

# CALMED CT 1400

**AUTOMATED CO<sub>2</sub> INFLATION SYSTEM  
FOR CT-COLONOGRAPHY / VIRTUAL COLONOSCOPY**



## CALMED CT 1400 FOR CT-COLONOGRAPHY

CT Colonography has quickly emerged to be the method of choice for revealing colorectal cancer. The key to a successful examination and diagnosis is proper insufflation of the colon with carbon dioxide in order to facilitate high comfort for the examined patient.

The Calmed CT 1400 insufflator takes the advantage of a constant pressure technology practically eliminating the risk for penetration of the colon.

Additionally the Calmed CT 1400 insufflator has been designed for continuous operation during the whole cycle of the examination process to prevent any collapse of the colon. So it fulfills all applicable requirements for CT Colonography with carbon dioxide.



The front of the unit hosts the control panel with the main ON/OFF switch and touch buttons enabling gas flow control. The initial setup of the gas flow will be automatically maintained during the examination process. The control panel also continuously displays the total gas usage. The control unit can easily be removed to enable service operations and maintenance.

### KEY FEATURES:

**Automatic control of gas pressure and gas flow during the examination process.**

**Optical and acoustic alarm at deviations from normal operation standards.**

**Easy to operate – a minimal setup of user friendly button aided controls.**

**Safe to operate thanks to armed and secured high pressure hose and ground connection.**

**3 years guarantee.**

The Calmed CT 1400 insufflator is supplied with either a large or a small carriage wagon depending on demand or space. An armed and secured high pressure hose between the gas tube and the control unit fulfils all safety requirements. The frame of the carriage wagon is connected to earth for operators safety. All four wheels are lockable. There are collection bag hangers on both sides of the carriage to allow optimal placement on either side of the main CT scanner.



The large carriage wagon has a functional design and is kept clean with ease. The top of the carriage wagon is designed to perform as a working area. Additional tube sets are easily stored in the integrated carriage locker.



The carriage can accommodate CO<sub>2</sub> gas cylinders of various sizes which are secured to ensure safety. A power cord is adjustable up to a length of 5 metres.



The small carriage wagon is specially designed for areas where space is a premium. Despite its size all the necessary safety requirements remain as do the collection bag hangers on both sides. The carriage can securely accommodate a 2.5 litre CO<sub>2</sub> gas cylinder and has a 2 metres power cord.

## A UNIVERSAL TUBE SET

The Calmed tube set, made of phalate-free PVC, leads the CO<sub>2</sub> gas from the insufflator to the patient. The total length of the set is 3.8 metres enabling a flexible placement of the insufflator in the examination room. There is a 240 ml collection bag for body fluids and a hydrofilter of 0.1 micron to protect the insufflator from contamination. The tube set is provided with a unique all purpose 9 mm catheter with a silicone balloon. The balloon is filled with air by a disposable syringe. The volume of air is chosen to fix the catheter and according to patient comfort but the balloon can be filled up to 90 ml which gives a diameter of around 50 mm.



The tube set is connected to the Calmed CT 1400 insufflator through a luer connector.

### TECHNICAL DATA

Gas:	Medical carbon dioxide
Maximum gas flow:	3 or 5 l/min
Pressure setting range:	5 – 25 mm Hg
Electric connection:	100 ... 230 Volt, 50/60 Hz
Measures (W x D x H),	
large carriage wagon:	58 x 48 x 103 cm
small carriage wagon:	40 x 40 x 82 cm
Weight (excl.CO <sub>2</sub> gas cylinders),	
large carriage wagon	43 kgs
small carriage wagon	17 kgs

**CE 0402**

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