

VMX-1020A

Automatic CO₂ insufflator

CT COLONOGRAPHY

OPTICAL COLONOSCOPY

INTUSSUSCEPTION

VIRTUAL ENTEROSCOPY

“superior patient comfort”

“superior safety”

“optimal distension without the need for antispasmodic medicine”

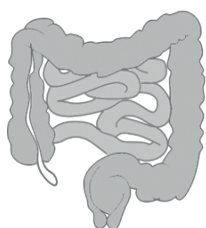


VMX-1020A FEATURES

First CO₂ "multi-procedures" insufflator



CT Colonography



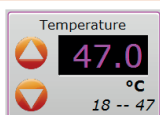
Virtual Enteroscopy



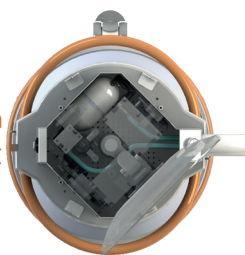
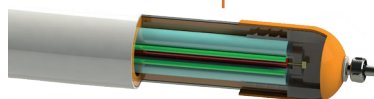
Optical Colonoscopy



Intussusception Reduction

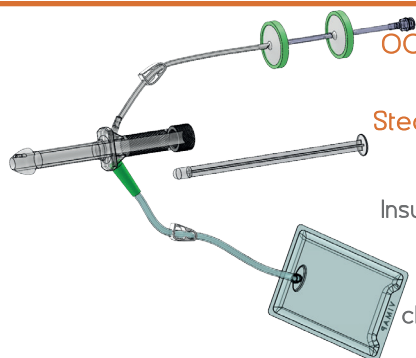


Adjustable heating system
42.5°C-48.5°C



PATENTED

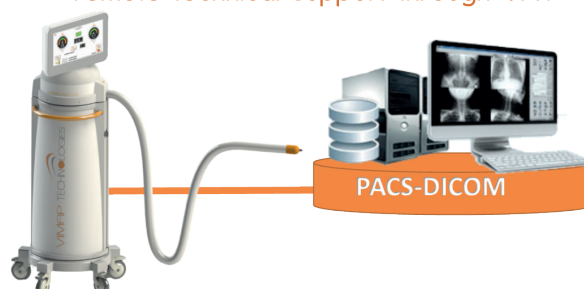
CO₂ cylinders or central supply source



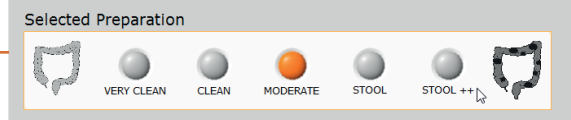
OC mode : First insufflator in the world with
Steady Pressure Colonoscopy
insufflation

Insufflation through free working
channel diameter > 2.5mm
or VIMAP Technologies
channel over the scope single
use set

First insufflator in the world with PACS interface
remote technical support through VPN



CTC mode: "Unblock" Key and Colon preparation adaptation



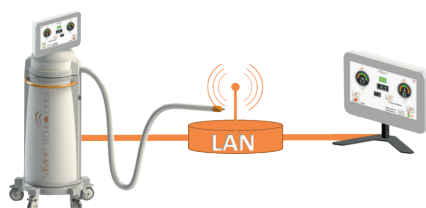
PATENT PENDING

CTC and Intussusception set
with effluents removal



PATENTED

Optional remote touch panel
remote control



Admin kit for combined examination
for Small Intestine and Colon



PATENTED

VMX-1020A

INNOVATIVE TECHNOLOGY

30 INNOVATIONS AND 5 PATENTS IN 10 YEARS

VMX-1000A (year 2006)

The electronic release of over pressure.
The display of the actual flow.
The high pressure mode for difficult cases.
35 mmHg mode vs 25 mmHg.
Max flow adjustable from 1l/min to 4l/min.
A soft catheter, a long catheters, 50cc balloon vs 25cc.
The possibility to adjust the maximum flow rate for specific cases.



VMX-1000A year 2006

VMX-1010A (year 2009)

A special external release mechanism to prevent contamination.
The warming of CO₂ prior to insufflation.
An intuitive LCD screen.
An easy to use control for intuitive setup.
Double pressure sensor for added safety.
History of last 10 insufflations in memory.
Progressive flow to have a constant distension of colon and minimize spasms.
Automatic calibration of the machine at each start-up.
Indicator that shows when patient is fully insufflated.



VMX-1010A year 2009

VMX-1020A (year 2015)

Patented new heating system with constant temperature. at the patient and adjustable 42.5°C–48.5°C.
Multi-purpose insufflator capable of 4 procedures.
LAN (network) integrated insufflator.
Steady pressure colonoscopy insufflation.
Touch panel for remote control through Lan or Bluetooth.
VPN Remote access for support, updates, preventive support.
Faecal Tagging assist feature.
Custom interface and graphical interface.
Automatic decrease of the amount of liters when the machine releases the over pressure.
Integrated barcode checking of the administration set status.
PACS interface.
The history all insufflations in memory.
Insufflation of small intestine and colon (introduced in 2011 on VMX-1010A).
User defined protocols.



VMX-1020A year 2015

Vimap Technologies features always years ahead...

UNMATCHED SAFETY FEATURES

- ✓ Multiple mechanical safety valves limiting at 3,5 bar and 2,5 bars entrance pressure in the insufflator
- ✓ Multiple mechanical safety valve releasing pressure at 150 mmHg and 65 mmHg operating without power.
- ✓ Multiple safety electrovalve, one for virtual colonoscopy and one for optical colonoscopy and intussusception
- ✓ Special feature that assures a constant pressure and constant temperature of the CO₂
- ✓ The system offers fast, instantaneous and progressive release of over pressure through a proportional electronic valve and a second high release valve for high overpressure (contractions or change of position of the patient).
- ✓ Administration sets with 2 hydrophobic, anti-bacterial and anti-virus properties to protect the machine even in case overflowing of effluents reaching the first filter.
- ✓ Permanent automatic monitoring of the machine and of the calibration and warning messages sent to service support in case of deviation of a calibration or of a component performance: Machine will be have a preventive intervention before being out of order.
- ✓ For added safety, the VMX-1020A has a built in multiple pressure sensors with constant electronic monitoring.
- ✓ The VMX-1020A maintains history of all insufflations in memory.

TECHNICAL SPECIFICATIONS

Pneumatics:	<p>CO₂ gas supply system: (US 7/16" connector).</p> <p>Maximum permitted pressure in the colon by mechanical valve: 65mmHg to 120 mmHg according to the operating mode selected + 2 independant over pressure release valves electronically controlled.</p> <p>Maximum flow without loss of head (to the nearest decilitre): 4L/min to 10L/min according to the operating mode.</p> <p>Pressure release: 0 to 120 mmHg to an accuracy of 1 mmHg according to operating mode selected.</p>
Interface:	<p>Touch panel monitor 15-inch LCD with 5 wire resistive touch pannel usable with medical gloves.</p> <p>Screen showing: immediate flow, intra-cavity pressure, blow-off pressure, temperature of the CO₂, total volume of CO₂ used and low levels in the cylinder, operating mode, user protocole.</p>
Power supplies:	<p>Types of power supply: 100-240 V AC 50-60 Hz.</p> <p>Protection by fuses: 6.3 A – 250V time-lag fuses - UR.</p> <p>Power used: 300 VA.</p>
Mechanics:	<p>Dimensions including cart, capsule 15" LCD monitor: L=49cm, D=55cm, H=164cm.</p> <p>Total weight including cart and panel PC: 65 kg.</p>
Operating, transportation, Storage:	<p>Transport and storage relative humidity range: 20% to 85%.</p> <p>Operating temperature range: +10°C / +40°C.</p> <p>Operating relative humidity range: 30 to 75 %.</p> <p>Transport and storage temperature range: +5°C / +50°C.</p> <p>Operating, transport and storage atmospheric pressure range: 700hPa to 1060hPa.</p>
Standards:	<p>Electrical protection: class 1 type BF.</p> <p>Conforms to European directive 93/42/CEE on medical devices: class IIa.</p> <p>Conforms to standard IEC 60 601-1.</p> <p>Not protected against water (IPX0).</p> <p>Not adapted for use in the presence of a flammable anaesthetic mixture with air, oxygen or nitrous oxide.</p>
Ocillary equipment:	<p>Main power cable.</p>

ORDERING INFORMATION

Insufflator references:	
VMX-1020A alone. Not included: cart, high pressure flexible hose, power supply cable:	VMX-1020A
Cart for VMX-1020A:	CAR-XXXXD
High pressure tube type C (DIN 477-1 N°6 21.8x1/4"):	REGH-KIT001
High pressure tube CGA940 (PIN Index):	REGH-KIT002
High pressure tube W27x2 - ISO5145:	REGH-KIT003
Remote touch panel 15" LCD monitor usable with medical gloves to control remotely the VMX-1020A:	REM-XXXXA
Pedal with single foot switch:	FSW-1P-A
Pedal with tripple foot switch:	FSW-3P-A
Administration sets references for VMX-1020A:	
Box of 24 administration sets for virtual colonoscopy, patented system with 3 way catheters system for removing of effluents during insufflation:	AS-3W-H-R35A/24
Box of 24 administration sets for intussusception reduction, patented system with 3 way catheters system for removing of effluents during insufflation:	AS-3W-H-R35B/24
Box of 24 administration sets for virtual enteroscopy:	AS-SI-H-R35A/24
PACS interface module for VMX-1020A:	
PACS interface software module sending insufflation datas to PACS:	PACS-1020A

Vimap Technologies

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