

Evaporators



EVA-LS1 MT
with tripod



EVA-EC2L
with motor-driven lift

The EVA-EC complete systems for 48, 24, or 16 samples consist of:

- Evaporator with gas dosing unit and motor-driven lift or stand unit
- EC thermostat with heating bath for interchangeable heating blocks, working temperature up to 130°C or 210°C
- 1 heating block for 48, 24, or 16 standard test tubes Ø16 mm, drilling depth 65 mm
- 48, 24, or 16 stainless steel cannulas, optionally coated with PVDF (surcharge) Microtiter plates: 96 cannulas
- PU connection hose with adapter for connection to gas fittings
- Optional: Adapter plate for use with Pasteur pipettes or pipette tips (additional charge)
- Optional: Gas pressure reducer with pressure gauge

Köhler-VLM evaporators are a cost-effective alternative to rotary evaporators and other concentrators when a large number of samples need to be processed. The evaporation of the solvent is accelerated by gassing with nitrogen, a method that is particularly gentle on oxidation-sensitive samples. The metal block thermostats serve to compensate for the evaporation cold, thereby maintaining the temperature of the system.

A complete evaporator system consists of the evaporator unit with a motor-driven lift or a manually height-adjustable stand, the gas dosing unit, and the metal block thermostat QS, EC, LS, or VIS. In the lift version, this stands on a base plate that can be pulled out to the front, making it very convenient to replace the heating blocks or samples.

After turning the gas dosing unit of the EVA lift by 180°, the stainless steel cannulas or Pasteur pipettes (adapter plate required) can be conveniently inserted into the silicone holders from above. In the stand version, the gas dosing unit can be removed and also loaded from above after turning it over.

We supply cabinets as accessories that can be connected to a laboratory ventilation system if there is no space in the laboratory fume hood. It is also possible to pulse the nitrogen flow and switch it off after a preselected time.

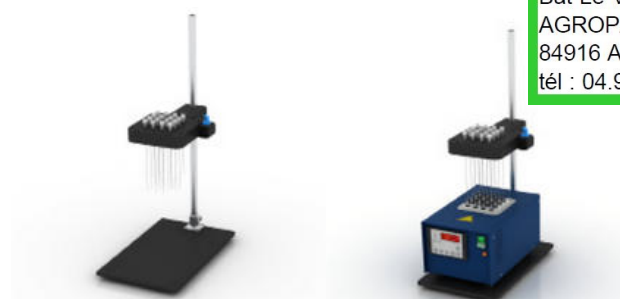
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Type EVA QS	samples	Order no.	Price €
EVA QS-S, complete system	16	V.830.033.122	2.690,00
EVA QS tripod + N2 canister.	16	V.833.000.002	1.040,00
QS-130-V thermostat	16	V.660.061.920	1.340,00
Heating block HB-QS-16-16	16	V.814.220.000	310,00
Adapter plate for Pasteur pipettes	16	V.826.812.000	280,00



Type EVA EC1	samples	Order no.	Price €
EVA EC1-S tripod, complete system	24	V.830.011.122	2.990,00
EVA EC1-L Lift, complete system	24	V.830.511.122	5.335,00
EVA EC-1 S, tripod + N2 canister.	24	V.832.000.002	1.155,00
EVA EC-1 L, Lift + N2 Dos.	24	V.832.416.003	3.500,00
Thermostat EC1V-130	24	V.649.061.920	1.475,00
Heating block HB-EC1-24-16	24	V.804.220.000	360,00
Adapter plate for Pasteur pipettes	24	V.826.612.000	330,00

Evaporators

for stripping solvents with nitrogen



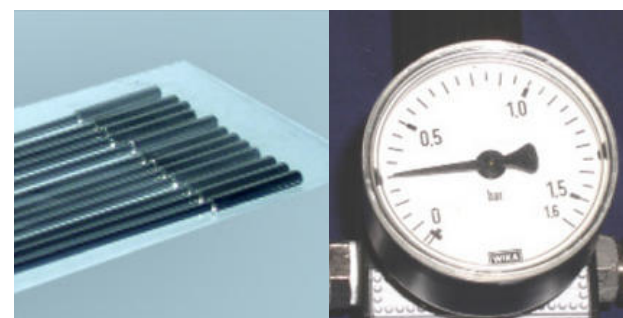
Type EVA EC2	samples	Order no.	Price €
EVA EC2 tripod, system	48	V.830.012.122	3.970,00
EVA EC2 lift, system	48	V.830.512.122	6.290,00
EVA EC2-S tripod + N2 canister.	48	V.831.000.002	1.770,00
EVA EC2-L Lift + N2 dosing.	48	V.832.416.005	4.090,00
Thermostat EC-2V-130	48	V.659.061.920	1.740,00
Heating block HB-EC2-48-16	48	V.803.220.000	460,00
Adapter plate for Pasteur pipettes	48	V.826.712.000	520,00



Type EVA LS1 MT	samples	Order no.	Price €
EVA-LS1-S-MT, complete system	96	V.830.211.105	4.055,00
EVA LS-1 L MT, complete system	96	V.830.721.105	6.550,00
EVA LS1 MT tripod + N2 canister.	96	V.832.000.012	2.185,00
EVA LS1 MT Lift + N2 dosing.	96	V.832.416.013	4.680,00
Thermostat LS-1V-130	96	V.668.161.920	1.430,00
Heating block HB-LS1-MT-R	96	V.802.020.000	440,00



Type EVA VIS	samples	Order no.	Price €
EVA VIS-72 Complete System	72	V.830.541.122	9.940,00
EVA VIS Lift + N2 dosing.	72	V.834.416.001	5.000,00
EVA VIS-100 thermostat	72	V.685.260.220	3.470,00
Heating block HB-EVAVIS-24-16 (3 pcs. required)	24	V.816.220.000	490,00



Type EVA LS MT	Order no.	Price €
Adapter plate for Pasteur pipette 72	V.826.412.000	720,00
Pressure reducer with pressure gauge	V.825.211.130	123,00
Set of stainless steel cannulas (12 pieces) A-Ø 2.0 mm I-Ø 1.0 mm Length 150 mm	V.825.211.003	124,00
Set of stainless steel cannulas (12 pieces) A-Ø 2.0 mm I-Ø 1.0 mm Length 150 mm PVDF coated	V.825.221.003	134,50
Replacement metering screws for gas metering units, 12 pcs.	V.825.211.100	64,00
Replacement PU hose, clear, 2 m	V.825.211.110	8,00

Heating blocks for evaporators

For all sample containers commonly used in laboratories



Max. Working temp.	Type	Order no.	Price €
130°C	QS-1V-130	V.660.061.920	1.340,00
210°C	QS-1V-210	V.660.062.920	1.380,00

QS blocks for test tubes, round bottom	Ø	drilling	Type	Order no.	Price €
	12,2	16	HB-QS-16-12	V.814.180.000	330,00
	16,2	16	HB-QS-16-16	V.814.220.000	310,00
	17,2	16	HB-QS-16-17	V.814.230.000	330,00

QS blocks for chromatography vials, flat bottom "F"	Ø	drilling	Type	Order no.	Price €
	11,8	16	HB-QS-16-11F	V.814.270.000	350,00
	15,2	16	HB-QS-16-15F	V.814.280.000	350,00

QS blocks for Eppendorf tubes 1.5 ml and 2.0 ml	ml	Pr.	Type	Order no.	Price €
	1,5	16	HB-QS-16-1,5EP	V.814.080.000	350,00
	2	16	HB-QS-16-2,0EP	V.814.090.000	350,00

Prices for heart blocks with non-listed boreholes available on request



Max. Working temp.	Type	Order no.	Price €
130°C	EC-1V-130	V.649.061.920	1.475,00
210°C	EC-1V-210	V.649.062.920	1.525,00

EC blocks for test tubes, round bottom	Ø	drilling	Type	Order no.	Price €
	12,2	24	HB-EC1-24-12	V.804.180.000	380,00
	16,2	24	HB-EC1-24-16	V.804.220.000	360,00
	17,2	24	HB-EC1-24-17	V.804.230.000	360,00
	18,2	12	HB-EC1-12-18	V.804.840.000	380,00
	20,2	12	HB-EC1-12-20	V.804.850.000	380,00
	22,2	12	HB-EC1-12-22	V.804.860.000	380,00
	26,5	12	HB-EC1-12-26	V.804.890.000	400,00

EC blocks for chromatography vials, flat bottom "F"	Ø	drilling	Type	Order no.	Price €
	11,8	24	HB-EC1-24-11F	V.804.270.000	380,00
	15,2	24	HB-EC1-24-15F	V.804.280.000	380,00
	23,2	12	HB-EC1-12-23F	V.804.870.000	400,00
	24,5	12	HB-EC1-12-24F	V.804.880.000	400,00
	26,5	12	HB-EC1-12-26F	V.804.820.000	400,00

QS blocks for Eppendorf tubes 1.5 ml and 2.0 ml	ml	Pr.	Type	Order no.	Price €
	1,5	24	HB-EC1-24-1,5EP	V.804.080.000	400,00
	2	24	HB-EC1-24-2,0EP	V.804.090.000	380,00

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Heating blocks for evaporators

For all sample containers commonly used in laboratories



Max. Working temp.	Type	Order no.	Price €
130°C	EC-2V-130	V.659.061.820	1.110,00
210°C	EC-2V-210	V.659.062.820	1.140,00



Max. Working temp.	Type	Order no.	Price €
130°C	LS-1V-130	V.668.161.920	1.430,00

EC blocks for test tubes, round bottom	Ø	Order no.	Type	Order no.	Price €
	12,2	48	HB-EC2-48-12	V.803.180.000	420,00
	16,2	48	HB-EC2-24-18	V.803.220.000	395,00
	17,2	48	HB-EC2-48-17	V.803.230.000	425,00
	18,2	24	HB-EC2-24-18	V.803.840.000	425,00
	20,2	24	HB-EC2-24-20	V.803.850.000	425,00
	22,2	24	HB-EC2-24-22	V.803.860.000	425,00
	26,5	24	HB-EC2-24-26	V.803.890.000	425,00

EC blocks for chromatography vials, flat bottom "F"	Ø	drilling	Type	Order no.	Price €
	11,8	48	HB-EC2-48-11F	V.803.270.000	425,00
	15,2	48	HB-EC2-48-15F	V.803.280.000	425,00
	23,2	24	HB-EC2-24-23F	V.803.870.000	425,00
	24,5	24	HB-EC2-24-24F	V.803.880.000	425,00
26,5	24	HB-EC2-24-25F	V.803.820.000	425,00	

QS blocks for Eppendorf tubes 1.5 ml and 2.0 ml	ml	Pr.	Type	Order no.	Price €
	1,5	48	HB-EC2-48-1,5-EP	V. 803.080.000	420,00
	2	48	HB-EC2-48-2,0-EP	V. 803.090.000	420,00

Heating blocks HB-LS1-MT for LS1 thermostats	Wells	drilling	Order no.	Price €
	around	96	V.802.020.000	440,00
	flat	96	V.802.030.000	440,00
	pointed	96	V.802.040.000	440,00
	pointed	96	V.802.050.000	440,00



Prices for heart blocks with non-listed boreholes available on request

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The Evaporator-VIS

The illustration on the left shows the standard version of the device for use with 3 heating blocks for 72 standard test tubes Ø 16 mm.

The heating blocks are equipped with longitudinal slots so that the falling liquid level in the front block can be observed. A fluorescent lamp provides better lighting conditions. Under these conditions, it is possible to concentrate the samples to a residual volume.

The nitrogen supply for the rear heating blocks can be opened with a time delay. Most of the solvent has already evaporated, as it is not necessary to monitor the liquid level during this phase.

After removing the front block, the blocks behind it are pulled forward to stop evaporation in the final phase. Thanks to this time-saving procedure, the Köhler VLM Evaporator VIS enables a high sample throughput.

We supply heating blocks for test tubes, Eppendorf reaction vessels, chromatography vials, round-bottom and pointed flasks.

The gas dosing unit is divided into three chambers, each of which is supplied with nitrogen separately. The flow rate for each of the up to 72 samples is set individually using the valve screws. Unused outlets remain closed. Instead of stainless steel capillaries, glass Pasteur pipettes can be used after attaching the adapter plate.

The thermostat is equipped with a JUMO microprocessor PID controller and ensures precise temperature control of the samples and compensation for evaporation cooling.

Subject to technical changes.

Technical specifications

capacity	Up to a maximum of 72 samples
operating temperature	5°C > Room temperature up to max. 100 °C
temperature control	Microprocessor controller (PID) with ramp and timer function
display	LED display, resolution 0.1 °C
Temperature Sensor	1 x Pt 100
housing	stainless steel
Temp. Stability over time	± 0,1 °C
Dimensions L / W	540 x 475 mm
Power W	600W

	Order no.	Type		Ø mm	No.	Price €
Heating blocks HB-EVA-VIS 3 blocks per heating tray	V.816.220.000	HB-EVA-VIS-24-16	test tubes	16,2	24	490,00
	V.816.520.000	HB-EVA-VIS-24-11,8F	Chrom. Vials 1,5 ml	11,8F	24	540,00
	V.816.540.000	HB-EVA-VIS-24-15,0F	Chrom. Vials 4 ml	15,0F	24	540,00
	V.816.570.000	HB-EVA-VIS-12-23,2F	Headspace Vials	23,2	12	540,00
	V.816.310.000	HB-EVA-VIS-6-10-SPK	pointed piston	10 ml	6	1.200,00

	Order no.	Type		Ø mm	No.	Price €
Heating blocks HB-EVA-VIS, 2 blocks per heating pan	V.815.220.000	HB-EVA-VIS-34-16	test tubes	16,2	34	560,00
	V.815.310.000	HB-EVA-VIS-12-10-SPK	pointed piston	10 ml	12	1.100,00
	V.815.340.000	HB-EVA-VIS-4-100-SPK	pointed piston	100 ml	4	1.400,00
	V.815.930.000	HB-EVA-VIS-12-10-RK	round flask	10ml	12	1.300,00
	V.815.960.000	HB-EVA-VIS-4-100-RK	round flask	100ml	4	1.600,00

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