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## User's Manual

### I . Brief Introduction

JOANLAB vacuum pump adopts international advanced design concept and manufacturing technology. Smooth and beautiful shape, compact and firm structure, high versatility, simple operability, etc. Point, a rare instrument for scientific research experiments. This vacuum pump is mainly used for Vacuum filtration, solvent filtration, vacuum distillation, vacuum drying solid phase extraction, used for compression And conversion gas.

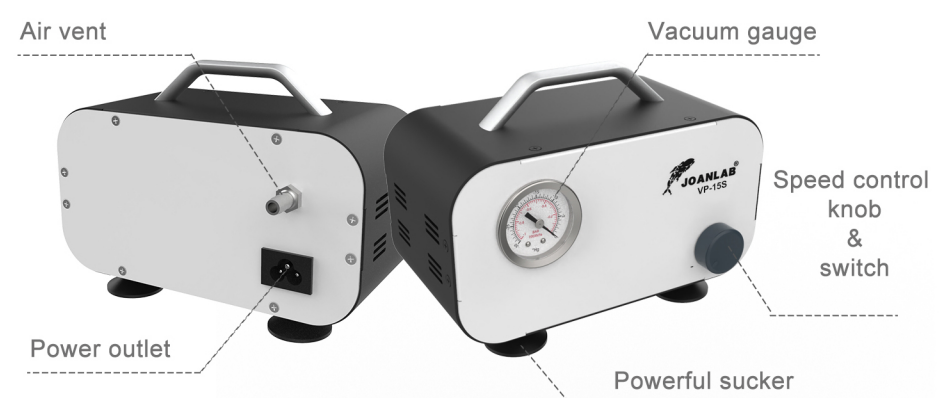
### II. Products Overview



### III. Products Introduction




(Oil-free diaphragm vacuum pump)



(Adjustable oil-free diaphragm vacuum pumpL)

IV. Technical Data

Model	VP-10L	VP-15L	VP-15S	VP-30L
Product name	Oil-free diaphragm vacuum pump			
Product Image				
Type	Negative pressure			Positive and negative pressure
Adjustable Pumping Speed	NO	NO	YES	NO
Pumping Rate (L/min)	10	15	0-15	30
Ultimate Vacuum / Negative Pressure (Mpa)	0.075	0.08	0.08	0.085
Max Pressure / Positive Pressure(bar)	/	/	/	5.0
Noise (db)	<40	<45	<45	<50
Motor Power (W)	20	30	30	50
Valve Diaphragm	Imported rubber			
Overload Protection	Have	Have	Have	Have
Over Temperature Protection	Have	Have	Have	Have
Short Circuit Protection	Have	Have	Have	Have
Dimensions (mm)	192*100*135	192*100*135	192*100*135	240*120*160
Weight (kg)	1.58	1.58	1.58	2.68

V . Operation Guide

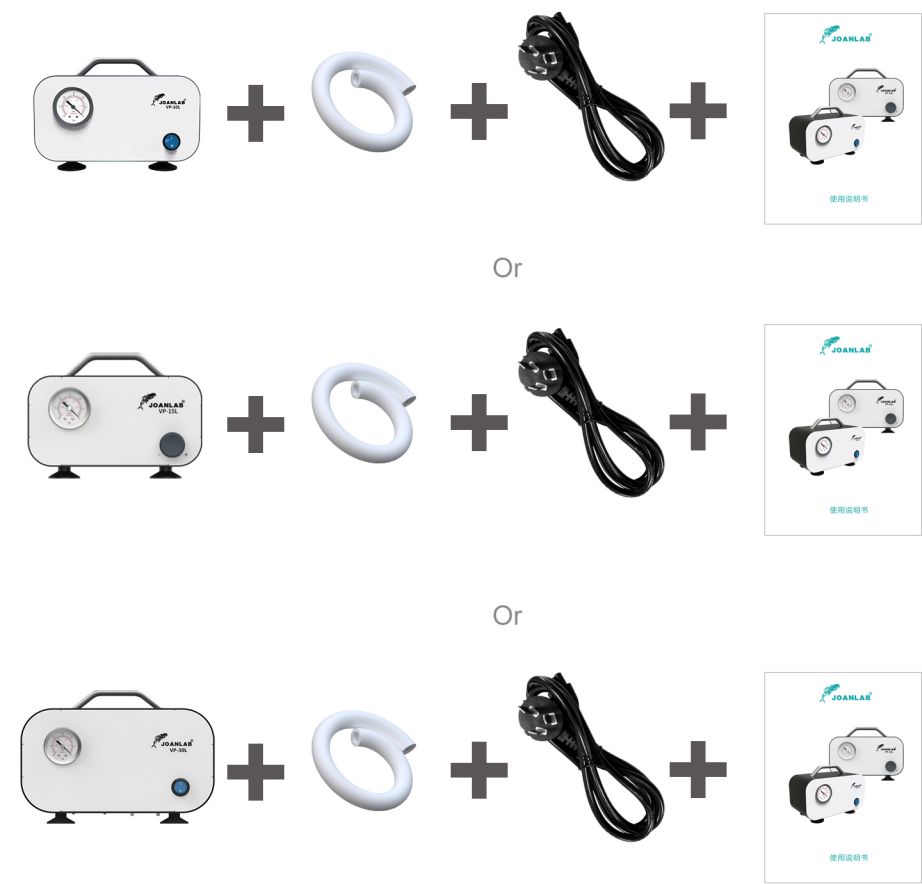
/// Basic operating guide

Application

> It is mainly used for vacuum filtration, solvent filtration, vacuum distillation, vacuum drying solid phase extraction, and can also be used with a rotary evaporator to compress and convert gases.

Delivery package

> Vacuum pump    > Vacuum tube    > Power cord    > Instruction manual



Applied Area

> It is widely used as an experimental tool in institutions of higher learning, environmental protection, sanitation, epidemic prevention, chemical industry, tap water and medical treatment.

Using Steps

**Oil-free diaphragm vacuum pump**

> Plug in the plug and turn on the power switch

**Adjustable oil-free diaphragm vacuum pump**

- > Plug in
- > Turn the knob clockwise to turn on the switch
- > Rotate the knob to adjust the pumping rate

⚠ Instrument Use Environment

- > Indoor use
- > Altitude: ≤2000m
- > The working temperature range of the instrument is +5℃~+40℃
- > The applicable temperature range of the instrument is ≤80%
- > There is no vibration and airflow that affect performance around
- > Keep a safety distance of 10cm before and after the instrument is working

⚠ Safety Precautions

- > It is strictly forbidden to unplug and plug the power connector and toggle the power button when the hands are wet with liquid!
- > It is strictly forbidden to unplug the power plug when the instrument is live!
- > It is strictly forbidden to maintain and clean the instrument when it is powered on!
- > It is strictly forbidden to install the instrument on an uneven, swaying and vibrating work surface!

Certificate Of Product Qualification

Product Name :                     Vacuum Pump                    

Product Model : ☐VP-10L ☐VP-15L ☐VP-15S ☐VP-30L

Production Date : \_\_\_\_\_