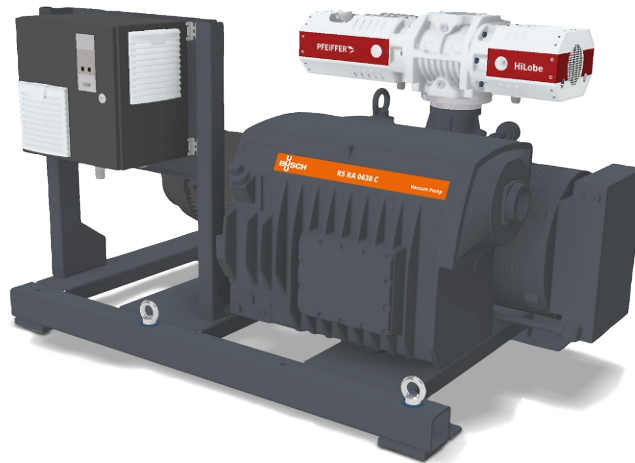


COMBI RU

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, fast pump-down times, high energy efficiency

Flexible

Various design options available, different combinations of oil-lubricated rotary vane backing pumps and vacuum boosters possible

Accessories, spare parts and options

- Control unit for booster and backing pump
- Operating fluid level monitoring
- Operating fluid temperature switch
- KAS (condensate separator)
- SAS (dust separator)
- Gas-ballast valve closed or with hand valve
- Various feet (height-adjustable machine foot, castor wheels, floor mounting)

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Vacuum pump unit

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	COMBI RU 2004	COMBI RU 2954	COMBI RU 2204
Vacuum booster	HiLobe 2704	HiLobe 4504	HiLobe 2704
Backing pump	R5 RD 0360 A	R5 RD 0360 A	R5 RA 0520 A
Pumping speed at 1 hPa(mbar)	2014 m ³ /h	2960 m ³ /h	2057 m ³ /h
Ultimate pressure	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Ultimate pressure with gas ballast valve	3 · 10 ⁻² hPa (mbar)	3 · 10 ⁻² hPa (mbar)	2 · 10 ⁻² hPa (mbar)
Max. power consumption	9 kW	11 kW	17 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)	≤85 dB(A)
Weight approx.	625 kg	625 kg	1000 kg
Gas inlet / outlet	DN 160 ISO-F/PN 16 / DN 63 ISO-K	DN 160 ISO-F/PN 16 / DN 63 ISO-K	DN 160 ISO-F/PN 16 / DN 100 ISO-K

	COMBI RU 3404	COMBI RU 2304	COMBI RU 3554	COMBI RU 4704
Vacuum booster	HiLobe 4504	HiLobe 2704	HiLobe 4504	HiLobe 6204
Backing pump	R5 RA 0520 A	R5 RA 0630 C	R5 RA 0630 C	R5 RA 0630 C
Pumping speed at 1 hPa(mbar)	3010 m ³ /h	2302 m ³ /h	3567 m ³ /h	4689 m ³ /h
Ultimate pressure	5 · 10 ⁻³ hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)	1 · 10 ⁻² hPa (mbar)
Ultimate pressure with gas ballast valve	2 · 10 ⁻² hPa (mbar)	2 · 10 ⁻² hPa (mbar)	2 · 10 ⁻² hPa (mbar)	2 · 10 ⁻² hPa (mbar)
Max. power consumption	19 kW	18.5 kW	20.5 kW	22.5 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)	≤85 dB(A)	≤85 dB(A)	≤85 dB(A)	≤85 dB(A)
Weight approx.	1000 kg	1200 kg	1200 kg	1200 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 / DN 100 ISO-K

COMBI RU

Vacuum pump unit

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VACUUM+FAB SOLUTIONS

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	COMBI RU 1002	COMBI RU 1052	COMBI RU 1604	COMBI RU 1152
Vacuum booster	HiLobe 1302	HiLobe 1302	HiLobe 2104	HiLobe 1302
Backing pump	R5 RD 0240 A	R5 RD 0360 A	R5 RD 0360 A	R5 RA 0630 C
Pumping speed at 1 hPa(mbar)	1028 m³/h	1091 m³/h	1626 m³/h	1204 m³/h
Ultimate pressure	$7 \cdot 10^{-3}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$7 \cdot 10^{-3}$ hPa (mbar)
Ultimate pressure with gas ballast valve	$2 \cdot 10^{-2}$ hPa (mbar)	$2 \cdot 10^{-2}$ hPa (mbar)	$3 \cdot 10^{-2}$ hPa (mbar)	$2 \cdot 10^{-2}$ hPa (mbar)
Max. power consumption	6.5 kW	8 kW	9 kW	17.5 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)	≤85 dB(A)
Weight approx.	415 kg	430 kg	450 kg	1010 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / DN 63 ISO-K	DN 100 ISO-F/PN 16 / DN 63 ISO-K	DN 100 ISO-F/PN 16 / DN 63 ISO-K	DN 100 ISO-F/PN 16 / DN 100 ISO-K

	COMBI RU 1754	COMBI RU 1102	COMBI RU 1654	COMBI RU 1454
Vacuum booster	HiLobe 2104	HiLobe 1302	HiLobe 2104	HiLobe 2104
Backing pump	R5 RA 0630 C	R5 RA 0520 A	R5 RA 0520 A	R5 RD 0240 A
Pumping speed at 1 hPa(mbar)	1839 m³/h	1106 m³/h	1623 m³/h	1485 m³/h
Ultimate pressure	$1 \cdot 10^{-2}$ hPa (mbar)	$5 \cdot 10^{-3}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)
Ultimate pressure with gas ballast valve	$2 \cdot 10^{-2}$ hPa (mbar)	$1 \cdot 10^{-2}$ hPa (mbar)	$2 \cdot 10^{-2}$ hPa (mbar)	$3 \cdot 10^{-2}$ hPa (mbar)
Max. power consumption	18.5 kW	16 kW	17 kW	7.5 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)	≤85 dB(A)	≤85 dB(A)	≤85 dB(A)	≤80 dB(A)
Weight approx.	1025 kg	850 kg	870 kg	435 kg
Gas inlet / outlet	DN 100 ISO-F/PN 16 / DN 100 ISO-K	DN 100 ISO-F/PN 16 / DN 100 ISO-K	DN 100 ISO-F/PN 16 / DN 100 ISO-K	DN 100 ISO-F/PN 16 / DN 63 ISO-K

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