Thopaz™
Smallest digital thoracic drainage system in the world

“What I want ... is a safe and efficient drainage therapy.”
Medela sets new standards in thoracic drainage therapy

Thopaz allows continuous monitoring of the patients, gives them independence to ambulate, and ensures their safety. To develop Thopaz, Medela collaborated closely with renowned thoracic specialists. Their many years in practice and their knowledge of the complex requirements to manage patients with chest drains are reflected in the functionality of the compact system. These functionalities bring great advantages to physicians, nursing staff, and patients.

Thopaz, the small, lightweight, complete system with an integrated suction source allows patients to mobilize quickly.

**Thopaz advantages at a glance**

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<th>Requirements for state-of-the-art thoracic drainage therapies</th>
<th>Product characteristics</th>
<th>Benefits</th>
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| **Promotes mobility**                                         | • Complete system with integrated suction source  
• Small  
• Lightweight | • More rapid recovery after the operation  
• Increased patient comfort  
• Reduced workload for nursing personnel |
| **Ensures digital documentation**                             | • Electronic measuring and monitoring functions  
• Data transfer to PC | • Important digital data for an objective evaluation of the course of therapy  
• Supplements patient records with therapy data  
• Supporting documents in liability cases |
| **Guarantees safety**                                         | • Ease of handling  
• Alarm management | • Cannot be assembled/connected incorrectly  
• Early intervention of problems or irregularities in the course of therapy |
| **Incorporates research**                                     | • Based on international, randomised, controlled, clinical study | • Scientific evidence of the efficiency and safety of the thoracic drainage |
Quicker healing and more patient comfort

Early mobilization of patients with continuous suction, part of postoperative early ‘fast track’ rehabilitation, after a thoracic surgical intervention brings clear advantages to:

- lower overall risks*
- encourage quicker patient recovery after the operation
- enhanced quality of life
- reduced workload for nursing personnel
- minimisation of care costs

Thopaz promotes early mobilization of the patients in an uncomplicated manner. The device is small and handy. With a simple handle the pump is removed from the docking station. The patients can go to the cafeteria independently or for tests without the assistance of nursing personnel.

Thopaz unifies all elements for an uncomplicated mobilization system

- Integrated suction source
- Compact design
- Lightweight
- Quiet
- Rechargeable battery

Due to the fast track surgery patients are able to leave the clinic sooner.

* Studies show that, due to the ‘fast track surgery’ general complications such as pneumonia, thrombosis or cardiac problems are decreased by up to one half.
Digital documentation

Better evaluation of the success of therapy
In state-of-the-art thoracic drainage the user wants reliable, precise, objective data. Thopaz quantifies the parenchymal flow in real time. A push of a button makes it possible to track the effectiveness of therapy over a 24-hour period. The physician can detect any changes in the flow early and take appropriate measures quickly. In addition, with Thopaz, a reliable baseline is generated to make the decision to discontinue the drainage easier.

At the conclusion of therapy, the data can be transferred via a USB cable to a PC.

ThopEasy
Thop Easy, the software provided with the system, enables the extraction of data (pressure, flow) as well as input patient information. The data can be stored or printed. It can be used as documentation for research purposes or added to the patient record.
Safety

**Extreme ease of start-up and handling**

The thoracic drainage system is ready to use with just a few manual operations. It is impossible to connect the tube or the container incorrectly. The system requires no fluids for operation.

The display provides clear, intuitive use. The special menu-driven operation prevents any unintentional switching off of the pump by the patient or the user. Faulty operation during start-up and ongoing operation is prevented.

**More safety with less monitoring by nursing personnel**

Thopaz offers all the basic safety functions of conventional systems with a water seal. Furthermore, the system has innovative features for even more comfort and safety.

Thopaz’ electronic system measures and compares pressure and flow values on a continuous basis. Any irregularities during the drainage therapy alerts the user through optical and acoustical signals. Then the physicians and nursing staff can intervene promptly in a targeted manner.

**A sophisticated alarm management unit assumes important monitoring functions.**
Based on research

Intelligent product development

Medela invests in research projects and scientific studies. The development of Thopaz was accompanied by an international, randomized, controlled clinical study at four well-known thoracic clinics. The results confirm that Thopaz offers state-of-the-art thoracic drainage an efficient and comfortable, alternative to standard treatment.

- The great efficiency of the Thopaz system for thoracic drainage clearly proven
  The results of the study prove the great efficiency of the mobile Thopaz system with a 5 l/min flow performance.

- Greater mobility compared to patients who received conventional treatment
  The patients who were treated with the Thopaz system had a greater degree of mobility than the control group. They performed more activities outside the patient room and for longer periods of time. The outcome heightened patient satisfaction.

- Greater nursing staff satisfaction
  Physicians and nursing staff were more satisfied with the Thopaz system, primarily with regard to the handling of the system and the reduced workload.

The Thopaz system makes it possible to retrieve up-to-date information at any time, therefore optimizing the course of therapy.
Thopaz convinces everyone during the clinical application

Thopaz underwent a thorough, broad-based validation process in various hospitals before market release. It involves a completely new concept in the field of thoracic drainage therapy. Special attention was paid to the digital documentation, alarm management as well as the handling. From the numerous feedback reports the most important advantages are summarized as shown on the right side:

From the physician’s perspective …
Provides important, objective information and monitors the patient’s therapy.

From the nursing staff’s perspective …
Represents a significant reduction in workload and leads to more safety.

From the patient perspective …
Is very quiet and handy.

Course of thoracic drainage therapy

Due to the digital documentation of the course of therapy, the time for discontinuing the drainage can be determined more precisely. Potentially, it can shorten the drainage time as a result.

Example of a typical course during therapy with Thopaz

Possible removal of the drainage based on the digital information (graphics)
Removal of the drainage based on the standard method (air bubbles)
The small, lightweight, complete system

Reduced workload for nursing personnel
Thopaz is a complete, extremely efficient drainage system. It is comprised of a suction pump, disposable containers, and tubing. The set-up and handling of the device is very easy. Well-designed accessories add even more comfort to the lightweight system.

Docking station
Thopaz is set in and removed from the docking station with a convenient handle. The docking station can be placed on a level surface or attached to a rail by means of the rail clamp.

Carrying strap
The carrying strap is practical, safe and discrete. Instead of carrying the pump by the handle, the carrying strap can be placed across the shoulder.

Graphic display

1 Disposable canister (0.3 l/0.8 l)
2 Small, quiet suction pump
3 USB port for data transfer
4 Mains adapter port
5 Double lumen patient tubing

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low vacuum
\[-10 \text{kPa} \text{ / } -75 \text{ mmHg} \text{ / } -100 \text{ mbar / cm H}_2\text{O}\]

low flow
5 l / min

1 kg / 2,2 lbs

Class IP33