

# 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

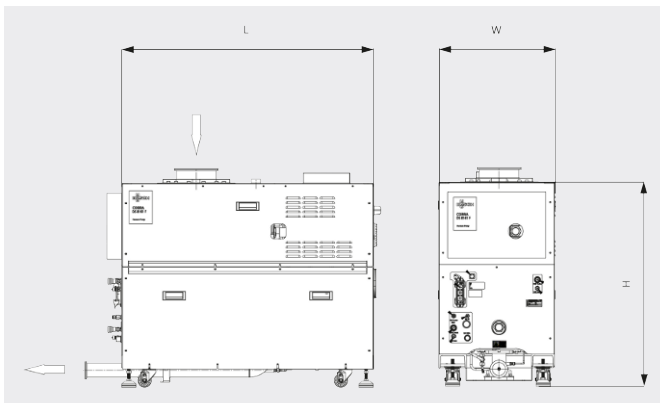
Fit-in-place design, directly mounted canned motor

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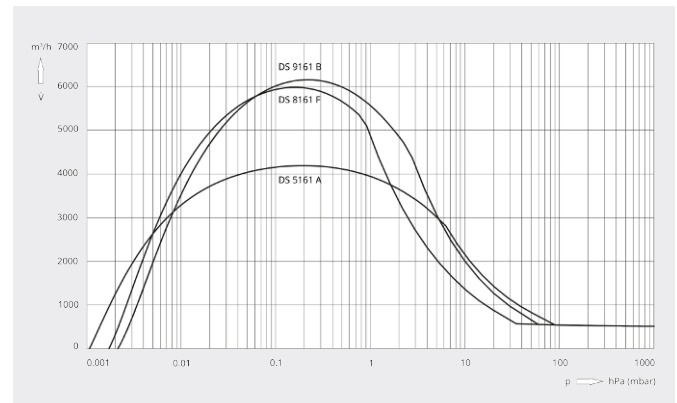
Dry screw vacuum pumps



Dimensional drawing



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



|  | COBRA DS 5161 A                     | COBRA DS 8161 F                     | COBRA DS 9161 B                     |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 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 <sup>-1</sup> (50 / 60 Hz) | 3600 min <sup>-1</sup> (50 / 60 Hz) | 3600 min <sup>-1</sup> (50 / 60 Hz) |
| Nominal motor speed vacuum booster                 | 3600 min <sup>-1</sup> (50 / 60 Hz) | 5400 min <sup>-1</sup> (50 / 60 Hz) | 3600 min <sup>-1</sup> (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                             |
| 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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