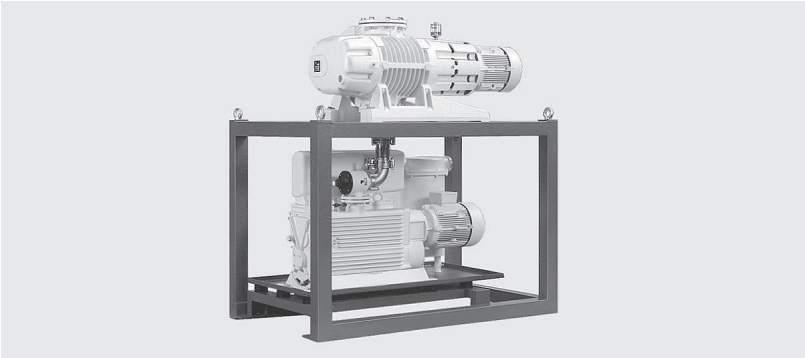
Oil Sealed RUTA Pump Systems
Two- and Three-Stage, with Single- and Two-Stage Rotary Piston Vacuum Pumps as Backing Pump



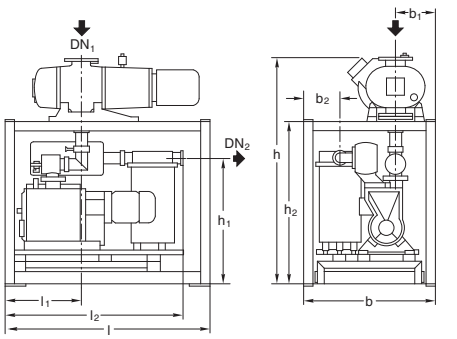
RUTA WAU2001/E250/G

Standard Equipment

- RUVAC WAU/WSU with air cooling
- E 200 and DK 200 with air cooling
- Exhaust filter attached
- Oil collecting pan
- SECUVAC valve 24 V DC
- Gas ballast valve manually operated
- Backing pump removable by a fork lifter
- Crane eyes on the frame
- Floor mounting
- The oil is supplied with the pump
- CE approval

Options

- Frequency converter RUVATRONIC RT for controlling the speed of the Roots pump
- Oil filter
- 24 V DC gas ballast valve
- Sound proofing box
- Vibration absorbers
- Different types of floor mounts
- Oil drain valve on each pump
- Exhaust filter box with oil return
- Special motors
- Electric control systems



Type	RUTA	1001/E250/G	2001/E250/G	1001/DK200/G
RUVAC WA/WAU/WS/WSU	P2	1001	2001	1001
Rotary piston vacuum pump	P1	E 250 [1]	E 250 [1]	DK 200 [1]
	DN_1	100 ISO-K	160 ISO-K	100 ISO-K
	DN_2	63 ISO-K	63 ISO-K	63 ISO-K
	l	1650 (64.96)	1650 (64.96)	1650 (64.96)
	l_1	680 (26.77)	680 (26.77)	680 (26.77)
	l_2	1398 (55.04)	1395 (54.92)	1398 (55.04)
	b	850 (33.46)	910 (35.83)	850 (33.46)
	b_1	260 (10.24)	335 (13.19)	260 (10.24)
	b_2	238 (9.37)	223 (8.78)	238 (9.37)
	h	1523 (59.96)	1705 (67.13)	1523 (59.96)
	h_1	872 (34.33)	894 (35.20)	872 (34.33)
	h_2	1127 (44.37)	1175 (46.26)	1127 (44.37)

[1] Alternatively with AFK exhaust filter box instead of the exhaust filter; then dimensions l_1 and b_2 will change

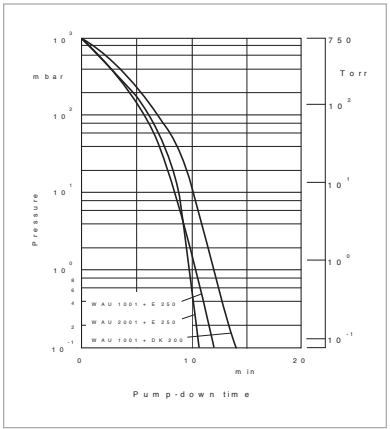
Dimensional drawing for the pump systems with E and DK backing pumps; dimensions in brackets ( ) are in inch

Technical Data, 50 Hz

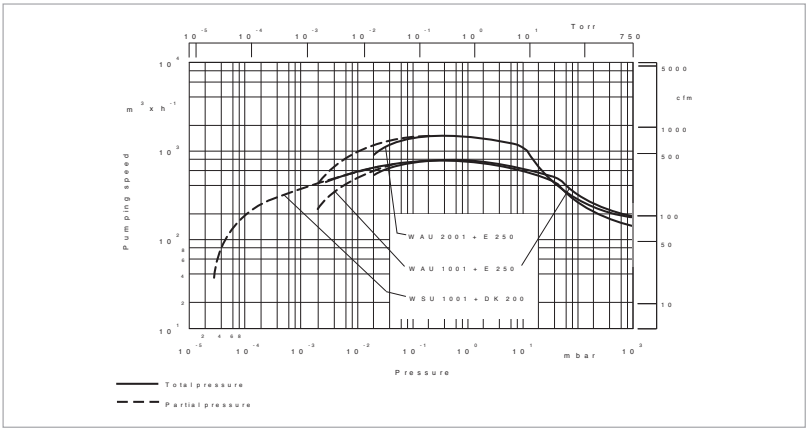
		RUTA		
		WAU 1001/E250/G	**WAU 2001/E250/G**	**WSU 1001/DK200/G**
RUVAC (WA/WAU/WS/WSU possible)	P2	1001	2001	1001
Rotary piston vacuum pump	P1	E 250	E 250	DK 200
Pumping speed, 50 Hz				
at 1 mbar (0.75 Torr)	$m^3 \times h^{-1}$ (cfm)	800.0 (471.2)	1350.0 (795.2)	–
at 10^{-1} mbar (7.5×10^{-2} Torr)	$m^3 \times h^{-1}$ (cfm)	–	–	815.0 (480.0)
Ultimate partial pressure	mbar (Torr)	2×10^{-3} (1.5×10^{-3})	2×10^{-3} (1.5×10^{-3})	3×10^{-5} (2.3×10^{-5})
Ultimate total pressure with gas ballast	mbar (Torr)	2×10^{-2} (1.5×10^{-2})	2×10^{-2} (1.5×10^{-2})	3×10^{-4} (2.3×10^{-4})
Installed motor power 400 V, 50 Hz	kW (hp)	9.5 (12.9)	13.0 (17.7)	9.5 (12.9)
Electrical power consumption				
at 1 mbar (0.75 Torr)	kW (hp)	4.0 (5.4)	4.7 (6.4)	–
at 10^{-1} mbar (7.5×10^{-2} Torr)	kW (hp)	–	–	4.4 (6.0)
Noise level				
max.	dB(A)	80	83	80
without gas ballast				
at 1 mbar (0.75 Torr)	dB(A)	75	80	–
without gas ballast				
at 10^{-1} mbar (7.5×10^{-2} Torr)	dB(A)	–	–	75
Oil filling, total, approx.	l (qt)	11.0 (11.63)	12.0 (12.68)	6.0 (6.34)
Weight, total, approx.	kg (lbs)	895.0 (1973.5)	1080.0 (2381.4)	930.0 (2050.7)
Connecting flange				
Inlet port	DN_1	100 ISO-K	160 ISO-K	100 ISO-K
Outlet port	DN_2	63 ISO-K	63 ISO-K	63 ISO-K

Ordering Information

		RUTA		
		WAU 1001/E250/G	**WAU 2001/E250/G**	**WSU 1001/DK200/G**
		Part No.	**Part No.**	**Part No.**
RUVAC (WA/WAU/WS/WSU possible)	P2	WAU 1001	WAU 2001	WSU 1001
Rotary piston vacuum pump	P1	E 250	E 250	DK 200
Pump system, complete (frame version), frame mounted, with Roots vacuum pump				
RUVAC WAU		**023 36**	**023 45**	**–**
RUVAC WSU		**–**	**–**	**025 36**
Frequency converter RUVATRONIC (see description in Chapter "Accessories")		RT 5/1001 **500 001 383**	RT 5/2001 **500 001 384**	RT 5/1001 **500 001 383**



Pump-down time diagram for a 10 m^3 tank at 50 Hz



Pumping speed diagram at 50 Hz