Datasheet

Medcaptain

HP-30 PRO MRI Syringe Pump

Basic Parameter

Infusion mode	Rate Mode, Time Mode, Weight Mode, Sequence Mode, Trapezia Mode, Micro Mode, LoadingDose Mode, TIVA Mode, PCA Mode (optional), and Intermittent Mode
Infusion rate range	0.10-60.00 ml/h (2ml syringe) 0.10-150.0ml/h (5ml syringe) 0.10-1000ml/h (20ml syringe) 0.10-2200.0ml/h(50/60ml syringe) 0.10-90.00ml/h (3ml syringe) 0.10-600.0ml/h (10ml syringe) 0.10-1200.0ml/h(30ml syringe)
Minimum increment of infusion rate	0.10-99.99ml/h (minimun increment 0.01ml/h) 100.0-999.9ml/h (minimun increment 0.1ml/h) 1000-2200ml/h (minimun increment 1ml/h)
VTBI range	0.10~9999.99ml (minimum increment: 0.01ml)
Preset time	00:00:01~99:59:59 (minimum increment: 1s)
Total volume display	0~9999.99ml (minimum increment: 0.01ml)
Accuracy	Infusion accuracy≤±2% Mechanical accuracy ≤±0.5%
KVO rate	0.10~5.00ml/h (minimum increment: 0.01ml/h) Adaptive KVO available, can adjust KVO rate according to the infusion rate
Bolus & Purge rate	0.10-60.0 ml/h (2ml syringe) 0.10-150.0ml/h (5ml syringe) 0.10-1000ml/h (20ml syringe) 0.10-2200ml/h(50/60ml syringe) 0.10-90.0ml/h (3ml syringe) 0.10-600.0ml/h (10ml syringe) 0.10-1200ml/h(30ml syringe)
Bolus VTBI	0.10-2.0 ml/h (2ml syringe) 0.10-5.0ml/h (5ml syringe) 0.10-20.0ml/h (20ml syringe) 0.10-50.0ml/h(50/60ml syringe) Minimum increment for all: 0.01ml 0.10-3.0ml/h (3ml syringe) 0.10-10.0ml/h (10ml syringe) 0.10-30.0ml/h(30ml syringe)
3 bolus ways selectable	Automatic/Manual/Semi-Auto bolus
Occlusion level	2ml, 3ml, 5ml, 10ml, 20ml, or 30ml syringe: 50~1125mmHg, 15 levels are available for selection 50/60ml syringe: 50~975mmHg, 13 levels are available for selection

Alarm

Visual & acoustic alarm	Infusion End, BAT Empty, Patient Side OCCL, Infusion End KVO Start, KVO End, Relay Failed, Syringe Empty, Holder Error, Drive Head ERR, Standby End, Infusion Near End, No Battery, No AC Power, BAT Low, Reminder Alarm, Syringe Near Empty, PCA 1h overrun, and PCA 4h overrun, Pre OCCL, Tube Off, Drive Head Position ERR

Specifications

Dimension	258 x 75 x 152mm （WxHxD）
Weight	< 1.7kg (including battery)
Classification	Defibrillation proof type CF， IP33
Compatible syringe	Various brands of 2ml, 3ml, 5ml, 10ml, 20/30ml, 50/60ml syringes compliant with ISO 7886-1 and ISO 7886-2
Screen	3.0 inch LCD touchscreen, brightness 10 levels adjustable
Standard accessories	Power cord, Handle, Pole clamp
Optional accessories	PCA kit, Nurse caller, Barcode scanner

Special function

Recent therapy	20 recent therapies are recorded and can be used for rapid infusion
Rate change in infusion	Infusion rate can be changed anytime during infusion, no need to stop the infusion
Relay function	Continuous infusion among multiple pumps, guarantee non-stop therapies for sensitive drugs. Support single drug relay and multi drug relay
Drug library **DoseControl mode**	Built-in drug library with Dose error reduction system Support maximum 30 profiles (clinical care area) and 5000 drugs Maximum 1000 drugs in every profile (clinical care area) Programmable drug library information and pump configuration
Screen lock	Both Manual screen lock and Auto screen lock are available
Anti-Bolus	Anti-Bolus function available, unintended bolus ≤0.2ml
Repeat alarming	Alarm sounds again in 2 minutes if there is still alarm after alarm is muted
Event recording	Maximum 3000 events can be stored for review
Sound Volume	12 levels selectable
Power supply switching	When AC/DC power supply is cut off, the infusion automatically switch to internal battery supply
Syringe installation	Manual Installation; Auto Installation; Auto-Manual Installation

Connectivity

WiFi / Wired	To connect central infusion monitoring system, nurse caller
Barcode scanning	Patient information input by barcode scanner
Data interface	Supported, USB 2.0, USB 3.0, RJ45, Wi-Fi
Protocol	HL7

Power supply

AC power	100 -240 V AC, 50/60 Hz, power consumption 45 VA
External DC power	DC 12 V, 2.5 A
Internal battery	Lithium battery 10.8 V, 3000mAh
Battery duration	10 hours @5ml/h with a new battery
Charging time	No longer than 4 hours (the pump is powered off during the charge)

Mounting

Inside docking station	Supported
Between pumps	Stackable between any HP series syringe / infusion pumps produced by Medcaptain
Handle	Available
Pole clamp direction	Can be mounted at different directions, 90°/180°/270°/360°

Safe requirement

Operating conditions	Temperature: 5°C to 40°C Humidity: 15% to 95% RH, non-condensing Pressure altitude: 57.0 kPa – 106.0 kPa
Storage conditions	Temperature: -20°C to +55°C Humidity:10% to 95% RH, non-condensing Pressure altitude: 22.0 kPa – 107.4 kPa

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DISTRIBUTOR:

HP-30 PRO Datasheet-4P-Version 3.0-EN

Specifications

Name	HP-80 MRI Infusion Workstation
Dimension	499(L)x290(W)x674(H)mm
Weight	Approx 21.9kg
Infusion Channels	Free combination up to 4 infusion/syringe pumps
Compatible Pump Models	HP-30 PRO Syringe Pump HP TCI PRO Syringe Pump HP-30 Neo Syringe Pump HP-60 PRO Infusion Pump
Magnetic Scanner	To be used both with 1.5 Tesla and 3.0 Tesla MRI Scanners
Magnetic Field	To be used in magnetic fields up to 20mT
IP	IP33
Special Features	Supports relay function Enables continuous monitoring of the magnetic flux density A sound and light alarm is immediately activated in case the pump is not working properly The tube management unit of the infusion workstation keeps multiple infusion tubes clean and unclogged
Power Supply	AC power supply: 100-240 V, 50/60 Hz Input power: 200VA

HP-80 MRI Infusion Workstation

Integrated Solution for Safe Infusion in MRI Environments

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EN-MRI -4P-Version 1.5

Distributor:

HP-80 MRI Infusion Workstation delivers affordable innovation which enables interference-free infusions and image quality during MRI examination.

Robust & solid shield prevents artefacts on MRI image.

Stable infusion during MRI examination.

HP-80 MRI Infusion Workstation

MagArmor™

Magnetic-flux-density indicator

MRCIS* Patent based on Faraday cage shielding

MRCIS*: Magnetic Resonance Compatible Infusion System based on Faraday cage theory

More Flexibility

Using this infusion workstation, medical institutions can choose to combine multiple syringe pump(s) and infusion pump(s) together according to the clinical infusion requirements. Max. 4 pumps.

MRI infusion Workstation enables continuous infusion of critical medications during MRI procedures, thereby reducing the delay in MRI diagnosis or restriction in administration of medications in critical situations.

Designed for the MRI environments

The Magnetic-flux-density indicator enables safe installation of the HP-80 MRI as well as continuous monitoring of magnetic flux density with the installed alarm system.

HP-80 MRI
Infusion Workstation

Integrated Solution for safe infusion administration in MRI environments

Specification

Name	HP-80 MRI Infusion workstation
Infusion Channels	A maximum of 4 infusion/syringe pumps can be combined
Compatible Pump Model	HP-30 PRO syringe pump HP TCI PRO syringe pump HP-30 Neo syringe pump HP-60 PRO infusion pump
Magnetic Scanner	Both 1.5 Tesla and 3.0 Tesla
Magnetic Field	To be used in magnetic field up to 20mT
Special Features	Supporting relay infusion of infusion /syringe pumps Supporting uninterrupted monitoring of the magnetic flux density. A sound and light alarm is reported in time to remind the user in case of an exception The tube management unit of the infusion workstation enable multiple infusion tubes to be neat, clear and beautiful.
Power Adapter	Input voltage: AC 100-240V 50/60Hz. Input power: 25VA. DC output voltage: 5V 2A.
MagArmor Indicator:	MagArmor
Normal operation	Magnetic field: ≤20mT Color: GREEN
Caution	Magnetic field: 20-40mT Color: YELLOW The device must be moved back to the green zone
Warning!	Magnetic field: >40mT Color: RED The device must not be used in the zone
Connection	Supporting wired network connection

Specification	HP-80 MRI Infusion workstation
Remote Control Module	Maximum compatible with 100m communication cable for a remote control application.
Remote Control Module Dimension	539.6 (L) x 45.5 (W) x 342.6 (H) mm.
Remote Control Module Weight	6.6kg
Remote Control Module Screen Size	21.5-inch PCAP multi touch.
Classification	1. Class I equipment with internal power supply; 2.No applied part; 3. IP33; 4. Not Sterilized; 5. Not Category AP / APG equipment; 6. Mode of operation: Continuous
Dimension	499 (L) x 290 (W) x 674 (H) mm
Weight	About 21.9Kg
Power supply	AC power supply: 100-240V, 50.60Hz Input power: 200VA
Battery	The battery is only used to power the MagArmor. Lithium battery: 10.8V 3000mAh; Lithium battery model: 18650-3S1P; Charge mode of lithium battery: The battery is charged when AC power input is available.
Operation conditions	Temperature: 5° C~40° C Humidity: 15%~95% RH, non-condensing Pressure altitude: 57.0~106.0kPa
Storage and Shipping Conditions	Temperature: -20° C~+55° C Humidity: 10%~95% RH, non-condensing Pressure altitude: 22.0~107.4kPa
Main safety	IEC 60601-1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance; IEC60601-1-8 Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance -Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems; IEC 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance –Collateral Standard : Electromagnetic disturbances –Requirements and tests.

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