

COBRA DS 3010/3161 C/G

Dry screw vacuum pumps



High performance

Advanced screw design, excellent running qualities, integrated vacuum booster, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient

Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact

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

Accessories

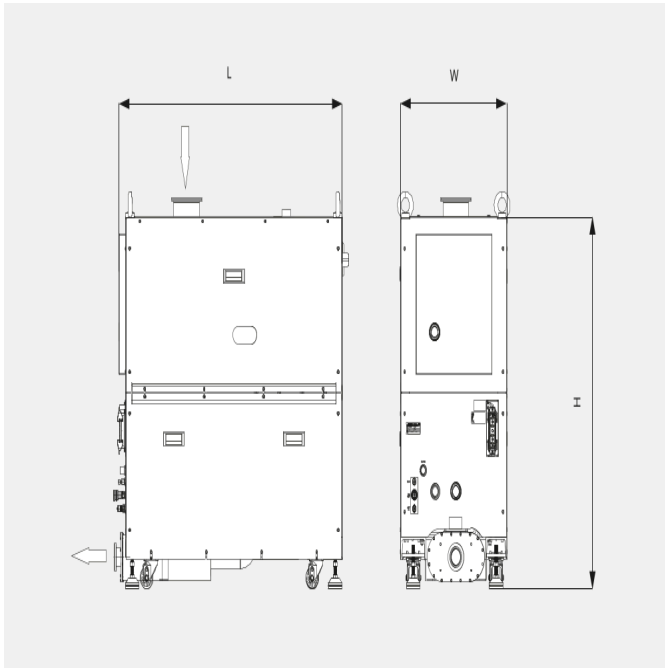
- Optional powder process version available (only for DS 3010 G and DS 3161 C)
- Optional tantal coating

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Dimensional drawing



Pumping speed

Air at 20 °C. Tolerance: $\pm 10\%$

The following technical values refer to ISO 50 Hz

	COBRA DS 3010 G	COBRA DS 3161 C
Nominal pumping speed	3200 m ³ /h	3200 m ³ /h
Ultimate pressure	0.001 hPa (mbar)	0.001 hPa (mbar)
Nominal motor rating backing pump	15 kW	15 kW
Nominal motor rating vacuum booster	15 kW	15 kW
Power consumption at ultimate pressure	11.8 kW	11.8 kW
Power consumption idle mode	9.9 kW	9.9 kW
Nominal motor speed backing pump	3000 min ⁻¹	3000 min ⁻¹
Nominal motor speed vacuum booster	4500 min ⁻¹	4500 min ⁻¹
Sound pressure level (ISO 2151), KpA = 3 dB	< 75 dB(A)	< 75 dB(A)
Water consumption	10 l/min	10 l/min

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	COBRA DS 3010 G	COBRA DS 3161 C
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min
Weight approx.	1500 kg	1375 kg
Dimensions (L x W x H)	1420 x 722 x 1452 mm	1316 x 633 x 1249 mm
Gas inlet	DN 160	DN 160
Gas outlet	DN 63	DN 63

The following technical values refer to ISO 60 Hz

	COBRA DS 3010 G	COBRA DS 3161 C
Nominal pumping speed	3200 m ³ /h	3200 m ³ /h
Ultimate pressure	0.001 hPa (mbar)	0.001 hPa (mbar)
Nominal motor rating backing pump	15 kW	15 kW
Nominal motor rating vacuum booster	15 kW	15 kW
Power consumption at ultimate pressure	11.8 kW	11.8 kW
Power consumption idle mode	9.9 kW	9.9 kW
Nominal motor speed backing pump	3600 min ⁻¹	3600 min ⁻¹
Nominal motor speed vacuum booster	5400 min ⁻¹	5400 min ⁻¹
Sound pressure level (ISO 2151), KpA = 3 dB	< 75 dB(A)	< 75 dB(A)
Water consumption	10 l/min	10 l/min
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min
Weight approx.	1500 kg	1375 kg
Dimensions (L x W x H)	1420 x 722 x 1452 mm	1316 x 633 x 1249 mm
Gas inlet	DN 160	DN 160
Gas outlet	DN 63	DN 63