

CFlow-10C/9C

Anesthesia Work Station

Cardiolabs
technology matters...

The next generation of
intelligent Anesthesia Work Station





All the features and options you need to
configure a system to your exact requirements

- ◆ 1 TFT colour touchscreen
- ◆ 2 Seven ventilation modes
- ◆ 3 Optional CO₂ and SpO₂ monitoring
- ◆ 4 Selectatec bar for two vaporizer
- ◆ 5 O₂ flush: 35~75L/min
- ◆ 6 Large capacity drawer units
- ◆ 7 Locking brakes at front casters
- ◆ 8 Switchable front facing common gas outlet for open circuit operation
- ◆ 9 Integrated CO₂ absorber and bellows unit with ventilator interface
- ◆ 10 DIN rail for additional accessory mounting
- ◆ 11 Five or Four tube flow meter with Backlight
- ◆ 12 Two electrical outlets

The Cflow-10C/9C Advance is a high specification anesthesia machine providing the ideal solution for today's busy operating room

Clinician-focused choices and benefits, including intuitive TFT touchscreen with seven ventilation modes and optional CO₂* and SpO₂* monitoring



Ventilator Control and Visualisation

TFT colour touchscreen ventilator display with navigator wheel and audio/visual indicators.



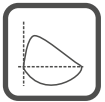
Enhanced Patient Safety

Accurate mechanical anti-hypoxic device and automatic drive gas switching function.



Waveforms

Choice of up to 3 waveform display.



Respiratory Loops

Choice of up to 2 loops display.



Patient Profiles

Suitable for adult and paediatric profiles.



Additional Monitoring*

Sidestream CO₂ and SpO₂ monitoring.



Alarms

Audible and visual alarms with colour coding to highlight importance.



Electrical Power

Two electrical power outlets to meet your requirements.



Battery BackUp

Provides power to the machine for up to 4 hours, in the event of an AC mains power failure.



Gas Supply Options

Two cylinder yokes (O₂ and N₂O) and three central pipeline connections (O₂, N₂O and Air). O₂/Air ventilator drive gas options.



Auxiliary Common Gas Outlet (ACGO)

Control switch and front outlet for connecting an open breathing circuit.



Screen Lock

Keypad/Touch Screen Lock facility for protection against accidental/unintentional changes



Maintenance and After-Sales Support

Comprehensive warranty provides peace of mind and after-sales support. Additional services and warranties can be purchased to meet your particular needs.



Standards Compliant

Fully compliant to ISO 80601-2-13, ISO 80601-2-55, EMC 60601-2 and IEC 60601-1.

1 Ventilation Modes

Seven ventilation modes are available as standard (VCV, PCV, SIMV-VC, SIMV-PC, PSV/CPAP, ACGO, Manual) with PEEP available in all ventilation modes.

2 Co₂ Absorber

A high performance absorber with a ventilator interface as standard that provides ventilator mode switching, triggered by the bag/ventilator control.

5 Smart Gas Shift Technology

In case main air gas fail, auto shift to secondary gas O₂. Main driving gas can be air, hence reduce running cost of oxygen.

3 Anaesthesia Vaporizers

The award winning Vap-7 and vaporizers offer multiple agent and system to suit all clinical requirements.

4 Fully integrated Optional accessories*

For the complete solution simple intuitive user interface for SPO₂ & ETCO₂ sensor

6 Twin selectatec bar

Twin Selectatec type vaporizers manifold with interlock system. Tool-free installation selectatec compatible with interlock.

Technical Specification

Model	Cflow-10C	Cflow-9C
Display (Color Touchscreen)	10.1 Inch	9 Inch
Patient Type	Adult & Paediatric	
Ventilation mode	VCV, PCV, SIMV-V, SIMV-P, PSV/CPAP, Manual, ACGO	
Tidal Volume (VT)	20ml~1500ml	
Frequency (f) Frequency SIMV	1~150 bpm 2~150 bpm	
Electronic PEEP	OFF, 3~20 cmH2O	
I: E ratio	9.9:1~1:9.9	
Pressure control	2~60cmH2O	
Pressure support	0-60cmH2O	
Trigger	Flow and Pressure trigger	
Inspiratory time	0.1~ 12S, Inspiratory pause: 0~50%	
Rotary Knob with key pad for simple operation		
Case START/STOP key with timer		

Monitoring Parameters

Model	Cflow-10C	Cflow-9C
Trend		Numeric, Graphic
Waveforms	P-T, F-T, V-T & CO2-T (Optional)	
Loops	P-V, F-V	
Parameters	Parameters: Ppeak, Pmean, PEEP, Pplatu, MV, MV_spont, MV_cont, TVi, Tve, Freq, Freq_spont, Freq_cont, Fio2, Peak Flow, Ti, Te, I:E, Resistance & Compliance, Gas Pressure, EtcO2 (optional)	
Alarm Recall & Review		

General Specification

Dimension / Weight	1400 X 800 X 650 mm (HXWXD) / 100 Kg
Drawer Size Internal	400 X 410 X 170 mm (LXWXD)
Power Supply	AC 100~240±10%, 50/60 Hz, 1A, 100VA
Internal Battery Backup	4hrs

Varients	Ⓞ CAMCF10C-3G Cflow-10C/3G	Ⓞ CAMCF09C-3G Cflow-09C/3G	Ⓞ CAMCF09C-2G Cflow-09C/2G
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Pneumatic Specification

Model	Cflow-10C	Cflow-9C
Pipeline Supply(0.23~0.6 Mpa)	O2, N2O, Air	O2, N2O, Air*
Cylinder Gas Supply	O2, N2O (Pin indexed yokes)	
Operational Modes	Closed & Semi Closed circuit system	
Flow Meter	Cascade Flow Meter for O2, N2O	
Oxygen & N2O	Low Flow - 0.1~1.0 lpm High Flow - 1~10 lpm	
Air	0~10 lpm	0~10 lpm*
Pressure Gauge	2 nos. for pipeline, 2 nos. for cylinder 1 nos. for airway pressure	
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	35~75 L/min	
Switchable ACGO	ISO 22 mm OD and 15 mm ID	
Co2 absorbent	Quick release type with volume 1.5L	
Bag/Vent switch	Switch for manual and mechanical ventilation.	
Integrated APL valve	≤ 7.5KPa	

Alarms

Volume	Vte high/ low, MV high/low
Pressure	Ppeak high/low, PEEP high/low, Gas Pressure fail, Frequency high/low, Fio2 high/low, Apnea time, alarm mute
Power	AC Power fail, Battery low/disconnect, 3 levels audio visible alarm

Safety Standards

Basic	In accordance with IEC 60601-1, EMC 60601-2, 80601-2-13
Unit Type	Class, Type B, IPX0
Working Environment	Temperature: 10° - 40° C
Humidity	15%-95% non condensing