

EVAPORATORS



PERISTALTIC DOSING PUMP



MEMBRANE VACUUM AND PRESSURE PUMP "VACUM-PRES"



MEMBRANE VACUUM PUMPS



ROTARY VEIN VACUUM PUMPS



WATER RECIRCULATION VACUUM PUMP



LIQUID TRANSFER PUMP, ELECTRIC



LIQUID TRANSFER PUMP, MANUAL



CENTRIFUGAL PUMPS

Evaporators
Peristaltic dosing pumps
Rotary vein pump
Membrane vacuum pumps
Vaccum pumps
Water recirculation pumps
Centrifugal pumps
Liquid transfer pumps

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Rotatory evaporator "RS 3000-V" FOR 1000, 2000 AND 3000 ML. FLASKS.

Quality and safety. Rotary speed and bath temperature regulation

FEATURES

Compact rotatory evaporator composed of stainless steel AISI 304 case. Manual elevator system and bath made of dur-al alloy chemically treated. Rotatory speed: from 20 to 120 rpm.

Bath temperature: up to 200 °C.

External probe temperature: up to 100 °C.

Vacuum breaker with air inlet filter.

CONTROL PANEL



- 1. Starting main switch ON/OFF.
- 2. Digital reading indicator of external probe temperature.
- 3. Bath temperature digital regulator.
- 4. Rotator pump switch.
- 5. Heater bath switch.

SPARE PARTS

- 6. Water recirculation pump switch.
- 7. Regulator knob of rotating speed.

Vacuometer built-in the case.

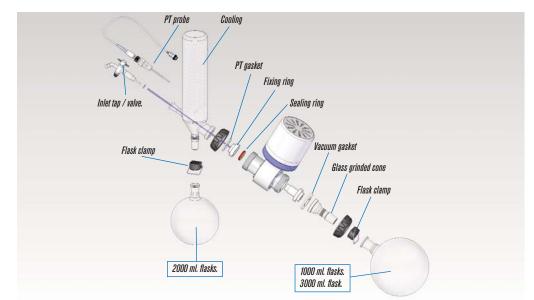
GLASS AND ITS ACCESSORIES DIAGRAM



MODEL

Part no Speed Height / Width / Depth Power Weigh Regulation t.p.m. (exterior) cm W Kg	RS 3000-V	6003000	0 to 120	26	46	45	1010	28
D		Part no	Speed Regulation t.p.m				Power W	Weight Kg

It is completely supplied with a tap for solution, a PT100 probe, a coolant, one 3000 ml. flask, one 2000 ml flask, one 1000 ml. flask and its accessories.



ACCESSORY

Vacuum regulator for ambient air entrainment. Part No. 6003010





High capacity rotatory macro evaporator "COM-1010" and "COM-1020"

CAPACIDAD COM-1010: 10 LITERS CAPACIDAD COM-1020: 20 LITERS

Supplemented with a wide range of optional accessories.

APPLICATIONS

The rotatory macro evaporator is mainly used in the level pilot and in biological, pharmaceutical, chemical, food and other product productions.

FEATURES

With a large diameter evaporator flask that allows the diffusion of the solution and a quick evaporation.

The macro evaporator allows the addition of multiple accessories to form a complete distillation equipment.





MODELS	COM-1010	COM-1020		
Part No.	5195410	5195420		
Evaporator flask	10 liters	20 liters		
Receptor flask	5 liters	10 liters		
Speed regulation	Continuous spee	ed regulation		
Rotary speed	10-13	0 r/min		
Heating bath	Stainle	ess steel		
Temperature control	Digital dis	splay, 0-99°C.		
Achievable vacuum	399	9.9 Pa		
Evaporator capacity	Water >3.2L/h Alcohol>6.5L/h	Water >3.2L/h Alcohol>6.5L/h		
Lift	Powered lift			
Power supply	220 V/50 Hz 380 V/50 Hz III			
Power	4.8 Kw 6.3 Kw			
Dimensions (cm)	170x55x92 (HeightxWidthxDepth)	210x60x120 (HeightxWidthxDepth)		

ACCESSORIES 1. Membrane pump COM-401. Part No. 5195421 2. Coolant circulation COM-30L. Part No. 5195422 Vacuum pump. (See page. 50) Part No. 5900621 Vacuum trap. (See page. 50) Part No. 4001611



Peristaltic pump "Percom N-M"

ELECTRONIC SPEED CONTROL WITH DIGITAL DISPLAY. WITH MULTI HEAD ADAPTER FOR TUBES FROM 4 TO 12 mm Ø (ext.). MAXIMUM WALL THICKNESS 1,5 mm. 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.

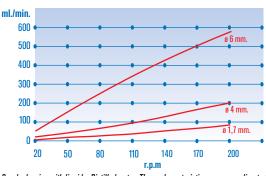
BACK

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

MODEL

Part No.	Height / Width / Depth	Pump rate of H₂O	Power	Weight
	(exterior) cm	ml/hr	W	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.). MAXIMUM WALL THICKNESS 1.6mm. 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 dispen-

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.

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.

TECHNICAL SPECIFICATIONS

TEGINATURE OF EGIL TORTIONS	
Speed (r.p.m.):	00
Resolution (ml): 1 or 0	.1
Dispensing range (ml):	999
Pump rate See ta	ble
N° of programs:	
N^o of repeat doses:	
Repetition interval:1 - 9	
Maximum tube wall (mm):	
Maximum external tube diameter (mm):	12
Note: The precision depends on the tube \emptyset and the spe	eed.

BACK

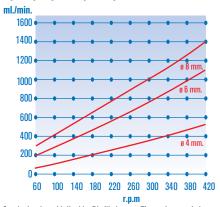
Main On/Off switch.

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

MODEL

Part No.		ight/W (exte			Pump rate of H₂O ml/hour	Power W	Weight Kg
41290	50	25	19	23	90,000	65	4

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



Dose rate (ml/minute) Interior Ø mm 60 r.p.m. 420 r.p.m. 80 480 1100 6 140 180 1400 8

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

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

Standard silicon tubing. (see page: 52)

START STOP foot pedal controller. Part No. 1001044



COMECTION Membrane vacuum pumps "MV 50 and MV 100"

FOR AIR, GASES AND STEAM.



Free of lubrication • Free of maintenance • Quiet

APPLICATIONS

Vacuum filtration. Vacuum distillation. Rotating evaporators. Gas extraction and transport. Vacuum drying.

MODEL "MV 50"

CONTROL PANEL

Vacuum and pressure gauges. Adjustable pressure and vacuum. Tensile handle for easy transport. Button On-Off.

COMUN FEATURES

Constructed in aluminium.

Membrane of polifluoropreno, resistant to the corrosion and long-life. Refrigeration system that allows a continuous operation of 24 hours.



CONTROL PANEL

Vacuum indicator. Vacuum regulator. Button On-Off.

MODELS	Part No.	Vaccum Rate m³/h	Vaccum Limit mbar	Pressure bar	Heigh / Width / Depth (exterior) cm	Power W	Power supply	Weight Kg
MV 50	5910100	1,8	200	2	23,5 16 21	160	220V/50Hz	8
MV 100	5910101	3,6	200	2,75	23,5 16 30	160	220V/50Hz	9

They are supplied with a 1 meter of silicone tube \emptyset 8 x 12mm.



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 in 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 m³/hr	Vacuum limit mbar	Height / Width / Depth (exterior) cm	r.p.m.	Power W	Weight Kg
5900620	3,6	0,1	23 27 12	1400	120	7,6
5900621	3,6	0,05	27 35 14	1400	180	11







High pressure rubber tubes of 18 x 26 mm Ø. Part No 5900624 High pressure **rubber tubes** of 8 x 15 mm Ø. For Vacuum oven connection "VACIOTEM". Part No 5900625

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

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





Membrane vacuum pump

SUITABLE FOR AIR, GAS AND VAPOURS.

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 x 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 I/min
vacuum pump rate (to 1 Aun, or pressure)	0.33 m³/h	0.78 m³/h	0.96 m³/h	1.2 m³/h	2.04 m³/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	-	-	-	1	✓
For gasses and vapours slightly aggressive or corrosive	✓	✓	1	1	✓
For liquid transfer and evacuation	✓	1	✓	1	
For liquid transfer, evacuation and as a compressor	✓	1	-	-	-
Ideal for vacuum filtration	✓	✓	✓	1	✓
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

COMECTA

Silicon tube for peristaltic and membrane

pumps

MODELS

MODELS	Part No.	interior Ø mm	exterior Ø mm
	8991202*	4	7
Standard tube*	8991201*	6	9
tube	8991200*	8	11



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

- (*) Tubing supplied in 1 meter lengths.
- (*) Part Numbers with asterisk* are adaptables to peristaltic pumps "Percom N-M" and "PR-2003". See page 49



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.

5991204 4 mm Ø interior. 5991206 6 mm Ø interior. 5991208 8 mm Ø interior.

Part No. Tube size

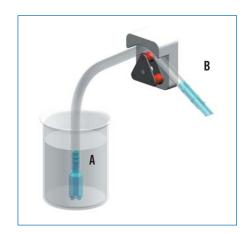


B. Spout "PECIPUMP"

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.



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.



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.		ACUUM	Pres		•		/ Depth	Power	Weight
	Pump Rate /mir	n. Vacuum limit	Pressure Rate /min.	Max. Pressure	(ex	terior)	cm	W	Kg
3001002	1.08	-0.6 bar=440 mm Hg	1.3	1.2 bar	19	14	19	35	3.2





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.

ACCESSORY

Extraction system and neutralisation of vapours.

Made up of a "Scrubber" unit that blocks the passage of condensed acid vapours and neutralises the gas vapour in NaOH, and a recirculating water pump that provides an adequate pump rate to aspirate vapours.

It is supplied with 3 Kg. acid vapours neutralizer solution.

"Scrubber" unit

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

Spare part:

3 Kg. acid vapours neutralizer solution. Part No. 4001610



MODEL

Part No.	Height /	Width	/ Dept	th Vacuum limit	Pump rate	Power	Weight
	(ex	terior)	cm	mbar	litre/minute	W	Kg
4001612	44	39	28	betwen 5 and 40	10	280	10



Complete unit image for a Kjeldahl distillation block.

COMECTA Centrifugal pumps "MP"



FEATURES

Centrifugal pump for re-circulating and transferring of liquids.

A selection of models with pump rates of 8 to 60 litres/min.

The motor power to the turbine is transmitted via a magnetic coupling.

All parts in contact with liquids are chemically resistant materials.

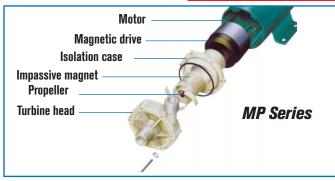
Manual priming.

SERIES MP

Dimensions per model in mm.

MODEL	Depth	Height	Width	Ø
MP-15R	129	82	74	60
MP-20R	210	108	116	92
MP-40RX	277	130	122	102
MP-100R	322	175	150	110

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TECHNICAL DATA	MP-15R	MP-20R	MP-40Rx	MP-100R	
Part No.	5900610	5900611	5900612	5900613	
Pump rate (max) P (pressure) =0 (litres/min)	8	17	47	60	
Precision (min) Q (pump rate)=0 (bar)	0.21	0.37	0.40	0.50	
Tube connection (aspiration)	14 mm Ø	18 mm Ø	26 mm Ø	26 mm Ø	
Tube connection (output)	14 mm Ø	18 mm Ø	26 mm Ø	26 mm Ø	
Normal working temperature (°C)	0 - 80	0 - 80	0 - 80	0 - 80	
Function cycle	continuous	continuous	continuous	continuous	
Power consumption (W)	10	20	65	250	
Pump material: Body	Po	lypropylene with	a mixture of fibre	glass	
Turbine material:	Po	lypropylene with	a mixture of fibre	glass	
Pump spindle/axle material:	ceramic aluminium oxide				
Seals and junctions material:	EPDM	EPDM	EPDM	EPDM	
Voltage:	220-240V 50-60Hz				



COMECTA Liquid transfer pump, manual "RP-90P"

MADE FROM CHEMICALLY AND CORROSION RESISTANT POLYPROPYLENE. ROTARY MOVEMENT.

FEATURES

Manual rotary suction movement that extracts liquid or sucks up liquid from a drum, composes of a pump handle, dip tube 1.2 M long by 1 inch \emptyset , with adjustable clamp that fastens to the barrel and an outlet tube of 3/4". Easy to use, light weight and very robust.

MODEL

Part No.	Pump rate litres/min.	Weight Kg
5252040	20	1.6





COMECTA Liquid transfer pump, electric "FA-100" SUITABLE FOR NON CORROSIVE AND NON FLAMMABLE LIQUIDS.



All metal with electric air displacement motor drive, with steel suction tube 1 m long and 38 mm Ø. Maximum height 13 m.

MODEL

Part No.	Pump rate litres/min.	R.p.m.	Power W	Weight Kg
5929041	86	10000	120	6.6





SPARES

1. Drum faucet: 2" in diameter.

Made of brass. Part No. 5252038

2. Drum Plug key for opening drum, standard model.

Made of brass. Part No. 5252039

3. Air bleed drum cap 2" in diameter.

Made of brass. Part No. 5252037

