

Системы вакуумные CARL ROTH SEM 820, SEM 840, SEM 842, SC 820, SC 840, SC 842, LVS 105 T-10 ef+, PC 3001 VARIO, PC 3003 VARIO

Технические характеристики

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Vacuum systems



Vacuum system LABOXACT® SEM series

KNF.

With fine adjustment valve. Chemical resistant. Specially designed for use on rotary evaporators.

Features:

- **Digital vacuum gauge**, displays the current pressure in the system
- **Fine adjustment valve** for continuously variable vacuum regulation
- **Safety venting valve** enables the piston to be ventilated in order to interrupt the evaporation process
- **Separate on/off switch** for the pump
- **Inert gas connection**
- Delivered fully assembled

Advantages:

- Safe evaporation control
- High recovery rates even with solvents that have very low boiling points
- Gentle distillation thanks to closed system layout
- Continuously variable regulation of the vacuum via fine adjustment valve
- Once the required vacuum has been achieved, the fine adjustment valve can be closed and the pump can be switched off
- Maintenance-free and quiet

Technical specifications:

Art. No.	AY12.1	AY13.1	AY14.1
System	SEM 820	SEM 840	SEM 842
Pump type	N 820.3 FT.18	N 840.3 FT.18	N 842.3 FT.18
Delivery rate	20 l/min	34 l/min	
End vacuum (abs.)	8 mbar		2 mbar
Connection	for hose inner Ø 10 mm		
Materials in contact with media	Pump head: TFM™ PTFE, Diaphragms: PTFE-coated, Valves: FFPM		
L x W x H	442 x 305 x 481 mm		
Weight	14.5 kg	17.8 kg	18.6 kg
Mains connection	230 V, 50 Hz		

Delivery incl. base plate, separator, condenser, fine adjustment valve, vacuum gauge (digital), safety venting valve, wiring and hoses.

Type	Art. No.	Pack Qty.	
SEM 820	AY12.1	1 unit(s)	
SEM 840	AY13.1	1 unit(s)	
SEM 842	AY14.1	1 unit(s)	



Vacuum system LABOPORT® SC series

KNF.

With vacuum controller. Chemical resistant. For laboratories that require a clean and controlled vacuum.

Applications:

- Vacuum distillation and filtration
- Rotary evaporators
- Vacuum drying
- Vacuum impregnation
- Gel drying, etc.

Features:

- **Vacuum controllers** for controlled vacuum processes
- The control unit switches the pump off or on again if the required vacuums are achieved or exceeded
- Delivered fully assembled

Advantages:

- Automatic vacuum control
- Controlled solvent recovery via high-performance condenser (pressure-side)
- Collects particles in the system (suction-side)
- Maintenance-free and quiet

Technical specifications:

Art. No.	AY16.1	AY17.1	AY18.1
System	SC 820	SC 840	SC 842
Pump type	N 820.3 FT.18	N 840.3 FT.18	N 842.3 FT.18
Delivery rate	20 l/min	34 l/min	
End vacuum (abs.)	8 mbar		2 mbar
Overpressure	1 bar		
Connection	for hose inner Ø 10 mm		
Materials in contact with media	Pump head: TFM™ PTFE, Diaphragms: PTFE-coated, Valves: FFPM		
L x W x H	397 x 289 x 506 mm	417 x 289 x 506 mm	
Weight	16.0 kg	19.3 kg	20.1 kg
Mains connection	230 V, 50 Hz		

Delivery incl. base plate, separator, condenser, vacuum controller with control unit, wiring and hoses.

Type	Art. No.	Pack Qty.	
SC 820	AY16.1	1 unit(s)	
SC 840	AY17.1	1 unit(s)	
SC 842	AY18.1	1 unit(s)	



Vacuum systems



Vacuum system LVS 105 T-10 ef+

WELCH Vacuum.

Specially designed for rotary evaporators, distillation, filtration, vacuum ovens and vacuum drying. With chemical-resistant diaphragm vacuum pump and vacuum controller VCpro600. To ensure a freely selectable vacuum of ± 1 mbar, the pump speed is continuously adapted to the gas load.

Advantages:

- Faster process results are ensured by constant evaporation and degassing
- Automatic vacuum adjustment and control
- Controller with large, multilingual colour display and light/dark screen mode for optimum visibility
- Integrated solvent library with stored distillation-specific parameters and freely adjustable boiling points; storage of individual pressure curves for novel processes possible
- With communication interface for remote control/monitoring, for downloading logged process data and for software updates
- Low-noise operation through speed reduction

Technical specifications:

Art. No.	NH35.1
System	LVS 105 T-10 ef+
Delivery rate	18 l/min
End vacuum (abs.)	< 2,0 mbar
Connection	for hose inner Ø 8 mm
Materials in contact with media	Pump head: PTFE with carbon fibre reinforcement, Diaphragms: Elastomer with PTFE coating, Valves: PEEK, Seals: EPDM, Screw fittings/connecting elements: PP, PVDF, Vacuum hose: PTFE
Port	RS 232, LAN
W x D x H	250 x 260 x 435 mm
Weight	9,5 kg
Mains connection	115–240 V, 50/60 Hz

Delivery incl. chemical-resistant diaphragm pump, built-in controller, ecoflex control unit, suction-side separator with 500 ml round bottom flask, pressure-side intensive cooler with 500 ml round bottom flask and safety valve.

Type	Art. No.	Pack Qty.	
LVS 105 T-10 ef+	NH35.1	1 unit(s)	



Vacuum system PC 3000 VARIO select series

Vacuubrand.

Optimal solution for chemical processes requiring a precise vacuum, such as rotary evaporation, vacuum drying or vacuum concentration, by combining the speed-controlled VARIO chemical diaphragm pump and VACUU-SELECT vacuum controller.

- Uncompromising chemical version: Excellent chemical resistance throughout from the suction side to the pressure side
- Precise and efficient vacuum control via the pump speed (VARIO technology).
- Vacuum controller with graphical user interface and predefined vacuum processes for all standard laboratory applications.
- Automatic boiling point detection and vacuum adaptation for short process times.
- Application, required vacuum and other parameters can also be individually configured and controlled.
- Very quiet and low vibration operation.
- Excellent environmental compatibility through low energy consumption, extended maintenance intervals and efficient solvent recovery.
- Suction-side separator made of glass with protective coating retains particles and droplets, very compact pressure-side emission condenser enables almost 100% solvent recovery.
- Interfaces for remote monitoring, remote control, data transfer (export/import), software updating

Technical specifications:

Art. No.	1EN0.1	1EN1.1
System	PC 3001 VARIO select	PC 3003 VARIO select
Delivery rate	33 l/min, 2,0 m³/h	46 l/min, 2,8 m³/h
End vacuum (abs.)	2 mbar	0,6 mbar
End vacuum abs. with gas ballast	4 mbar	1,5 mbar
Overpressure	0,1 bar	
Ambient temperature	+10 – +40 °C	
Materials in contact with media	ETFE pump head, carbon fibre-reinforced, Diaphragms: PTFE sandwich, Valves: Perfluoroelastomer (FFKM), Cylinder wiring/hose nozzles: PTFE, ETFE, ECTFE	
Port	USB type A, LAN	
Motor power	160 W	530 W
L x W x H	303 x 306 x 400 mm	419 x 243 x 457 mm
Weight	8,2 kg	21,1 kg
Mains connection	230 V, 50/60 Hz	

Delivery incl. chemical-resistant diaphragm pump, vacuum controller, emission condenser, separator, round flask and hose connections.

PC 3001 VARIO select

Extremely compact and powerful, very good end vacuum even with the opened gas ballast valve.

Type	Art. No.	Pack Qty.	
PC 3001 VARIO select	1EN0.1	1 unit(s)	

PC 3003 VARIO select

Ideal for high boilers and low evaporation temperatures due to the particularly low end vacuum.

Type	Art. No.	Pack Qty.	
PC 3003 VARIO select	1EN1.1	1 unit(s)	

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