

# CFlow-IOC/9C

Anesthesia Work Station

**Cardiolabs**  
*technology matters...*

The next generation of  
intelligent Anesthesia Work Station



Anesthesia & critical care equipment - Made in India

All-round Safety.



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 CO<sub>2</sub> and SpO<sub>2</sub> monitoring
- 4 Selectatec bar for two vaporizer
- 5 O<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub>\* and SpO<sub>2</sub>\* 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 CO<sub>2</sub> and SpO<sub>2</sub> 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 (O<sub>2</sub> and N<sub>2</sub>O) and three central pipeline connections (O<sub>2</sub>, N<sub>2</sub>O and Air). O<sub>2</sub>/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 O<sub>2</sub>. 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 SPO<sub>2</sub> & ETCO<sub>2</sub> 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 (HXWDX) / 100 Kg
Drawer Size Internal	400 X 410 X 170 mm (LXWDX)
Power Supply	AC 100~240±10%, 50/60 Hz, 1A, 100VA
Internal Battery Backup	4hrs

## 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 value	≤ 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

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