Oil-Free Diaphragm Vacuum Pump - Lab Vacuum and Pressure Pump - 30-60 L/min - 24 h Duty

Model **MSVACP-LH51SWISS, MSVACP-LH52SWISS, MSVACP-LH102SWISS** | Brand **Master Science**







The Master Science Oil-Free Diaphragm Pump is a general-purpose laboratory vacuum pump for vacuum filtration, rotary evaporation, drying ovens and similar work. It runs without oil, stays quiet below 50 dB and is rated for continuous 24-hour operation.

KEY HIGHLIGHTS

- Replaces water jet pumps
- Steady vacuum
- Two functions in one
- Runs all day
- Plug and play

AT A GLANCE

30 / 30 / 60 L/min
PUMPING SPEED

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

The vacuum level is held steady and can be adjusted with a valve. Besides two vacuum-only versions, the series includes a dual-function model that supplies both vacuum and pressure, so one pump can cover two jobs.

Overview

- HNBR diaphragm
- 1 or 2 heads
- 30 or 60 L/min

Key Benefits

Replaces water jet pumps
the Master Science Oil-Free Diaphragm Pump saves water and avoids contamination.

Steady vacuum
valve adjustment holds the set level.

Two functions in one
LH102 gives vacuum and pressure.

Runs all day
rated for 24-hour operation.

Plug and play
portable and ready to use.

For corrosive vapours, choose the Master Science chemical resistant PTFE diaphragm pump.

Technical Specifications

GENERAL

General	Specifications of the Master Science Oil-Free Diaphragm Pump range (LH51 / LH52 / LH102):
Brand	Master Science
Model Number	MSVACP-LH51SWISS, MSVACP-LH52SWISS, MSVACP-LH102SWISS
SKU	MSVACP-LH51SWISS, MSVACP-LH52SWISS, MSVACP-LH102SWISS
Brand	Master Science
Model Numbers	MSVACP-LH51SWISS, MSVACP-LH52SWISS, MSVACP-LH102SWISS
SKU	MSVACP-LH51SWISS, MSVACP-LH52SWISS, MSVACP-LH102SWISS
Function	Vacuum / vacuum / vacuum and pressure
Pumping Speed	30 / 30 / 60 L/min
Ultimate Vacuum	150 mbar (>0.085 MPa) / 50 mbar (>0.095 MPa) / 150 mbar (>0.085 MPa)
Pump Heads	1 / 2 / 2
Diaphragm	HNBR
Noise	< 50 dB
Duty	Continuous, 24 h
Pressure Output	LH102: 40 psi
Motor Power	180 W

DIMENSIONS & WEIGHT

Dimensions (L × W × H)	250 × 135 × 210 / 315 × 135 × 210 / 315 × 135 × 210 mm
Weight	7.5 / 10 / 10 kg

COMMON LABORATORY PROBLEMS AND HOW THIS PUMP HELPS

Common Laboratory Problems and How This Pump Helps	How the Master Science Oil-Free Diaphragm Pump handles common vacuum needs:
Water wasted by water jet pumps	dry diaphragm pump.
Fluctuating vacuum	valve-stabilised level.
Separate pumps for vacuum and pressure	dual-function LH102.
Oil mist in the lab	oil-free design.

Applications

The Master Science Oil-Free Diaphragm Pump is used for
Vacuum filtration Vacuum drying ovens Molecular distillation Vacuum concentration Gel drying

Operation

- Oil-free, below 50 dB
- Valve-adjustable vacuum
- 24-hour continuous duty

Design

- Compact and portable
- Gauge on the pump head
- Easy maintenance