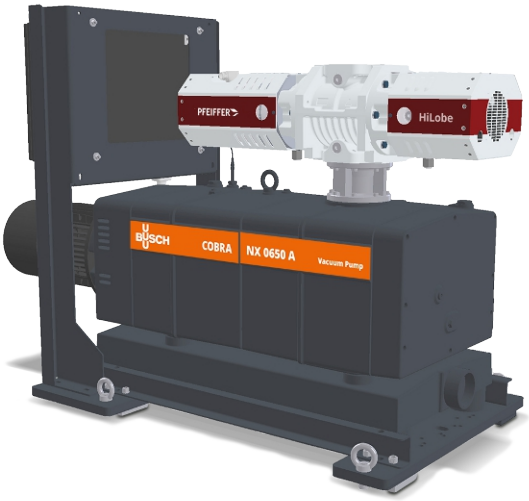
COMBI RH

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	$4 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ 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	$2 \cdot 10^{-3}$ hPa (mbar)	$2 \cdot 10^{-3}$ hPa (mbar)	$2 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ 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 RH 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	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ 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 RH 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 m^3/h	3811 m^3/h	5098 m^3/h	4239 m^3/h
Ultimate pressure	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ 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 m^3/h	1720 m^3/h	1155 m^3/h	1746 m^3/h
Ultimate pressure	$4 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)
Max. power consumption	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 m^3/h	1873 m^3/h	1225 m^3/h	1875 m^3/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 m^3/h	1096 m^3/h	1325 m^3/h	1925 m^3/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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