-free and non-contacting, allowing particle-laden media to be evacuated.

The COBRA BA 0100 C is fitted with a highly efficient motor featuring a stand-by mode, thus offering optimum energy-saving potential.

The compact construction of the COBRA BA 0100 C requires very little space and its extremely low energy requirements keep operating costs to a minimum.

Applications

- High-density plasma CVD (HDP CVD)
- Rapid thermal processing (RTP)
- Sub-atmospheric CVD (SACVD)
- Metal-organic CVD (MOCVD)
- Plasma-enhanced CVD (PECVD)
- Low-pressure CVD (LPCVD)
- Atomic layer deposition (ALD)
- Load-lock applications

COBRA – the next level of high capacity harsh duty vacuum pumps.

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Technical specifications

The COBRA BA 0100 C is a one-stage, twin-shaft screw vacuum pump. Two screw rotors revolve inside the cylinder, trapping and compressing the pumping medium, which is transported to the gas outlet. During the compression process the screw rotors do not make contact with each other or the cylinder, so lubricants and thus operating fluids in the compression chamber are not required.

The latest development of the screw design features a cantilevered rotor arrangement, which dramatically reduces energy consumption and prevents high gas temperatures during compression. The COBRA BA 0100 C incorporates effective air cooling as standard.

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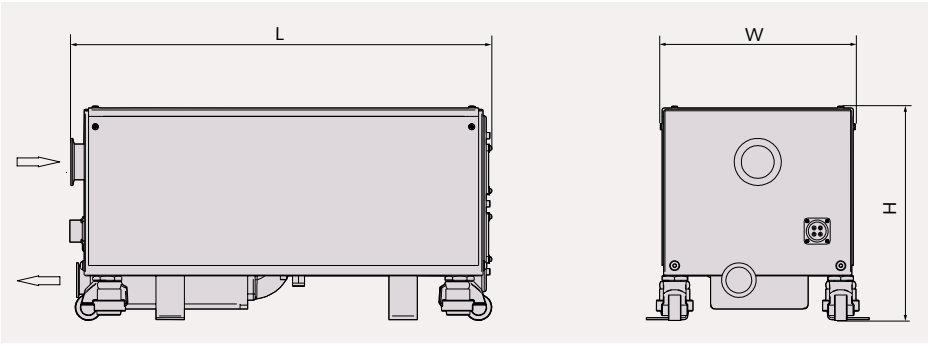
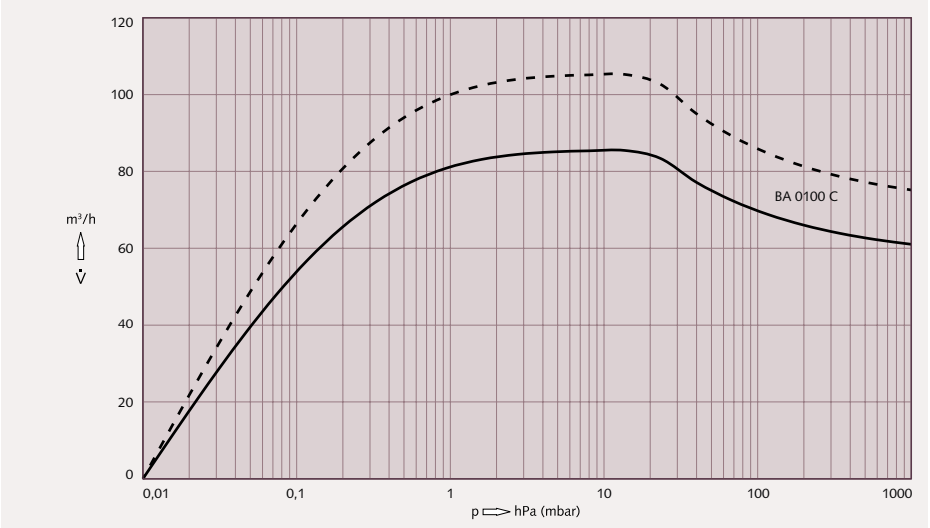


Pumping speed

Air at 20 °C. Tolerance: ± 10% —— 50 Hz ----- 60 Hz



Technical Data			BA 0100 C
Nominal pumping speed	50 Hz / 60 Hz	m³/h	85 / 105
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	0.01
Nominal motor rating	50 Hz / 60 Hz	kW	1.8
Power consumption at ultimate pressure	50 Hz / 60 Hz	kW	1.1
Nominal motor speed	50 Hz / 60 Hz	min^{-1}	3000 / 3600
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	58
Nitrogen consumption		l/min	0 - 50
Weight approx.		kg	120
Dimensions (L x W x H)		mm	634 x 304 x 338
Gas inlet / outlet			DN 50 KF / DN 40 KF

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