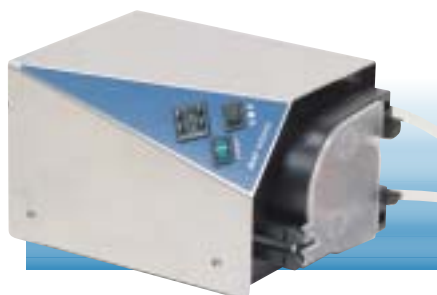


IKA® Pumping / Dosing

Peristaltic pumps



PA-ST 1 basic EUROPUMP

Inexpensive hose pump for dosing and conveying liquids and gases. Suitable for all standard pumping tasks in the laboratory.

- Easy handling
- Digital speed preselection
- Forward and backward operation
- Adjustable application pressure
- Housing is made of recyclable, shock resistant ABS plastics
- Analog interface
- Adjustable hose guide

Accessories (Page):

Pump hoses (77)

Number of pump hoses	1
Permissible inner diameter of hose	3.2 - 11.1 mm
Hose material	Silicone or Tygon
Required hose hardness	50 - 60 Shore A
Number of pump rollers	2
Delivery per hose	6.6 - 5,400 ml/min
Max. suction height	8 m
Max. counter pressure	3 bar
Motor output	100 W
Speed range	3.5 - 350 rpm
Reversible direction of rotation	yes
Speed display	setpoint
Interface	analog
Dimensions (W x D x H)	158 x 248 x 140 mm
Weight	5.2 kg
Permissible ambient temperature	5 - 40 °C
Permissible humidity	80 %
Protection class acc. to DIN EN 60529	IP 30

Ident. No.		Ident. No.	
3227700	230 V 50/60 Hz	3227701	115 V 50/60 Hz

PA-M1 control Peristaltic pump

For dosing and conveying liquids and gases via a single pump hose.

- Timer
- Selection of delivery volume by means of pump setting or speed
- Intermittent dosing with pump and interval times
- Digital speed control
- Digital display
- Forward and backward operation
- Calibration of flow rate
- Low pulsation due to 3 rollers
- Controlled by microprocessor
- External control also possible
- RS 232 Interface for PC
- Analog interface 0-10 V / 0-20 mA
- Adjustable hose guide

Accessories (Page):

Pump hoses (77),
labworldsoft® (115), PC 1.1 Cable (120),
PC 1.2 Adapter (120)



Number of pump hoses	1
Permissible inner diameter of hose	3.2 - 8.0 mm
Hose material	Silicone or Tygon
Required hose hardness	50 - 60 Shore A
Number of pump rollers	3
Delivery per hose	1.7 - 2,100 ml/min
Max. suction height	8 m
Max. counter pressure	3 bar
Motor output	100 W
Speed range	1 - 240 rpm
Reversible direction of rotation	yes
Speed display	digital
Interface	RS 232, analog
Dimensions (W x D x H)	156 x 285 x 262 mm
Weight	7.0 kg
Permissible ambient temperature	5 - 40 °C
Permissible humidity	80 %
Protection class acc. to DIN EN 60529	IP 30

Ident. No.		Ident. No.	
3227800	230 V 50/60 Hz	3227801	115 V 50/60 Hz

IKA® Pumping / Dosing

Peristaltic pumps



PA-SF control

Peristaltic pump drive

Suitable for simultaneous dosing and conveying of liquids and gases via 2 or 3 individually adjustable pump hoses.

- Timer
- Selection of delivery volume by means of pump setting or speed
- Intermittent dosing with pump and interval times
- Digital speed control
- Digital display
- Forward and backward operation
- Calibration of flow rate
- Low pulsation due to 6 rollers
- Controlled by microprocessor
- External control also possible
- RS 232 Interface for PC
- Analog interface 0-10 V / 0-20 mA
- Adjustable hose guide

The hose guides SF 2 and SF 3 are not included with delivery.

Accessories (Page):

Hose guides (76): SF 2, SF 3,
Pump hose (77), labworldsoft® (115),
PC 1.1 Cable (120), PC 1.2 Adapter (120)

Hose material	Silicone or Tygon
Required hose hardness	50 - 60 Shore A
Number of pump rollers	6
Max. suction height	8 m
Max. counter pressure	3 bar
Motor rating input	100 W
Speed range	1 - 240 rpm
Direction of rotation reversible	yes
Speed display	digital
Interface	RS 232, analog
Dimensions (W x D x H)	156 x 290 x 262 mm
Weight	7.3 kg
Permissible ambient temperature	5 - 40 °C
Permissible humidity	80 %
Protection class acc. to DIN EN 60529	IP 30

Ident. No.	Ident. No.
3227900	3227901
230 V 50/60 Hz	115 V 50/60 Hz

Hose guides for PA-SF control



SF 2 For 2 pump hoses	Permissible inner diameter of hose	3.2 - 8.0 mm
	Delivery per hose	1.1 - 1,100 ml/min
SF 3 For 3 pump hoses	Permissible inner diameter of hose	3.2 - 6.4 mm
	Delivery per hose	0.99 - 870 ml/min

Ident. No.	
1597000	SF 2
1597100	SF 3

IKA® Pumping / Dosing

Pump hoses

Pump hoses for PA-ST 1 basic, PA-M 1 control, PA-SF control with SF 2 and SF 3

Pump hose	P 320 T	P 480 T	P 640 T	P 800 T	P 111 T
Inner diameter	3.2 mm	4.8 mm	6.4 mm	8.0 mm	11.1 mm
Material	Tygon, 50 - 60 Shore	Tygon, 50 - 60 Shore	Tygon, 50 - 60 Shore	Tygon, 50 - 60 Shore	Tygon, 50 - 60 Shore
Quantity	5 m	5 m	5 m	5 m	5 m
Pumps / flow rate					
PA-ST 1 basic	6.6 - 660 ml/min	15 - 1,500 ml/min	25 - 2,500 ml/min	37 - 3,700 ml/min	54 - 5,400 ml/min
PA-M 1 control	1.7 - 400 ml/min	3.6 - 860 ml/min	6.0 - 1,400 ml/min	8.8 - 2,100 ml/min	—
PA-SF control mit SF 2	1.1 - 260 ml/min	2.3 - 550 ml/min	3.7 - 890 ml/min	4.6 - 1,100 ml/min	—
PA-SF control mit SF 3	0.99 - 240 ml/min	2.2 - 530 ml/min	3.6 - 870 ml/min	—	—
Ident. No.	3300400	3300500	3300600	3300700	3300800

(Tygon: Usage temperature: -60 °C - 200 °C, sterilizable)