PASITHEC

ANESTHESIA WORKSTATION


PIPELINE
CYLINDER

THE ECONOMICAL UNDERSTANDING OF MODERN ANESTHESIA

HEYER Medical's contemporary anesthesia system Pasithec fully featured and simple to use.

The modular construction concept fulfills all individual situations in OR's.
It offers:

- Comprehensive ventilation modes
- Minimal tidal volume of 20 ml makes it fit for pediatric use
- Heated patient module to avoid moisture buildup
- Display of Loops

The Pasithec is a cost-effective, flexible anesthesia workstation for performing and monitoring inhalation anesthesia. Low-flow techniques minimize gas and anesthetic agent consumption for economical day-to-day operation.

HEYER Pasithec naturally complies with the highest standards in ergonomic design, safety and easy operation and reliable respiratory settings.

FEATURES

USER INTERFACE

The highly flexible 10.4" color display ensures a simple and quick access and control of all ventilation parameters and functions. It is operated by a navigator knob and touch keys for frequently used functions.
Ventilation modes: IPPV, PCV, PS, SIMV, MANUAL – displayed in WAVES or LOOPS.

FLOW CONTROL

Dual flowmeters for AIR, Oxygen and Nitrous Oxide provide an accurate flow control. The build-in auxiliary O2 flowmeter enables the supply of Oxygen for additional patient applications.

VAPORIZER MOUNT

The vaporizer mount takes up to two Selectatec®-compatible vaporizer.

BREATHING SYSTEM

The very compact aluminum breathing system is warmed to prevent condensation and allows breathable gas conditioning. The traditional CO2 absorber system uses loose fill absorbent.
An integrated Fresh Gas Compensation ensures a consistent tidal volume in case of changing fresh gas flow rates.
The Automatic Compliance Compensation provides accurate tidal volumes with a wide range of breathing circuits.

SUB-FRAME

Two spacious drawers allow the direct access and storage of necessary accessories. The extendable writing board provides a desktop area in comfortable work height. Due to the small dimensions of the footprint, the Pasithec is quite easy to handle and also applicable in small rooms.

SPECIFICATIONS

General Specifications

Dimensions (H x W x D)	1400 x 950 x 750 mm
Weight (basic unit)	148 kg
Storage temperature	-20°C - +55°C
Storage rel. humidity	≤ 93%
Operating temperature	+10°C - +40°C
Operating rel. humidity	≤ 80%

Electrical Connection Data

Power supply	100 - 240 VAC, 50/60 Hz
Maximum input current	8 A
Battery supply	> 90min
Auxiliary sockets	4, 1.5 A each
Data Interface	RS232

Pneumatic Connection Data

Central gas supply	NIST (optional DISS)
Oxygen (O2)	280 - 600 kPa
Compressed air (AIR)	280 - 600 kPa
Nitrous oxide (N2O)	280 - 600 kPa
Cylinders (optional)	O2, N2O - 2x or 4x PIN Index

Breathing Circuit

Sterilization	Aluminum assembly: autoclavable up to 134°C Other parts: immersion in chemical disinfectants
System compliance	Automatically compensated
Capacity CO2 absorber	1800 ml
Internal volume circuit	approx. 2.5 L
Connector	Common Gas Outlet (CGO) ISO 5356
Heating	33 - 40°C

Fresh Gas Dosing

Fresh gas dosing	6 fold flowmeter block
O2	0.05 - 1.0 L/min, 1 - 10 L/min
AIR	0.05 - 1.0 L/min, 1 - 15 L/min
N2O	0.05 - 1.0 L/min, 1 - 12 L/min
Ratio system	Integrated (min. 25Vol. % O2 in fresh gas)

Anesthetics

Vaporizers	Two vaporizers, Selectatec® compatible
Anesthetics	Isoflurane, Sevoflurane, Enflurane, Halothane, Desflurane

Ventilation and Monitoring Parameters

Ventilation modes	IPPV, PCV, PS, SIMV, manual cardiac bypass available in manual mode
Tidal volume VT	20 - 1500 ml
Ventilation frequency	2 - 100 bpm
I:E ratio normal	1:1, 1:1.5, 1:2, 1;2.5, 1:3, 1:3.5, 1:4, 1:4.5, 1:5, 1:5.5, 1:6, 1:6.5, 1:7, 1:7.5, 1:8,
I:E ratio inverse	4:1, 3.5:1, 3:1, 2.5:1, 2:1, 1.5:1
Adjustable respiratory parameters	IPPV: VT, Freq., I:E, TP, PEEP PCV: Ptarget, Freq., I:E, PEEP, TSlope PS: FreqMIN, PEEP, △P, Trigger, TSlope SIMV: VT, Freq, Tinsp, Tp, PEEP, △P, Trigger, TSlope
High pressure (PCV)	5 - 70 cmH2O
PEEP	3 - 30 cmH2O
Maximum pressure control	85±2 cmH2O
Compliance test	Automatic
Leak test	Automatic / manual
Oxygen monitor	Chemical fuel cell, main stream Lifetime: 12 months Fi O2 18 - 99%
CO2 monitor (optional)	Et CO2, Ins CO2 0 - 10%
Pressure monitor	Ppeak, Pmean, Pplateau, PEEP
Flow monitor	VT, MV, Freq
Waves	Paw - t, flow - t, CO2 - t
Loops	Pressure – Volume, Flow – Volume
Display	10.4“ TFT color monitor

Gas Monitoring (optional)

CO2	Range:	0 - 20%
	Accuracy:	±0.2vol% + 2% of reading (@0 - 10%)
N2O	Range:	0 - 100%
	Accuracy:	±0.2vol% + 2% of reading (@0 - 100%)
Halothane	Range:	0 - 12%
	Accuracy:	±0.15vol% + 5% of reading (@0 - 8%)
Isoflurane	Range:	0 - 12 %
	Accuracy:	±0.15vol% + 5% of reading (@0 - 8%)
Enflurane	Range:	0 - 12 %
	Accuracy:	±0.15vol% + 5% of reading (@0 - 8%)
Sevoflurane	Range:	0 - 15%
	Accuracy:	±0.15vol% + 5% of reading (@0 - 10%)
Desflurane	Range:	0 - 25%
	Accuracy:	±0.15vol% + 5% of reading (@0 - 22%)
Automatic Agent ID		Hal, Iso, Enf, Sev, Des

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Rev. 08/2017 - EN

CE 0123