

Насосы мембранные, вакуумные CARL ROTH ROTILABO CR-MV100, LABOPORT Mini, N 938.50.KT, SD, N 920 KT.29.18G, ME 1, ME 1C, MD 1, MD 1C, ME 4NT, ME 4C NT, MPC 201 E, MPC 101 Z, MPC 301 Z, MPC 601 T, CR-DS40

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Diaphragm vacuum pumps



Diaphragm vacuum pump ROTILABO® CR-MV100

ROTH SELECTION.

Chemical-resistant, for conveying and compressing neutral and aggressive gases and vapours in accordance with the resistance of the given materials. Vacuum is continuously variable via manual vacuum controller (needle valve).

Application:

Suitable for vacuum filtration, vacuum drying and solid phase extraction.

Technical specifications:

Art. No.	ECK4.1
Type	CR-MV100
Delivery rate	10 l/min
End vacuum (abs.)	100 mbar
Measuring range	1000–1 mbar
Graduation	50 mbar
Overpressure	2,5 bar
Media temperature	+10 – +60 °C
Connection	for hose inner Ø 6 mm
Motor power	48 W
Ambient temperature	+10 – +40 °C
Materials in contact with media	Seal: EPDM, Hose nozzle: PP, Valve: FKM, Diaphragm: PTFE-coated, Hose/separator: PVC, Pump head: Ryton
W x D x H	144 x 198 x 244 mm
Weight	2,7 kg
Mains connection	90–260 V, 50/60 Hz

Delivery incl. vacuum metering block with pressure gauge and exhaust silencer.

Type	Art. No.	Pack Qty.
CR-MV100	ECK4.1	1 unit(s)



Diaphragm vacuum pump LABOPORT® Mini

KNF.

Ideal for pumping and evacuating slightly aggressive or corrosive gases and vapours.

- Suitable for continuous operation
- Very quiet and low vibration
- Thermal switch and mains fuse

Technical specifications:

Art. No.	Y372.1	Y373.1
Type	N 816.3 KT.18	N 816.1.2 KT.18
Delivery rate	16,0 l/min	30,0 l/min
End vacuum (abs.)	20 mbar	160 mbar
Overpressure	0,5 bar	
Media temperature	+5 – +40 °C	
Connection	Hose inner Ø 6 mm	
Motor power	100 W	
Ambient temperature	+5 – +40 °C	
IP rating	20	
Materials in contact with media	Pump head: PPS, Diaphragm: PTFE-coated, Valves: FFPM	
W x D x H	90 x 361 x 141 mm	102 x 361 x 141 mm
Weight	3,95 kg	
Mains connection	230 V, 50 Hz	

Type	Art. No.	Pack Qty.
N 816.3 KT.18	Y372.1	1 unit(s)
N 816.1.2 KT.18	Y373.1	1 unit(s)



Diaphragm vacuum pumps



Diaphragm vacuum pump LABOPORT® speed-controlled

KNF.

Chemically resistant diaphragm pump, compact in design, with small footprint. Can be easily adapted to the respective application by means of integrated, manual speed control via a rotary knob. Very energy efficient and quiet. Surface is very easy to clean.

Technical specifications:

Art. No.	1EK3.1	1EK1.1	1EK2.1
Type	N 96	N 820 G	N 840 G
Delivery rate	7 l/min	20 l/min	34 l/min
End vacuum (abs.)	≤130 mbar	6 mbar	
Overpressure	2,5 bar	0,1 bar	
Media temperature	+5 – +40 °C		
Connection	for hose inner Ø 6 mm	for hose inner Ø 8–9,5 mm	
Motor power	19 W	66 W	100 W
Ambient temperature	+5 – +40 °C		
IP rating	40		
Materials in contact with media	Pump head: PPS, Diaphragm: PTFE-coated, Valves: FKM	Pump head: TFM™ PTFE, Diaphragm: PTFE-coated, Valves: FFPM	
W x D x H	156 x 75 x 119 mm	163 x 259 x 220 mm	177 x 289 x 240 mm
Weight	1,3 kg	8,8 kg	11,3 kg
Mains connection	100–240 V, 50/60 Hz		

N 96

Application: Filtration, liquid suction

Pic.	Type	Art. No.	Pack Qty.
(1)	N 96	1EK3.1	1 unit(s)

N 800 G series

Ideal for very aggressive/corrosive gases and vapours.

Application: Centrifugal concentration, rotary evaporation, distillation, degassing, desiccation, solid phase extraction.

- High steam and condensate resistance through integrated gas ballast valve
- Inner, media-contact area ATEX-compliant according to "(EX) II 2/-G IIB+H2 T3 internal atmosphere only"

Pic.	Type	Art. No.	Pack Qty.
(2)	N 820 G	1EK1.1	1 unit(s)
(3)	N 840 G	1EK2.1	1 unit(s)

Diaphragm vacuum pump LABOPORT® N 938.50.KT

KNF.

Chemical-resistant diaphragm vacuum pumps for a wide range of applications in the laboratory. The two pump heads' parallel and series connections ensure that evacuation is very fast.

- Corrosion-resistant
- Suitable for continuous operation
- Compact, quiet and reliable
- Small footprint

Application

Degassing, desiccation, liquid suction, solid phase extraction

Optional accessories (please order separately): fine adjustment head with manual vacuum control via leakage air.

Technical specifications:

Art. No.	1EA9.1
Type	N 938.50.KT
Delivery rate	30 l/min, 1,8 m³/h
End vacuum (abs.)	15 mbar
Overpressure	0,5 bar
Media temperature	+5 – +40 °C
Connection	for hose inner Ø 10 mm
Motor power	110 W
Ambient temperature	+5 – +40 °C
IP rating	20
Materials in contact with media	Pump head: PPS, Diaphragms: PTFE-coated, Valves: FFPM
W x D x H	212 x 317 x 110 mm
Weight	6,8 kg
Mains connection	230 V, 50 Hz

Type	Art. No.	Pack Qty.
N 938.50.KT	1EA9.1	1 unit(s)

Diaphragm vacuum pumps



Diaphragm vacuum pump LABOPORT® chemical-resistant

KNF.

Ideal for pumping and evacuating aggressive gases and vapours.

Application:

For vacuum filtration, drying and distillation, gel drying, SPE, rotary evaporators, vacuum ovens.

- Inner media-contact area ATEX-compliant according to "ATEX II 2GB IIB+H2 T3X internal atmosphere only"
- High gas-tightness
- Suitable for continuous operation

Technical specifications:

Art. No.	C563.1	C564.1
Type	N 820.3 FT.18	N 840.3 FT.18
Delivery rate	20 l/min	34 l/min
End vacuum (abs.)	8 mbar	
Overpressure	1 bar	
Media temperature	+5 – +40 °C	
Connection	for hose inner Ø 10 mm	
Motor power	120 W	245 W
Ambient temperature	+5 – +40 °C	
IP rating	44	
Materials in contact with media	Pump head: TFM™ PTFE, Diaphragms: PTFE-coated, Valves: FFPM	
W x D x H	144 x 312 x 207 mm	166 x 341 x 226 mm
Weight	9,3 kg	12,6 kg
Mains connection	230 V, 50 Hz	

Type	Art. No.	Pack Qty.
N 820.3 FT.18	C563.1	1 unit(s)
N 840.3 FT.18	C564.1	1 unit(s)



Diaphragm vacuum pump LABOPORT® SD series

KNF.

Chemical-resistant, **suitable for highly aggressive and corrosive gases and vapours.**

Self-drying, **for moist gases:** During the evacuation process, the pump blows condensate liquid out of the pump heads at high speed. The vacuum remains constant during this application.

Application:

For applications such as steam sterilisers or vacuum drying in vacuum drying ovens, to significantly speed up the evacuation time.

- High steam and condensate resistance
- Gas-tight, leak rate approx. 6×10^{-3} mbar x l/s
- With thermal switch and mains fuse

Technical specifications:

Art. No.	Y369.1	1EK0.1	Y370.1
Type	N 820.3 FT.40.18	N 860.3 FT.40.18	N 840.3 FT.40.18
Delivery rate	20 l/min, 1,2 m³/h	60 l/min, 3,6 m³/h	34 l/min, 2,04 m³/h
End vacuum (abs.)	10 mbar	4 mbar	10 mbar
Overpressure	1 bar		
Media temperature	+5 – +40 °C		
Connection	for hose inner Ø 10 mm	for hose inner Ø 12 mm	for hose inner Ø 10 mm
Motor power	120 W	220 W	245 W
Ambient temperature	+5 – +40 °C		
IP rating	44	54	44
Materials in contact with media	Pump head: PTFE, Diaphragms: PTFE-coated, Valves: FFPM		
W x D x H	177 x 312 x 220 mm	291 x 331 x 278 mm	189 x 341 x 239 mm
Weight	9,6 kg	14,8 kg	12,9 kg
Mains connection	230 V, 50 Hz		

Type	Art. No.	Pack Qty.
N 820.3 FT.40.18	Y369.1	1 unit(s)
N 840.3 FT.40.18	Y370.1	1 unit(s)
N 860.3 FT.40.18	1EK0.1	1 unit(s)



Diaphragm vacuum pumps



Diaphragm vacuum pump N 920 KT.29.18G

KNF.

For all applications that still require a **large suction capacity at low pressure**.

For pumping and extracting air, gases and vapours, for sampling and evacuating containers or systems.

- **The delivery rate can be adjusted by changing the speed** using the potentiometer.
- Ideal for aggressive and corrosive gases and vapours.
- Very quiet and low vibration.
- Diaphragm stabilisation system for high suction capacity in the lower vacuum range.
- With integrated gas ballast valve for reducing condensate formation within the pump head.

Application:

For various processes and procedures, e.g. in laboratories, which need to be performed under vacuum conditions. Also usable in the semiconductor and pharmaceutical industries and in chemical and analysis technology.

Technical specifications:

Art. No.	EP19.1
Type	N 920 KT.29.18G
Delivery rate	21 l/min
End vacuum (abs.)	2 mbar
End vacuum abs. with gas ballast	<5 mbar
Overpressure	0,5 bar
Media temperature	+5 – +40 °C
Connection	for hose inner Ø 10 mm
Motor power	135 W
Ambient temperature	+10 – +40 °C
IP rating	20
Materials in contact with media	Pump head: PPS, Diaphragms: PTFE-coated, Valves: FFPM, Gas ballast valve: PVDF
W x D x H	158 x 324 x 226 mm
Weight	8,5 kg
Mains connection	100–240 V, 50/60 Hz

Type	Art. No.	Pack Qty.
N 920 KT.29.18G	EP19.1	1 unit(s)



Diaphragm vacuum pump ME 1 series

Vacuubrand.

Ideal for pumping and evacuating gases and vapours.

Application:

Uses such as vacuum filtration for sample preparation in chemical, microbiology, wastewater and other analytical processes.

- Simple to use with central power button mounted on pump housing
- Extremely quiet and low vibration
- Requires minimal benchtop space
- Long diaphragm service life

Technical specifications:

Art. No.	NA17.1	NA18.1
Type	ME 1	ME 1C
Cylinder	1	
Steps	1	
Delivery rate	11,7 l/min, 0,7 m³/h	
End vacuum (abs.)	100 mbar	
Media temperature	+10 – +40 °C (>100 mbar), 0 – +60°C (<100 mbar)	
Inlet connection	for hose inner Ø 6–10 mm	for hose inner Ø 8–10 mm
Outlet connection	Silencer/G 1/8"	for hose inner Ø 8–10 mm
Motor power	40 W	
Ambient temperature	+10 – +40 °C	
IP rating	40	
Materials in contact with media	Aluminium, ETFE	ETFE, PTFE
W x D x H	121 x 247 x 145 mm	
Weight	5 kg	
Mains connection	230 V, 50/60 Hz	

Optional accessories (please order separately): fine adjustment head with manual vacuum control via leakage air, rotatable in different directions for optimal visibility.

ME 1

Wide range of applications for neutral gases and vapours.

Type	Art. No.	Pack Qty.
ME 1	NA17.1	1 unit(s)

ME 1C

Specially designed for aggressive gases and vapours.

Type	Art. No.	Pack Qty.
ME 1C	NA18.1	1 unit(s)

Diaphragm vacuum pumps



Diaphragm vacuum pump MD 1 series

Vacuubrand.

For evacuating and conveying gases down to an extremely low end vacuum.

- **Three-stage, for a high suction capacity even at low pressures**
- Very quiet and low vibration
- Long service life
- Easy diaphragm and valve replacements

Technical specifications:

Art. No.	ETY5.1	HC95.1
Type	MD 1	MD 1C
Cylinder	4	
Steps	3	
Delivery rate	20 l/min, 1,2 m ³ /h	21,7 l/min, 1,3 m ³ /h
End vacuum (abs.)	1,5 mbar	2 mbar
End vacuum abs. with gas ballast		4 mbar
Media temperature	+10 – +40 °C (>100 mbar), 0 – +60°C (<100 mbar)	
Inlet connection	for hose inner Ø 6 mm	for hose inner Ø 8–10 mm
Outlet connection	G ¹ / ₈ " silencer	for hose inner Ø 8 mm
Motor power	80 W	
Ambient temperature	+10 – +40 °C	
IP rating	42	
Materials in contact with media	Pump head: Aluminium, Diaphragms: PTFE, Valves: FPM	Pump head: PTFE/ETFE, Diaphragms: PTFE, Valves: FFPM
W x D x H	143 x 303 x 163 mm	143 x 316 x 175 mm
Weight	6,5 kg	6,9 kg
Mains connection	200–230 V, 50/60 Hz	

MD 1

Wide range of applications for neutral gases and vapours.

Type	Art. No.	Pack Qty.
MD 1	ETY5.1	1 unit(s)

MD 1C

Specially designed for aggressive gases through the use of chemical-resistant fluoroplastics, as well as excellent condensate resistance due to built-in gas ballast valve.

Type	Art. No.	Pack Qty.
MD 1C	HC95.1	1 unit(s)



Diaphragm vacuum pump ME 4 series

Vacuubrand.

Ideal for analytic applications in the laboratory and industrial operations.

- Continuous, oil-free evacuation and conveying of gases
- Very low leak rate thanks to particularly tightly sealed connection technology. Reliable output data
- Long diaphragm service life
- Particularly quiet and smooth running thanks to compact drive
- Long service life
- Easy diaphragm and valve replacements

Technical specifications:

Art. No.	KH50.1	1EA7.1
Type	ME 4 NT	ME 4C NT
Cylinder	2	
Steps	1	
Delivery rate	67 l/min, 4,0 m ³ /h	65 l/min, 3,9 m ³ /h
End vacuum (abs.)	70 mbar	
Overpressure	1 bar	0,1 bar
Media temperature	+10 – +40 °C	
Inlet connection	for hose inner Ø 8–10 mm	
Outlet connection	2 x silencer / G ¹ / ₄ "	
Motor power	180 W	
Ambient temperature	+10 – +40 °C	
IP rating	40	
Noise level	45 db	
Materials in contact with media	Pump head: Aluminium, Diaphragms: FPM, Valves: FPM	ETFE pump head, carbon fibre-reinforced, Diaphragms: PTFE, Valves: PTFE
W x D x H	239 x 243 x 198 mm	243 x 254 x 198 mm
Weight	11 kg	
Mains connection	200–230 V, 50/60 Hz	

ME 4NT

Wide range of applications for neutral gases and vapours.

Extremely high diaphragm durability thanks to highly flexible FKM double diaphragms with fabric reinforcement.

Type	Art. No.	Pack Qty.
ME 4 NT	KH50.1	1 unit(s)

ME 4C NT

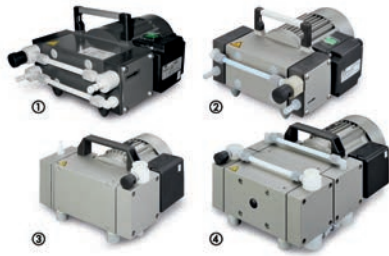
Specially designed for aggressive gases and vapours.

Long diaphragm service life thanks to the diaphragms' PTFE sandwich design.

Type	Art. No.	Pack Qty.
ME 4C NT	1EA7.1	1 unit(s)



Diaphragm vacuum pumps



Diaphragm vacuum pump MPC series

WELCH Vacuum.

Ideal for pumping and compressing **neutral and aggressive gases and vapours**.

With integrated gas ballast valve for reducing condensate formation within the pump head.

Application:

In physical and chemical laboratories for vacuum filtration, distillation, drying, etc.

Technical specifications:

Art. No.	1AA3.1	CE38.1	CE39.1	CE40.1
Type	MPC 201 E	MPC 101 Z	MPC 301 Z	MPC 601 T
Cylinder	2			4
Steps	1	2	3	
Delivery rate	30 l/min 1,8 m ³ /h	16,7 l/min 1 m ³ /h	38,3 l/min 2,3 m ³ /h	75,0 l/min 4,5 m ³ /h
End vacuum (abs.)	< 75 mbar	< 8 mbar	< 2 mbar	
End vacuum abs. with gas ballast	90 mbar	18 mbar	9 mbar	
Media temperature	+10 – +40 °C			
Connection	for hose inner Ø 8 mm			
Motor power	60 W		180 W	370 W
Ambient temperature	+10 – +40 °C			
IP rating	54			
Materials in contact with media	Connection/pump head: PTFE with carbon fibre reinforcement, Seal: EPDM, Screw fitting: PVDF, Valves: PEEK, Diaphragm disc: NBR, Connecting elements: PP			
W x D x H	195 x 225 x 147 mm		230 x 265 x 169 mm	230 x 380 x 169 mm
Weight	6,5 kg		11,2 kg	18,3 kg
Mains connection	230 V, 50/60 Hz			

Pic.	Type	Art. No.	Pack Qty.
(1)	MPC 201 E	1AA3.1	1 unit(s)
(2)	MPC 101 Z	CE38.1	1 unit(s)
(3)	MPC 301 Z	CE39.1	1 unit(s)
(4)	MPC 601 T	CE40.1	1 unit(s)



Rotary vane pump package ROTILABO® CR-DS40

ROTH SELECTION.

Robust, two-stage vacuum pump primarily for vacuum ovens, freeze dryers and the Schlenkline technique. Its innovative technology means that it has a long service life and is highly reliable and low-maintenance.

- Lower operating temperature thanks to optimised cooling, which reduces the chemical activity in the pump and the oil consumption
- Extended oil change intervals thanks to the large oil storage tank
- Larger oil capacity results in increased dilution of chemical vapours, minimisation of oil degradation rates and reduction in chemical damage in the pump
- Decelerated metal corrosion thanks to the additional coating of pump module and oil storage tank which, in conjunction with cold traps, extend the maintenance intervals

Technical specifications:

Art. No.	1A9E.1
Type	CR-DS40
Delivery rate	38 l/min, 2,3 m ³ /h
End vacuum (abs.)	3 x 10 ⁻³ mbar
End vacuum abs. with gas ballast	9 x 10 ⁻² mbar
Media temperature	+10 – +40 °C
Connection	KF DN 16 small flange
Oil filling	0,45 l
Motor power	290 W
Ambient temperature	+10 – +40 °C
IP rating	54
Noise level	50 db
W x D x H	384 x 138 x 211 mm
Weight	15 kg
Mains connection	115–230 V, 50/60 Hz

Delivery incl. oil mist filter, adapter (DN 16 small flange to DN 10/8 mm hose nozzle), 1 l pump oil, funnel, clamping and centring rings.

Type	Art. No.	Pack Qty.
CR-DS40	1A9E.1	1 unit(s)

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