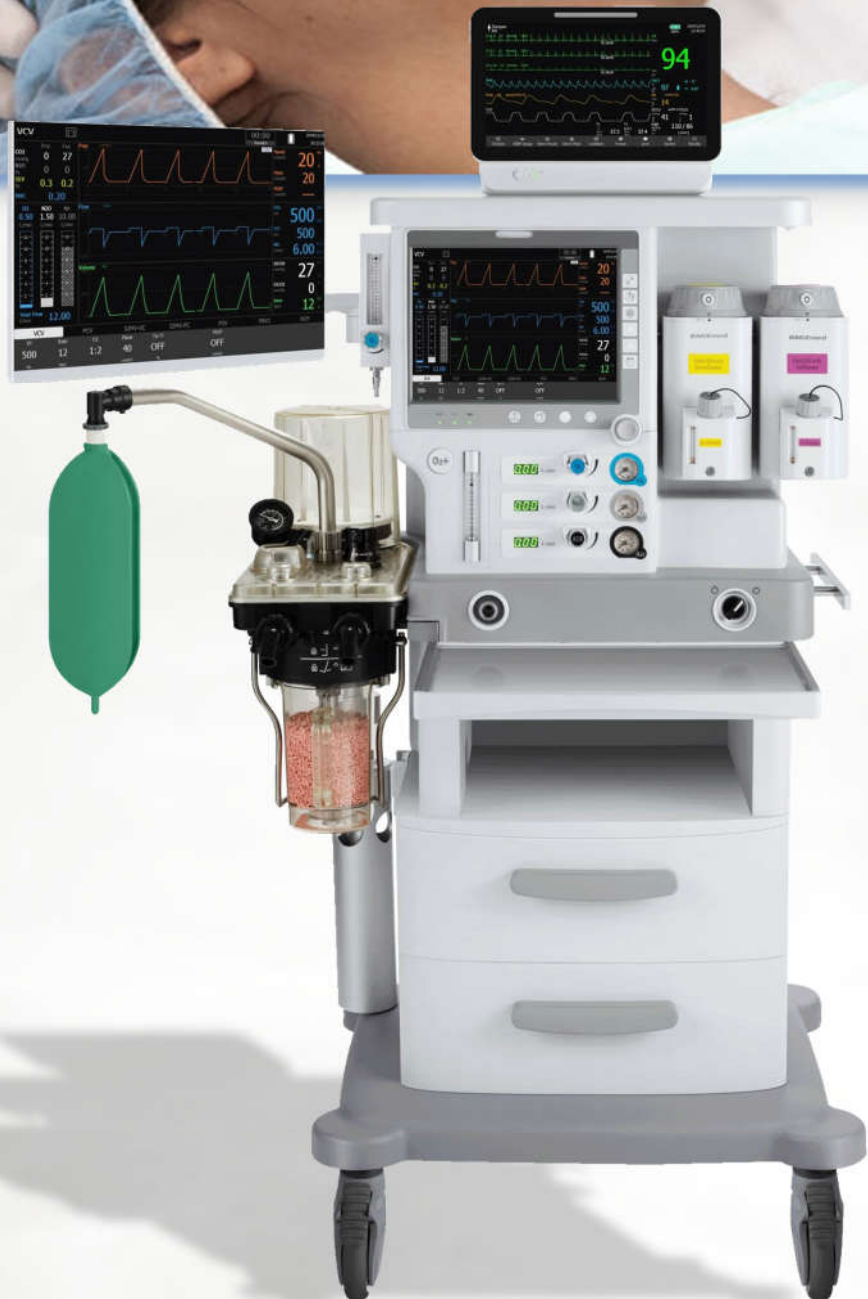




BX-600E

Anesthesia Machine





Physical Specifications

Overall machine size

Weight < 110 kg
no anesthetic gas evaporizers and cylinders

Size (dual anesthetic gas evaporizer, without respiratory circuit system)

Height 1350 mm
Width 680 mm
Thickness 600 mm

Size (dual anesthetic gas vaporizer, with respiratory circuit system)

Height 1350 mm
Width 750 mm
Thickness 600 mm

Roof

Maximum bearing weight 30 kg
Width 540 mm
Length 400 mm

Staging

High 800 mm
Width 280 mm
Length 440 mm

Drawer (inside dimension)

Width 340 mm
Length 330 mm
Depth 140 mm

Display screen

Type Colored with the TFT LCD
Size At 12.1 inches
Resolution ratio 1024*768 pixels
Luminance Adjustable

Trundle

Diameter 4,125 mm
Two brake pads on the front end
Two no brake pads at the rear end

LED indicate

Alarm indicator 1 red, yellow
(When both advanced and intermediate alarms occur, only flashing red)
AC power light 1 Green
Battery indicator light 1 Green
Work indicator light 1 Green

Audio instructions

Loudspeaker Send out alarm sound and key prompt tone; support multi-level volume function; the alarm sound meets the requirements of IEC60601-1-8 standard.
Buzzer Used to sound the alarm when the system is not working properly

Joggle

Source 1 AC power supply interface
3 auxiliary output power supply ports
USB 2 USB interfaces
Network 1 multi-function reuse interface, support network and software online upgrade function
HDMI Support display expansion
RS232 1 Serial port interface
Iso-electric level 1 equipotential ground terminal



Air route system specification

Auxiliary common gas outlet (ACGO)

Connect Tapered coaxial joint outside 22mm and within 15mm

Air supply

Pipe input pressure range 0.28 - 0.6 Mpa

Pipe input joint NIST

Standard cylinder input connector PISS

Oxygen control

Gas supply fault alarm Below the level of 220 kPa

Rapid oxygen filling 25L/min - 75L/min

Flowmeter

Type Electronic display flowmeter

Oxygen range 0 - 12L/min

Laughing gas range 0 - 12L/min

Air range 0 - 12L/min

Precision $\pm 10\%$ of the indicated value (20°C, 101.3 kPa, between 10% and 100% of the full scale, the scale accuracy shall be within $\pm 10\%$ of the indicated value.

Total flowmeter

Type The float flowmeter

Range 0 - 10L/min

Precision $\pm 10\%$ of the indicated value (20°C, 101.3 kPa, between 10% and 100% of the full scale, the scale accuracy shall be within $\pm 10\%$ of the indicated value.

Supplemental oxygen

Gas supply O₂ in the system

Flow rate 0 - 15L/min

Precision $\pm 5\%$ of the indicated value (20°C, 101.3 kPa, for flow between 10% or 300 mL / min (both larger) to full scale (calibration with 100% oxygen); pressure compensation is not provided

Oxygen laughing linkage system

Type Mechanical proportional controls device

Scope Oxygen concentration is not less than 25%

Respiratory system specification

System leakage and system compliance

System leakage The circulating circuit of the respiratory system is under 3 kPa pressure, and its leakage amount is not greater than 150 mL / min

System compliance Anesthesia ventilator system compliance: 4 mL/100Pa

CO₂ Absorb the leak of the tank The leakage amount is not greater than 50 mL / min @ 3 kPa

APL valve leak Leakage not greater than 50 mL/min (APL valve scale is 70)

APL established house or power group

Scope 1 - 70 cmH₂O

Touch indication 20 cmH₂O more than

Rotation adjustment range

1 - 30 cmH₂O

30 - 70 cmH₂O

0 - 30°

30° - 300°

CO₂ absorption tank

Capacity 1600 mL

Airway pressure gauge

Scope

Accuracy

-20 - 100 cmH₂O

$\pm 2.5\%$



Ventilator Operating specification

Ventilator parameter setting range

VT	15 - 1500 mL	Plimit	10 - 100 cmH2O
Rate	4 - 100 bpm	Pinsp	5 - 70 cmH2O
I:E	4:1 - 1:10	Δ Psupp	OFF, 5 - 70 cmH2O
Tip: Ti	OFF, 5% - 60%	PEEP	OFF, 4 - 30 cmH2O
Tinsp	0.1 - 10 s	Ftrig	OFF, 0.5 - 15L/min
Slope	0 - 2 s	Ptrig	OFF PEEP-20 - PEEP-1cmH2O

Positive pressure PEEP setting

Type	Integrated electronic adjustable PEEP	Scope	OFF, 4 - 30 cmH2O Increment: 1 cmH2O
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Ventilator performance

Actuating pressure	280 - 600 kPa
Peak flow rate	120 L/min
Flow valve	1 - 100 L/min

Monitoring parameters

MV	0 - 60 L/min
VT	0 - 2500 mL
Oxygen concentration	18 - 100%
Ppeak	-20 - 120 cmH2O
Pmean	-20 - 120 cmH2O
Pplat	-20 - 120 cmH2O
I:E	4:1 - 1:10

Monitoring parameters of PEEP

Scope	0 - 70 cmH2O
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Precision of the anesthesia ventilator

Control and monitoring accuracy

Volume control Tidal volume (VT) 75 mL: ± 10 mL; 75 mL: ± 20 mL or $\pm 10\%$, large value.
Respiratory rate (Rate) ± 1 time / min or $\pm 5\%$ of the set value, take the large.
Aspiration time (Tinsp) ± 0.1 s, or $\pm 5\%$ of the set value, with a large error value.
Pressure rise time (Slope) ± 0.05 s or $\pm 20\%$ of the set value.
Inspiratory time: Expiratory time (I: E): 2:1~1:4: $\pm 10\%$ of the set value; other ranges: not defined.
Inhalation pause (Tip: Ti) 20% to 60%: $\pm 15\%$ of the set point.

Control and monitoring accuracy

Pressure control Inspiratory pressure (Pinsp) is ± 4.0 cmH2O or $\pm 10\%$ of the set point, take the large one.
Support pressure (Δ Psupp) ± 4.0 cmH2O or $\pm 10\%$ of the set value, take the large one;
Pressure limit (Plimit) ± 4.0 cmH2O or $\pm 10\%$ of the set point, take the large one.
Terminal positive pressure (PEEP) 4 ~ 30 mH2O : ± 2.0 cmH2O or $\pm 10\%$ of the displayed value, taken as large; OFF: not defined.

Triggering sensitivity Flow-trigger sensitivity (Ftrig): ≤ 2 L/min: ± 0.2 L/min, > 2 L/min; ± 1 L/min.
Pressure-triggered sensitivity (Ptrig) ± 2 cmH2O, or $\pm 15\%$ of the set value, take the largest error value.

Capacity monitoring Inspiratory and expiratory tidal volume (Vti, Vte) 75 mL: ± 10 mL
75 mL and 1500 mL: ± 20 mL or $\pm 10\%$, take large value; 1500 mL: not defined.
Resolution is: 1 mL
Minute ventilation volume (MV) ± 0.2 L/min or $\pm 15\%$ of the displayed value, if large;
Respiratory rate (Rate) ± 1 time / min or $\pm 5\%$ of the displayed value.
The inhalation ratio (I: E) shows $\pm 15\%$ of the value

Pressure monitoring Include all pressure monitoring: $\pm (2\%$ of the full scale + 4% of the reading).

Fraction of inspired oxygen: $\pm 3\%$

Adaptability Below 10 mL / cmH2O within the effective monitoring range the error is ± 2 mL / cmH2O, the remaining error is $\pm 20\%$; other ranges are not defined.
Air way resistance $\pm 20\%$ within effective monitoring range, other ranges not defined



Precision of the anesthesia ventilator

Alarm setting

FiO ₂	High limit of alarm: OFF, 20% - 100% Low limit of alarm: 18 - 99%
VTe	High limit of alarm: 15 - 1500 mL, OFF Low limit of alarm: OFF, 15 - 1500mL
MV	High limit of alarm: 0.5 - 60L, OFF Low limit of alarm: OFF, 0.1 - 60L
Rate	High limit of alarm: 1 - 100 bpm, OFF Low limit of alarm: OFF, 1 - 99 bpm
Paw	High limit of alarm: 1 - 100 cmH ₂ O Low limit of alarm: OFF, 1 - 30cmH ₂ O

Anesthesia gas evaporator

Type of anesthesia gas evaporator	Penlon Sigma Delta Or Sigma Alpha anesthesia gas evaporator, Evap- α 8 sevoflurane anesthesia gas evaporator, Evap- α 7 isoflurane anesthesia gas evaporator, Evap- α 6 anflurane anesthesia gas evaporator optional
Can position	Double tank position or single tank position (optional)
Way to install	Selectatec®, With interlocking (Selectatec® is a registered trademark of Ohmeda)

AGSS system specifications

Size		Parameter	
Height	500 mm	Air pumping flow rate	50 - 80L/min
Width	150 mm	Filter	The pore diameter is from 100 to 120 μm
Thickness	120 mm		

Oxygen sensor specifications

Parameter	
Measuring range	0 - 100%
Precision and repeatability	<1% (in the O ₂ 100% O ₂)
Working temperature	0 - 50°C
Preheat time	<30 min (after sensor replacement)

CO₂ module specifications

Parameter		Measurement range and accuracy	
Measurement pattern	Mainstream	Measuring range	Accuracy (%ABS)
Module start time	<10 sec	0 - 40 mmHg	±2 mmHg
Delay time	<1 sec	41 - 76 mmHg	± 5% reading
		77 - 99 mmHg	± 10% reading

Alarm limit setting

EtCO ₂	High limit of alarm: 1 - 114 mmHg (0.1 - 15%)
FiCO ₂	Low limit of alarm: OFF - 112 mmHg (OFF - 14.8%) High limit of alarm: 1 - 114 mmHg (0.1 - 15%)

Anesthesia module specification

Parameter	
Measurement pattern	Mainstream
Gas classification	CO ₂ and N ₂ O One of the five anesthetic gases: ISO, ENF, SEV, HAL, and DES
Module start time	<10 sec
Rise time	<1 sec



Measurement range and accuracy (accuracy in a single gas standard mode)

Gas type	Measuring range	Accuracy (%ABS)
CO2	0 - 15%	± (0.2% volume percentage + 2% of the reading)
N2O	0 - 100 %	± (Volume% of 2% + 2% of the reading)
DES	0 - 22%	± (0.15% volume percentage + 5% of the reading)
ISO, HAL, ENF	0 - 8%	± (0.15% volume percentage + 5% of the reading)
Sev	0 - 10%	± (0.15% volume percentage + 5% of the reading)

Measurement range and accuracy (accuracy, including laughing gas, oxygen, isoflurane, enflurane, sevoflurane, ethanol, isopropanol, acetone, methane, helium)

Gas type	Measuring range	Accuracy (%ABS)
CO2	0 - 15%	± (0.3% volume percentage + 4% of the readings)
N2O	0 - 100 %	± (Volume% of 2% + 5% of the reading)
DES	0 - 22%	± (0.2% volume percentage + 10% of the reading)
ISO, HAL, ENF	0 - 8%	± (0.2% volume percentage + 10% of the reading)
Sev	0 - 10%	± (0.2% volume percentage + 10% of the reading)

Anesthesia module specification

ETCO2	High limit of alarm: 1 - 114 mmHg /0.1 - 15% Low limit of alarm: OFF - 112 mmHg /OFF - 14.8%
FiCO2	High limit of alarm: 1 - 114 mmHg /0.1 - 15%
EtN2O	High limit of alarm: 2 - 100% Low limit of alarm: 0 - 98%
FiN2O	High limit of alarm: 2 - 100% Low limit of alarm: 0 - 98%
EtENF	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
FiENF	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
EtISO	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
FiISO	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
EtSEV	High limit of alarm: 0.2 - 10% Low limit of alarm: 0 - 9.8%
FiSEV	High limit of alarm: 0.2 - 10% Low limit of alarm: 0 - 9.8%
EtHAL	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
FiHAL	High limit of alarm: 0.2 - 8% Low limit of alarm: 0 - 7.8%
EtDES	High limit of alarm: 0.2 - 22% Low limit of alarm: 0 - 21.8%
FiDES	High limit of alarm: 0.2 - 22% Low limit of alarm: 0 - 21.8%



Optional Gas Monitoring Module



Integrated Breathing System



Precise Anesthesia Vaporizer



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