



## Agilia® VP

Volumetric infusion pump

Easy and intuitive to use

Stand alone or rack mounted

Wide flow rate ranging from 0.1-1200 mL/h and an accuracy of  $\pm 5\%$

2 pressure modes and Dynamic Pressure System (DPS)

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## Infusion

### Flow rate range

0.1 - 1200 mL/h.  
0.1 mL/h increment from 0.1 to 99.9 mL/h, 1 mL/h from 100 to 1200 mL/h.  
Flow rate can be limited according to drug name (soft and hard limits) with Agilia Vigilant Drug'Lib, IV Medication Safety System.

### Flow rate accuracy

± 5% and even better in most clinical situations.

### Volume to infuse

0.1 - 9999 mL.

### Infusion Modes

mL/h modes: Volume + Flow rate, Volume + Time, Flow rate + Time, Volume + Time + Rate.

### Times of infusion

0 h 01 min - 168 h 00 min.  
Warning function: a warning message can be activated and adjusted from 0 h 01 min to 96h00min.

### Priming

Manual or by using the purge/prime function of the pump.

### Bolus

Direct bolus: adjustable.  
50 - 1200 mL/h (50 mL/h increment).

### KVO

Automatic Keep Vein Open rate of 1 mL/h (adjustable from 1 to 20 mL/h) when volume limit is reached.

### Pause

Programmable from 1 minute to 24 hours, increments 1 minute.

### Data log event

Up to 1500 data log events in real time.

### Graphical history

flow rates, pressure.

### Night mode

The night mode decreases the brightness of the screen and the green lights.  
The key beep can be optionally turned off.  
The night mode can be programmed manually or automatically in a variable time range.

### Profiles

Basic Profil: infusion without any display of the drug names.

## Volumat lines administration sets

### Free-flow protection

All sets integrate the SafeClip\* that automatically clamps the line to avoid any risk of free-flow when the door is opened and when the set is disengaged.

Auto-test function: The patented\*\* OCS (Occlusivity Check System) checks the correct working order of the pump in association with its tubing set, thus preventing any risk of free-flow.

\* French Patent FR2908176 / \*\* European Patent EP1031358

### Pumping segment

The silicone pumping segment allows a tight flow rate accuracy as well as long term performances.

### Material

All Volumat Lines infusion sets are DEHP-free & Latex-free.  
PVC-free and opaque materials are available.

### Needle-free access

Some sets integrate a needle-free Y injection site to protect the medical staff against the risk of needle-stick injuries.

## Pressure management

### Pressure modes

2 modes available: variable or 3 pre-set levels - Range from 50 to 750 mmHg. (25 mmHg increment from 50 to 250 mmHg / 50 mmHg increment from 250 to 750 mmHg).

### DPS

The Dynamic Pressure System - DPS - warns of pressure variations. A risk of obstruction or a possible leak in the infusion line can thus be anticipated.

### Pressure monitoring

Graphic representation of the pressure in the infusion line and of the pressure limit thanks to the pictogram.

### Anti-bolus system

Reduces significantly bolus after occlusion release (0.35 mL max.).

## Alarms / Pre-alarms / Security

### Pump status

GREEN for infusion in progress, ORANGE for Low and Medium priority, RED for High priority - Visibility at 4 meters minimum.  
All alarms are expressed by means of light indicators, written words, pictograms and sound beeps.

### Set installation control

Door's closing, set positioning, SafeClip control, OCS test.

### Infusion control

End of infusion, imminent end of infusion, downstream occlusion, upstream occlusion, line disconnection, air in line, under flow rate, over flow rate, empty container, unconfirmed setting, end of pause, unauthorised flow rate (hard or soft), auto restart if false occlusion detected, start infusion at pause end.

### Device control

Motor rotation check, power source indication, mains power disconnection, low battery, discharged battery, technical fault, watchdog check, communication connection failure, auto-lock/lock code (on Keypad).

### Maintenance

Preventive maintenance warning.

## Technical specifications

### Pumping mechanism

2nd generation linear peristaltic pumping system with software adjustments and compensations.

### Display

Blue graphic LCD monochrome, size 66 mm x 33 mm. (256 x 128 pixels).

### Swinglock clamp

Versatile clamp that allows the fixation on a rail or a pole. (Pole: 20-40 mm max. / Rail: 25-35 x 10 mm)

### Stackability

Up to 3 devices self-stackable on a pole.

### Dimensions (H/W/D) / Weight

135 x 190 x 170 mm / Approximately 2kg.

### Battery

Characteristics: 7.2 V 2.2 Ah - Li-ion Smart battery, remaining battery life and battery charge level available on the display.

Battery Life (when fully charged):

> 8 h at 25 mL/h  
> 5 h at 1200 mL/h

Battery recharge:

- Pump OFF: < 6 h  
- Pump ON: < 20 h

### Waterproofness

IP22

### Power supply

100 V - 240 V ~ / 50 / 60 Hz with functional earth.

## Compliance

### Electromagnetic compatibility EMC

IEC 60601-1-2, IEC 60601-2-24

### Medical Device Directive

CE 0123 marking in compliance with the Concl Directive 93/42/EEC

### Electrical Compliance

Protection against leakage current: Defibrillation-proof type CF  
Protection against electric shocks: class II in accordance with IEC 60601-1

### Alarm system

IEC 60601-1-8

### Home healthcare Environment

IEC 60601-1-11

### Usability Engineering

IEC 60601-1-6 and 62366