



**ANESTHESIA WORKSTATION** 





# 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**

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Genera	Specific	ations

	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

Tidal volume VT  Ventilation frequency  2 - 100 bpm  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,  1: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)  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	Ventilation modes	IPPV, PCV, PS, SIMV, manual cardiac bypass available in manual mode
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, 1:5, 1:5.5, 1:6, 1:6.5, 1:7, 1:7.5, 1:8, 1:4, 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 SIMV: VT, Freq, Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq, Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, Freq Tinsp, Tp, PEEP, △P, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, Tinsp, Tp, PEEP, OP, Trigger, TSlope SIMV: VT, MV, Freq Tinsp, T	Tidal volume VT	20 - 1500 ml
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  Oxygen monitor  Chemical fuel cell, main stream  Lifetime: 12 months  Fi O2 18 - 99%  CO2 monitor (optional)  Pressure monitor  Ppeak, Pmean, Pplateau, PEEP  Flow monitor  VT, MV, Freq  Waves  Paw - t, flow - t, CO2 - t  Loops  Pressure - Volume, Flow - Volume	Ventilation frequency	2 - 100 bpm
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· · · · · · · · · · · · · · · · · · ·	Waves	Paw - t, flow - t, CO2 - t
Display 10.4" TFT color monitor	Loops	Pressure – Volume, Flow – Volume
	Display	10.4" TFT color monitor

#### Gas Monitoring (optional)

das 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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