



Agilia[®] VP MC Agilia[®] VP MC WiFi

Advanced volumetric infusion pumps

Wide flow rate ranging from 0.1-1500 mL/h and an accuracy of $\pm 5\%$

Adaptable to all protocols

Up to 19 embedded drug libraries

Easy and intuitive to use

Stand alone or rack mounted infusion pump with alarm

2 pressure modes and Dynamic Pressure System (DPS)

Agilia and Vigilant are registered trademarks by Fresenius Kabi in selected countries. Due to our policy of continuous product development as well as changes in standards, the features described are subject to change. Please contact us for the most updated information.

Agilia® VP MC & Agilia® VP MC WiFi

Infusion

Flow rate range

0,1 - 1500 mL/h.
0,01 minimum increments instead of 0,1 mL/h is activated when the max patient weight is set to 20 kg in the drug library.
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, Ramp-up / Ramp down, Sequential / Intermittent, Secondary / Piggyback, Drop/min.

Dose rate modes: ng/h, ng/kg/min, ng/kg/h, microg/min, microg/h, microg/kg/min, microg/kg/h, mg/min, mg/h, mg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, mg/m²/h, mg/m²/24h, g/h, g/kg/min, g/kg/h, g/kg/24h, mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, mU/kg/min, mU/kg/h, U/min, U/h, U/kg/min, U/kg/h, kcal/h, kcal/24h, kcal/kg/h, mEq/min, mEq/h, mEq/kg/min, mEq/kg/h.

Dilution setting: -- units / mL or -- units / -- mL. With or without loading dose.

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

1500 mL/h, adjustable from 50 mL/h to 1500 mL/h by 50 mL/h increments. Direct or programmable.

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 logo 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 eventually be turned off.
The night mode can be programmed manually or automatically in a variable time range.

Profiles

Basic profile: infusion without any display of the drug names.
19 Custom profiles configurable with Agilia Vigilant Drug'Lib:
Drug library to be created with Agilia Vigilant Drug'Lib.
Configuration only: Custom pump configuration without Drug Name.

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

Significantly reduces 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), keypad manual locking or keypad autolock, autorestart 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):

- Agilia VP MC and Agilia VP MC WiFi (WiFi disabled / not used):
> 8 h at 25 mL/h
> 5 h at 1500 mL/h

- Agilia VP MC WiFi (WiFi enabled):

> 5 h at 25 mL/h
> 4 h at 1500 mL/h

Battery recharge:

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

Waterproof effectiveness

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 Council 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 IEC 62366

Wireless LAN (For Agilia VP MC WiFi only)

Technology

IEEE 802.11 a/b/g/n.
Frequency Band: 2.400 -> 2.500 GHz (2.4 GHz is ISM band) / 4.900 -> 5.850 GHz (High Band).

Modulation

OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS.

Wireless Security

WPA/WPA2-Entreprise, WPA/WPA2-PSK.

Network Protocol

TCP, IPv4, DHCP, HTTP.
CE, FCC and IC compliant.