

# COMBI BN

Vacuum Pump Units



**VACUUM SOLUTIONS**

Part of the **BUSCH** GROUP



## Reliable

Vacuum pump units with robust and proven COBRA backing pumps enhanced by PANDA 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 m³/h (50 / 60 Hz)                                          | 480 / 575 m³/h (50 / 60 Hz)                                          | 485 / 580 m³/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)                                           |
| Weight approx.              | 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 m³/h (50 / 60 Hz)                                         | 940 / 1130 m³/h (50 / 60 Hz)                                         | 950 / 1125 m³/h (50 / 60 Hz)                                         | 950 / 1150 m³/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)                                          |
| Weight approx.              | 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 m³/h (50 / 60 Hz)                                        | 1370 / 1670 m³/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)                                          |
| Weight approx.              | 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 m³/h (50 / 60 Hz)                                        | 1785 / 2160 m³/h (50 / 60 Hz)                                        | 1890 / 2250 m³/h (50 / 60 Hz)                                        | 1890 / 2250 m³/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) |
| Weight approx.       | 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 <sup>3</sup> /h (50 / 60 Hz)                           | 3635 / 4250 m <sup>3</sup> /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)                                          |
| Weight approx.              | 1500 kg (50 / 60 Hz)                                                 | 1500 kg (50 / 60 Hz)                                                 |

## DO YOU WANT TO KNOW MORE?

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[info@busch.ee](mailto:info@busch.ee) or +372 568 13 203



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