

# PERIMAX<sup>®</sup>

## Peristaltic Pump



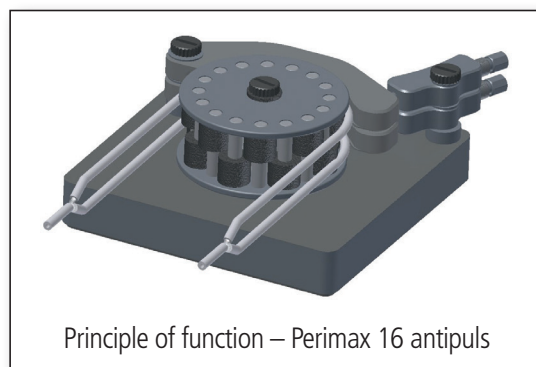
Perimax 12



Perimax 16 - Antipuls

The Perimax peristaltic pump is used in all branches of analytical and preparative chemistry and in production systems:

- Analytical instrumentation
- Biotechnology, bioanalytical chemistry
- Liquid chromatography
- Column chromatography
- ICP and AAS instrumentation
- Liquid transfer, dosing and mixing
- Laboratories and production



**SPETEC<sup>®</sup>**

# PERIMAX®

## Peristaltic Pump

### Perimax 12

The Perimax 12 peristaltic pump is a multipurpose, easy-to-use pump for the transportation of inorganic and organic fluids. It consists of a roller head with 12 rollers and ensures low-pulsation fluid delivery. It is therefore particularly well suited for applications in the field of analytical technology where a continuous fluid flow is required. The pump is easy to use. The tubing is passed around the roller head, clamped in the tube holder and pressed against the roller head using the pressure brackets. All the parts are powder-coated and are therefore ideally suited for acidic fluids.

### Perimax 16 – Antipuls

The principle behind the Perimax 16 - Antipuls peristaltic pump permits pulsation-free operation. Two tubes that pass over a roller head and whose rollers are arranged phase-shifted relative to one another are brought together. As a result, the peaks and troughs cancel one another out, thus resulting in a completely pulsation-free flow. The roller head with its 16 rollers consists of 4 half-channels with 8 rollers each, with two phase-shifted tubes always being combined. The pump can be operated with two low-pulsation channels, four pulsed channels or one low-pulsation and two pulsed channels.

### Control

The rear-mounted connector can be used to control the speed and direction of rotation by means of an analog 0-5 V signal.

### Operating the unit

Operation of the Perimax 12/16 peristaltic pump could not be easier. The tube is guided around the pump head and its two ends are fixed to a special mechanism. The compression level is set using an adjusting screw at the adjusting lever. There are operating buttons to switch the pump ON or OFF or to run to the RIGHT or LEFT. The speed of rotation of the pump head can be continuously adjusted using a 10-turn potentiometer. The digital display (0 – 999) ensures a reproducible speed of rotation and fluid delivery rate.

A high-speed button permits brief periods of operation at top speed, for example in order to flush the tubing more quickly when changing to a different liquid medium.



#### Technical data Perimax 12®

Pump head	12 Rollers
Channels	1 – 6
Speed range	1 – 33 rpm <i>optionally up to 80 rpm</i>
Flow rate continuously adjustable	0.0017 – 20 ml/min <i>optionally up to 45 ml/min</i>
Tube holder	Universal – for various types of pump tubing
Direction of rotation	Right/left switchable
Power required	100 – 240 V
Dimensions	160 x 160 x 230 mm
Weight	4 – 5 kg (depending on the number of channels)

#### Technical data Perimax 16®

Pump head	16 Rollers
Channels	1 – 3
Speed range	1 – 33 rpm <i>optionally up to 80 rpm</i>
Flow rate continuously adjustable	0.0042 – 47 ml/min <i>optionally up to 113 ml/min</i>
Tube holder	Universal – for various types of pump tubing
Direction of rotation	Right/left switchable
Power required	100 – 240 V
Dimensions	160 x 160 x 200 mm
Weight	4 – 5 kg (depending on the number of channels)
<b>The Perimax 16 is almost pulsation-free during operation.</b>	