

arcomed Infusion Pumps

**Sound technology, up to date functions,
nurse friendly operation.**



Volumed® μVP 5000

Micro-volumetric and volumetric infusion pump using silicone segment IV-Sets.

Designed for intensive care, oncology, paediatrics and neonatal infusion where absolute volumetric accuracy is required.



Volumed® μVP 5005

Micro-volumetric and volumetric Infusion pump using standard PVC IV-Sets. Designed for intensive care, oncology, paediatrics, neonatal and general infusion therapy where volumetric accuracy is required.

General product features of the Volumed® Series μVP 5000/5005

- Easy to use, uniform operating philosophy.
- Large format LED displays showing: Rate ml/h, Total ml and ml infused.
- Simple operation through logical touch control keys, easy set up procedure.
- Bolus function and Primary/Secondary infusion.
- Event memory up to 300 events.
- Practical and robust design, easy to clean and disinfect.
- Customized configuration.

Volumed® μVP 5000/5005 safety

- Sophisticated control and monitoring systems to provide high levels of patient safety and comprehensive alarm protection.
- Automatic internal battery operation during patient transfer or AC power failure.
- Fully variable pressure system with pressure display (option to omit this function).

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Specification Volumed® µVP 5000

Classification	IIb
CE certificate number	G5 00 11 13006 008
Flow rate range (Micro-pump)	1–999 ml/h (0.1–99.9 ml/h)
Resolution (Micro-pump)	1 ml/h (0.1 ml/h)
Deviation in flow-rate with 8101P series administration set	typ. +/- 5%
Max. overinfusion (Mech/electr. Defect)	max. 0.5 ml
"KVO" vein open rate (Micro-pump)	3 ml/h (0.3 ml/h) or set rate if less
Infusion pressure min.	60 kPa / 450 mmHg / 0.6 bar
Infusion pressure max.	120–150 kPa / 900–1000 mmHg / 1.2–1.5 bar
Pressure alarm-limit (Option)	adjustable 0–999 mbar / mmHg
Air detection	ultrasonic
Sensitivity	typ. 100 µl adjustable from 50 to 250 µl
Battery operation, charged (1.2 Ah)	> 3 h
Unit charging time OFF/ON	15 h / 20 h
Supply connection	230/240 VAC +10%–15%, 50–60Hz
Input current	80 mA
Mains fuses (F1, F2)	250 mA/IEC127/111/SEV 1064
Classification of electrical safety	Class I, Type CF
Leakage current	< 40 µA
Protection against ingress of liquids	IPX 1, drip-proof
Equipotential bolt	DIN 42801
Nurse call Potential-free contact switch	24 V / 0.2 A
Dimensions with ext. Empty Bag Detector	(WxHxD) 160x240x210 mm
Dimensions with int. Empty Bag Detector	(WxHxD) 190x240x210 mm
Casing	High impact ABS plastic
Weight	ca. 3.9 kg
Max storage time	max. 3 months without charging
Temperature range Operating/Storage	15°C–35°C / 0°C–40°C
Permits. rel. humidity	max. 85%, no vapor deposit
Safety testing	IEC 60601-1 IEC 60601-2-24 IEC 60601-1-2 EMC

Specification Volumed® µVP 5005

Classification	IIb
CE certificate number	G5 00 11 13006 008
Flow rate range (Option) (Micro-pump)	1–600 ml/h (99.9 ml/h) (0.1–99.9 ml/h)
Resolution (Micro-pump)	1 ml/h (0.1 ml/h)
Deviation in flow-rate with 3101P series administration set	typ. +/- 5%
Max. overinfusion (Mech/electr. Defect)	max. 0.5 ml
"KVO" vein open rate (Micro-pump)	3 ml/h (0.3 ml/h) or set rate if less
Infusion pressure min.	60 kPa / 450 mmHg / 0.6 bar
Infusion pressure max.	150–250 kPa / 1125–1875 mmHg / 1.5–2.5 bar (according to IV set)
Pressure alarm-limit (Option)	adjustable 0–999 mbar / mmHg
Air detection	ultrasonic
Sensitivity	typ. 100 µl adjustable from 50 to 250 µl
Battery operation, charged (1.2 Ah)	> 3 h
Unit charging time OFF/ON	15 h / 20 h
Supply connection	230/240 VAC +10%–15%, 50–60Hz
Input current	80 mA
Mains fuses (F1, F2)	250 mA/IEC127/111/SEV 1064
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Patient and user safety

Displays

Large format, easy to read LED displays for messages give the best possible overview of the infusion. Alarm pictograms identify infusion status.

Case design

Easy-to-clean, high impact-resistant ABS Case. The integrated IV-pole and clamp provide convenient operation on an infusion stand or table top, and during transportation.

Handling

Optimum control key layout prevents errors in selecting infusion parameters. Easy access to pressure monitoring with 2MIN key. Clear audio/visual alarms and logical prompts aid quick identification of any alarm condition which may occur.

Alarm protection includes:

- **Air alarm:** Air in the IV-system.
- **Occlusion:** Too high pressure in the IV-System or pump door open.
- **Empty fluid container:** New container required or upstream occlusion.
- **Infusion complete:** Total volume infused.
- **KVO:** Keep vein open rate operating.
- **Rate:** Rate changed during infusion or not started.
- **Battery:** Pre-alarm and battery charge low.

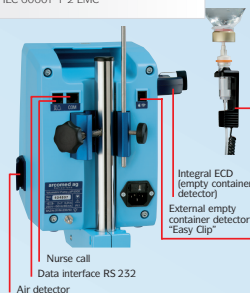
Order information Pumps

	Volumed® µVP 5005	Volumed® µVP 5000
With P-transducer and Easy Clip	5106	5006
With Easy Clip	5104	5004
With P-transducer, integral ECD	5101	5001
Without P-transducer, integral ECD	5102	5002

Software configuration
EEPROMs may be configured to customer's requirements.

Hardware options

External empty container detector "Easy Clip".
Integral ECD (empty container detector).
Pressure transducer.
Low voltage version 12V 110–120V, 50/60Hz. Version.
Data interface RS 232.
Nurse call



Air detector

Order information Accessories

Volumed® IV-Set 8101P
match with Volumed® µVP5000
Volumed® IV-Set 3101P
match with Volumed® µVP5005
(Different types available)
Floor stand IV pole "Arcostandard" 5400
Floor stand IV pole "Arcolux" 5401

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