

# 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

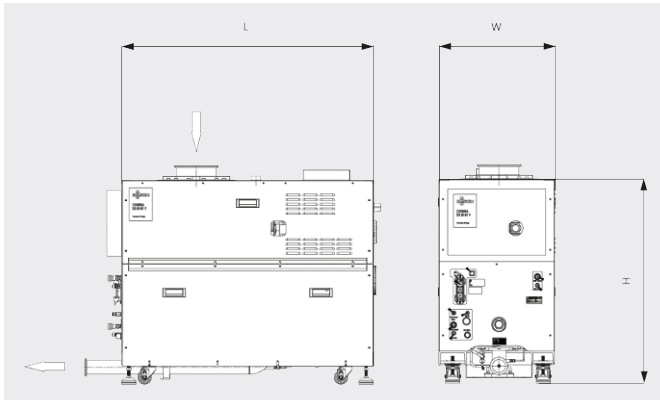
Fit-in-place design, directly mounted canned motor

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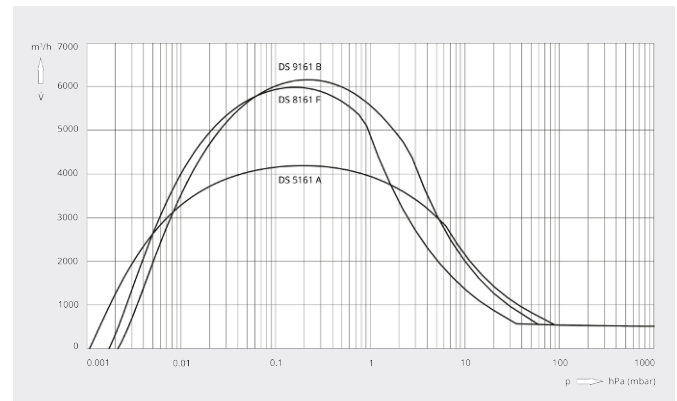
Dry screw vacuum pumps



Dimensional drawing



Pumping speed  
Air at 20°C. Tolerance: ± 10%



	COBRA DS 5161 A	COBRA DS 8161 F	COBRA DS 9161 B
<b>Nominal pumping speed</b>	4200 m³/h (50 / 60 Hz)	6000 m³/h (50 / 60 Hz)	6160 m³/h (50 / 60 Hz)
<b>Ultimate pressure</b>	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)
<b>Nominal motor rating backing pump</b>	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)
<b>Nominal motor rating vacuum booster</b>	15 kW (50 / 60 Hz)	20 kW (50 / 60 Hz)	20 kW (50 / 60 Hz)
<b>Power consumption at ultimate pressure / idle mode</b>	12.5 / 10 kW (50 / 60 Hz)	13 / 11 kW (50 / 60 Hz)	13 / 11 kW (50 / 60 Hz)
<b>Nominal motor speed backing pump</b>	3600 min <sup>-1</sup> (50 / 60 Hz)	3600 min <sup>-1</sup> (50 / 60 Hz)	3600 min <sup>-1</sup> (50 / 60 Hz)
<b>Nominal motor speed vacuum booster</b>	3600 min <sup>-1</sup> (50 / 60 Hz)	5400 min <sup>-1</sup> (50 / 60 Hz)	3600 min <sup>-1</sup> (50 / 60 Hz)
<b>Noise level (ISO 2151)</b>	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)
<b>Water consumption</b>	min. 12 l/min	min. 13 l/min	min. 13 l/min
<b>Nitrogen consumption</b>	0 – 200 l/min	0 – 200 l/min	0 – 200 l/min
<b>Weight approx.</b>	1440 kg	1350 kg	1800 kg
<b>Dimensions (L x W x H)</b>	1550 x 723 x 1452 mm	1441 x 627 x 1100 mm	1567 x 810 x 1615 mm
<b>Gas inlet / outlet</b>	DN 250 / DN 63	DN 200 / DN 63	DN 200 / DN 63

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