



**FRESENIUS
KABI**

caring for life



Agilia SP TIVA

Agilia SP TIVA WiFi

Syringe infusion pumps providing intuitive intravenous anaesthesia

Enhancing prescription input accuracy through Dose Rate programming

TCI infusion mode

Wide flow rate ranging from 0.1-1200 mL/h and an accuracy of +/- 3%

Adaptable to all protocols

Up to 19 drug libraries

Easy and intuitive to use

Stand alone or rack mounted

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

Agilia SP TIVA & Agilia SP TIVA WiFi

Infusion

Flow rate range

0.1 - 1200 mL/h depending on the syringe capacity
Flow rate can be restricted for each drug (soft and hard limits) with Vigilant Master Med which is part of a Dose Error Reduction Software

Flow rate accuracy

+/- 3 %

Syringes capacities

5/6, 10/12, 20, 30/35, 50/60 CC

Type of syringe

Up to 100 different types

Infusion Modes

- mL/h mode
- 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
- Volume / Time: 0.1 - 99.9 mL / 00 h 01 - 96 h 00
- Dose / Time: 0.01 - 9999 dose units / 00 h 01 - 96 h 00
- Volume limit: 0.1 - 999 mL

TCI Mode

Pharmacokinetic Models:

- Marsh & Schnider with Plasma and TCI Effect target for Propofol administration in adults
- Kataria & Paedfusor with Plasma target for Propofol administration in pediatrics
- Minto, Gepts & Scott for with Plasma and TCI Effect target for Remifentanyl, Sufentanil and Alfentanil administration in adults

Volume/Dose infused

Volume: 0.1 - 999 mL / Dose: 0.01 - 9999 dose units

Priming

3 modes: mandatory, not mandatory, advised
Rate: 250 - 1200 mL/h depending on the syringe capacity

Bolus

- Direct bolus: Rate: 50 - 1200 mL/h (50 mL/h increment).
- Programmed bolus and loading dose:
 - In Volume: 0.1 - 99.9 mL / 1 sec - 24 h
 - In Dose: 0.01 - 9999 dose units / 1 sec - 24 h

End infusion (V/T & VL)

KVO: adjustable from 0.1 to 5 mL/h, continuous infusion or stop

Quick start

Function designed to decrease the delay of therapy when the pump's prime function is not used

Pause

Programmable from 1 minute to 24 hours with configurable auto-restart at pause end

Data log event

1500 data log events in real time

Graphical history

Volume / dose infused, pressure, flow rate

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 profil: infusion without any display of the drug names and with TCI modes.
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.

Pressure management

Pressure modes

2 modes available: variable or 3 pre-set levels - Range from 50 to 900 mmHg. (25 mmHg increment from 50 to 250 mmHg / 50 mmHg increment from 250 to 900 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*: $-0.05 \leq X \leq 0.35$ mL
* Test conditions: Back pressure: 0 mmHg, Syringe: BD Precise 50 mL

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

Syringes installation control

Syringe barrel clasp check, plunger head detection, anti-siphon system check, flange detection

Infusion control

Occlusion pressure pre-alarm, occlusion pressure alarm, end of infusion pre-alarm, end of infusion alarm, volume limit pre-alarm, volume limit alarm, hard and soft flow rate limits, start infusion at pause end

Device control

Disengaged driving mechanism alarm, low battery pre-alarm, discharged battery alarm, battery capacity display in hours and minutes, unconfirmed programming, technical malfunction alarm (auto-test, rotation), drive system advance check, watchdog check, communication connection failure, plug-head disengagement, auto-lock/lock code of keypad

Maintenance

Preventive maintenance warning

Technical specifications

Manual pusher

Protection for the ongoing infusion thanks to "Push-Guard"

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 on 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 345 x 170 mm / Approximately 2,1 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

Usability Engineering

IEC 60601-1-6 and IEC 62366

Wireless LAN (For Agilia SP TIVA 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 Protocols

TCP, IPv4, DHCP, HTTP

CE, FCC and IC compliant

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