



Peristaltic pump "Percom N-M"

ELECTRONIC SPEED CONTROL WITH DIGITAL DISPLAY,
WITH MULTI HEAD ADAPTER FOR TUBES FROM 4 TO 12 mm Ø (EXT.).
ADJUSTABLE FLOW RATES FROM 1080 TO 73800 ml/hr.

FEATURES

Small footprint bench top model
Quiet with minimal vibrations.
Speed control 20 to 200 r.p.m.

CONTROL PANEL

Push button Stop/Start/switch.
Digital speed display.
Push button increase speed control.
Push button decrease speed control.

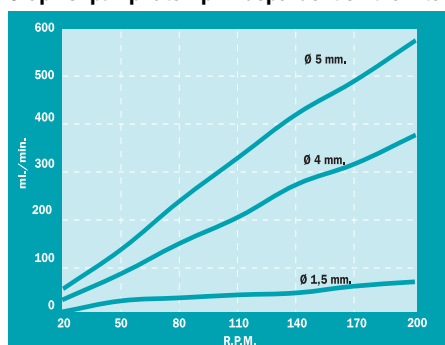
BACK

External control connection using a foot switch for.
Start / Stop, purchase as an accessory.

MODEL

| Part No. | Height / Width / Depth (exterior) cm | Pump rate of H ₂ O ml/hr | Power W | Weight Kg |
|----------------|---|--|------------|--------------|
| 3001300 | 16 12 18 | 1080 to 73800 | 12 | 2.6 |

Graph of pump rate/r.p.m. dependent on the internal tube Ø.



Graph showing with liquids: Distilled water. These characteristics vary according to the density of the liquid.



Peristaltic dosing pump "Peristaltic PR-2003"

ELECTRONIC SPEED CONTROL AND DIGITAL DISPLAY.
MULTI TUBE ADAPTER FROM 4 TO 12 mm Ø (EXT.).
ADJUSTABLE DOSING RATE PROGRAMMABLE FROM 10 ML TO 10 LITRES.
MAXIMUM PUMP RATE 1500 ml / minute.

FEATURES

Small foot print, bench top.
Silent and free from vibrations.
Pump tube held by a simple clamp
Glass dosing tip "PECIPUMP" provides precise dispensing.
Dispense rate: The pump can dispense set volumes over a set time period.
Flow rate: The pump dispenses at a constant rate over a set time or continuous operation.

Maximum tube wall recommended (mm): 2
Maximum external tube diameter (mm): 12
Note: The precision depends on the tube Ø and the speed.

BACK

Main On/Off switch.
Foot switch connection Start - Stop, for operation from a distance, supplied as an accessory.

CONTROL PANEL

Numeric keypad to enter values.
LCD display of 16 x 2 characters.
Calibration memory.
Change pump direction, control from the panel.
Rotation direction indicator
Foot switch connection for Start/Stop.

MODEL

| Part No. | Height/Width/Depth (exterior) cm | Pump rate of H ₂ O ml/hora | Power W | Weight Kg |
|----------------|-------------------------------------|--|------------|--------------|
| 4129050 | 25 19 23 | 90,000 | 65 | 4 |

| Ø tube (mm) | Dose rate (ml/minute) | |
|-------------|-----------------------|------------|
| | 60 r.p.m. | 400 r.p.m. |
| 4x8 | 80 | 500 |
| 6x9 | 140 | 1200 |
| 8x12 | 180 | 1500 |



TECHNICAL SPECIFICATIONS

Speed (r.p.m.): 60 - 400
Resolution (ml): 1 or 0.1
Dispensing range (ml): 10 - 9999
Pump rate See table
N° of programs: 99
N° of repeat doses: 9999
Repetition interval: 1 - 9

ACCESSORIES FOR PERISTALTIC PUMPS "PERCOM N-M" AND "PR2003"

Standard silicon tubing.

The part nos. tubing in 1 meter lengths.
Part No. **8991204** 4x 8 mm (Ø tube)
Part No. **8991205** 6x 9 mm (Ø tube)
Part No. **8991206** 8x12 mm (Ø tube)

START STOP foot pedal controller.
Part No. **1001044**



Silicon tube for peristaltic pumps

MODELS

| | Part No. | interior Ø mm | exterior Ø mm |
|----------------|----------|---------------|---------------|
| Standard tube* | 8991204 | 4 | 8 |
| | 8991205 | 6 | 9 |
| | 8991206 | 8 | 12 |



(*) Tubing supplied in 1 meter lengths.

| | Part No. | interior Ø mm | exterior Ø mm |
|--------------------|----------|---------------|---------------|
| Calibrated tubing* | 5253300 | 0.8 | 4 |
| | 5253400 | 1.7 | 4.9 |
| | 0686203 | 3 | 7 |
| | 5253600 | 3.1 | 6.3 |
| | 5253500 | 4.8 | 9.8 |
| | 0686210 | 5 | 9 |
| | 5253900 | 6.3 | 11.3 |
| | 5253800 | 7.9 | 11.1 |
| | 0686216 | 8 | 12 |



Sink weights and glass connections

FOR CENTRIFUGAL AND PERISTALTIC PUMPS.

FEATURES

Made of glass.

Adapters for centrifugal and peristaltic pumps.

For better aspiration and dispensing.



A. Sink weight "ASPIPUMP"

Surface olive that fixes to the tube. The sink weight maintains the tube at the bottom of the vessel being used for the aspirant liquid.

Part No. Tube size

| | |
|---------|-------------------|
| 5991204 | 4 mm Ø interior. |
| 5991206 | 6 mm Ø interior. |
| 5991208 | 8 mm Ø interior. |
| 5991210 | 10 mm Ø interior. |

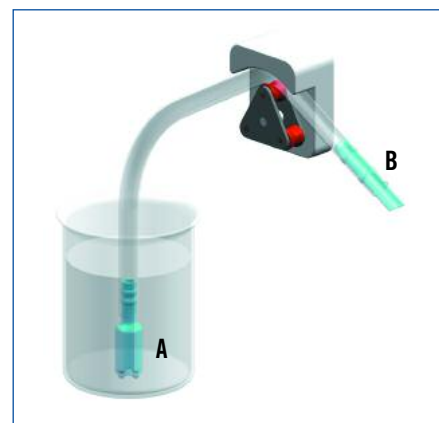


B. Spout "PECIPUMP"

Surface olive is pushed onto the inside of the dispensing end of the tube, liquids can then be dispensed easily and accurately.

Part No. Tube size

| | |
|---------|-------------------|
| 5991203 | 4 mm Ø interior. |
| 5991205 | 6 mm Ø interior. |
| 5991207 | 8 mm Ø interior. |
| 5991209 | 10 mm Ø interior. |



A. Sink weight "ASPIPUMP" an efficient way to aspirate to the last drop.

B. Spout "PECIPUMP" an exact way to dispense.



Membrane vacuum pump "Vacum-Sel"

FEATURES

Small footprint, bench top.

Quiet and vibration free.

Maximum working temperature: 40 °C.

CONTROL PANEL

Mains power switch.

Vacuum gauge, scale 0 to -1 bar.

Vacuum in.

Air out.

MODEL

| Part No. | Pump Rate litres/min. | Vacuum limit | Height / Width / Depth (exterior) cm | Power W | Weight Kg |
|----------|-----------------------|----------------------|--------------------------------------|---------|-----------|
| 3001001 | 1.08 | -0.6 bar ≈ 440 mm Hg | 19 14 19 | 35 | 3 |



Membrane vacuum and pressure pump "Vacum-Pres"

FEATURES

Small footprint, bench top.

Quiet and vibration free.

Maximum working temperature: 40 °C.

CONTROL PANEL

Mains power switch.

Vacuum gauge, scale 0 to -1 bar.

Pressure gauge, scale 0 to 2.5 bar.

Control for pressure/vacuum.

Vacuum in.

Pressure out.

MODEL

| Part No. | VACUUM | | Pressure | | Height / Width / Depth (exterior) cm | Power W | Weight Kg |
|----------|-----------------|--------------------|---------------------|---------------|--------------------------------------|---------|-----------|
| | Pump Rate /min. | Vacuum limit | Pressure Rate /min. | Max. Pressure | | | |
| 3001002 | 1.08 | -0.6 bar=440 mm Hg | 1.3 | 1.2 bar | 19 14 19 | 35 | 3.2 |



ROTARY VEIN PUMP WITH ANTI RETURN VALVE PREVENTS OIL FLOW BACK, SUITABLE FOR GENERAL LABORATORY APPLICATIONS. OVER TEMPERATURE MOTOR PROTECTION CUT-OUT AND MAIN ON/OFF SWITCH.

FEATURES

- Asbestos veins and internal joints.
- Aspiration connection 16 mm Ø in model 5900620 and 16 mm Ø in model 5900621.
- Analogue vacuum gauge.
- High oil volume and forced lubrication.
- Oil reservoir charge capacity: 25 cc in model 5900620 and 55 cc en model 5900621.
- Exhaust filter and ballast.
- Shock absorber mounted.
- Low noise level (62db)
- Maximum working temperature 60 °C.
- Portable with lifting handle.



MODELS

| Part No. | Pump rate m ³ /hr | Vacuum limit mbar | Height / Width / Depth (exterior) cm | r.p.m. | Power W | Weight Kg |
|----------------|---------------------------------|----------------------|---|--------|------------|--------------|
| 5900620 | 3.6 | 0.1 | 21 26.5 12 | 1400 | 120 | 7.6 |
| 5900621 | 1.8 | 0.06 | 25 32 13 | 1400 | 180 | 11 |

ACCESSORY

Pump oil for vacuum pumps,
1 litre bottle.
Part No. **5515030**

SPARE

Vacuum gauge
(Fits both models).
Part No. **5515031**



Water recirculation vacuum pump

DESCRIPTION

Made from a centrifugal pump that pulses water at a high velocity through suction aspirators, creating a pump rate of 10 litres/min from each pump connection. The vacuum achieved, 5 to 40mbar is dependent on the water temperature in the reservoir. Aspirated gasses from both inputs mix in the 10 litre reservoir. Although the interior of the pump is made from stainless steel and polypropylene it is a requirement to change the water in the pump to limit any attack of any chemicals or vapours absorbed in the water. For better protection of equipment it is recommended to connect a "Scrubber" to wash and neutralise any corrosive gasses.

The pump includes an exit valve that allows the water to be circulated externally. This can be used to empty and change the water in the reservoir to form an external re-circulation of water.

FEATURES

- Reduced water consumption.
- 2 independent connections, aspiration pump vacuum rate 10 litres/min
- Vacuum limit: 5 and 40 mbar (Dependent on water temperature)
- Capacity: 10 Litres
- Low noise level (<65dBA).
- Valve connections for entrance and exit of vacuum and external water recirculation.

CONTROL PANEL

- 2 vacuum connections.
- 2 analogue vacuum gauges.
- Illuminated mains switch.

MODEL

| Part No. | Height / Width / Depth (exterior) cm | Vacuum limit bar | Pump rate litre/minute | Power W | Weight Kg |
|----------------|---|---------------------|---------------------------|------------|--------------|
| 4001612 | 44 39 28 | 0.098 | 2 x 10 | 280 | 10 |



ACCESSORIES

System to neutralise vapours
"Scrubber".

Prevents condensed vapours of acids and neutralises gasses in a NaOH solution.

Model

| Part No. | Height / Width / Depth (exterior) cm | Weight Kg |
|----------------|---|--------------|
| 4001611 | 32 31 16 | 2 |



"Scrubber"

Re-circulation pump

FEATURES

Transfer, evacuation and compression, free from contamination. The models N-86 and N-022 of 2.5 and 4 bar of relative pressure, can be used also as a compressor.

Can be operated dry.

No lubrication required.

Maintenance free.

Silent.

The double head models are made with linear two phase membranes.

All Models (except model N-022), are made with a patented system of diaphragms manufactured with optimum tension, that results in a smaller more durable pump.

Approximate loss 6×10^{-3} mbar x L/s

Complete with thermal breaker and fuse.

Medium to high resistance to chemicals, (model dependant).

We advise that you check the compatibility of the pump performance with the materials that will be in contact with the pump parts (see table).



| MODELS / SPECIFICATIONS | N-86 | N-022 | N-816 | N-820 | N-840 |
|---|------------------------|------------------------|------------------------|-----------------------|------------------------|
| Part No. | 5910106 | 5910107 | 5910108 | 5910009 | 5910110 |
| Vacuum pump rate (to 1 Atm, of pressure) | 5.5 l/min | 13 l/min | 16 l/min | 20 l/min | 34 l/min |
| | 0.33 m ³ /h | 0.78 m ³ /h | 0.96 m ³ /h | 1.2 m ³ /h | 2.04 m ³ /h |
| Vacuum limit (mbar) absolute | 160 mbar | 100 mbar | 20 mbar | 8 mbar | 8 mbar |
| Pressure (bar) relative | 2.5 bar | 4 bar | 0.5 bar | 1 bar | 1 bar |
| Tube connection, Ø interior | 4 mm | 6 mm | 6 mm | 10 mm | 10 mm |
| Number of heads and phases | 1 | 1 | 2 | 2 | 2 |
| Head material | PPS | Aluminium | PPS | PTFE | PTFE |
| Membrane material (diaphragms) | PTFE | PTFE | PTFE | PTFE | PTFE |
| Valve material | FFPM | Stainless steel | FFPM | FFPM | FFPM |
| Motor protection level | IP-20 | IP-20 | IP-20 | IP-44 | IP-44 |
| Gas operating temperature and permissible ambient | 5 to 40 °C | | | | |
| Current (A) / Power (W) | 0.63 / 65 | 0.7 / 100 | 0.6 / 100 | 0.7 / 120 | 1.5 / 245 |
| Dimensions height x width x depth (cm) | 14 x 9 x 17 | 19 x 15 x 20 | 14 x 9 x 36 | 21 x 15 x 31 | 23 x 17 x 34 |
| Weight (Kg) | 1.9 | 4 | 3.95 | 9.3 | 12.6 |

| APPLICATIONS AND CHEMICAL RESISTANCE | N-86 | N-022 | N-816 | N-820 | N-840 |
|---|-------------|-------------|-------------|-------------|-------------|
| Chemical resistance (depends on medium being pumped.) | medium-high | medium-high | medium-high | medium-high | medium-high |
| For gasses and vapours very aggressive or corrosive | - | - | - | ✓ | ✓ |
| For gasses and vapours slightly aggressive or corrosive | ✓ | ✓ | ✓ | ✓ | ✓ |
| For liquid transfer and evacuation | ✓ | ✓ | ✓ | ✓ | - |
| For liquid transfer, evacuation and as a compressor | ✓ | ✓ | - | - | - |
| Ideal for vacuum filtration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Ideal for vacuum filtration, evaporation, drying and gel drying | - | - | - | ✓ | ✓ |

| SPARE PARTS | N-86 | N-022 | N-816 | N-820 | N-840 |
|--|----------------|----------------|----------------|----------------|----------------|
| Spares Kit: 1 membrane +2 valves + 2 gaskets | 5910120 | - | - | - | - |
| Spares Kit: 1 membrane +2 valves + 1 gasket | - | 5910121 | - | - | - |
| Spares Kit: 2 membrane +4 valves + 4 gaskets | - | - | 5910122 | 5910123 | 5910124 |