

Laboratory Vacuum Systems, ILMVAC®

Chemical resistant laboratory vacuum systems

The LVS laboratory vacuum systems are compact pump systems for conventional vacuum distillation. Equipped with a chemical-resistant diaphragm pump they are the ideal solution for numerous applications in chemical laboratories and in research.

According to the application, ILMVAC LVS models can be supplied with or without vacuum control. Three control philosophies are available, the standard version being a chemically resistant solenoid valve with two point control. Operation of the controller has been simplified so that it is easy to learn and can also be performed from a PC.

Our LVS systems are available with many different features and in numerous versions, enabling them to be adapted without difficulty to countless applications.

Your safety is important for us. All components of our pump systems which come into contact with gas are made of high-grade, chemically resistant material. This means that they can even be used to evacuate solvent and acid vapors.

Glassware is coated with a clear plastic layer, through which the process can be observed at all times. The high-pressure side of the cooler is insulated.

Scope of supply:

- Chemically resistant diaphragm pump equipped with gas ballast valve
- Pump carrier
- Suction side separator with round bottom flask 500 ml
- Exhaust side intensive cooler with round bottom flask 500 ml
- With safety valve
- Ready for installation interconnects
- Suction connection for hose DN8
- Power supply 230 V / 50/60 Hz

Advantages:

- Oil free vacuum
- All wetted parts in chemically resistant materials (PTFE or PEEK)
- Nearly 100% solvent recovery
- Suitable for continuous operation
- Long life span
- Compact modular design
- Small noise level

Laboratory Vacuum System LVS, for unregulated vacuum

Scope of delivery:

- Exhaust side separator with round bottom flask 500 ml, intensive cooler not required
- Safety valve not required

Dimensions (WxDxH): 350 × 320 × 440 mm

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Weight kg	Order No.
LVS 300 Z	< 8	2.3/2.5	16.1	56 92 13041
① LVS 600 T	< 2	4.5/4.9	23.2	56 92 13051

Laboratory vacuum systems LVS, with one manual adjustable connection

Scope of delivery:

- One unregulated connection with control valve

Dimensions (WxDxH): 350 × 320 × 440 mm

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Weight kg	Order No.
LVS 101 Z	< 8	1.0/1.1	11.6	56 92 13022
LVS 301 Z	< 8	2.3/2.5	16.0	56 92 13042
LVS 201 T	< 2	1.8/2.2	15.0	56 92 13032
LVS 601 T	< 2	4.5/4.9	23.1	56 92 13052

Laboratory vacuum systems LVS, with two manual adjustable connections

Scope of delivery:

- Two unregulated connections with control valve

Dimensions (WxDxH): 350 × 320 × 440 mm

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Weight kg	Order No.
② LVS 302 Z	< 8	2.3/2.5	16.7	56 92 13043
LVS 602 T	< 2	4.5/4.9	23.9	56 92 13053



①



②

Laboratory vacuum systems LVS, for one automatic controlled connection

Scope of delivery:

- One controlled connection
- Controller with display, sensor and airing valve

Dimensions (WxDxH): 350 x 320 x 440 mm
540 x 330 x 460 mm (LVS 1210 T)

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Weight kg	Order No.
③ LVS 110 Z	< 8	1.0/1.1	12.7	56 92 13024
LVS 310 Z	< 8	2.3/2.5	17.8	56 92 13044
LVS 210 T	< 2	2.0/2.2	15.7	56 92 13034
LVS 610 T	< 2	4.5/4.9	24.4	56 92 13054
LVS 1210 T	< 2	8.3/9.1	36.3	56 92 13064



③

Laboratory vacuum systems LVS, for one automatic and one manual controlled connection

Scope of delivery:

- One controlled and one uncontrolled connection with regulating valve
- Controller with display, sensor, airing valve and non-return valve

Dimensions (WxDxH): 350 x 320 x 440 mm

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Weight kg	Order No.
④ LVS 311 Z	< 8	2.3/2.5	18.1	56 92 13045
LVS 611 T	< 2	4.5/4.9	25.0	56 92 13055



④

Laboratory vacuum systems LVS economic, one controlled vacuum connection via stand-by

Scope of delivery:

- Controller with sensor and airing valve
- One controlled connection

Dimensions (WxDxH): 350 x 320 x 440 mm

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Wght kg	Order No.
LVS 310 Z en	< 8	2.3/2.5	17.5	56 92 13048
LVS 610 T en	< 2	4.5/4.9	24.7	56 92 13058



⑤

Laboratory vacuum systems LVS ecoflex, one controlled connection via variable pump speed

Scope of supply:

- Chemically resistant diaphragm pump equipped with gas ballast valve
- One controlled connection
- Controller with sensor and airing valve

Dimensions 250 x 260 x 435 mm (LVS 105 T – 10 ef)
(WxDxH): 350 x 320 x 440 mm (LVS 310 Z ef, LVS 210 T ef, LVS 610 T ef)
540 x 330 x 460 mm (LVS 1210 T ef)

Type	Ultimate total pressure mbar	Suction rate 50/60 Hz m³/h	Wght kg	Order No.
⑤ LVS 310 Z ef	< 8	2.6	19.9	56 92 13074
LVS 105 T – 10 ef	< 2	1.2	9.5	10 92 43184
LVS 210 T ef	< 2	2.2	19.0	56 92 13124
LVS 610 T ef	< 2	4.9	26.8	56 92 13084
⑥ LVS 1210 T ef	< 2	9.1	37.1	56 92 13094



⑥

Accessories for laboratory vacuum systems

Article	Order No.
Vacuum tubing, rubber, red	56 92 83104
Tubing shaft DN 10, PP	56 92 79351
Suction socket DN 16 KF, PP	56 92 70116
Suction socket DN 25 KF, PP	56 92 70117
Operating pad	10 92 43513
On operating software ILMVAC-Control + dual-data-cable	10 92 40617

