

Насосы пластинчато-роторные CARL ROTH CRVpro 4, CRVpro 6, CRVpro 8, RE 2.5, RZ 2.5, RZ 6, RZ 9

Технические характеристики

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Rotary vane pumps

Rotary vane pump package CRVpro series

WELCH Vacuum.

Complete packages with two-stage rotary vane pumps.

- Low operating temperature due to enhanced cooling geometry
- Coating of the pump body and the oil container as protection against chemical vapours
- Low oil consumption and corrosion inhibition due to low heat development during operation
- Large oil reservoir reduces the concentration of chemicals, thereby increasing the oil change intervals



Application:

- Freeze dryer (CRVpro 4/6/8)
- Vacuum centrifuge (CRVpro 6)
- Vacuum ovens (CRVpro 8)
- Schlenk technology (CRVpro 4)
- Glove box (CRVpro 8)

Technical specifications:

Art. No.	HKE0.1	HKE1.1	HKE2.1
Type	CRVpro 4	CRVpro 6	CRVpro 8
Delivery rate	63 l/min, 3,8 m ³ /h	85 l/min, 5,1 m ³ /h	122 l/min, 7,3 m ³ /h
End vacuum (abs.)	2 x 10 ⁻³ mbar		
End vacuum abs. with gas ballast	7 x 10 ⁻² mbar		
Media temperature	+10 – +40 °C		
Connection	KF DN 16 small flange	DN 16 KF small flange	
Oil filling	1,15 l		1,0 l
Motor power	370 W		
Ambient temperature	+10 – +40 °C		
IP rating	54		
Noise level	50 db		
W x D x H	463 x 157 x 230 mm		
Weight	21 kg	22 kg	22,5 kg
Mains connection	115–230 V, 50/60 Hz		

Delivery incl. AKD 16 oil mist separator, 2-way ball valve, adapter (DN 16 small flange to DN 10/8 mm hose nozzle), vacuum hose (1.5 m), oil change set incl. 2 x 1 l oil, clamping and centring rings.

Type	Art. No.	Pack Qty.
CRVpro 4	HKE0.1	1 unit(s)
CRVpro 6	HKE1.1	1 unit(s)
CRVpro 8	HKE2.1	1 unit(s)



Rotary vane pumps

Rotary vane pump XS series

Vacuubrand.

For pressure ranges up to 10^{-3} mbar.

Advantages:

- High suction capacity, even at low ultimate pressure
- High water vapour resistance (with 40 mbar gas ballast)
- Active corrosion protection against ingress of corrosive gases and oil components at a standstill through vacuum-tight closed oil circuit
- New circulation lubrication system
- Compact design and low weight
- Starts reliably even at low temperatures
- Long oil change intervals thanks to high usable oil volume
- Easy maintenance thanks to telescopic design



Technical specifications:

Art. No.	CE14.1	CE15.1	NA10.1	HC94.1	NA11.1	CTL3.1	CTL2.1
Type	RE 2.5	RZ 2.5	RZ 2.5 package	RZ 6	RZ 6 package	RZ 6 package with DCP	RZ 9
Steps	1	2					
Delivery rate	38 l/min, 2,3 m ³ /h			95 l/min, 5,7 m ³ /h		143 l/min, 8,9 m ³ /h	
End vacuum (abs.)	3×10^{-1} mbar	2×10^{-3} mbar					
End vacuum abs. with gas ballast	8×10^{-1} mbar	1×10^{-2} mbar					
Water vapour tolerance	40 mbar						
Media temperature	+10 – +40 °C (>100 mbar), 0 – +60°C (<100 mbar)						
Inlet connection	DN 16 small flange						DN 25 small flange
Outlet connection	for hose inner Ø 10 mm						DN 25 small flange
Oil filling	0,18–0,51 l		0,1–0,28 l		0,34–0,73 l		0,2–0,8 l
Motor power	180 W			300 W		370 W	
Ambient temperature	+12 – +40 °C						
IP rating	40						
W x D x H	125 x 308 x 190 mm			142 x 370 x 207 mm		232 x 460 x 232 mm	
Weight	10,2 kg		11,4 kg		16,4 kg		24,2 kg
Mains connection	200–230 V, 50/60 Hz						

Single-stage

Delivery incl. oil filling, thermal motor circuit breaker, power cord (length: 2 m), clamping and centring ring for suction piece.

Type	Art. No.	Pack Qty.
RE 2.5	CE14.1	1 unit(s)

Two-stage

Delivery incl. oil filling, thermal motor circuit breaker, power cord (length: 2 m), clamping and centring ring for suction piece – can also be used for exhaust port with RZ 9.

Type	Art. No.	Pack Qty.
RZ 2.5	CE15.1	1 unit(s)
RZ 6	HC94.1	1 unit(s)
RZ 9	CTL2.1	1 unit(s)

Basic package

Delivery incl. oil filling, thermal motor circuit breaker, power cord (length: 2 m), FO exhaust filter, VS 16 butterfly valve, PP adapter (DN 16 small flange to DN 10 hose nozzle), clamping and centring rings.

Type	Version	Art. No.	Pack Qty.
RZ 2.5 package	with FO + VS 16 + SW DN 10	NA10.1	1 unit(s)
RZ 6 package	with FO + VS 16 + SW DN 10	NA11.1	1 unit(s)

Package with vacuum meter

Delivery incl. oil filling, thermal motor circuit breaker, power cord (length: 2 m), FO exhaust filter, VS 16 butterfly valve, PP adapter (DN 16 small flange to DN 10 hose nozzle), clamping and centring rings, DCP 3000 vacuum meter with VSP 3000 pressure sensor.

Type	Version	Art. No.	Pack Qty.
RZ 6 package with DCP	with FO + VS 16 + SW DN 10 + set comprising DCP 3000 and VSP 3000	CTL3.1	1 unit(s)

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