OPTILINE®

Thoracic Drainage Systems

PRODUCT CATALOG

Primed®

Primed® **Medizintechnik GmbH** is a highly experienced manufacturer of medical devices.

We have been supplying our customers with high-quality products "MADE IN GERMANY" for many years now.

In line with our corporate policy, the medical devices offered by Primed® are developed, produced and marketed in our own company. This is done in close cooperation with our customers and academic institutions.

The basis is formed by a certified development process in accordance with the DIN 13485 standard, in which highly innovative medical devices are continuously developed on the basis of ongoing market research and analysis.
Our vertical integration extends throughout the entire manufacturing process (injection moulding, extrusion, assembly) and also includes the sterilisation of devices in our own EO sterilisation unit.

The bundling of all the product-related processes in one company allows us to react flexibly to market requirements and guarantee the continuous further improvement of our existing products as well as to launch new products on the market.

Table of content

Customizations are possible upon request.

OPTILINE® Thoracic Drainage Systems

OPTILINE® thoracic drainage systems are used to drain air, blood and secretions from the pleural and mediastinal cavities. They prevent sucked off air or liquids from reentering the pleural space or mediastinum. Thus it is possible to maintain or restore the negative pressure in the pleural space, which is the basis for the adequate expansion of the lungs. Moreover, these systems can avoid heart compression resulting from complications in the pericardium.

Some of the most common indications for thoracic drainage are ruptures in the lung surface or in the tracheobronchial area as well as the penetration of the chest wall from outside by trauma or surgical procedure. As a result, air and/or liquids can accumulate in the pleural space or mediastinum and substantially reduce the functioning of lungs and heart (pneumothorax, tension pneumothorax, hemothorax, hemopneumothorax, chylothorax, pleural emphysema, cardiac tamponade). The OPTILINE® thoracic drainage systems are a reliable, safe and highly efficient aid for the treatment of these indications.

OPTILINE® thoracic drainage systems are equipped with a vacuum hose (1m length) and a patient hose (1.50 m length). The patient hose is internally ribbed to effectively prevent possible kinking.
Besides that, the standard connector on the patient hose features a port for taking samples for medical supervision.

All OPTILINE® thoracic drainage bottles are of transparent material to ensure a sufficiently good visibility of the collected content. They are equipped with a labeling strip which allows to take down control data relevant for treatment.

OPTILINE® Single-Bottle Set

27105

Water seal and secretion collection in one bottle (1000 ml)

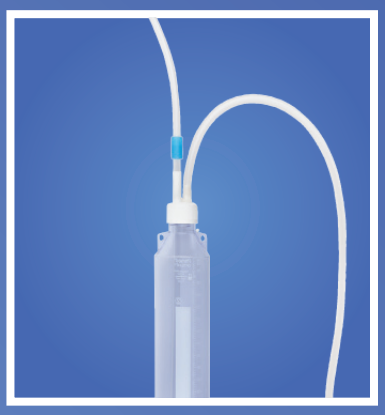
article number	packaging unit (PU)
27105	15

Air, secretions or blood are drained off from the chest cavity by gravity drainage or via an external suction source.

A water seal serves as a non-return valve with low resistance, draining off air from the thorax via a riser pipe immersed in water or saline solution. At the same time this seal prevents the return flow of air to the chest cavity during respiration.

A mark on the riser pipe indicates the immersion depth with the optimal resistance of the water column which may be easily readjusted in case of increased liquid accumulation.

Single-Bottle Set



- Easy handling

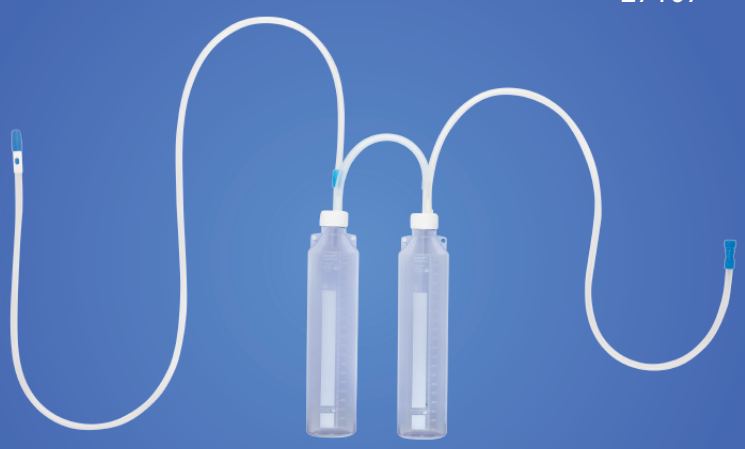
- Transparent bottle design to enable optimal visual check

- Patient hose with internal ribs prevents possible kinking

- Labeling strip to take down control data

OPTILINE® DOUBLE-BOTTLE SET

27107



Water seal bottle with lip valve (non-return protection) and a separate secretion collection bottle.

article number	packaging unit (PU)
27107	10

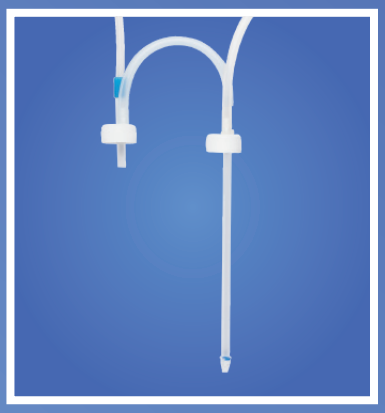
Air, secretions or blood are drained off from the chest cavity by gravity drainage or via an external suction source.

This system features a separate collecting bottle for liquids which is located upstream the water seal chamber bottle. This bottle collects the drained off liquids while the air from the chest cavity is led to the water seal chamber bottle. Thus, the water column in the water seal bottle can be kept on a constant level regardless of the amount of drained off liquid, and a continuously low resistance towards the pleural or mediastinal cavity is provided.

The lip valve at the end of the riser pipe is an additional protection which prevents the return flow of liquids from the water seal chamber bottle, even during a temporary loss of the water seal (e.g. during recumbent patient transports).

The valve is also a fistula indicator (leak indication).

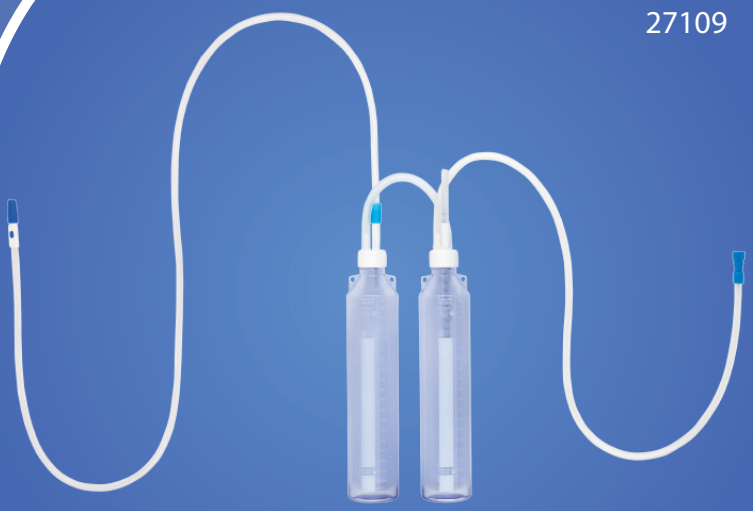
Double-Bottle Set



- Constant vacuum in patient without readjustment
- Drained off liquid is separately visible and measurable
- A lip valve at the water seal chamber prevents the return flow of liquids and is also a leak indicator
- Easy handling
- Transparent bottle design to enable optimal visual check
- Patient hose with internal ribs prevents possible kinking
- Labeling strip to take down control data

Double-Bottle Set PLUS

OPTILINE® Double-Bottle Set PLUS



27109

Water seal bottle with lip valve (non-return protection) and suction control and a separate secretion collection bottle.

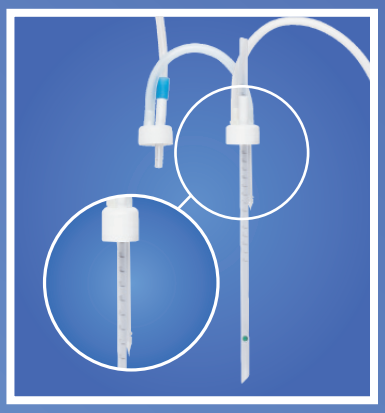
article number	packaging unit (PU)
27109	10

Air, secretions or blood are drained off from the chest cavity by gravity drainage or via an external suction source. This system features a separate bottle which collects the drained off liquids while the drained off air is led to the water seal chamber bottle via a short tube with lip valve. Thus, the water column can be kept on a constant level regardless of the amount of drained off liquid, and a continuously low resistance towards the pleural or mediastinal cavity is provided.

A special advantage of this PLUS model is the additional pressure control which is ensured by a suction control tube. The water seal chamber bottle filled with 925 ml water or saline solution permits only a suction of up to 21 cmH2O which corresponds to the maximum immersion depth of the water column. A higher setting on the external suction source is balanced by the opening of the suction control tube towards the external air. By moving the scaled suction control tube up and down the suction intensity can be varied and thus be adapted to the patient's requirements. In addition, the tube is equipped with a non-return protection which prevents the splashing out of liquids from the water seal chamber bottle in case of temporary overpressure (e.g. coughing of the patient).

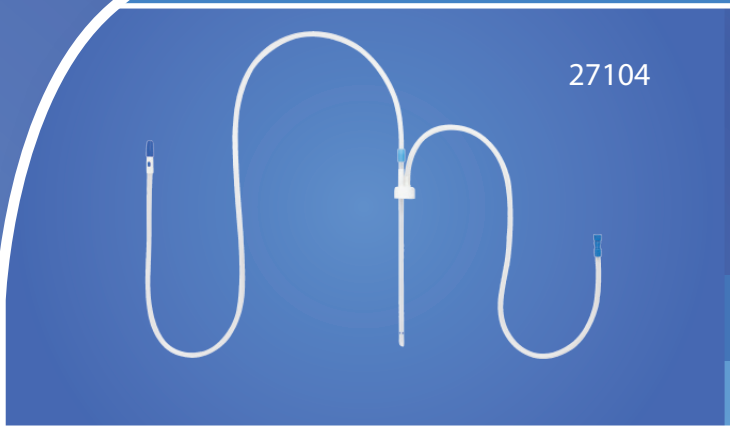
The connecting tube to the secretion collecting bottle features also a lip valve which prevents the return flow of liquids from the water seal chamber bottle, even during a temporary loss of the water seal (e.g. during patient transports). The valve is also a fistula indicator (leak indication).

Double-Bottle Set PLUS



- Constant vacuum in patient without readjustment
- Suction regulation for pressure control (exceeding of determined max. pressure excluded)
- Drained off liquid is separately visible and measurable
- A lip valve at the water seal chamber prevents the return flow of liquids and is also a leak indicator
- Easy handling
- Transparent bottle design to enable optimal visual check
- Patient hose with internal ribs prevents possible kinking
- Labeling strip to take down control data

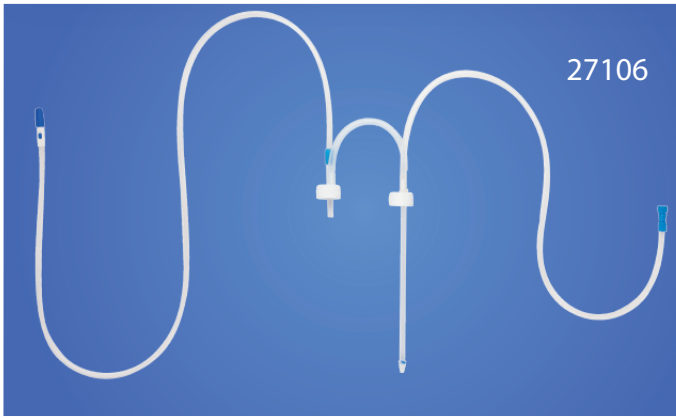
OPTILINE® HOSE SYSTEMS



27104

Standard Single-bottle hose system

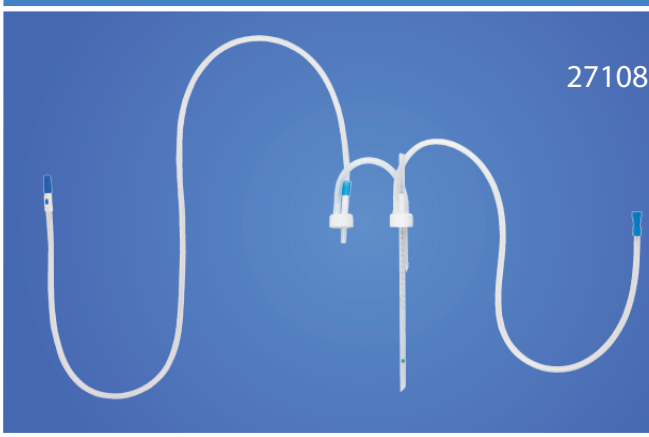
article number	packaging unit (PU)
27104	15



27106

Double-bottle hose system with lip valve

article number	packaging unit (PU)
27106	10



27108

Double-bottle hose system PLUS with lip valve

article number	packaging unit (PU)
27108	10

Thoracic drainage bottles

OPTILINE® Thoracic drainage bottles

27100

Thoracic drainage bottle 1.000ml

article number	packaging unit (PU)
27100	25

27101

Thoracic drainage bottle 3.000ml

article number	packaging unit (PU)
27101	10

27102

Cap for Thoracic drainage bottles

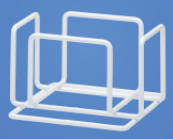
article number	packaging unit (PU)
27102	25

OPTILINE® BOTTLE HOLDER

27112

bottle holder for single-bottle set (1.000ml)

article number	packaging unit (PU)
27112	10



27115

bottle holder for single-bottle set (3.000ml)

article number	packaging unit (PU)
27115	10

27113

bottle holder for double-bottle set (2 x 1.000ml)

article number	packaging unit (PU)
27113	10

ACCESSORIES

27121

Thoracic-Drainage-Bag
(1.000 ml)

article number	packaging unit (PU)
27121	25

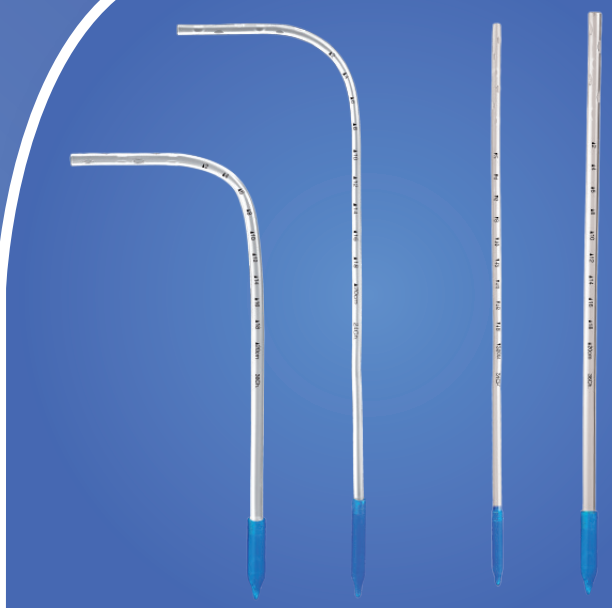
27116

Heimlich valve

article number	packaging unit (PU)
27116	20

Thoracic and Trocar catheters

THORACIC CATHETERS



The **THORACIC CATHETER** provides effective drainage following chest surgery.

It is inserted intra-operatively, frees the pleural cavity of retained gas and fluids, and serves to restore and maintain the pressure conditions.

- **6 offset-mounted and elliptical lateral eyes** guarantee safe and patient-friendly drainage
- The **atraumatic tip** and the **thermosensitive material** make it easier to insert the catheter.
- An **X-ray contrast strip** and **depth markings** every two centimetres ensure an optimum positional control. The latter also make it easier to remove the catheter later.
- The thoracic catheter is **suitable for several days of application.**

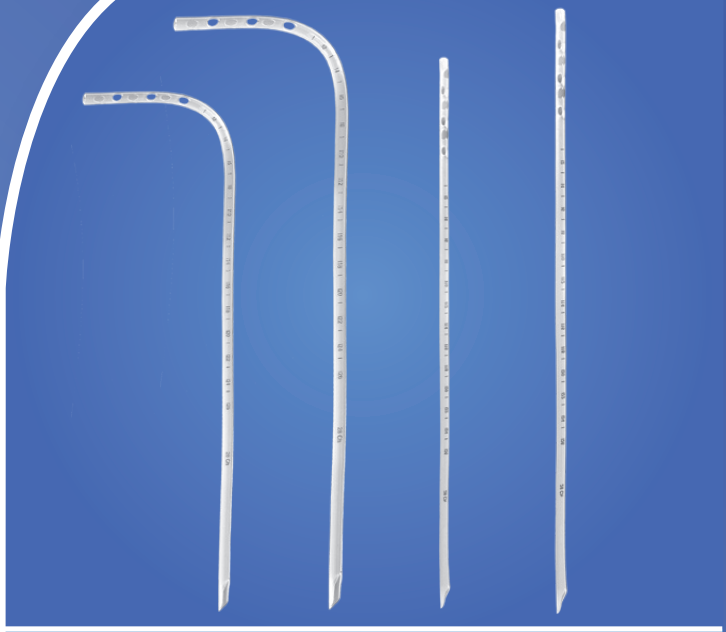
Thoracic catheters are sterile disposable products, available in a variety of shapes (straight or curved) and sizes.

They are supplied in individual sterile packages.

Size	PU	Shape	Length	Article number
Ch. 16	10	Straight	455 mm	21050
Ch. 20	10	Straight	455 mm	21047
Ch. 24	10	Straight	455 mm	21041
Ch. 28	10	Straight	455 mm	21042
Ch. 32	10	Straight	455 mm	21043
Ch. 36	10	Straight	455 mm	21048
Ch. 20	10	Curved	120 mm + 335 mm	21076
Ch. 24	10	Curved	120 mm + 335 mm	21044
Ch. 28	10	Curved	120 mm + 335 mm	21045
Ch. 32	10	Curved	120 mm + 335 mm	21046
Ch. 36	10	Curved	120 mm + 335 mm	21049

PU = packaging unit

SILICONE THORACIC CATHETERS



Our **SILICONE THORACIC CATHETERS** display highly flexible material properties and a high tissue tolerance, because no softeners **(DEHP-free),** and no organic additives are used during production. They are made of transparent, medical grade silicone.

- Thanks to their inert properties, silicone thoracic catheters are **perfectly suitable for several days of application.**
- To make fluoroscopic visual inspection easier, each silicone catheter is provided with a **continuous X-ray contrast strip**. A **black scale marking** also simplifies catheter placement and removal.
- The proximal end is designed as an **atraumatic tip with 6 lateral elliptical openings** for safe and patient-friendly drainage.
- **The distal end is cut in an oblique, wave-like way** for better connection to the thoracic drainage system.

Size	PU	Shape	Length	Article number
Ch. 20	10	Straight	520 mm	24150
Ch. 24	10	Straight	520 mm	24152
Ch. 28	10	Straight	520 mm	24154
Ch. 32	10	Straight	520 mm	24156
Ch. 36	10	Straight	520 mm	24158
Ch. 20	10	Curved	120 mm + 335 mm	24151
Ch. 24	10	Curved	120 mm + 335 mm	24153
Ch. 28	10	Curved	120 mm + 335 mm	24155
Ch. 32	10	Curved	120 mm + 335 mm	24157
Ch. 36	10	Curved	120 mm + 335 mm	24159

PU = packaging unit

Silicone thoracic catheters are sterile disposable products, available in a variety of shapes (straight or curved) and sizes.

They are supplied in individual sterile packages.

TROCAR CATHETERS

The **TROCAR CATHETER** is a medical puncture instrument for draining fluids from body cavities. It allows Monaldi and Buelau penetration and placement techniques with minimum trauma.

- A **high resistance to kinking** ensures **easy insertion.** The distal tip is shaped in such a way that the tissue can be pushed apart without causing any injury to nerves or blood vessels.
- The **distal tip, which generates contrast**, and an **X-ray contrast strip** provide optimum positional control. In addition, **depth markings** are provided every two centimetres that make exact positioning easier and allow an uncomplicated removement of the catheter later.
- **3 offset-mounted and elliptical lateral eyes** facilitate safe, patient-friendly drainage.
- The **pointed end of the trocar, which is made of metal,** is fixed to a plastic mount to ensure safe handling.

Trocar catheters are sterile disposable products, available in a variety of sizes.

They are supplied in individual sterile packages.

Size	PU	Shape	Article number
Ch. 10	10	203 mm	21057
Ch. 12	10	233 mm	21058
Ch. 16	10	238 mm	21059
Ch. 20	10	412 mm	21053
Ch. 24	10	410 mm	21051
Ch. 28	10	411 mm	21052
Ch. 32	10	412 mm	21054

PU = packaging unit

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Revision status: 01/2016-06-20