

# The 772 Pump Unit pumps (virtually) everything

## Right round the clock ...

The 772 Pump Unit is a peristaltic pump that can be used where the diaphragm pump reaches its limits: organic solvents or liquids containing solid particles.

## Reliable even under difficult conditions: media containing particles ...

Liquids frequently have to be pumped in titrations. Siphoning off the titrated sample is very convenient, particularly in automation. After one or several rinsing and aspirating cycles the sample beaker is thus immediately ready for the next determination. The waste solutions are transferred to canisters and can then be easily disposed of. However, in the case of liquids that contain solids such as silver chloride precipitates, a diaphragm pump cannot be used. Such situations require the 772 Pump Unit. This peristaltic pump reliably delivers liquids containing solid particles with up to 0.4 ... 0.8 L/min (depending on the operating voltage).

## ... or organic solvents

The pumping of organic solvents is particularly critical. In this case, the chemical resistance of the pump components limits the application spectrum of the pump. The 772 Pump Unit can be operated with pump tubings of very different materials. This gives the user the possibility to adapt the resistance of the tubing to the media being pumped in an ideal manner.



The 772 Pump Unit with the 731 Relay Box, which serves as power supply and control unit for the peristaltic pump.

The pump tubing supplied with the 772 Pump Unit is made of Ismaprene (PharMed), a thermoplastic elastomer based on polypropylene. This material is known for its excellent tensile strength and long service life. Pump tubings made of Ismaprene are ideal for aqueous acids and bases, viscous media as well as suspensions. However, they are not suitable for organic solvents. For this case and for special applications a wide range of other tubing materials are available from laboratory dealers.

## Flexible use with the 731 Relay Box

The 731 Relay Box serves as power supply for the 772 Pump Unit and switches it as required. This allows use of the pump with virtually all Metrohm instruments that have a «Remote» interface: Titrinos, Titroprocessors, sample changers or Liquinos can easily switch the Pump Unit on and off.

## Technical specifications of the 772 Pump Unit

Operating voltage	16 ... 24 V DC
Current consumption	200 ... 500 mA
Delivery rate	Adjustable by selecting appropriate tubing diameter and bearing pressure; depends on the operating voltage
Standard pump tubing:	
Material	Thermoplastic polypropylene (Ismaprene)
Inner diameter	6.4 mm
Outer diameter	9.5 mm
Wall thickness	1.6 mm
Max. delivery rate	0.4 ... 0.8 L/min, depending on the operating voltage
Service life	1400 h (at 100 U/min and 0 bar)

## Ordering information

### 772 Pump Unit

Peristaltic pump for rinsing electrodes and sample beakers and for the aspiration of titrated solutions. The pumps can be directly connected to and are controlled by the 778/814/789/815 Sample Processors. Suitable for transferring solvents and/or suspensions.

### 2.772.0110 772 Pump Unit

### 2.772.0120 772 Pump Unit «Aspirate»

with comprehensive accessories for aspirating.

### 2.772.0130 772 Pump Unit «Rinse»

with comprehensive accessories for rinsing.

*For connection of 772 Pump Unit to 824 Easy Sample Changer or 731 Relay Box, the adapter cable 6.2160.010 is required.*

### 2.731.0010 Relay Box

Instrument with two AC and two DC voltage outputs for controlling external devices via «Remote» signals.



**Metrohm**  
Ion analysis

Metrohm Ltd., CH-9101 Herisau  
Switzerland  
Phone +41 71 353 85 85  
Fax +41 71 353 89 01  
E-Mail [info@metrohm.com](mailto:info@metrohm.com)  
Internet [www.metrohm.com](http://www.metrohm.com)