



Anesthesia Work Station

Cflow-9

- Three Gas Anaesthesia Machine with provision for O₂, N₂O & Air
- Main Driving gas can be air, hence reduce running cost of oxygen
- Smart Gas Shift Technology: In case main Air gas fails, auto shift to secondary gas O₂
- Five Tube flow meter assembly with Anti Hypoxia Guard with N₂O shut off in case O₂ fail
- Advance ventilator with full range of modes VCV, PCV, SIMV, PSV, Manual, Standby
- 9 Inch Color Touch screen for display waveforms (PT, FT, VT) & Loops (PV, FV)
- Advanced proportional valve technology with tidal Volume compensation & precise flow
- Control to ensure accurate ventilation delivery from 20ml-2000ml
- Lithium Ion Battery backup 3 hours
- Electronic PEEP & Fio₂ Monitoring
- Switchable Auxiliary Common gas outlet (ACGO)
- Emergency oxygen flush flow between 35 to 70 LMP
- Twin Selectatec type vaporizers manifold with interlock system
- Inbuilt Pin Index Yokes for O₂ & N₂O
- Inbuilt Dual Drawers with big storage space
- Integrated circle observer (1.5 L) with APL Valve and manual/Vent switch

Technical Specifications

VENTILATOR PARAMETERS

Driven mode: Pneumatically driven electronically control
Touch Screen + Rotary knob + Key pad for simple operation
Patient Type: Adult & Paediatric
Tidal Volume (VT): 20ml~1500ml
Display Size: 9 Inch colour Touch screen
Ventilation mode: VCV, PCV, SIMV-V, SIMV-P, PSV
STANDBY, Manual/Spontaneous, ACGO
Pressure Control: 5~100cmH₂O
Pressure support: 5~60cmH₂O
Electronic PEEP: OFF, 3~40 cmH₂O
Trigger: Flow and Pressure trigger
Frequency (f): 0~100 bpm, Frequency SIMV: 4~60 bpm
I: E ratio: 10:1~1:10
Inspiratory time: 0.5~ 5S, Inspiratory pause: 0~50%
Case START/STOP key with timer

MONITORED PARAMETERS

Parameters: P_{peak}, P_{mean}, PEEP, P_{plat}, MV, MV_{spont}, MV_{cont}, TV_i, TV_e, Freq, Freq_{spont}, Freq_{cont}, Fio₂, Peak Flow, Ti, Te, I:E, Resistance & Compliance, Gas Pressure, Etco₂ (optional)
Waveforms: P-T, F-T, V-T & CO₂-T (Optional)
Loops: P-V, F-V
Alarm Recall & Review

ALARMS

3 levels audio visible alarm
Volume: V_te high/ low, MV high/low
Pressure: P_{peak} high/low, PEEP high/low, Gas Pressure fail
Frequency high/low, Fio₂ high/low, Apnea time, alarm mute,
Power: AC Power fail, Low Battery

VAPORIZER

Dual Position Mounting: Tool-free installation
Selectatec compatible with interlock.
Agent type: Halothane, Isoflurane, Sevoflurane,
Filling type: Pour-fill, Easy-fill and Quick-fill.

PNEUMATIC SPECIFICATION

Operational Modes: Closed & Semi Closed circuit system
O₂/N₂O/Air Pipeline Gas Supply: 0.23Mpa~0.6MPa
O₂, N₂O Cylinder Gas Supply: Pin indexed yokes
Pressure gauge: 3 nos. for pipeline, 2 nos. for cylinder
Flow Meter: Cascade Flow Meter for O₂, N₂O & Single for Air
Oxygen: Low Flow - 0.1~1.0 lpm & High Flow - 1~10 lpm
N₂O: Low Flow - 0.1~1.0 lpm & High Flow - 1~10 lpm
Air: 0~10 lpm
Hypoxic guard system: Mechanical type provides minimum 25% concentration of O₂ in O₂/N₂O mixture.
Method: Proportionate reduce N₂O with reduction in O₂ flow
O₂ gas supply failure alarm: O₂ pressure ≤ 0.23MPa
N₂O cut off: N₂O cut off with O₂ gas supply pressure fail
O₂ flush: 35~75L/min
Switchable ACGO: ISO 22 mm OD and 15 mm ID
CO₂ absorbent: Quick release type with volume 1.5L.
Highly integrated design reduces leaks and misconnects
Bag/Vent switch: switch for manual and mechanical ventilation.
Integrated Adjustable Pressure Limiting (APL) valve: ≤ 6KPa

GENERAL

Dimension: 1400 X 800 X 650 mm (HXWXD)
Drawer Size Internal: 400 X 410 X 170 mm (LXWXD)
Casters: 4 inch diameter, with Front Locking brakes at front
DIN rail at both side of machine allow for flexibility and ease of mounting patient monitor
Power Supply: AC100~240±10%, 50/60 Hz, 1A, 100VA
Battery: 9.6V /3.2AH Lithium Ion Phosphate backup > 3 hours
Communication: USB & VGA
Weight: 90Kg

SAFETY STANDARD

Basic: In accordance with IEC 60601-1, 2 & EMC 60601-2
Unit Type: Class, Type B, IPX0
Working Environment: Temperature: 10-40 C,
RH: 10-90% non condensing

Cardiolabs
technology matters...

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General Medical Instruments

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