



M-Flow 20-H

CO₂-INSUFFLATOR
 Made in Germany



M-Flow 20

M-Flow 43	M-Flow 43-H
M-Flow 30	M-Flow 30-H
M-Flow 20	M-Flow 20-H
M-Flow 15	M-Flow 15-H

optional:
 video data display

M-Flow 43 / 30 / 20 / 15 M-Flow 43-H / 30-H / 20-H / 15-H

The **MF-series** is a complete new designed line of CO₂ insufflators with outstanding technical features. The units are controlled by microprocessors of the latest generation.

Stable pressure balance in the abdomen is guaranteed by high gas flow performance and low insufflation pressure.

MF-series meets all your needs in minimal invasive surgery. Its unique feature is a **15, 20, 30 or 43 liter per minute gas insufflation** that delivers **maximum performance and highest level of patient safety**.

ADVANCE CONTINUOUS FLOW

The MF-series stands for ACF (advanced continuous flow insufflation) that means no more disruptions between gasflow and pressure reading phases. No more guessing - indicated gasflow is the actual gasflow.

SOFTWARE

Software controlled pressure release mechanism prevents dangerous pressure build up in the abdomen when using such apparatus as laser or argon beamers.

SAFETY

Automatic self check, activated each time unit is switched on, makes sure all electronic and pneumatic components are in good running order. This safety feature carries a guarantee for the lifetime of the unit. The changeable sterile filter prevents reflux of liquids and contamination of the gas way.

SYSTEM GAS HEATER

For reduction of post surgery problems the MF-series is available with a high efficient gas heater. The gas heater is preadjusted and works on a plug and play base full automatically. The heat exchanger can be autoclaved with the tube set.

VIDEO OSDD (optional)

The OSDD (On-Screen-Data-Display) gives the surgent the possibility to display the important values on the video monitor of the endoscopic camera.

FLEXIBLE GAS SUPPLY

The MF-series can be used with gas bottles or central gas supply systems. The gas supply mode can be changed very easily by integrated software.

MODELS

max. gasflow

15 l/min	20 l/min	30 l/min	43 l/min
M-Flow 15	M-Flow 20	M-Flow 30	M-Flow 43

with gas heater

M-Flow 15-H	M-Flow 20-H	M-Flow 30-H	M-Flow 43-H
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OPTION

-V with OSDD - Video On-Screen-Data-Display

TECHNICAL DATA

Insufflation pressure	0 - 30 mmHg
Power supply	100 - 240 VAC, 50 - 60 Hz, 65 W
Dimensions (WxHxD)	355 x 103 x 253 mm
Weight	7 kg
Gas	carbon dioxide (medical)
Gas connection	UNF 7/16"
Video connection:	Input: 1 x FBAS (BNC) 1 x Y/C
(only -V versions)	Output: 1 x FBAS (BNC) 1 x Y/C
Class / Type	2b / BF
Manufactured and tested acc.	IEC 601-1 / CE ₀₁₂₄ EN 60601-1 93/42 ECC

Delivery contains

Insufflator
Mains cable
CO₂ high pressure tube UNF to German gas connection
Wrench set: SW15 / SW30
Sterile filter
Standard silicone tube set (not -H versions)
System gas heater with tube set (only -H versions)
Video cable (only -V versions)
User manual