

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

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Rotatory evaporator "RS 3001-V Food" FOR 1000 AND 2000 ML. FLASKS.

Electronic elevation. Quality and safety. Rotary speed and bath temperature regulation

FEATURES

Compact rotatory evaporator composed of stainless steel AISI 304 case. Electronic elevator system and bath made of dur-al alloy chemically treated. Rotatory speed: from 20 to 120 rpm. Bath temperature: up to 100 °C. External probe temperature type K: up to 100 °C.

maximum volume of the receiving flask and evaporator flask: 2000 ml. Vacuum breaker with air inlet filter.

CONTROL PANEL

- 1. Digital reading indicator of external probe temperature.
- 2. Digital reading indicator of bath temperature.
- 3. Digital reading indicator of programmed temperature.
- 4 & 5. Bath temperature regulator.
- 6. Vacuum pump switch.
- 7. Heater bath switch.
- 8. ON/OFF switch.
- 9 & 10. Elevator.
- 11. Digital indicator and regulator of velocity RPM.



MODEL

	Part no	Speed	Height / Width / Depth		Power	Weight				
		Regulation t.p.m.	(e	xterior)	cm	W	Kg			
RS 3001-V	6003001	0 to 120	26	46	45	1010	28			
It is completely supplied with a tap for solution, a Type K probe, a coo-										
lant, one 2000 ml flask, one 1000 ml. flask and its accessories.										

ACCESSORY Silicone oil 4 liters. Temperature up to 300°C. Viscosity 50 mm2/s at 25 °C. Melting point 318 ° C. Part No. 1000027

Peristaltic Pump "Percom S-Z BIG" COMECTA

SPEED VARIABLE.

WITH MULTI-ADAPTER HEAD FOR 16 TO 20 MM Ø (EXT.) TUBES. MAXIMUM WALL THICKNESS: 3,3 MM. ADJUSTABLE FLOW FROM 220 TO 10000 ML/H.

FEATURES

High flow desktop model. Easy-handling aluminum head. Convevor handle Silent and vibration-free. Selectable speed between 20 and 460 r.p.m.

CONTROL PANEL

Start-stop button. Speed variator.

MODEL

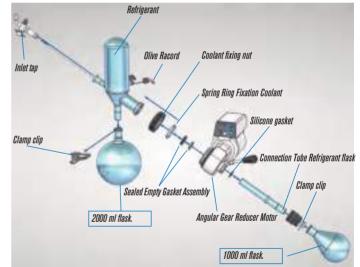
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Part No.	High/ Width (exterior)		Flow in H2O ml/hour	Power W	Weight Kg	
5910155	23 21	40	220 to 10000	60	15,5	

ACCESSORY Standard silicone tube. Ø Inside: 13.1 mm. Ø outside: 19.5 mm. Part No. 5910156



GLASS AND ITS ACCESSORIES DIAGRAM SPARE PARTS





Peristaltic pump "Percom N-M II"

ELECTRONIC SPEED CONTROL WITH DIGITAL DISPLAY, WITH MULTI HEAD ADAPTER FOR TUBES FROM 4 TO 12 mm Ø (ext.). MAXIMUM WALL THICKNESS 1,6 mm. Adjustable flow rates from 0 to 1100 ml/min.

FEATURES

CONTRACTOR

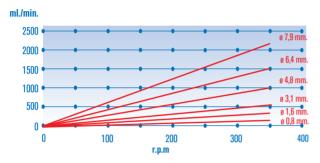
Small footprint bench top model Quiet with minimal vibrations. Speed control 0,5 to 350 r.p.m (reversible).

CONTROL PANEL

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

MODEL				
Part No.	Height / Width / Depth (exterior) cm	Pump rate of H ₂ O ml/min	Power W	Weight Kg
3001301	19 13 23	0 to 1100	48	4.4

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



External control connection using a foot switch for

Start / Stop, supplied as an accessory.

BACK

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

Peristaltic dosing pump "Peristaltic PR-2004"

ELECTRONIC SPEED CONTROL AND TOUCH SCREEN DISPLAY. Multi tube Adapter from 4 to 12 mm Ø (ext.). Maximum Wall Thickness 1,6mm. Adjustable dosing rate programmable from 0,1 ml to 9999 litres. Maximum Pump rate 2280 ml / minute.

FEATURES

SCOTT:

Small tabletop model. Silent and free from vibrations. Clamp for holding the dosing tube. Stainless steel nozzle. for precise dosing. 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

Touch screen.

Calibration memory. Change pump direction, control from the panel. Rotation direction indicator. Foot switch connection for Start/Stop.

TECHNICAL SPECIFICATIONS

Speed (r.p.m.):
Resolution (ml): 1 or 0.1 ¹⁰
Dispensing range (ml): 0,1 - 9999
Pump rate See table
№ of repeat doses:
Repetition interval:
Maximum tube wall (mm):1,6
Maximum external tube diameter (mm):12
Note: The precision depends on the tube \emptyset and the speed

BACK

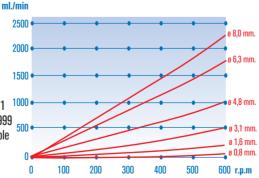
Main On/Off switch. RS 232 and RS-485 connection. Foot switch connection Start - Stop, for operation from a distance, supplied as an accessory.

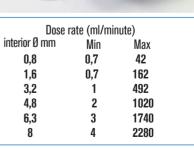
MODEL

 Part No.
 Height/Width/Depth (exterior) cm
 Pump rate of H₂O ml/min
 Power Weight W

 4129051
 25
 19
 23
 0,1 to 2280
 50
 4,8

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.

ACCESSORIES FOR PERISTALTIC PUMPS "PERCOM N-M II" AND "PR-2004"

Standard silicon tubing. (see page: 50) START STOP foot pedal controller. (PERCOM N-M II) Part No. 1001045 START STOP foot pedal controller. (PR-2004) Part No. 1001046

COMECTA 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.

COMECTA Vacuum pump

ROTARY VANE 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 5900621, 25 mm in model 5900622. Analogue vacuum gauge. High oil volume and forced lubrication. Oil reservoir charge capacity: 250 ml in model 5900620, 550 ml in model 5900621 and 1150 ml in model 5900622. Exhaust filter and ballast. Shock absorber mounted. Low noise level (62db) Maximum working temperature 60 °C. Portable with lifting handle.







Part No. 5900620

Part No. 5900621

Part No. 5900622

MODELS

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Part No.	Pump rate m³/hr	Vacuum limit mbar	/ Height / (ex	Width terior)		r.p.m.	Power W	Weight Kg
5900620	3,6	0,1	23	27	12	1400	120	7,6
5900621	3,6	0,00	27	35	14	1400	180	11
5900622	7,2	0,0006	34	49	15	1400	370	21

ACCESSORY

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





COMECTA Membrane vacuum 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 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).





N-816 Part No. 5910108





Part No. 5910107

N-820 Part No. 5910009 or N-840 Part No. 5910110

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 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
					medium-high
Chemical resistance (depends on medium being pumped.)	medium-high	medium-high	medium-high	medium-high	-
For gasses and vapours very aggressive or corrosive	-	-	-	Yes	Yes
For gasses and vapours slightly aggressive or corrosive	Yes	Yes	Yes	Yes	Yes
For liquid transfer and evacuation	Yes	Yes	Yes	Yes	
For liquid transfer, evacuation and as a compressor	Yes	Yes	-	-	-
Ideal for vacuum filtration	Yes	Yes	Yes	Yes	Yes
Ideal for vacuum filtration, evaporation, drying and gel drying	-	-	-	Yes	Yes
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

						interior Ø mm	exterior Ø mm
					5253300*	0.8	4
					5253400*	1.7	4.9
MODELS					0686203	3	7
Part	No. interior Ø mm	exterior Ø mm	Cal	librated	5253600*	3.1	6.3
		_	tub	bing*	5253500	4.8	9.8
8991		7			0686210	5	9
Standard 8991 tube*	<mark>201*</mark> 6	9			5253900	6.3	11.3
8991	200* 8	11			0686216	8	12

B. Spout "PECIPUMP"

Surface olive is pushed onto

the inside of the dispensing

end of the tube, liquids can

accurately.

5991203

5991205

5991207

Part No. Tube size

then be dispensed easily and

4 mm Ø interior.

6 mm Ø interior.

8 mm Ø interior.

(*) Tubing supplied in 1 meter lengths.

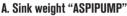
(*) Part Numbers with asterisk* are adaptables to peristaltic pumps "Percom N-M II" and "PR-2003". See page 47

Sink weights and glass connections COMECTA

FOR CENTRIFUGAL AND PERISTALTIC PUMPS.

FEATURES

Made of glass. Adapters for centrifugal and peristaltic pumps. For better aspiration and dispensing.





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. 8 mm Ø interior.



FEATURES

MODFI

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 / (ex	' Width tterior)	•	Power W	Weight Kg
3001001	1.08	-0.6 bar	440 mm Hg	19	14	19	35	3



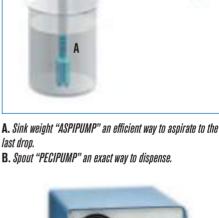
Membrane vacuum and pressure pump "Vacum-Pres"

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.

MUDEL									
Part No.		VACUUM	Pres	Pressure			Height / Width / Depth		
	Pump Rate /mi	in. Vacuum limit	Pressure Rate /min.	Max. Pressure	ex (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







5991208 Membrane vacuum pump "Vacum-Sel"

Pumps

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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.

"S	cri	ıb	be	r"	uni	t		
_								

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

WUDEL												
Part No.	Height /	Width	/ Dept	h Vac	uum limit		Pump r	ate		Power	W	eight
	(ex	terior)	cm		mbar		litre/mi	nute		W		Kg
4001612	44	39	28	betwe	n 5 and	40	10			280		10
	100	ſ		5.								
			60	-	7				2	-		
	1	L'ALLA	2.2	6	C .	-	1		0	8	-	
	-1	100	•	5	1		(1	٩.	-	-	-	?
	1	41	-		-19	di-	1					
-	14	-			1	-	1					
10	-	-	-	-	-	-	-	-	-	-		
1000		Dige	stion b	lock.	"Scru	bber"		Re-ci	rculati	ing vac	uum pu	ımp.

Complete unit image for a Kjeldahl distillation block.

		Magne Isolation c assive magnet - Propeller bine head ———		SEI	SEISUN MP Series		
TECHNICAL DATA		MP-15R	MP-20R	MP-40Rx	MP-100R		
Part No.		5900610	5900611	5900612	5900613		
Pump rate (max) P (pressure) =0 (litre	s/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		Polypropylene with a mixture of fibre glass					
Turbine material:		Polypropylene 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 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	180	108	95	68
MP-20R	210	108	116	92
MP-40RX	277	130	122	102
MP-100R	322	175	150	110



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 Ø, 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





Liquid transfer pump, electric "FA-100" Suitable for Non corrosive and Non Flammable Liquids.



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



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