Agilia® SP TIVA

Syringe infusion pumps providing intuitive intravenous anaesthesia

Dose rate programmation 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 ± 3%

Adaptable to all protocols

Up to 19 drug libraries embedded

Easy and intuitive to use

Stand alone or rack mounted infusion pump with alarm

2 pressure modes and 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 (0.1 mL/h increment).
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
± 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, mL/kg/h, mL/kg/24h, mL/kg/min.
• TCI infusion mode: Effect or Plasma 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 Remifentanil, Sufentanil and Alfentanil.
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 min - 24 h.

Loading dose
Dose or volume / time: 0.1 - 99.9 units / 00 min 01 - 59 min 59 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 eventually 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.

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.

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 Concil 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

Usuability 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-Entreprise, WPA/WPA2-PSK.

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

FRESENIUS KABI

caring for life

CE 0123

IFTB_25_09_2020_V1