

# 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 <sup>3</sup> /h (50 / 60 Hz)	480 / 575 m <sup>3</sup> /h (50 / 60 Hz)	485 / 580 m <sup>3</sup> /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 <sup>3</sup> /h (50 / 60 Hz)	940 / 1130 m <sup>3</sup> /h (50 / 60 Hz)	950 / 1125 m <sup>3</sup> /h (50 / 60 Hz)	950 / 1150 m <sup>3</sup> /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 <sup>3</sup> /h (50 / 60 Hz)	1370 / 1670 m <sup>3</sup> /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 <sup>3</sup> /h (50 / 60 Hz)	1785 / 2160 m <sup>3</sup> /h (50 / 60 Hz)	1890 / 2250 m <sup>3</sup> /h (50 / 60 Hz)	1890 / 2250 m <sup>3</sup> /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 <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)
Approximate weight	1500 kg (50 / 60 Hz)	1500 kg (50 / 60 Hz)

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
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