



**FRESENIUS
KABI**

caring for life



Agilia[®] SP TIVA

Agilia[®] SP TIVA WiFi

Syringe infusion pumps providing
intuitive intravenous anaesthesia

Dose rate programming for less risk
of errors in prescription computation

TCI infusion mode

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

Adaptable to all protocols

Up to 19 drug libraries embedded

Easy and intuitive to use

Stand alone or rack mounted

2 pressure modes and Dynamic
Pressure System (DPS)

Agilia® SP TIVA & Agilia® SP TIVA WiFi

Infusion

Flow rate range

0.1-1200 mL/h
0.1 mL/h increment from 0.1 to 99.9 mL/h (optionally 0.01 mL/h from 0.10 to 9.99 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

± 1% on mechanism : ± 2 % on syringes.

Syringes capacities

5, 10, 20, 30/35, 50/60 CC.

Type of syringe

Up to 100 types.

Infusion Modes

- mL/h mode.
- Dose rate modes: ng/h, ng/kg/min, ng/kg/h, µg/min, µg/h, µg/kg/min, µg/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.
- TCI infusion mode.
- Dilution setting: -- units / mL or -- units / -- mL.
- With or without loading dose.
- Volume or dose / time: 0.1 - 99.9 mL; 00 h 01 - 96 h 00.
- Volume limit: 0.1 - 999 mL.

TCI Mode

Pharmacokinetic Models

- Marsh & Schnider for Propofol administration on adults.
 - Kataria & Paedfusor for Propofol administration on pediatrics.
 - Minto, Gepts & Scott for Remifentanyl, Sufentanyl and Alfentanyl. Administration in adults.
- Targets: TCI Effect or Plasma control Modes.

Volume/Dose infused

Volume: 0.1 - 999.9 mL / Dose: 0.1 - 999.999 units.

Priming

3 modes: mandatory, not mandatory, or advised / Rate: 1200 mL/h.

Bolus

- Direct bolus: Rate: 50 - 1200 mL/h (50 mL/h increment).
- Programmed bolus (dose or volume / time): 0.1 - 99.9 mL / 0.1 - 9999 units / 1 second - 24 h.

induction dose

Dose / time: 0.1 - 99.9 units / 1 second - 24 hours
rate auto-calculation.

End infusion (V/T & VL)

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

Fast start

Not mandatory prime set by default resulting in fast start if user does not prime with bolus button ensuring programmed flow rate to be reached faster.

Pause

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

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 beep 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.
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.

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). Can be enables / disabled and adjusted.

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 for a 50 mL syringe.

* Test condition: Back pressure: 0 mmHg - Syringe: BD Precise.

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 (on Keypad).

Maintenance

Preventive maintenance warning.

Technical specifications

Manual pusher

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

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 on 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 345 X 170 mm / ~ 2.1 kg.

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 SP TIVA and Agilia SP TIVA WiFi (WiFi disabled / not used) > 13 h at 5 mL/h
- Agilia SP TIVA WiFi (WiFi enabled) > 9 h at 5 mL/h

Battery recharge:

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

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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