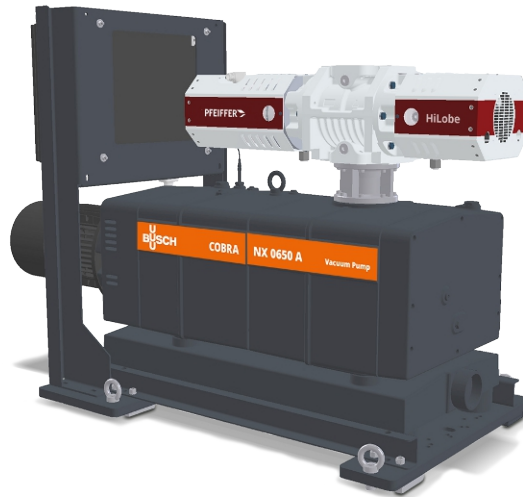


COMBI RH

Vacuum pump unit

PFEIFFER 
VACUUM+FAB SOLUTIONS

Part of the **BUSCH** GROUP



Reliable

High uptime, increased safety thanks to process monitoring via integrated sensors, intelligent user interface of vacuum booster

High performance

High pumping speed at low ultimate pressures, fast pump-down times, high energy efficiency

Flexible

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

Accessories, spare parts and options

- Control unit for booster and backing pump
- Protective strainer
- Splinter protection
- Temperature sensor
- Gas ballast and barrier gas
- Gear chamber evacuation
- Various feet (height adjustable machine foot, castor wheels, floor mounting)

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	COMBI RH 902	COMBI RH 2154	COMBI RH 3304
Vacuum booster	HiLobe 1302	HiLobe 2704	HiLobe 4504
Backing pump	COBRA NC 0100 B	COBRA NC 0400 B	COBRA NC 0400 B
Pumping speed at 1 hPa(mbar)	959 m ³ /h	2167 m ³ /h	3269 m ³ /h
Ultimate pressure	4 · 10 ⁻³ hPa (mbar)	7 · 10 ⁻³ hPa (mbar)	7 · 10 ⁻³ hPa (mbar)
Max. power consumption	6 kW	11 kW	13 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	550 kg	940 kg	940 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / DN 40 PN 16	DN 160 ISO-F/PN 16 / DN 80 PN 16	DN 160 ISO-F/PN 16 / DN 80 PN 16

	COMBI RH 2354	COMBI RH 3654	COMBI RH 4854	COMBI RH 2204 L
Vacuum booster	HiLobe 2704	HiLobe 4504	HiLobe 6204	HiLobe 2704
Backing pump	COBRA NC 0630 C	COBRA NC 0630 C	COBRA NC 0630 C	COBRA NX 0450 A
Pumping speed at 1 hPa(mbar)	2344 m ³ /h	3655 m ³ /h	4824 m ³ /h	2175 m ³ /h
Ultimate pressure	2 · 10 ⁻³ hPa (mbar)	2 · 10 ⁻³ hPa (mbar)	2 · 10 ⁻³ hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Max. power consumption	18.5 kW	20.5 kW	22.5 kW	11 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	1030 kg	1030 kg	1030 kg	940 kg
Gas inlet / outlet	DN 160 ISO-F/PN 16 / DN 80 PN 16	DN 160 ISO-F/PN 16 / DN 80 PN 16	DN 160 ISO-F/PN 16 / DN 80 PN 16	DN 160 ISO-F/PN 16 / G 2"

	COMBI RH 3354 L	COMBI RH 2404 L	COMBI 3704 L	COMBI RH 4904 L
Vacuum booster	HiLobe 4504	HiLobe 2704	HiLobe 4504	HiLobe 6204
Backing pump	COBRA NX 0450 A	COBRA NX 0650 A	COBRA NX 0650 A	COBRA NX 0650 A
Pumping speed at 1 hPa(mbar)	3310 m ³ /h	2348 m ³ /h	3668 m ³ /h	4860 m ³ /h
Ultimate pressure	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Max. power consumption	13 kW	16 kW	18 kW	20 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz

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	COMBI RH 3354 L	COMBI RH 2404 L	COMBI 3704 L	COMBI RH 4904 L
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	940 kg	1130 kg	1130 kg	1130 kg
Gas inlet / outlet	DN 160 ISO-F/PN 16 / G 2"	DN 160 ISO-F/PN 16 / G 3"	DN 160 ISO-F/PN 16 / G 3"	DN 160 ISO-F/PN 16 / G 3"

	COMBI RH 2504 L	COMBI RH 3804 L	COMBI RH 5104 L	COMBI RH 4254 L
Vacuum booster	HiLobe 2704	HiLobe 4504	HiLobe 6204	HiLobe 6204
Backing pump	COBRA NX 0950 A	COBRA NX 0950 A	COBRA NX 0950 A	COBRA NX 0450 A
Pumping speed at 1 hPa(mbar)	2413 m³/h	3811 m³/h	5098 m³/h	4239 m³/h
Ultimate pressure	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Max. power consumption	22 kW	24 kW	26 kW	15 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	1450 kg	1450 kg	1450 kg	940 kg
Gas inlet / outlet	DN 160 ISO-F/PN 16 / DN 100 ISO-K	DN 160 ISO-F/PN 16 / DN 100 ISO-K	DN 160 ISO-F/PN 16 / DN 100 ISO-K	DN 160 ISO-F/PN 16 / G 2"

	COMBI RH 1152	COMBI RH 1704	COMBI RH 1202 L	COMBI RH 1754 L
Vacuum booster	HiLobe 1302	HiLobe 2104	HiLobe 1302	HiLobe 2104
Backing pump	COBRA NC 0300 B	COBRA NC 0300 B	COBRA NX 0450 A	COBRA NX 0450 A
Pumping speed at 1 hPa(mbar)	1143 m³/h	1720 m³/h	1155 m³/h	1746 m³/h
Ultimate pressure	4 · 10 ⁻³ hPa (mbar)	7 · 10 ⁻³ hPa (mbar)	7 · 10 ⁻³ hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Max. power consumption	10 kW	11 kW	10 kW	11 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	635 kg	660 kg	750 kg	770 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / DN 50 PN 16	DN 100 ISO-F/PN 16 / DN 50 PN 16	DN 100 ISO-F/PN 16 / G 2"	DN 100 ISO-F/PN 16 / G 2"

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	COMBI RH 1252 L	COMBI RH 1854 L	COMBI RH 1252	COMBI RH 1854
Vacuum booster	HiLobe 1302	HiLobe 2104	HiLobe 1302	HiLobe 2104
Backing pump	COBRA NX 0650 A	COBRA NX 0650 A	COBRA NC 0630 C	COBRA NC 0630 C
Pumping speed at 1 hPa(mbar)	1220 m³/h	1873 m³/h	1225 m³/h	1875 m³/h
Ultimate pressure	$7 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-3}$ hPa (mbar)	$2 \cdot 10^{-3}$ hPa (mbar)
Max. power consumption	15 kW	16 kW	17.5 kW	18.5 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	950 kg	970 kg	850 kg	870 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / G 3"	DN 100 ISO-F/PN 16 / G 3"	DN 100 ISO-F/PN 16 / DN 80 PN 16	DN 100 ISO-F/PN 16 / DN 80 PN 16

	COMBI RH 1604	COMBI RH 1102	COMBI RH 1304	COMBI RH 1904 L
Vacuum booster	HiLobe 2104	HiLobe 1302	HiLobe 2104	HiLobe 2104
Backing pump	COBRA NC 0200 B	COBRA NC 0200 B	COBRA NC 0100 B	COBRA NX 0950 A
Pumping speed at 1 hPa(mbar)	1627 m³/h	1096 m³/h	1325 m³/h	1925 m³/h
Ultimate pressure	$7 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)
Max. power consumption	9.5 kW	8.5 kW	7 kW	22 kW
Input voltage	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz	400 V AC (±10%), 50 Hz
Noise level (ISO 2151) at 1 hPa(mbar)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)	≤80 dB(A)
Weight approx.	615 kg	590 kg	570 kg	1270 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / DN 50 PN 16	DN 100 ISO-F/PN 16 / DN 50 PN 16	DN 100 ISO-F/PN 16 / DN 40 PN 16	DN 100 ISO-F/PN 16 / DN 100 ISO-K

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