

COBRA DS 5161–9161 B/F

Dry screw vacuum pumps



Discover all advantages of
the product series COBRA
DS

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

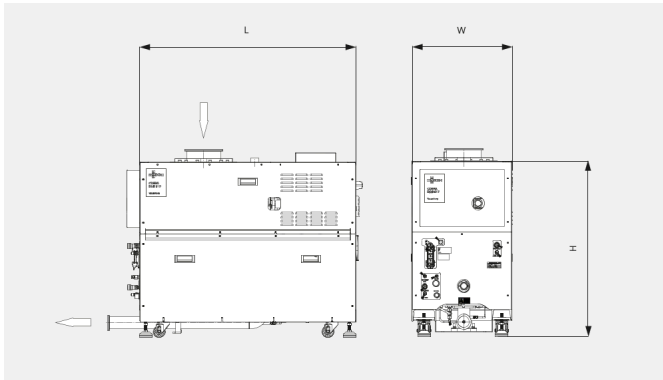
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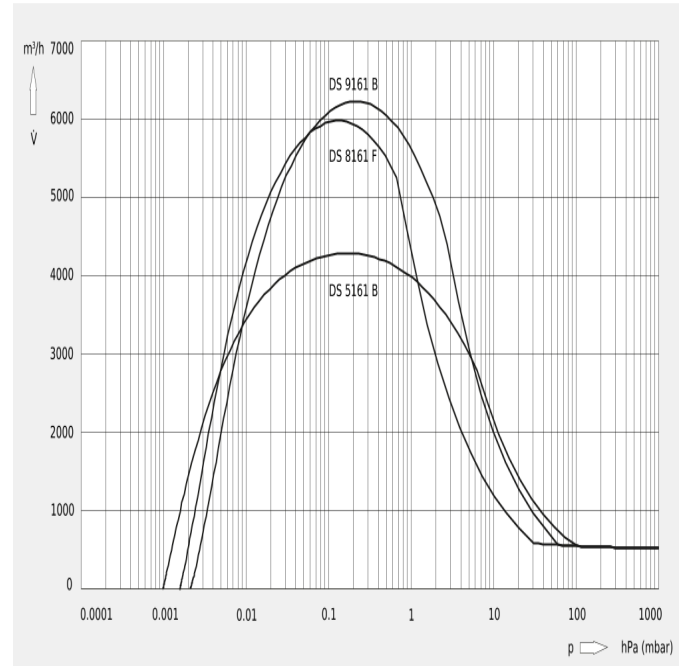
VACUUM SOLUTIONS

Dimensional drawing



Pumping speed

Air at 20 °C. Tolerance: ± 10%



The following technical values refer to ISO 50 Hz

	COBRA DS 5161 B	COBRA DS 8161 F	COBRA DS 9161 B
Nominal pumping speed	4300 m³/h	6000 m³/h	6220 m³/h
Ultimate pressure	0.001 hPa (mbar)	0.001 hPa (mbar)	0.001 hPa (mbar)
Nominal motor rating backing pump	15 kW	15 kW	15 kW
Nominal motor rating vacuum booster	15 kW	15 kW	20 kW
Power consumption at ultimate pressure	11.5 kW	11.5 kW	13 kW
Power consumption idle mode	9 kW	9 kW	11 kW
Nominal motor speed backing pump	3600 min ⁻¹	3600 min ⁻¹	3600 min ⁻¹
Nominal motor speed vacuum booster	3600 min ⁻¹	5400 min ⁻¹	3600 min ⁻¹
Sound pressure level (ISO 2151)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)
Water consumption	15 l/min	15 l/min	14 l/min

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	COBRA DS 5161 B	COBRA DS 8161 F	COBRA DS 9161 B
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min	0 – 200 l/min
Weight approx.	1500 kg	1500 kg	1875 kg
Dimensions (L x W x H)	1550 x 722 x 1452 mm	1441 x 627 x 1100 mm	1567 x 810 x 1615 mm
Gas inlet	DN 200	DN 200	DN 200
Gas outlet	DN 63	DN 63	DN 63

The following technical values refer to ISO 60 Hz

	COBRA DS 5161 B	COBRA DS 8161 F	COBRA DS 9161 B
Nominal pumping speed	4300 m ³ /h	6000 m ³ /h	6220 m ³ /h
Ultimate pressure	0.001 hPa (mbar)	0.001 hPa (mbar)	0.001 hPa (mbar)
Nominal motor rating backing pump	15 kW	15 kW	15 kW
Nominal motor rating vacuum booster	15 kW	15 kW	20 kW
Power consumption at ultimate pressure	11.5 kW	11.5 kW	13 kW
Power consumption idle mode	9 kW	9 kW	11 kW
Nominal motor speed backing pump	3600 min ⁻¹	3600 min ⁻¹	3600 min ⁻¹
Nominal motor speed vacuum booster	3600 min ⁻¹	5400 min ⁻¹	3600 min ⁻¹
Sound pressure level (ISO 2151)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)
Water consumption	15 l/min	15 l/min	14 l/min
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min	0 – 200 l/min
Weight approx.	1500 kg	1500 kg	1875 kg
Dimensions (L x W x H)	1550 x 722 x 1452 mm	1441 x 627 x 1100 mm	1567 x 810 x 1615 mm
Gas inlet	DN 200	DN 200	DN 200
Gas outlet	DN 63	DN 63	DN 63

DO YOU WANT TO KNOW MORE

Please contact us!
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