

MEDAP 



Efficient, innovative and safe!

# ATMOS Medical Suction Systems



Made in Black Forest  
by ATMOS

# ATMOS Medical Suction Systems



Welcome to the Black Forest, the renowned centre for precision engineering and mechatronics, also known as the "Silicon Valley" of German medical technology.

With more than 100 years of experience in the field of medical suction, we know that medical professionals constantly rely on our products in difficult conditions and in critical situations. We therefore improve them continuously.

Development represents progress. Since developing the world's first digital cardiothoracic drainage system, we have been an important and significant part of this progress.

We have made it our mission to make technically complex devices simple to use. As a technology leader, we have consistently served clients with new generations of high-performance and economical suction solutions. An investment in the future:

„Ready for Healthcare 4.0“

Frank Greiser | CEO

## Electrical Suction

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# Surgical Suction

Long operations that produce large volumes of fluids require a system that performs suction as quickly and quietly as possible. A perfect surgical suction device must also be robust and durable, especially under extreme conditions.

High suction capacity for a clear surgical field

Low noise level

Maximum reliability in all situations



- Surgical Suction ●
- Vacuum Extraction ●
- Bronchial Suction ●
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation ●
- Suction ●
- Oxygen Supply ●
- Mobile Oxygen Supply ●

**MEDAP TWISTA SP 1070**



Modular overflow protection and two equipment rails for fixation of up to four secretion canisters.

**ATMOS Record 55**



Optionally with two DDS canisters and integrated change-over lever or with disposable suction systems.

**ATMOS S 351 OT**



Microprocessor controlled with automatic vacuum control, standby automatic, filling level control with automatic switching off, suction adherence detection and automatic intermittent mode.

# Surgical Suction

A universal suction device depends on a high degree of flexibility. In addition to the varied requirements in the operating theater a universal suction device is also suitable for use on peripheral wards and in private practices. Everything is possible: placement on a trolley, the platform of a ceiling supply unit, a shelf or on equipment rail.

**Mobile and versatile**

**Usable anywhere**

**Fast and easy disinfection**



Two sided interfaces for equipment mount, for secretion canisters or modular overflow protection as well as additional bacterial filter at the pump outlet.

**MEDAP BORA UP 2080**



Simple and easy conversion of a mobile system to a tabletop device. Operation is possible via foot controller or foot switch.

**ATMOS C 451**



Simple adaptation of a secretion canister on the device without additional tubing.

**ATMOS C 361**



Surgical Suction

Vacuum Extraction

Bronchial Suction

Disposable Suction System

Cardiothoracic Drainage

Smoke Evacuation

Suction

Oxygen Supply

Mobile Oxygen Supply



# Vacuum Extraction

Obstructed labour, maternal exhaustion or a risk to the health of the child require a vacuum-assisted birth with extraction cup. Simple and safe handling is an absolute must.

Maximum safety for mother and child

Easy handling for less margins of error in usage

Quick operational readiness



Microprocessor controlled vacuum creation with freely preselectable parameters and controlled vacuum extraction for gentle ventilation of the suction cup.

**ATMOS S 351 NATAL**



With variable vacuum regulation, foot controller and trolley.

**ATMOS C 451 VE**



- Surgical Suction ●
- Vacuum Extraction ●**
- Bronchial Suction ●
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation ●
- Suction ●
- Oxygen Supply ●
- Mobile Oxygen Supply ●

# Bronchial Suction

Bronchial suction devices for universal use in hospitals, nursing homes and in the home-care sector must be light and compact. In order to free the airways of viscous secretions and debris, a reliable and powerful electrical suction device is needed. A battery is essential for mobile use, especially in emergency situations.

**Simple, intuitive operation**

**Easy vacuum adjustment**

**Maximum protection against oversuction**

- Surgical Suction ●
- Vacuum Extraction ●
- Bronchial Suction ●**
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation ●
- Suction ●
- Oxygen Supply ●
- Mobile Oxygen Supply ●



Revolutionary vacuum setting with large vacuum gauge for excellent visual control combined with 100% oversuction protection.

**MEDAP VENTA SP 26**



Condensate trap for quick visual inspection of possible oversuction, allowing for cost-effective preparation.

**ATMOS C 161**



Electronically preselectable vacuum levels and high suction capacity for quick and safe suction.

**ATMOS E 341 Battery**



# Disposable Suction System

Medical suction has been the core competency of ATMOS for over 100 years. Whether in hospitals, for rescue services or in the homecare sector, whether electrical suction or suction via a central gas supply: ATMOS always offers a powerful and economical solution. The new ATMOS Disposable Suction System can be combined ideally with all suction devices.

Safe and easy handling

Maximum flexibility

Greater efficiency



- Surgical Suction
- Vacuum Extraction
- Bronchial Suction

## Suction bag



The suction bags are made of soft but extremely durable, highly transparent polyethylene. This allows the bag to be inserted easily into the external canister and offers reliable protection against bursting.

## External canisters



The external canisters are made of highly transparent polycarbonate. The external canisters can be autoclaved at 121 °C.

## Gelling agent



The suction bags are available with or without gelling agent. If desired, the gelling agent can also be poured in after suctioning through the spout on the bag lid.

## Disposable Suction System

- Cardiothoracic Drainage
- Smoke Evacuation
- Suction
- Oxygen Supply
- Mobile Oxygen Supply

# Cardiothoracic Drainage

In thoracic and cardiac surgery as well as in general, intensive and emergency medicine, cardiothoracic drainage systems are intended for the treatment of pneumothorax and pleural effusions amongst others, as well as for use when surgically opening the thorax.

Digital systems offer significant advantages: easy and safe handling, early mobilization of the patient, automatic warning messages and easy readout of therapy data.

Increased safety for patients and personnel

Time saving for nurses

Mobile and flexible

- Surgical Suction
- Vacuum Extraction
- Bronchial Suction
- Disposable Suction System
- Cardiothoracic Drainage
- Smoke Evacuation
- Suction
- Oxygen Supply
- Mobile Oxygen Supply

## ATMOS S 201 Thorax

Particularly powerful pump  
2,000 ml secretion canister  
volume and optional water  
lock for use in the presence  
of strong coagulation and  
large amounts of liquid as  
well as with large air leaks.



## ATMOS C 051 Thorax

Compact, battery-operated  
device with a 800 ml  
secretion canister, a double  
lumen hose system and a  
carrying strap.





# Smoke Evacuation

During cutting and coagulation when using ultrasonic, HF, RF or laser devices, surgical smoke and aerosols are produced because of thermal processes. Toxicological studies have demonstrated the release of a variety of harmful substances (such as viruses, bacteria, mycobacteria).

Modern smoke evacuation devices remove the resulting particles and unpleasant odors and provide a clear view of the surgical field.

High suction capacity for quick evacuation of surgical smoke

Very quiet

Safe removal of particles and odors



Normal and turbo mode, two button control and four-stage high-performance filter with three inputs incl. magnetic flaps.

**MEDAP FUMOVAC 700**



Accessories and consumables for a variety of indications.

**Accessories and consumables**



- Surgical Suction ●
- Vacuum Extraction ●
- Bronchial Suction ●
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation** ●
- Suction ●
- Oxygen Supply ●
- Mobile Oxygen Supply ●

# Suction with CGS

Tapping device for central gas supply systems (CGS) are available for vacuum and compressed air and in different versions for surgical suction, as well as for bronchial suction. The protection of the CGS against oversuction and contamination is particularly important. Tapping devices for compressed air also depend on an effective noise reduction while maintaining high suction capacity.



**Powerful, reliable and durable**

**Best hygiene due to large rounded surfaces**

**Indication-specific versions**

Attractive housing with swivel vacuum gauge in four different versions for surgical suction, bronchial suction, drainage and cardiothoracic drainage.

**MEDAP FINA VAC**



Particularly effective noise reduction with high suction capacity.

**MEDAP FINA AIR**



MR-conditional, with extremely high suction capacity, large vacuum gauge and indication label.

**MEDAP S VAC**



- Surgical Suction ●
- Vacuum Extraction ●
- Bronchial Suction ●
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation ●
- Suction** ●
- Oxygen Supply ●
- Mobile Oxygen Supply ●

# Oxygen Supply

Supplying oxygen depends on precise administration. Special versions for paediatrics and neonatology ensure the required precision even for the smallest amounts. The click-stop disc flowmeters allow a very large number of settings.

**Precise adjustability**

**Excellent reading precision**

**Tailored treatment for all patients**



Attractive housing with adjustable precisely regulation knob.

MR-conditional with particularly easy to read scale.

MR-conditional with 13 settings in normal, paediatric and neonatology versions.

## **MEDAP FINA FLOW**



## **MEDAP S FLOW**



## **MEDAP LS FLOW**



- Surgical Suction ●
- Vacuum Extraction ●
- Bronchial Suction ●
- Disposable Suction System ●
- Cardiothoracic Drainage ●
- Smoke Evacuation ●
- Suction ●
- Oxygen Supply** ●
- Mobile Oxygen Supply ●

# Mobile Oxygen Supply

If oxygen is needed on a ward without an appropriate gas extraction point or a patient requires ventilation during intra-hospital transport, the gas is supplied via gas cylinders. The pressure reducer used must have a high nominal flow and high-pressure stability when decreasing cylinder pressure.

**High nominal flow**

**Highest pressure stability eliminates readjustments**

**Up to 300 bar inlet pressure for additional safety**



Pressure reducer with and without integrated flowmeter, with short and long fittings and with or without additional output.

**Pressure regulator**



Portable compact unit for placement and suspension from an equipment rail or by the bedside for manual short-term ventilation and for short-term suction.

**Emergency oxygen unit**



For use during transport and on the normal ward as well as an emergency supply in case of failure of the central gas supply.

**Oxyrator**



- Surgical Suction ●
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# Quality Work

Made in the Black Forest



## Made in Germany

ATMOS suction devices are a wealth of technical know-how. A task best fitting the perfectionists from the Black Forest.

At ATMOS, we leave nothing to chance. Everything in an ATMOS product is "Made in Germany" - from product design through to development, all the way to manufacturing. Every employee has a wealth of experience in the manufacturing of medical devices, enthusiasm for the product and a distinctive quality awareness.

ATMOS has modern production machinery, specialized assembly space and high-precision measuring devices. Before an ATMOS product leaves the plant, all functions are thoroughly checked before final approval for delivery can be administered.

## ATMOS quality is built on responsibility

The proverbial ATMOS quality is geared to the high demands of our customers. To produce quality, employees must consider quality as a part of their duties and are responsible for their own work, which is always based on the guidelines according to DIN EN ISO 13485. The ATMOS quality management system covers every step from development to service.



# Innovations

Für ein besseres Leben - Intuitiv & Sicher

The more than 300 ATMOS employees are devoted to one goal: extending life and sustainably improving the quality of people's lives. This is our motivation for furthering development and innovation: opening up new channels and possibilities for users of modern medical technology through safe and simple-to-use products.

Through close cooperation with doctors and clinics, we constantly develop highquality practical solutions.

Simple, straightforward, unobtrusive, intuitive, durable, resistant ....

Doctors have a long list of requirements when it comes to their working tools. ATMOS listens to its customers. In 1927 the first medical aspirators from ATMOS entered the market. We have constantly worked to improve and develop them since then.

## ATMOS as a reliable OEM partner

The aim of the OEM partnerships is the development and production of world-class medical devices for corporations or medium sized companies. ATMOS produces for companies such as ERBE and DÜRR DENTAL.



**1888**  
The beginning in a pharmacy in Berlin



**1936**  
First surgical suction device from ATMOS



**1941**  
The company takes the name ATMOS and moves from Berlin to Freiburg in Breisgau in 1942



**1985**  
The first foreign subsidiary, ATMOS France, is founded

**1984**  
ATMOS Medizintechnik GmbH & Co. starts as an independent business



**1993**  
Atmoforte 350 / Record 500 - First microprocessorcontrolled surgical aspirator



**1927**  
The first so-called "suction, pressure and hot-air device" for medical purposes appears



**1995**  
Successful launch of ATMOS LC suction family for the care sector



**1997**  
Atmolit as a new endoscopy suction device



**2009**  
ATMOS E/S 201 Thorax



**2006**  
ATMOS S 041 Wound - wound drainage with gauze



**2003**  
ATMOS S 031 Thorax world's first electronically controlled, mobile thoracic drainage system



**2016**  
Acquisition of MEDAP by MAQUET



**2013**  
ATMOS C 051 Thorax



**2015**  
Launch of the ATMOS emergency suction device



**2020**  
Relaunch ATMOS 351 OT / ATMOS 351 NATAL

**2021**  
Market launch of ATMOS Disposable Suction System

**2021**  
Acquisition of tourniquets from ulrich GmbH & Co. KG



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MEDAP The MEDAP logo consists of the word "MEDAP" in a green, sans-serif font. To the right of the text is a graphic element consisting of four small squares arranged in a 2x2 grid. The top-left square is dark green, the top-right is light green, the bottom-left is orange, and the bottom-right is light blue.