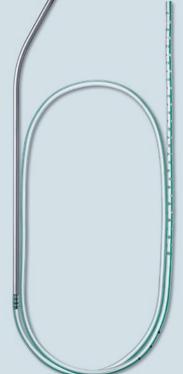
# pfinnedical Quality and Experience

# Post-operative wound drainage > High-vacuum drainage > Low-vacuum drainage > Gravity drainage

The product portfolio for postoperative wound drainage from pfm medical ag offers a variety of systems for drainage by high-vacuum, low-vacuum and gravity for many clinical applications.

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# **OR-system / Ward-system**

The **OR-system** is a pre-evacuated reservoir with connecting tube for post-operative high-vacuum Redon wound drainage and is suitable for initial placement during surgery.

#### View



Details

- Plug connection or Luer-Lock connection
- Crystal-clear material for reliable qualitative assessment of secretions
- Rough and fine graduation for at-a-glance information about current fill levels

The **ward-system** is a pre-evacuated reservoir for post-operative high-vacuum Redon wound drainage and is intended for replacement during patients treatment.

# Benefits

#### High initial vacuum The Redon bottle has a high initial vacuum of max. 98,000 Pa.

Several system sizes 200 ml and 400 ml systems

provide a 50 ml safety volume.

# **Redon connection tube**

The tube with transparent universal Redon connector CH 06 - CH 18 for connection to the drain is pre-attached.

- Integrated vacuum indicator with qualitative min. / max. indication
- Quick-release fasteners included
- Double packed, sterile
- Latex-free
- Redon bottle DEHP-free

#### **Technical Data**

Bottle volume: 200 ml - 600 ml

# **Ordering Information**

OR-bottle			
REF	Volume	Connection	PU
20201	200 ml	plug	40
20204	200 ml	Luer-Lock	40
20301	400 ml	plug	40
20304	400 ml	Luer-Lock	40
20401	600 ml	plug	30
20404	600 ml	Luer-Lock	30

#### Ward-system

REF	Volume	Connection	PU
20200	200 ml	plug	50
20203	200 ml	Luer-Lock	50
20300	400 ml	plug	40
20303	400 ml	Luer-Lock	40
20400	600 ml	plug	30
20403	600 ml	Luer-Lock	30

# **Redon-Sets**

The **Redon-Set** for post-operative wound drainage consists of a Redon bottle, a connecting tube, a Redon drain and a singleuse needle. The Redon-Set is suitable for initial placement during surgery and contains all for the drainage needed components.



#### Details

- Luer-Lock connection
- Crystal-clear material for reliable qualitative assessment of secretions
- Rough and fine graduation for at-a-glance information about current fill levels
- Integrated vacuum indicator with qualitative min. / max. indication
- Quick-release fasteners included
- Double packed, sterile
- Latex-free
- Redon bottle and Redon drain DEHP-free

# **Ordering Information**

# Benefits

#### **Complete set**

#### In addition to the Redon-bottle with connecting tube, the set also contains a drain and a suitable disposable needle.

#### **High initial vacuum**

The Redon bottle has a high initial vacuum of max. 98,000 Pa.

#### **Redon connection tube**

The tube with transparent universal Redon connector CH 06 - CH 18 for connection to the drain is pre-attached.

#### Several system sizes

200 ml and 400 ml systems provide a 50 ml safety volume.

#### Technical Data

- **Bottle volume:** 200 ml 600 ml
- Drain size: CH 08 CH 18
- Drain length: 75 cm
- > Drain perforation length: 15 cm

Ordering Information				
REF	Volume	Connection	Drain size	PU
20919	200 ml	Luer-Lock	CH 08	45
20915	200 ml	Luer-Lock	CH 10	35
20910	200 ml	Luer-Lock	CH 12	45
20916	200 ml	Luer-Lock	CH 14	35
20922	200 ml	Luer-Lock	CH 16	45
20924	200 ml	Luer-Lock	CH 18	45
20920	400 ml	Luer-Lock	CH 08	35
20588	400 ml	Luer-Lock	CH 10	35
20912	400 ml	Luer-Lock	CH 12	35
20913	400 ml	Luer-Lock	CH 14	35
20923	400 ml	Luer-Lock	CH 16	35
20925	400 ml	Luer-Lock	CH 18	35
20921	600 ml	Luer-Lock	CH 08	25
20566	600 ml	Luer-Lock	CH 10	25
20569	600 ml	Luer-Lock	CH 12	25
20567	600 ml	Luer-Lock	CH 14	25
20568	600 ml	Luer-Lock	CH 16	25
20918	600 ml	Luer-Lock	CH 18	25

For requests on availability and minimum order quantity of the products please refer to our Customer Service: T +49 (0)2236 9641-0; service@pfmmedical.com

View

# **Redon drains / U-Drains**

The cross-perforated **Redon drains** are suitable for use with high-vacuum wound drainage systems for post-operative wound drainage.

The special cross-perforated **U-Drains** improve drainage performance by 1.5 to 2.5 times compared with conventional Redon drains.<sup>[1]</sup>

#### Benefits

#### **Even suction with U-Drains**

The gently rounded drainage holes with a linear increase in diameter towards the distal end ensure even suction across the entire length of the drain.

#### **Easy to reposition**

Details

Radiopaque

Latex-free

**Technical Data** • Length: 50 cm / 75 cm

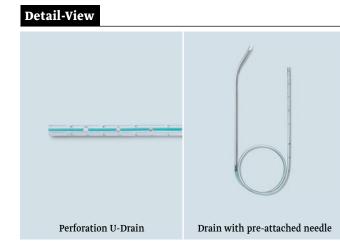
Double packed, sterile

The triple ring marking makes repositioning easy.

#### **Configuration with pre-attached needle**

Made from medical PVC, DEHP-free Precision-manufactured drainage holes

The pre-attached needle, made from high-quality stainless steel always provides a perfectly sharp needle for optimal placement.



#### **Ordering Information**

#### **Redon drains**

Acuon utams				
REF	Size	Perforation	Length	PU
20027	CH 06	15 cm	50 cm	100
20020	CH 08	15 cm	50 cm	100
20026	CH 09	15 cm	50 cm	100
20021	CH 10	15 cm	50 cm	100
20022	CH 12	15 cm	50 cm	100
20023	CH 14	15 cm	50 cm	100
20024	CH 16	15 cm	50 cm	100
20025	CH 18	15 cm	50 cm	100

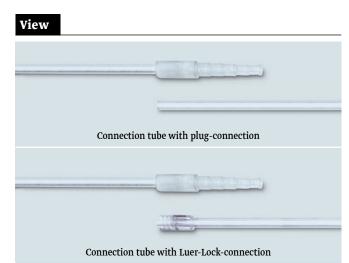
🗉 Enneker C., Fleischmann E., Lange Th.: Klinische Anwendung und vergleichende Untersuchung der Ulmer Drainage und der herkömmlichen Gewebssaugdrainage nach Redon. Der Chirurg 50, 626-630 (1979)

REF	Size	Perforation	Length	PU
20067	CH 08	15 cm	50 cm	10
20068	CH 10	15 cm	50 cm	10
20087	CH 12	15 cm	75 cm	10
20097	CH 14	15 cm	75 cm	10
<b>U-Drains</b>				
REF	Size	Perforation	Length	PU
20122	CH 08	6 cm	50 cm	100
20120	CH 10	5 cm	50 cm	100
20123	CH 10	8 cm	50 cm	100
20121	CH 12	5 cm	50 cm	100
20124	CH 12	10 cm	50 cm	100
20125	CH 14	12 cm	50 cm	100
20126	CH 16	12 cm	50 cm	100
U-Drains with	pre-attached needle			
REF	Size	Perforation	Length	PU
20128	CH 10	8 cm	75 cm	10
20129	CH 12	10 cm	75 cm	10
20131	CH 14	12 cm	75 cm	10

#### Redon drains with pre-attached needle

# **Connection tube**

The **connection tube** is used to connect Redon drains to the pre-evacuated reservoir.



### Benefits

Various configuration

Separately available connection tubes allow an individual replacement if required.

# Details

Double packed, sterile

Latex-free

#### **Technical Data**

• Length: 120 cm (20818: Universal Redonconnector)

#### **Ordering Information**

REF	Version	PU
20814	Connection tube with plug connection and universal Redon connector CH 06 - CH 18	25
20824	Connection tube with Luer-Lock connection and universal Redon connector CH 06 – CH 18	25
20818	Universal Redon connector CH 06 – CH 18 (no tube)	100

# **Redon-Mini Set**

The manually compressible bellows of the **Redon-Mini Set** uses a low vacuum (approx. 10,000 Pa initially) for post-operative wound drainage. The Redon-Mini Set includes a drain and a pre-attached stainless steel needle.



# Benefits

**Quick qualitative assessment of secretion** By using transparent material the drained fluid can be quickly assessed.

#### Safe drain connection

The plug or screw connection is used for quick and safe drain fitting.

# Details

- Initial low vacuum approx. 10,000 Pa
- Redon drain DEHP-free
- Seamless transition to needle
- Fully radiopaque
- Double packed, sterile
- Latex-free

# **Ordering Information**

### **Technical Data**

- **Volume:** 30 ml/150 ml
- **Drain size:** CH 06 / CH 08
- **Length:** Redon drain (30 cm), Cross-perforation (5 cm)

ordering mion					
REF	Connection	Drain size	Volume	PU	
20604	screw	CH 06	30 ml	20	
20608	screw	CH 08	30 ml	20	
20651	plug	CH 06	150 ml	10	
20652	plug	CH 08	150 ml	10	
20653	screw	CH 08	150 ml	10	
20654	screw	CH 06	150 ml	10	
20611	screw	no Drain	30 ml	20	
20657	screw	no Drain	150 ml	10	
20650	plug	no Drain	150 ml	10	

#### Low-vacuum system

The Low-vacuum system is a large capacity wound drainage system for manual evacuation in sensitive tissue using a constant low vacuum.

#### View



#### Details

- Large capacity 250 ml bellows to increase the time intervals between re-evacuations and to reduce the total number of re-evacuations required
- Pre-attached Y-connectors with closed distal ends allow the optional use of one or two Redon drains (CH 08 - CH 18) without the need for additional connectors, adaptors or clamps
- Hydrophobically coated filter on the drainage bag for hygienic pressure equalisation without the risk of contact with the secretion
- Safety cap at the bottom outlet of the bellows to prevent spillage of residual fluid
- User-friendly design
- Redon drains DEHP-free
- Latex-free

# Benefits

#### **Gentle application**

The large capacity wound drainage system for manual evacuation using a constant low vacuum ensures gentle wound drainage in sensitive tissue (e.g. breast tissue).

# Improved patient and user protection

Two one-way valves efficiently prevent backflow thus minimising the risk of retrograde wound infections.

# Minimised risk of cross-contamination

Cost-effective replacement bags with one-way valve minimise the risk of crosscontamination.

#### **Pre-configured sets**

The pre-configured set consists of bellow, connection tube, Y-connector, Redon drains and optionally a disposable guide needle.

Assembly with silicone drains also optionally available.

#### **Technical Data**

- Length: Redon drain 50 cm, Perforation 15 cm
- **Volume:** Bellows 250 ml, Drainage bag 700 ml

#### **Ordering Information**

REF	Version	Size	PU
20760	2 Redon drains	CH 10	25
20761	2 Redon drains	CH 14	25
20762	2 Redon drains	CH 18	25
20770	2 Redon drains, Trocar	CH 10	25
20771	2 Redon drains, Trocar	CH 14	25
20772	2 Redon drains, Trocar	CH 18	25
20780	Exchange bag	700 ml	25

# **Soft-Drain Flat Active**

The Soft-Drain Flat Active consists of a flat silicone drain and a low-vacuum reservoir for suction-assisted wound drainage.



# Benefits

#### Active assistance of suction

The included reservoir creates a negative pressure and assists actively the suction of the drainage.

#### **Outstanding safety**

The inner ribbing of the flat drain prevents it from collapsing even at higher pressures or when a vacuum is applied.

#### **Easy drain removal**

The seamless soft coupling between the drain and tube enables the safe and gentle removal of inserted drains.

# Technical Data

- Full length: 80 cm
- Drain length: 20 cm

#### Details

- Transparent 150 ml low-vacuum silicone reservoir with anti-reflux valve and universal hanger
- Graduation of the reservoir for at-a-glance information about current fill levels
- Perforated at full length with gently rounded atraumatic holes
- > Flat drain made from 100% medical silicone
- Central opening
- Fully radiopaque drain tube
- Double packed, sterile
- Latex-free

#### **Ordering Information**

REF H	Height x width	Perforation	Volume reservoir	PU
0615-0072	3 x 7 mm	20 cm (full)	150 ml	10
0615-0102	4 x 10 mm	20 cm (full)	150 ml	10

# Soft-Drain Flat Reservoir

The Soft-Drain flat reservoir is a transparent low-vacuum silicone reservoir with an anti-reflux valve and a universal hanger.

#### View



# Benefits

# Graduation

The graduation provides an at-a-glance information about current fill levels of the reservoir.

#### Anti-reflux valve

The Anti-reflux-valve prohibits a backflow of collected wound fluid into the drainage.

#### **Universal hanger**

By use of the universal hanger, the system can easily be attached at any bed position.

#### Details

- Reservoir made from 100% silicone
- Sterile
- Latex-free

#### **Technical Data**

**Volume:** 100 ml - 400 ml

Ordering Information				
REF	Volume	PU		
2013-0610	100 ml	10		
2013-0615	150 ml	10		
2013-0620	200 ml	10		
2013-0640	400 ml	5		

# Soft-Drain Flat

The **Soft-Drain Flat** is a flat silicone drain for open or half-open wound drainage by gravity.



#### Details

- Flat drain made from 100% medical silicone
- Perforated at 3/4 length or full length with gently rounded atraumatic holes
- Central opening
- ▶ Fully radiopaque drain tube
- Double packed, sterile
- Latex-free

### **Ordering Information**

#### Soft-Drain Flat

Solt-Dialli fiat					
REF	Height x width	Perforation	Volume collection bag	PU	
2014-0071	3 x 7 mm	15 cm (3/4)	-	10	
2014-0072	3 x 7 mm	20 cm (full)	-	10	
2014-0101	4 x 10 mm	15 cm (3/4)	-	10	
2014-0102	4 x 10 mm	20 cm (full)	-	10	

#### Soft-Drain Flat Set

REF	Height x width	Perforation	Volume collection bag	PU
22580	3 x 7 mm	20 cm (full)	350 ml	10
22581	4 x 10 mm	20 cm (full)	350 ml	10

The **Soft-Drain Flat Set** consists of a flat silicone drain and a collection bag.

# Benefits

#### **Outstanding safety**

The inner ribbing of the flat drain prevents it from collapsing even at higher pressures or when a vacuum is applied.

#### **Easy drain removal**

The seamless soft coupling between the drain and tube enables the safe and gentle removal of completely inserted drains.

#### **Set configuration**

The pre-attached collection bag allows the usage as closed system instantly.

#### **Technical Data**

- Full length: 80 cm
- Drain length: 20 cm

# Soft-Drain

The **Soft-Drain Single** is a round silicone drain for open or half-open wound drainage by gravity.

View



The **Soft-Drain Set** consists of a round silicone drain and a collection bag with outlet.

# Benefits

#### **Gentle drainage**

Five laterally offset atraumatic holes and a gently rounded central opening ensure gentle drainage.

#### **Set configuration**

The pre-attached collection bag allows the usage as closed system instantly.

#### Details

- Round drain made from 100% medical silicone
- Fully radiopaque
- Double packed, sterile
- Latex-free

#### **Technical Data**

- Drain length: 50 cm
- > Set configuration Drain length: 100 cm
- Volume collection bag: 350 ml

# **Ordering Information**

### Soft-Drain

Solt-Dialli			SUIT-DIaili	sel		
REF	Size	PU	REF	Size	Volume collection bag	PU
21930	CH 09	20	-	-	-	-
21931	CH 12	20	22120	CH 12	350 ml	10
21932	CH 14	20	22121	CH 14	350 ml	10
21933	CH 16	20	22122	CH 16	350 ml	10
21945	CH 18	20	22123	CH 18	350 ml	10
21934	CH 20	15	22124	CH 20	350 ml	10
21935	CH 24	15	22125	CH 24	350 ml	10
21936	CH 26	15	22126	CH 26	350 ml	10
21937	CH 30	10	22127	CH 30	350 ml	10
21938	CH 33	10	22128	CH 33	350 ml	10
21939	CH 36	10	22129	CH 36	350 ml	10

#### Soft-Drain Set

# Dispo-Flow / Endo-Drain Set

The **Dispo-Flow** is a capillary drain made from silicone with inner ribbing for gentle wound drainage by means of capillary suction and gravity.



# Benefits

Gentle drainage

The Dispo-Flow is suitable for wound drainage in indications when the application of a low-vacuum is contraindicated, but sufficient drainage performance is required.

# **Technical Data**

- Width: 8 mm 12 mm
- Length: 30 cm / 50 cm

# Details

- Capillary drain made from 100% medical silicone
- Central opening
- Fully radiopaque
- Double packed, sterile
- Latex-free
- DEHP-free

The **Endo-Drain** is a fluted silicone gravity drain with pre-attached needle for open and half-open wound drainage. The Endo-Drain Set contains a pre-attached needle.

View	Benefits	
-19-5	<b>Excellent placement</b> The pre-attached needle, made from high-quality stainless steel always provides a perfectly sharp needle for	Kink resistant The structure of the drainage material ensures a high level of kink resistance.
	optimal placement. Easy removal The design of the drainage channels	<b>Easy inspection</b> The transparent connection tube allows an easy visual inspection of the tube.
	makes the removal of the drain easy because of the low incidence of tissue growth.	Very good biocompatibility The fluted drainage tube is made from 100% medical silicone for very good biocompatibility.

#### Details

- Fully radiopaque
- Double packed, sterile
- ▶ Latex-free

#### **Ordering Information**

#### **Dispo-Flow**

- 1			
REF	Width	Length	PU
22533	8 mm	30 cm	25
22535	8 mm	50 cm	25
22553	10 mm	30 cm	25
22555	10 mm	50 cm	25
22573	12 mm	30 cm	25
22575	12 mm	50 cm	25

# **Technical Data**

- **Drain length:** 120 cm
- Drainchannel length: 40 cm

Endo-Drain				
REF	Size	PU		
2015-9610	10 FR	10		
2015-9615	15 FR	10		
2015-9619	19 FR	10		
2015-9621	21 FR	10		

# **Biliary drainage bag**

The biliary drainage bag is a collection bag for secretions from the drainage of post-operative wounds using gravity drainage.



# Benefits

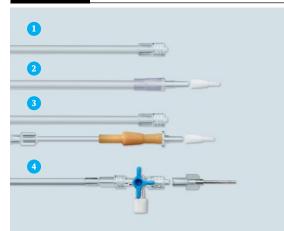
#### Simple control of fill level

The graduation of the bag provides an at-a-glance information about current fill levels.

#### **Various configurations**

Multiple versions offer a wide range of connection options as needed.

#### Detail-View



# Details

- Medical PVC
- With outlet depending on configuration

# **Technical Data**

- **Volume:** 500 ml 2000 ml
- Tubing length: 800 mm

# **Ordering Information**

REF	Version	Picture	Bag	Volume	PU
24008	Luer-Lock, male	1	no outlet	1500 ml	25
24017	Luer, male / connector for T-Drain	2	no outlet	1500 ml	25
24016	Luer-Lock, male / tubing adapter Luer, male / connector for T-Drain	3	no outlet	1500 ml	25
24022	Luer-Lock, male / tubing adapter Luer, male / connector for T-Drain	3	bottom outlet	2000 ml	25
24028	3-way-stopcock (Luer-Lock, male/female)	4	bottom outlet	500 ml	25

#### Contact

Should you have any questions our Customer Solutions Team is happy to advise you.

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