

COBRA DS 5161-9161 A/B/F

Dry screw vacuum pumps



VACUUM SOLUTIONS



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

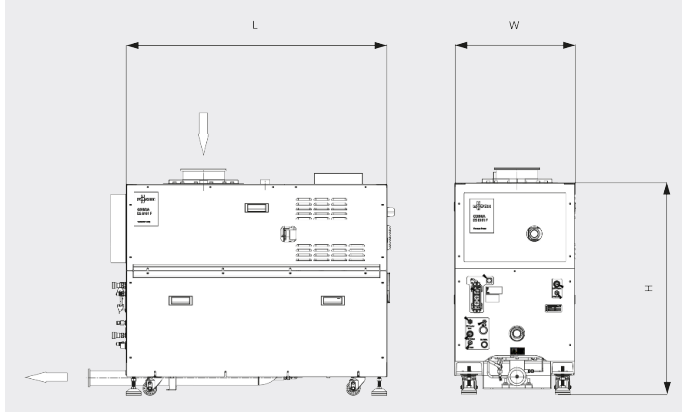
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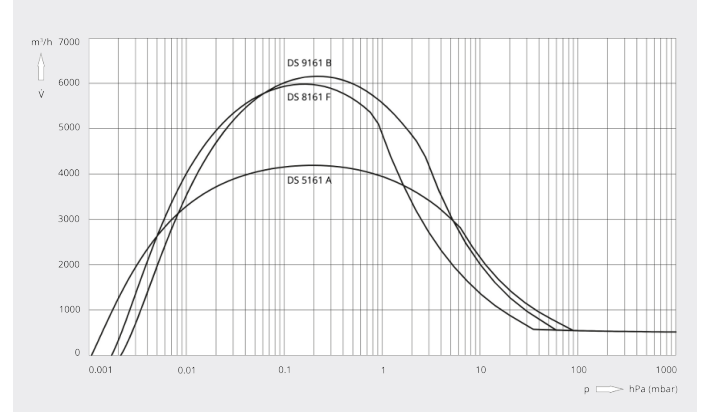
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Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: ± 10%



	COBRA DS 5161 A	COBRA DS 8161 F	COBRA DS 9161 B
Nominal pumping speed	4200 m³/h (50 / 60 Hz)	6000 m³/h (50 / 60 Hz)	6160 m³/h (50 / 60 Hz)
Ultimate pressure	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	15 kW (50 / 60 Hz)	20 kW (50 / 60 Hz)	20 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	12.5 / 10 kW (50 / 60 Hz)	13 / 11 kW (50 / 60 Hz)	13 / 11 kW (50 / 60 Hz)
Nominal motor speed backing pump	3600 min ⁻¹ (50 / 60 Hz)	3600 min ⁻¹ (50 / 60 Hz)	3600 min ⁻¹ (50 / 60 Hz)
Nominal motor speed vacuum booster	3600 min ⁻¹ (50 / 60 Hz)	5400 min ⁻¹ (50 / 60 Hz)	3600 min ⁻¹ (50 / 60 Hz)
Noise level (ISO 2151)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)
Water consumption	min. 12 l/min	min. 13 l/min	min. 13 l/min
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min	0 – 200 l/min
Weight approx.	1440 kg	1350 kg	1800 kg

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	COBRA DS 5161 A	COBRA DS 8161 F	COBRA DS 9161 B
Dimensions (L x W x H)	1550 x 723 x 1452 mm	1441 x 627 x 1100 mm	1567 x 810 x 1615 mm
Gas inlet / outlet	DN 250 / DN 63	DN 200 / DN 63	DN 200 / DN 63

DO YOU WANT TO KNOW MORE?

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