

# Mini Laboratory Pump with Fine Control Valve and Vacuum Gauge



- Suitable for Aspiration and Filtration
- 100% oil-free
- Fitted with fine control valve and gauge
- Optional footswitch

## Technical Data

Delivery (l/min)	6
Ultimate Vacuum (mbar abs)	100
Operating Pressure (bar g)	2.4
Connectors for tube (mm)	ID 4
Permissible gas and ambient temperature	+5...+40°C
Mains	230V/50Hz
Motor Protection	IP 20
Power P <sub>1</sub>	65W
Operating Current	0.63 A
Weight (kg)	1.9
Dimensions LxHxW (mm)	164x141x90

With thermal switch and power fuse.

## N86 KN.45.18 (085000)

N86 diaphragm pumps are single-head, dry-running devices used in a wide range of laboratory applications. They transfer, compress and pump down without contamination. The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

## Material in contact with the pumped media

	Pump Head	Diaphragm	Valves
N86 KN.45.18	PPS	EPDM	FPM

## Accessories

	Order No
Footswitch	085544
Spares Kit	043241





## VP SERIES

### Portable Bench Top Vacuum Pumps

### VP1HV, VP2, VP3, VP4, VP5



#### Single & Twin Head Diaphragm Vacuum Pumps/Compressors

- For clean evacuation and transfer of air and gases.
- High Performance and long working life through the stressed-optimised KNF diaphragm.

Maximum Permissible gas and ambient temp: 40°C  
Standard motor: 230V/50Hz

#### Features

- Contamination free pumping of air and gases
- Quiet and smooth running
- Can be used as vacuum pump or compressor
- High tolerance of both vapour and condensate
- Simple Operation
- Completely portable
- Maintenance-free

#### Model Codes and Materials

Type	Pump Head	Diaphragm	Valves
VP1HV	Ryton	EPDM	Neoprene
VP2	Ryton	EPDM	Viton
VP3	Ryton	Neoprene	EPDM
VP4	Aluminium	Neoprene	Neoprene
VP5	Aluminium	Neoprene	Neoprene

#### Performance Data

Type	Flow Rate Litres/min	Vacuum Mbar/abs	Pressure Barg
VP1HV	5	25	0.3
VP2	6	100	2.4
VP3	15	100	--
VP4	23	213	2.0
VP5	39	213	2.0

#### Motor Data

Type	Voltage/ Frequency	Power PI (W)	Operating Current (A)
VP1HV	230/50	50	0.60
VP2	230/50	60	0.75
VP3	230/50	60	0.75
VP4	230/50	60	0.45
VP5	230/50	90	0.60

#### Dimensions

Type	Weight	Dimensions
VP1HV	2.0 Kg	185 x 125 x 145 mm
VP2	1.75 Kg	185 x 125 x 145 mm
VP3	2.5 Kg	185 x 125 x 145 mm
VP4	3.2 Kg	230 x 200 x 160 mm
VP5	4.3 Kg	230 x 200 x 160 mm

#### Accessories

Description	Order Number
Service Kit for VP1HV	085375
Service Kit for VP2	043241
Service Kit for VP3	085372
Service Kit for VP4	085328
Service Kit for VP5	085329
Foot switch	085544



## Media Aspiration System For Non-Hazardous Materials



### 2126, DS2126 Heavy Duty Vacuum Bottle

#### Materials:

- polypropylene
- white polypropylene closure
- TPE gasket

Our most durable NALGENE bottle. Large, thick-walled bottle with wide mouth for extra-rugged service. Polypropylene bottle and white polypropylene closure with TPE gasket provide leakproof service. Withstand application of full vacuum for 24 hours at 20°C.

NOTE: NALGENE® LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Nom. Cap., ml	4,000
Nom. Cap., oz.	128
Closure Size, mm	83B
No. per Pkg	1
No. per Case	6

2126-4000

### 2162 Filling/Venting Closure

#### Materials:

- white polypropylene, TPE gasket, TPE port caps, NALGENE 50 platinum-cured silicone tubing

All-plastic closures for aseptic liquid transfer of media, biological reagents and chemicals to and from NALGENE carboys. Can be used with any large NALGENE carboys or bottles that accept 53-mm (53B) or 83-mm (83B) closures.\* Choice of 1/2-inch (13-mm) or 1/4-inch (6-mm) I.D. tubing on 83B closure. Include two pieces NALGENE 50 platinum-cured silicone tubing, Cat. No. 8060, for drop tube and splash guard. Can be used with NALGENE Carboys with a properly set up peristaltic pump.



Cat. No.	2162-0831
Overall Height (w/o Tubing) x Dia., mm	98 x 102
Overall Height (w/o Tubing) x Dia., in.	3-7/8 x 4
Closure Size, mm	83B
Tubing I.D., in.	1/4
No. per Pkg	1
No. per Case	6

### 8000 Tubing



Cat. No.	I.D. x O.D. x Wall, in.	Max. Press. psig at 73°F; 23°C	Max. Press. psig at 125°F; 52°C	No. per Case
8000-0006	3/32 x 5/32 x 1/32	42	21	50