



## 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
<b>4001611</b>	32 31 16	2

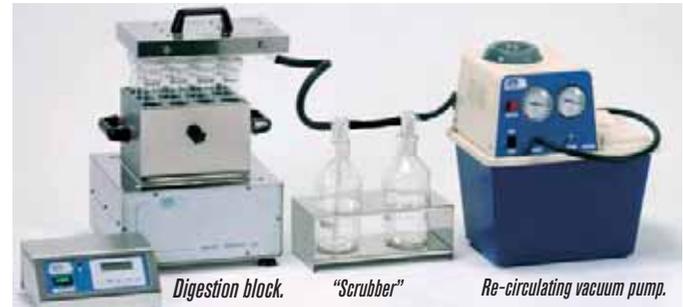
#### Spare part:

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



### MODEL

Part No.	Height / Width / Depth (exterior) cm	Vacuum limit mbar	Pump rate litre/minute	Power W	Weight Kg
<b>4001612</b>	44 39 28	between 5 and 40	10	280	10



Complete unit image for a Kjeldahl distillation block.

**SEI-**

## 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.

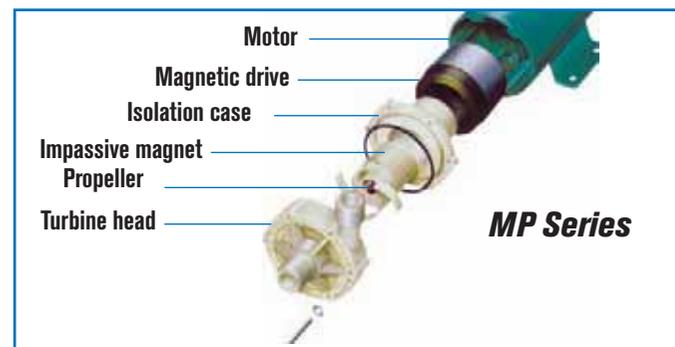
All parts in contact with liquids are chemically resistant materials.

Manual priming.

### SERIES MP

Dimensions per model in mm.

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



### TECHNICAL DATA

	MP-15R	MP-20R	MP-40Rx	MP-100R
Part No.	<b>5900610</b>	<b>5900611</b>	<b>5900612</b>	<b>5900613</b>
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	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			