



digiCARB-4

DIGITAL CARBON DIOXIDE INSUFFLATOR FOR LAPAROSCOPY



Salient Features

- ✎ High Gas flow rate with precise electronic regulation.
- ✎ “Soft Flow-in” and “Soft Flow-out” Control prevents excess intra-abdominal pressure.
- ✎ Display for Gas Consumption.
- ✎ Separate Digital Displays for Real-time values and Set values of Pressure and Flow Rate.
- ✎ Flow Rate adjustable from 1 to 20 (digiCARB4D-20) 1 to 30 ltrs/min. (digiCARB4D-30).
- ✎ Pressure adj. from 1 to 30 mmHg.
- ✎ HIGH mode if selected calculates the required Flow Rate and adjusts accordingly. This helps in filling the cavity quickly particularly after suction.
- ✎ Empty Cylinder Indication.
- ✎ Accidental Open Outlet indication.
- ✎ Easy to operate.
- ✎ Compact & Light Weight.
- ✎ Optional External Gas Warmer available.
- ✎ Portable, can be carried easily.
- ✎ Advanced High Speed Microprocessor Circuitry allows superior accuracy and performance in delivery and measurement of Carbon Dioxide gas.
- ✎ The unique control algorithm stabilizes the pneumoperitonium even at a high leakage rate.
- ✎ Assures rapid delivery of gas and provide immediate response for all procedures, especially when suction occurs.
- ✎ Inexpensive Temperature Controlled Gas Warmer (optional) reduces chill effect of high flow insufflation and lessens telescope fogging.
- ✎ Conforming to IEC60601-1-1 & IEC60601-1-2
- ✎ Double Safety for Patient : Hardware and Software Controlled to avoid over pressure above 30mmHg.

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Technical Specifications

Control Unit	Based on Ultra High Speed Micro Processor
Supply Voltage	91-256V AC @ 50-60 Hz
Power	24 Watts (max)
Power entry	Panel mounting IEC C14 inlet for three wire detachable cable.
Fuse	750mA, 5X20mm, Fast Blow
EN60601-1 Class	I
EN60601-1 Type	No Applied Parts
Input Gas	Carbon Dioxide (Medical Grade)
Input Pressure min.	1.5 kG/cm ²
Input Pressure max.	2.0 kG/cm ²
Output Pressure setting	4 to 30 mmHg
Output Cut-off pressure	45mmHg
Output Connection	Tube fitting for 4.5~5mm ID Tube
Flow Rate Setting	digjCARB 4.2 : 1 to 20 Ltrs/min digjCARB 4.3 : 1 to 30 ltr/min
Dimensions	290 mm W X 127 mm H X 292 mm D
Weight	4.4 kG
Display Type	Seven segment bright LED, Bar graph for pressure & flow
Key Board	Feather touch, sealed
Audio indication	Provided for Key entry & Fault
Operating temperature	15° - 35° C
Degree of protection	IP20
Requirement of Gas bottle / gas cylinder	Should accept standard type Carbon Dioxide pressure regulator

Packing details:

Control unit

Dimensions: 35X34X20cms.

Gross wt.: 4.9kg

Net wt.: 4.4kg.

Pressure Regulator

Dimensions: 18X16.5X14 CM

Gross wt.: 1.2kg

Net wt.: 1kg.

Manufactured by :



Apex MediTech

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Quality approved to :

ISO 13485:2016

ISO 9001:2015

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Specifications are subject to change without prior notice

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