

# Healthcare

Vacuum technology – well conceived in every detail

“What I want ...  
is better quality  
of life for my patients.”



# Editorial



“We know that our products are used under difficult conditions and in delicate situations. Therefore it is natural for us to develop products of the highest quality. The users of our medical suction systems should be able to trust in the technical perfection and absolute safety in handling that is typical for Medela Healthcare.

Our answer to the daily challenges is continual research - the search for deeper knowledge, for even better understanding of relationships and for new systems and therapy methods brings us forward. Medela invests in the development of new medical vacuum systems such as cardio/thoracic drainage systems and in the vacuum-assisted closure therapy. During their development, Medela takes into account the enormous time and cost pressure that doctors and carers have to contend with daily. With the use of our products and the utilisation of our services, it should be possible to pass on efficiency and effectiveness and to benefit from economic advantages. Unquenchable thirst for knowledge and the continuous research for even better solutions as well as the entrepreneurial thinking will continue to characterise Medela.”

A handwritten signature in black ink, appearing to read 'Michael Larsson', written over a light grey rectangular background.

Michael Larsson, President of the Board of Directors

# Medela – “Made in Switzerland”

Advantage through quality

**The manufacture of high quality products is an important principle for Medela. With great professionalism and diligence, all employees are committed daily to the highest quality of the Medela products. The safety of the users and the patients is guaranteed by a vigorous internal control system.**



## **Innovative product development**

Medela continuously sets new standards. The medical suction units and systems from Medela Healthcare distinguish themselves with innovative solutions. The products fulfil the highest quality standards and exceed the current ecological and economic requirements. Safe, hygienic aspiration and environmentally friendly disposal of blood and other body fluids are standard in Medela's product development.

The Medela Healthcare range of products fulfils international industrial standards: ISO 9001 as well as the American Good Manufacturing Practices guidelines (GMP). Our products also carry the CE label in accordance with the directive 93/42/EEC for medical products.

For us, the assurance of a long guarantee is taken for granted.

Confidence and investment in Medela products and systems pay out in the long term.

# Knowledge takes shape

Research as the basis for product development

**Medela Healthcare is specialised in the development and manufacture of high quality, safe medical suction systems. Together with leading university hospitals and world-wide renowned institutes, Medela Healthcare develops new solutions and approaches for therapy.**

Today, we at Medela Healthcare additionally utilise our know-how in the area of vacuum technology to work out progressive solutions that optimise wound treatment and accelerate the mobilisation of patients. Simultaneously, the developments fulfil the requirements of patients and hospitals in that they increase patient comfort and at the same time lower costs. Through the world-wide cooperation with medical experts, universities and research institutes, Medela Healthcare has acquired the necessary competence in medical research in order to develop other innovative technologies that enable medical specialists to treat patients with solutions of the latest generation.

The communication and exchange of knowledge in the area of medical and medical-related professions are also part of our philosophy. In this way Medela Healthcare has developed its expertise in thoracic medicine and wound treatment.



# Overview

Vacuum technology – solutions that convince

Medela suction units are suitable for various application areas. The product range also includes Cardiothoracic Systems and Vacuum Pumps for Negative Pressure Wound Therapy (NPWT). Suction units, collection systems and further accessories from Medela Healthcare are perfectly matched.

✘ = ideal  
● = possible

\* dependent on central vacuum

<sup>1</sup> Only available in selected countries

	Clario	Vario 8 AC/DC / Vario 8 c/i AC/DC	Vario 18 AC/DC	Vario 18 c/i AC/DC	Basic 30	Dominant 35 c/i	Dominant 50	Central Vacuum Regulator	Low Vacuum Regulator	Ejector	Thopaz	Invia Liberty <sup>1</sup>
Suction capacity (l/min)	15	8	18	18	30	35/8	50	44	10	25	5	5
Max. consumption (l/min)												
Max. vacuum (kPa) (mmHg)	-80 -595	-9 -68	-75 -563	-51 -380	-85 -638	-50 -380	-90 -675	-76* -570*	-10* -75*	-56 -420	-10 -75	-27 -200
<b>Medical Suction Systems</b>												
Endoscopy					✘		●	●				
Liposuction							✘					
Obstetrics					✘		●					
Ear, nose and throat	✘		✘		●	●		●		●		
Gastroenterology						✘						
<b>Cardiothoracic Systems</b>												
Thoracic Drainage		✘						●	●		✘	
<b>Negative Pressure Wound Therapy (NPWT)</b>												
Wound therapy				●		●						✘
<b>Application Area</b>												
Patient transfer			✘							●	✘	
Emergency			●		✘		✘	●	✘	✘		
Intensive care unit		●			●	✘	●	✘		✘	✘	
Operating theatre/Surgery					✘	●	✘	✘			✘	
Room/Ward	●	●	✘		●	●		✘	●	●	✘	✘
Practice	●		✘	●	✘	●	●					✘
Dentist					✘		✘					
Nursing home	✘		✘		●						●	✘

# Vario

Mobile and flexible handling

**The Vario guarantees a safe vacuum in flexible use whether ambulant, in emergency admission, the doctor's surgery or in a nursing home. Depending on the application, a high, medium or low vacuum pump can be used. The versions with integrated battery make the Vario independent of the mains supply - thereby making the patient mobile.**

## State-of-the-art technology

- Vacuum production with innovative QuatroFlex™ technology
- Precise vacuum setting by means of the membrane regulator
- High security thanks to the adjustment lock of the regulator knob

## Model variety

- Different vacuum versions (Vario 8 c/i, Vario 18, Vario 18 c/i AC/DC)
- Models with integrated battery
- Model with constant/intermittent function

## Simplest operation

- Small, light weight and handy
- Quiet in operation
- Clearly arranged operating elements



High vacuum



Medium vacuum



Low vacuum

Regulator with adjustment lock

# Basic 30

Versatile and highly efficient

The Basic 30 is used mainly for endoscopic surgery, in the ENT area, on the ward, in the operating theatre as well as in the emergency admission. The unit distinguishes itself with fast vacuum build-up, high suction capacity and compact design.



## The peak of technology

- Piston / cylinder technology ensures rapid vacuum build-up
- Precise vacuum adjustment by means of the membrane vacuum regulator

## Great flexibility

- As a portable model or on a mobile stand
- Ideal size – fits into every endoscopy tower

## Most important advantages

- Very quiet
- Simple cleaning



Versatile,  
high performance

# Dominant 50

Powerful and reliable

**The most powerful Dominant 50 is particularly suitable for use in the operating theatre: for neurosurgery, plastic or general surgery – wherever fast and accurate aspiration is required.**

## Maximum suction power with Dominant 50

- Precise vacuum adjustment by means of membrane vacuum regulator
- Vibration-free and quiet thanks to the piston / cylinder system

## Dominant 35 c/i

- Ideal for constant or intermittent suction
- Particularly suitable for the gastrointestinal area



**Dominant 35 c/i**  
Membrane vacuum regulator with adjustment lock

Operating mode freely selectable



**Dominant 50**  
Powerful surgical aspirator, versatile

# Central vacuum

Advanced and safe in operation

The modern Medela regulators for medical gasses correspond to the new EU regulation concerning the handling of medical gasses. Standardised colour coding, Non-Interchangeable Screw Threaded (NIST) connections as well as country-specific options and plug connections guarantee easy, safe operation.



## Central vacuum regulator 1

- Available as a high or low vacuum version
- With separate cut-off valve
- Rotatable vacuum gauge

## Air/O2 ejector 2

- For compressed air and oxygen
- Quiet operation
- Non-slip hand wheel

## O2 flow meter 3

- For regulation from a central supply
- Supply pressure 5 bar
- Particularly easy to clean

# Collection systems

For maximum safety and simple handling

**The modular container system offers specialists easy handling with the greatest safety. Whether the disposable or the reusable system: all components of the Medela collection systems offer high economic efficiency, simple logistics and low follow-up costs.**

## Well thought-out disposable collection system

- Available in the sizes 1.5 und 2.5 litre
- Easy handling
- High degree of safety for nursing staff and patients
- Highly flexible to fulfil individual requirements

## Versatile reusable system

- Autoclave compatible containers in four sizes (1, 2, 3 and 5 litre)
- One reusable lid for all container sizes



Reusable system



Disposable collection system

# Accessories

Individually furnished

With the comprehensive range of accessories, a tailor-made suction system can be put together for every requirement. In this way, an individual solution can be found for the most diverse application areas.



**Bird suction cups and Silc Cup**  
For vacuum extraction



**Disposable specimen cup**  
For the simple collection of tissue samples



**Rail clamps**  
Safe container fixing on standard rails



**Disposable filter**  
As overflow and odour protection and bacteria filter



**Universal holder**  
For the individual securing of system components to the bed



**Secretion container 0.25/0.5 litre**  
For small suction amounts



**Vacuum gauge**  
Vacuum test for Clario



**Change-over valve with rail clamp**  
Manual change-over for two containers.



**Tubes**  
– Made of silicone or PVC  
– For disposable or reusable applications  
– Various plug-in couplings

Further accessories available on request

“ I am convinced by the innovative system solutions from Medela Healthcare.”



# Clario

Compact and easy to use

With a weight of only 2 kg and the mains-independent operation possibility, the Clario is ready for use everywhere and reliably ensures free air passages. The unique hygiene concept with the float and safety chamber prevents secretions from overflowing. Bacterial contamination of the unit interior is impossible. With only two operating elements, particularly easy handling is guaranteed.



## **Threefold hygiene**

- Float in canister prevents overflowing
- Integrated safety chamber as collection protection for secretions
- No secretions inside the pump thanks to the closed membrane system

## **Greater mobility**

- Operates from the mains supply, battery or car connector
- Handy transport bag for travelling

## **Effortless operation**

- On/Off switch
- Simple suction strength regulation in 3 stages

# Vacuum extraction with Basic 30

Gentle for mother and baby

**The vacuum extraction is smoothly introduced into the delivery process and guarantees the greatest safety. The reliable Medela vacuum extraction system proves itself in such medically demanding situations.**

## **Proven quality**

- Builds up the necessary vacuum in seconds
- Extremely quiet and vibration-free
- Less «Pop offs» due to the vacuum reservoir
- Vacuum regulation with the practical foot-operated vacuum regulator

## **Comprehensive, soft accessories**

- Soft disposable / reusable Silc Cups for vertex presentations
- Bird disposable plastic suction cups
- Large selection of suction cups: soft disposable / reusable Silc Cups, Bird disposable suction cups, stainless steel suction cups and CaesAid suction cups for caesarean applications



Complete system for particularly gentle vacuum extraction

# Santhora™

Makes patients mobile

The thoracic drainage system Santhora, developed together with a renowned thoracic surgeon, guarantees safe mobilisation of patients after surgery. The innovative solution offers comfort for the patient as well as the nursing staff and contributes towards reducing the stay in hospital.



#### **Constant suction with the low vacuum pump Vario**

- Battery operation for unrestricted mobility
- Low noise and vibration
- Precise and safe vacuum regulation

#### **User-friendly disposable canister**

- Easy and quickly in use
- Safe with integrated water seal and safety valve
- Cost-efficient

#### **Flexible mobile stand**

- Supports the patient's freedom of movement
- Infusion stand and multipoint connector for connection of the necessary equipment

# Thopaz™

The smallest digital thoracic drainage system in the world

**Thopaz sets new standards with regard to safety, comfort and efficiency in thoracic drainage therapy. It supports the early mobility of the patient after a lung operation. The digital indication on the display enables surgeons and nursing staff to call up important information about the course of therapy at any time. The integrated electronic measuring system consistently checks the pleural pressure as well as the parenchymal leakage of the patient.**

## Highly efficient, small and clever

- Patient mobility is promoted
- Digital documentation enables objective assessment of the course of therapy
- Patient safety is guaranteed
- Efficiency is scientifically proven



**Accessories**  
Carrying strap  
Docking station

# Invia<sup>®</sup> wound therapy

Helping patients heal more comfortably

The new suction system Invia Liberty\* for Negative Pressure Wound Therapy (NPWT) consists of a vacuum pump as well as different wound dressing kits. With vacuum, wound healing is fostered in a gentle manner. In doing so, comfort, mobility, safety and flexibility have the highest priority.



#### **Extremely comfortable**

- Simply structured display
- Low noise operating mode
- Docking station available

#### **Mobile**

- Lightweight <1kg
- Long battery operation time >10h
- Discrete carrying bag

#### **Safe and proven**

- Reliable alarm management
- Viewing, selection, read-out and saving of therapy data



\* Only available in selected countries.

#### **Accessories**

Invia carrying case

### International Sales

Medela AG, Medical Technology  
Lättichstrasse 4b  
6341 Baar  
Switzerland  
Phone +41 (0)41 769 51 51  
Fax +41 (0)41 769 51 00  
info@medela.ch  
[www.medela.com](http://www.medela.com)

### Canada

Medela Inc.  
4160 Sladeview Crescent Unit # 8  
Mississauga, Ontario  
Canada, L5L 0A1  
Phone +1 905 608 7272  
Fax +1 905 608 8720  
info@medela.ca  
[www.medela.ca](http://www.medela.ca)

### China

Medela (Beijing) Medical Technology Co., Ltd.  
Unit M, 4F, No 1068 Wuzhong Road,  
Minhang District  
Shanghai 201103 / China  
Phone +86 21 62368102  
Fax +86 21 62368103  
info@medela.cn  
[www.medela.cn](http://www.medela.cn)

### France

Medela France Sarl  
14, rue de la Butte Cordière  
91154 Etampes cedex  
France  
Phone +33 (0)1 69 16 10 30  
Fax +33 (0)1 69 16 10 32  
info@medela.fr  
[www.medela.fr](http://www.medela.fr)

### Germany

Medela Medizintechnik  
GmbH & Co. Handels KG  
Postfach 1148  
85378 Eching / Germany  
Phone +49 (0)89 31 97 59-0  
Fax +49 (0)89 31 97 59 99  
info@medela.de  
[www.medela.de](http://www.medela.de)

### Italy

Medela Italia Srl  
Via Turrini, 19 - Loc. Bargellino  
40012 Calderara di Reno (BO)  
Italy  
Phone + 39 051 72 76 88  
Fax + 39 051 72 76 89  
info@medela.it  
[www.medela.it](http://www.medela.it)

### Japan

Medela K.K.  
KDX Kiba Building 3F  
5-12-8, Kiba, Koto-ku,  
Tokyo 135-0042 Japan  
Phone +81 3 3820-5187  
Fax +81 3 3820-5181  
info@medela.jp  
[www.medela.jp](http://www.medela.jp)

### Netherlands/Belgium

Medela Benelux BV  
De Steenbok 12  
5215 ME's-Hertogenbosch  
Netherlands  
Phone +31 73 690 40 40  
Fax +31 73 690 40 44  
info@medela.nl  
info@medela.be  
[www.medela.nl](http://www.medela.nl)  
[www.medela.be](http://www.medela.be)

### Russia

OOO Medela  
Fersmana Street 5A  
117312 Moscow  
Russia  
Phone +7 (495) 980 6194  
Fax +7 (495) 718 1700  
info@medela-russia.ru  
[www.medela-russia.ru](http://www.medela-russia.ru)

### Spain

Productos Medicinales Medela, S.L.  
c/ Manuel Fernández Márquez, 49  
08918 Badalona (Barcelona)  
Spain  
Phone +34 93 320 59 69  
Fax +34 93 320 55 31  
info@medela.es  
[www.medela.es](http://www.medela.es)

### Sweden

Medela Medical AB  
Box 7266  
187 14 Täby  
Sweden  
Phone +46 (0)8 630 09 40  
Fax +46 (0)8 630 09 48  
info@medela.se  
[www.medela.se](http://www.medela.se)

### Switzerland

Medela AG, Medizintechnik  
Lättichstrasse 4b  
6341 Baar  
Switzerland  
Phone +41 (0)848 633 352  
Fax +41 (0)41 769 51 00  
contact@medela.ch  
[www.medela.ch](http://www.medela.ch)

### United Kingdom

Medela UK Ltd.  
Huntsman Drive  
Northbank Industrial Park  
Irlam, Manchester M44 5EG / UK  
Phone +44 870 950 5994  
Fax +44 870 389 2233  
info@medela.co.uk  
[www.medela.co.uk](http://www.medela.co.uk)

### USA

Medela Inc.  
P.O. Box 660  
1101 Corporate Drive  
McHenry, IL 60050 / USA  
Phone +1 877 735 1626  
Fax +1 815 363 2487  
suction@medela.com  
[www.medelasuction.com](http://www.medelasuction.com)