



**FRESENIUS
KABI**

caring for life



Agilia VP MC Agilia VP MC WiFi

Advanced volumetric infusion pumps

Enhancing prescription input accuracy through Dose Rate programming

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

Adaptable to all protocols

Up to 19 drug libraries embedded

Easy and intuitive to use

Stand alone or rack mounted

2 pressure modes on top of a Dynamic Pressure System (DPS)

Agilia VP MC & Agilia VP MC WiFi

Infusion

Flow rate range

0.1 - 1500 mL/h.

Flow rate can be restricted for each drug (soft and hard limits) with Vigilant Master Med, The Dose Error Reduction Software

Flow rate accuracy

+/- 5 % and even better in most clinical situations

Volume To Be Infused (VTBI)

0.1 - 9999 mL

Infusion Modes

· mL/h mode:

Volume / Time / Rate or a combination of two (eg., Volume / Time)

Ramp mode

Sequential / Intermittent mode

Secondary / Piggyback

Drop/min

· Dose rate mode:

microg, mg, mUnit, Unit, mEq...../min

nanog, microg, mg, g, mmol, Unit, kcal, mEq...../h

mg, kcal...../24h

nanog, microg, mg, g, mUnit, Unit, mEq, mL...../kg/min

nanog, microg, mg, g, mmol, mUnit, Unit, kcal, mEq, mL /kg/h

mg...../m2/h

mg, g, mmol, mL...../kg/24h

mg...../m2/24h

· Dilution setting: -- units / mL or -- units / -- mL

· With or without loading dose

Infusion duration

0h01min - 168h00min.

Programmed bolus and loading dose : 00min0s - 24h00min

Priming

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

Bolus

Direct bolus: 50 - 1500 mL/h (50 mL/h increment)

Programmed bolus and loading dose:

· In Volume: 0.1 - 1000 mL / 1 sec - 24 h

· In Dose: 0.01 - 9999 dose units / 1 sec - 24 h

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 with configurable auto-restart at pause end

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 press sound can optionally 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 Vigilant Master Med containing the following:

- a specific device configuration

- a comprehensive list of medications and fluids such as:

- a drug library with limits on drug infusion rates

- a drug list without limits on drug infusion rates

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 EPI031358

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

Bolus Volume at Occlusion Release*: - 0.05 ≤ X ≤ 0.35 mL

* Test conditions: Back pressure: 0 mmHg, Container height: 50 cm

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 of keypad

Maintenance

Preventive maintenance warning

Technical specifications

Pumping mechanism

Linear peristaltic pumping system with software adjustments and compensations

Display

Blue graphic LCD monochrome, size 70 mm x 35 mm (256 x 128 pixels)

Swinglock clamp

Versatile clamp that allows the fixation on a rail or a pole (Pole: 15-40 mm max. / Rail: 25-35 x 8-10 mm)

Stackability

Up to 3 devices self-stackable on a pole

Dimensions (H/W/D) / Weight

135 x 190 x 170 mm / Approximately 2 kg

Battery

Characteristics: 7.2 V 2.2 Ah - Li-ion Smart battery

- Battery Life (fully charged, WiFi disabled): > 8h at 25 mL/h, > 5h at 1500 mL/h

- Battery Life (fully charged, WiFi enabled): > 5h at 25 mL/h, > 4h at 1500 mL/h

- Battery recharge:

- Pump OFF: < 6 h

- Pump ON: < 20 h

Characteristics: 7.34 V 2.75 Ah - Li-ion Smart battery

- Battery Life (fully charged, WiFi disabled): > 13h at 25 mL/h, > 7h at 1500 mL/h

- Battery Life (fully charged, WiFi enabled): > 8h at 25 mL/h, > 5h at 1500 mL/h

- Battery recharge:

- Pump OFF: < 7 h

- Pump ON: < 21 h

Waterproofness

IP32

Power supply

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

Compliance

Electromagnetic compatibility EMC

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

CE Mark

Complies with the 93/42/EEC Medical Device Directive or the Medical Device Regulation (EU) 2017/745

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-Enterprise, WPA/WPA2-PSK

Network Protocol

TCP, IPv4, DHCP, HTTP

CE, FCC and IC compliant

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