# 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.

support@themsci.com
www.themsci.com

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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

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|---|---|
| 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 |
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| 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