

COMBI BN

Vacuum Pump Units



VACUUM SOLUTIONS



Reliable

Vacuum pump units with robust and proven COBRA backing pumps enhanced by PANDA/PUMA vacuum boosters, reliable operation, minimal maintenance

High performance

High pumping speeds at low ultimate pressures, short pump-down time, higher energy efficiency compared to a single vacuum pump

Flexible

Various design options available, different combinations of backing pumps and vacuum boosters possible, minimized footprint

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| | BNV 0500 C 0100 BA | BNV 0500 C 0200 BA | BNV 0500 C 0300 BA |
|-----------------------------|--|--|--|
| PANDA vacuum booster | WV 0500 C | WV 0500 C | WV 0500 C |
| COBRA dry screw vacuum pump | NC 0100 B | NC 0200 B | NC 0300 B |
| Pumping speed at 1 mbar | 460 / 550 m ³ /h (50 / 60 Hz) | 480 / 575 m ³ /h (50 / 60 Hz) | 485 / 580 m ³ /h (50 / 60 Hz) |
| Ultimate pressure | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) |
| Nominal motor rating | 5.7 / 7.8 kW (50 / 60 Hz) | 8.2 / 10.6 kW (50 / 60 Hz) | 9.7 / 12.5 kW (50 / 60 Hz) |
| Approximate weight | 500 kg (50 / 60 Hz) | 600 kg (50 / 60 Hz) | 600 kg (50 / 60 Hz) |

| | BNV 1200 A 0200 BA | BNV 1200 A 0300 BA | BNV 1200 A 0400 BB | BNV 1200 A 0450 AA |
|-----------------------------|--|--|--|--|
| PANDA vacuum booster | WV 1200 A | WV 1200 A | WV 1200 A | WV 1200 A |
| COBRA dry screw vacuum pump | NC 0200 B | NC 0300 B | NC 0400 B | NX 0450 A |
| Pumping speed at 1 mbar | 905 / 1100 m ³ /h (50 / 60 Hz) | 940 / 1130 m ³ /h (50 / 60 Hz) | 950 / 1125 m ³ /h (50 / 60 Hz) | 950 / 1150 m ³ /h (50 / 60 Hz) |
| Ultimate pressure | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-2} / \leq 1 \cdot 10^{-2}$ hPa(mbar) (50 / 60 Hz) |
| Nominal motor rating | 9.0 / 11.6 kW (50 / 60 Hz) | 10.5 / 13.5 kW (50 / 60 Hz) | 10.5 / 13.5 kW (50 / 60 Hz) | 10.5 / 13.5 kW (50 / 60 Hz) |
| Approximate weight | 700 kg (50 / 60 Hz) | 700 kg (50 / 60 Hz) | 800 kg (50 / 60 Hz) | 800 kg (50 / 60 Hz) |

| | BNV 1800 A 0300 BA | BNV 1800 A 0450 AA |
|-----------------------------|--|--|
| PANDA vacuum booster | WV 1800 A | WV 1800 A |
| COBRA dry screw vacuum pump | NC 0300 B | NX 0450 A |
| Pumping speed at 1 mbar | 1365 / 1600 m ³ /h (50 / 60 Hz) | 1370 / 1670 m ³ /h (50 / 60 Hz) |
| Ultimate pressure | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-2} / \leq 1 \cdot 10^{-2}$ hPa(mbar) (50 / 60 Hz) |
| Nominal motor rating | 11.5 / 14.5 kW (50 / 60 Hz) | 11.5 / 14.5 kW (50 / 60 Hz) |
| Approximate weight | 700 kg (50 / 60 Hz) | 800 kg (50 / 60 Hz) |

| | BNV 2400 A 0400 BB | BNV 2400 A 0450 AA | BNV 2400 A 0630 CB | BNV 2400 A 0650 AA |
|-----------------------------|--|--|--|--|
| PANDA vacuum booster | WV 2400 A | WV 2400 A | WV 2400 A | WV 2400 A |
| COBRA dry screw vacuum pump | NC 0400 B | NX 0450 A | NC 0630 C | NX 0650 A |
| Pumping speed at 1 mbar | 1790 / 2160 m ³ /h (50 / 60 Hz) | 1785 / 2160 m ³ /h (50 / 60 Hz) | 1890 / 2250 m ³ /h (50 / 60 Hz) | 1890 / 2250 m ³ /h (50 / 60 Hz) |
| Ultimate pressure | $\leq 5 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-2} / \leq 1 \cdot 10^{-2}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-2} / \leq 1 \cdot 10^{-2}$ hPa(mbar) (50 / 60 Hz) |

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| | BNV 2400 A 0400 BB | BNV 2400 A 0450 AA | BNV 2400 A 0630 CB | BNV 2400 A 0650 AA |
|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Nominal motor rating | 13.0 / 16.5 kW (50 / 60 Hz) | 13.0 / 16.5 kW (50 / 60 Hz) | 20.5 / 24.0 kW (50 / 60 Hz) | 20.5 / 24.0 kW (50 / 60 Hz) |
| Approximate weight | 1250 kg (50 / 60 Hz) | 1250 kg (50 / 60 Hz) | 1500 kg (50 / 60 Hz) | 1500 kg (50 / 60 Hz) |

| | BNV 4500 B 0630 CB | BNV 4500 B 0650 AA |
|-----------------------------|--|--|
| PANDA vacuum booster | WV 4500 B | WV 4500 B |
| COBRA dry screw vacuum pump | NC 0630 C | NX 0650 A |
| Pumping speed at 1 mbar | 4235 / 4235 m ³ /h (50 / 60 Hz) | 3635 / 4250 m ³ /h (50 / 60 Hz) |
| Ultimate pressure | $\leq 1 \cdot 10^{-3} / \leq 1 \cdot 10^{-3}$ hPa(mbar) (50 / 60 Hz) | $\leq 1 \cdot 10^{-2} / \leq 1 \cdot 10^{-2}$ hPa(mbar) (50 / 60 Hz) |
| Nominal motor rating | 26 / 29.6 kW (50 / 60 Hz) | 23.5 / 29.6 kW (50 / 60 Hz) |
| Approximate weight | 1500 kg (50 / 60 Hz) | 1500 kg (50 / 60 Hz) |

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