Technical Specifications

BASIC UNIT

Dimensions(H*W*D)

1420*912*720mm

Weight and load

Excluding vaporizers	110kg
Including vaporizers	130kg
Work surface load	25kg

Caster locking

Braking type	125mm, Central brake system

Power and battery backup

Power input	AC 100~240 V, 50/60 Hz
Power output	4 sockets, 1.5A individual
Battery and operation time with fully charged	Lead-acid, 90 min

ANESTHESIA GAS SUPPLY MODULE

Gas supply	O_2, N_2O, Air; 280~600kPa	
Cylinder yokes	Optional	
Flowmeter	Electronically controlled mixer	
O_2 flush	25~75L/min	
Auxiliary common gas outlet (ACGO)		Standard
Anesthetic gas gscavenging system (AGSS)		Optional

Range of flowmeter

0~18L/min or set each gas independently:

O_2, N_2O: 0~10L/min; Air: 0~12L/min

Vaporizer

Agent	Sevoflurane, Halothane, Enflurane, Isoflurane
Installation mode	Selectatec with interlock
Filling type	Pour-fill, Key-fill, Quik-fil

Breathing system

Type	Volume reflector
Heating system	32~40℃
Volume of CO_2 absorber	1.5L for single canister
APL range	0～70 cmH$_2$O
CO_2 bypass	Optional

VENTILATOR OPERATING SPECIFICATIONS

Control input ranges

Freq	2~100 bpm
I:E	4:1~1:8
Vt	10~1500 ml
T_{INSP}	0.2~5.0 s
P_{TARGET}	5~70 cmH$_2$O
P_{MAX}	10~100 cmH$_2$O
T_{SLOPE}	0 -2 s
$\triangle P$	3~60 cmH$_2$O
PEEP	OFF, 3~50 cmH$_2$O
Trigger	0.5~15 L/min / -20~-1 cmH$_2$O
Compensation	Compliance and leakage compensation, fresh gas compensation, altitude compensation
Ventilator	Pneumatically driven, Electronically controlled
Ventilation modes-standard	VCV, PCV, Manual/Spontaneous
Ventilation modes-optional	PCV-VG, SIMV-VC, SIMV-PC, SIMV-VG, PS/CPAP, BIVENT, APRV, VSV

Ventilator monitoring & alarm

Monitoring	Vt, MV, Freq, Ppeak, Pmean, Pplat, DP, SI, FiO$_2$, FiCO$_2$, EtCO$_2$, PEEP, Battery status display,ect.
Screen	18.5"TFT color touch screen
Graph display	Waveforms of P-t, F-t, V-t, EEG, Agent, CO$_2$; loops of P-V, V-F, P-F, V-CO$_2$
Alarm	Excessive leakage, Low oxygen source pressure, High air source pressure, High airway pressure, Low oxygen concentration, Excessive output tidal volume, High concentration of N_2O inhaled, High concentration of ISO/SEV/ENF/HAL/DES inhaled, Persistent high airway pressure, Bypass mode started(1 minute), Apnea, etc.

AG70
Anaesthetic Workstation
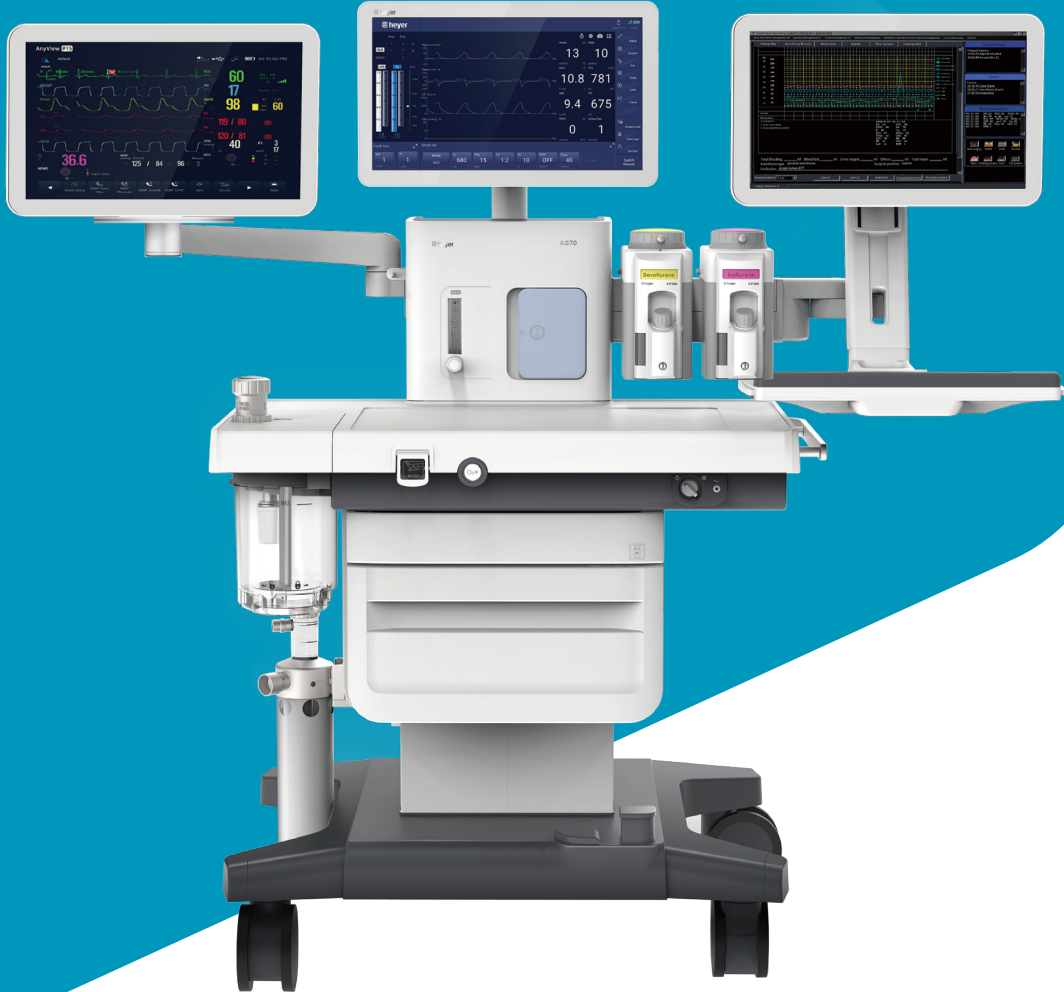
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18.5 inch smart pad

The large smart pad can realize 180° horizontal rotation and 30° vertical pitch adjustment achieving different position operation and improving operation experience.
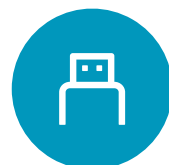
USB work light

Touch-adjustable USB light lights up the work space for a clear vision during dim environment.

Electricity-gas isolation

Gas and electricity separation builds up a clean and safe OR environment.

Oversize workbench

Being tiled 3 sheets of A4 paper gives clinicians enough space to place and operate.

Double drawer design

The upper drawer can be used as medication box, no handle design, press to pop out. The lower drawer as a large instrument box.

Central brake system

Double pedal design, left pedal lock, right pedal unlock. More labor-saving, more efficient.

AG70

Focusing on offering more solutions to diverse clinical challenges, inheriting the century-old exquisite manufacturing process of Heyer, AG70 is innovated to a more intelligent future.

Lung-protective ventilation

Lung-protective ventilation is the current standard of care for mechanical ventilation. The risk of Post Pulmonary Compliance (PPCs) can be effectively reduced through lung-protective ventilation.
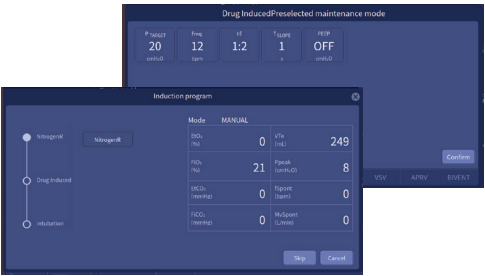

Low tidal volume

With a minimum tidal volume of 10ml in volume control mode, AG70 can meet patients' needs with different body weight and in different health status.

Auto Induction Process Management (AIPM)

Before starting induction, clinicians need to set the patient's age, weight and other information firstly. Induction mode is divided into three stages: nitrogen removed, drug induced and intubation. According to the prompt information of each stage, carry out induction operation.

Individualized PEEP titration tool

BEP helps with individualized PEEP titration. Through the guidance of the PV Loop tool, the appropriate PEEP value and tidal volume are realized.

Auto Waking up Process Management (AWPM)

It includes oxygen infusion, sputum suction and lung expansion, mechanical and autonomic ventilation. The AWPM mode is used for patients with difficult airways. The machine provides oxygen infusion when starting the mode, recruits lung automatically after suction, and judges whether extuba-tion is suitable according to the patient's state, which improves the resuscitation efficiency.


Minimized impact recruitment maneuver

Two types recruitment maneuver are available: stepwise PEEP or sustained inflation. Automate repetitive tasks used during lung ventilation procedures.

EEG waveform

Anesthesia depth monitoring helps anesthesiologists to observe whether the anesthesia depth is suitable for current stage and to keep patients in a stable and safe situation.
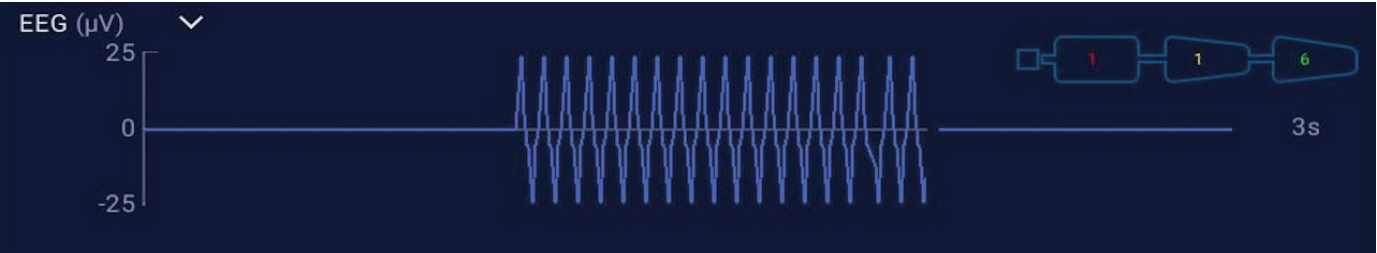
Cardiopulmonary Bypass (CPB)

Three cardiopulmonary bypass tools are available: VCV based, PS/CPAP based, and Flow Pause. Choose according to needs.

All-round monitoring parameters

More than 30 parameters including paw, volume, gas, BIS etc. are monitored on AG70, giving clinicians all-round outcomes to operate and take care patients.

Innovated parameter boxes can be made as individualized combination according to the surgery needs and clinicians' operation experiences by sliding and splitting. Maximum 16 parameters can be chosen to show simultaneously.

Digital flowmeter and pressure gauge

Digital gas mixture, adjustment and display, precise gas controlling ensures the accurate flow rate and benefit for green planet.

Two adjustment methods for option:

(1) Single tube adjustment for each gas

(2) Total flow and O_2 concentration adjustment

With Eco-optimizer to tip if the flow is appropriate, ensuring patient's safety and reduce gas waste.
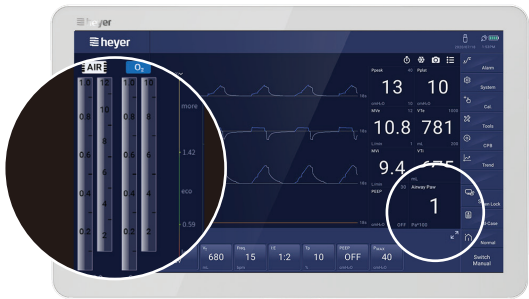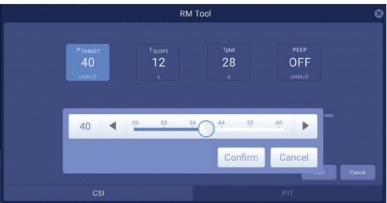
Modern adjustment methods

Adjustment methods which are of sense of technology achieve coarse and fine adjustment more convenient.Intelligent reference icons and waveforms tip clinicians the ideal and realistic situation of the patient for a better judgement.
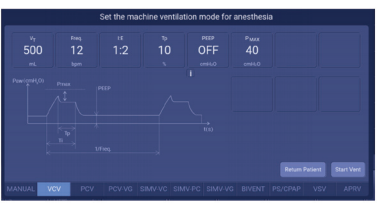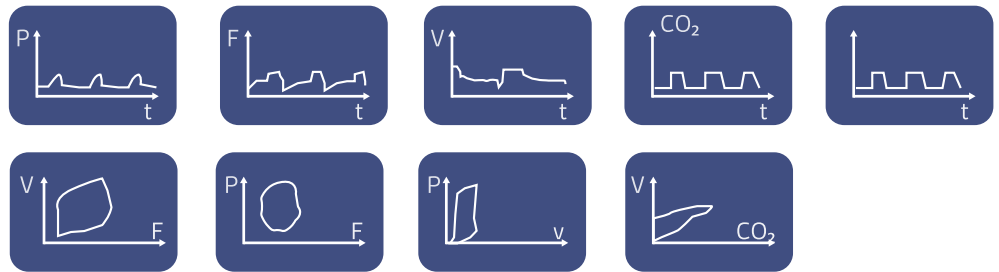
Alarm setting   Reference waveform for ventilation mode   Parameter setting

AA waveform

AA waveform gives clinicians an intuitive observation on the whole stage of anesthetic gas concentration change.

Comprehensive ventilator-level ventilation modes satisfy various patient types, dealing with complicated patient's conditions with lung protective ventilation.

| VCV | PCV | PCV-VG | SIMV-VC | SIMV-PC |
| SIMV-VG | PS/CPAP | BIVENT | APRV | VSV |