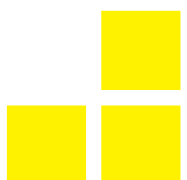


Tourniquet Systems Pressure Infusion



VBM *Medizintechnik GmbH*



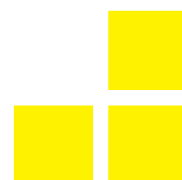
Summary

Tourniquets and Accessories

| | |
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| Digital Tourniquets..... | 4-5 |
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Pressure Infusion and Accessories

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Digital Tourniquets

For electricity 100-240 VAC, 50/60 Hz

Product Details

Digital Display

- Large color coded LED display is easy to read
- Precise monitoring shows actual cuff pressure

Precision Pressure Regulator

- Fast cuff inflation and deflation
- Regulator is easier to handle than touch pads
- Limits pressure to max. 600mmHg

Flush Button

- To check for bleeding
- To release drug slowly after I.V. Regional Anesthesia

Alarm System

- Visual and audible alarm to detect leaks, pressure deviations and low battery voltage

Color coded Coil Extension Hoses

- With Positive Locking Connectors (PLC)
- Easy attachment and detachment
- For safe and leak-free inflation

Automatic Timer

- Automatic time recording after cuff inflation
- Provides elapsed cuff inflation time
- Audible signal every 30 minutes

Battery Back-Up

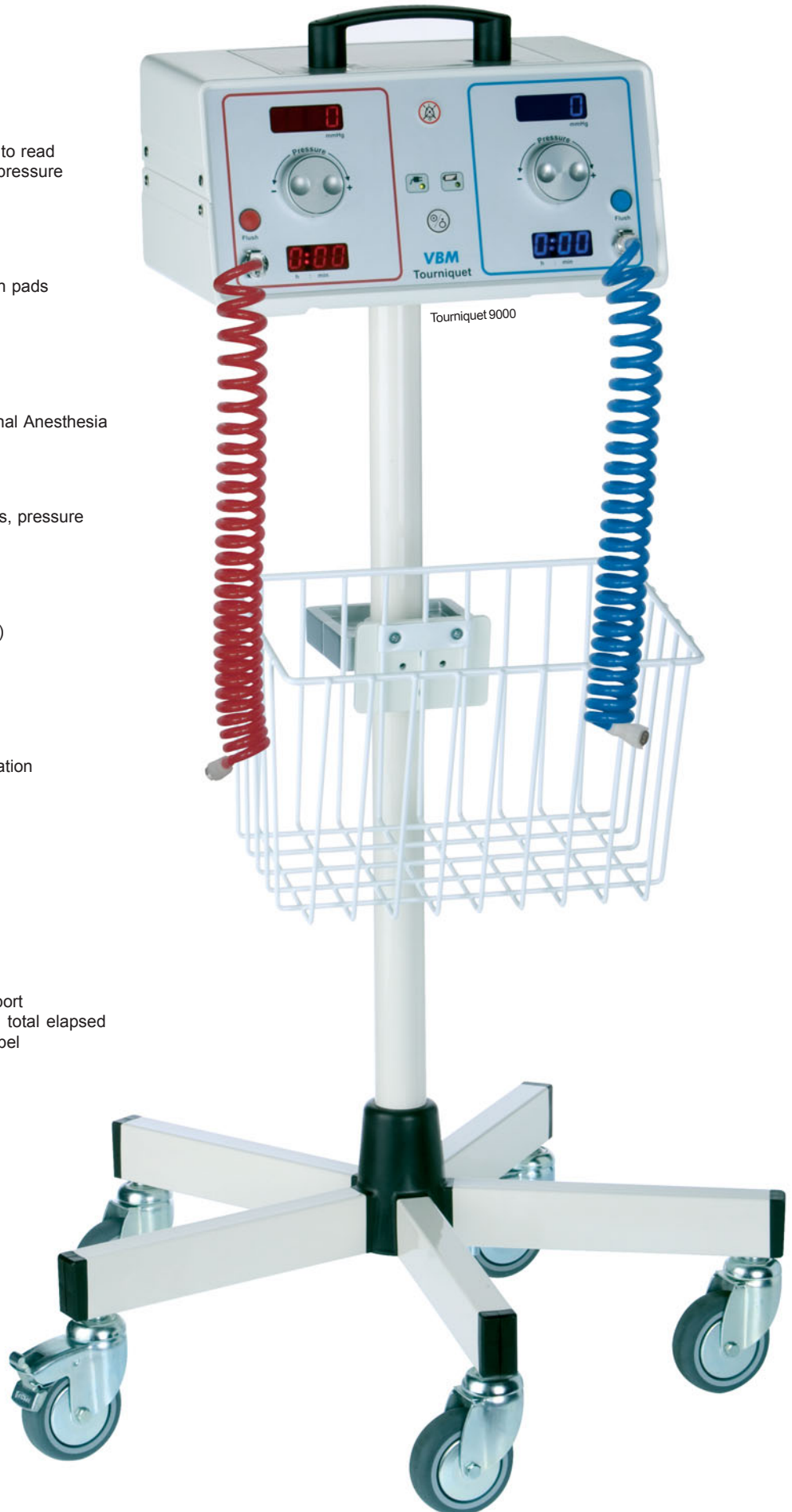
- Long lasting Ni-MH battery

Built-in Data Port

- Supports optional printer for patient report
- Reports cuff pressure adjustments and total elapsed cuff inflation time on a self-adhesive label

Stand with basket

- Very stable
- Easy patient transport
- Roomy storage for cuffs



Tourniquet 8000

with single channel

- Bloodless Field



Tourniquet 9000

with dual channel

- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery



Accessories



Printer
complete with one roll
printer labels (930/roll)
REF 13-10-000



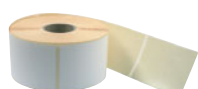
**Coil Extension hose
with PLC Connectors**
blue, Length: 2.5 m (8 ft)
REF 20-20-744



**Coil Extension hose
with PLC Connectors**
red, Length: 2.5 m (8 ft)
REF 20-20-742



**Printer with fixation
plate for stand**
complete with one roll
printer labels (930/roll)
REF 13-10-100



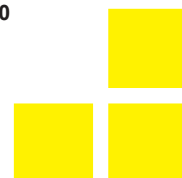
Roll printer labels
(930/roll)
REF 13-10-001



**Extension hose with
PLC Connectors**
blue, Length: 3 m (10 ft)
REF 20-44-300



**Extension hose with
PLC Connectors**
red, Length: 3 m (10 ft)
REF 20-42-300



Compressed Air Tourniquets

For central compressed air supply

Product Details

Analogic Gauges

- Calibrated and sealed to insure the exact reading every time. No need to calibrate before each use

Precision Pressure Regulator

- Fast cuff inflation and deflation
- Very precise pressure regulation
- Safety knob prevents accidental movement
- Limits pressure to max. 600mmHg

Flush Button

- To check for bleeding
- To release drug slowly after I.V. Regional Anesthesia
- To deflate in manual mode

Color Coded Coil Tubing

- Built into Tourniquet
- Leak proof
- With positive locking connectors

Manual Safety System

- No battery needed
- Maintenance free
- Pressure is maintained during power failure
- Can be used at any time without power

Timer

- Count down timer with alarm

Stand with basket

- Very stable
- Easy patient transport
- Roomy storage for cuffs

Pressure Hose

- 4m (13ft.) long, supplied with the Tourniquet



Tourniquet 2500

with single channel

- Bloodless Field



Tourniquet 2800

with single channel and built-in pressure infusor

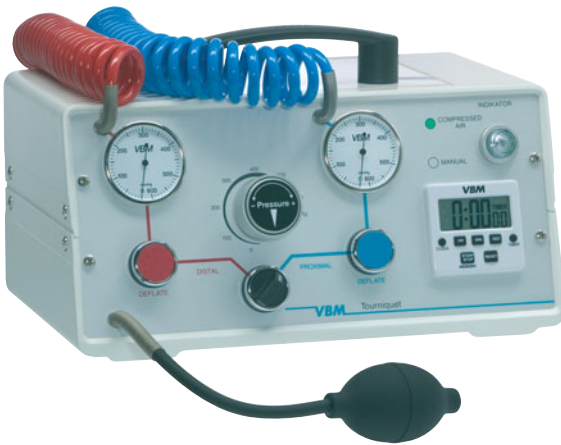
- Bloodless Field
- Automatic Blood-Exsanguination
- Pressure Infusion



Tourniquet 4500

with switch for I.V. Regional Anesthesia

- Bloodless Field
- I.V. Regional Anesthesia



Tourniquet 5000

with switch for I.V. Regional Anesthesia and built-in pressure infusor

- Bloodless Field
- I.V. Regional Anesthesia
- Automatic Blood-Exsanguination
- Pressure Infusion



Tourniquet 2x500

with dual channel

- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery



Tourniquet 5800

with dual channel and built-in pressure infusor

- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery
- Automatic Blood-Exsanguination
- Pressure Infusion



Electronic Tourniquets

For electricity with 230, 110 or 100 VAC

Product Details

Analogic Gauges

- Calibrated and sealed to insure the exact reading every time. No need to calibrate before each use.

Electronic Pressure Regulator

- Fast cuff inflation and deflation
- Very precise pressure regulation
- Safety knob prevents accidental movement
- Limits pressure to max. 600mmHg

Flush Button

- To check for bleeding
- To release drug slowly after I.V. Regional Anesthesia
- To deflate in manual mode

Color coded Coil Extension Hoses

- Built into Tourniquet
- Leak proof
- With positive locking connectors

Manual Safety System

- No battery needed
- Maintenance free
- Pressure is maintained during power failure
- Can be used at any time without power

Timer

- Count down timer with alarm

Stand with basket

- Very stable
- Easy patient transport
- Roomy storage for cuffs



Tourniquet 2500 ELC

with single channel

- Bloodless Field



Tourniquet 2800 ELC

with single channel and built-in pressure infusor

- Bloodless Field
- Automatic Blood-Exsanguination
- Pressure Infusion



Tourniquet 4500 ELC

with switch for I.V. Regional Anesthesia

- Bloodless Field
- I.V. Regional Anesthesia



Tourniquet 5000 ELC

with switch for I.V. Regional Anesthesia and built-in pressure infusor

- Bloodless Field
- I.V. Regional Anesthesia
- Automatic Blood-Exsanguination
- Pressure Infusion



Tourniquet 2x500 ELC

with dual channel

- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery











Tourniquet 5800 ELC























with dual channel and built-in pressure infusor

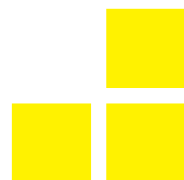
- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery
- Automatic Blood-Exsanguination
- Pressure Infusion







Application Tourniquets

| | | | |
|---------------------------------------|--|--|---|
| |  |  |  |
| Tourniquet | 8000 | 2500 2500 ELC | 2800 2800 ELC |
| Bloodless Field |  |  |  |
| I.V. Regional Anesthesia | | | |
| Bilateral Surgery | | | |
| Automatic Blood-Exsanguination | | |  |
| Pressure Infusion | | |  |

| | | | | |
|--|---|---|---|---|
|  |  |  |  |  |
| 4500 | 5000 | | 2x500 | 5800 |
| 4500 ELC | 5000 ELC | 9000 | 2x500 ELC | 5800 ELC |
|  |  |  |  |  |
|  |  |  |  |  |
| | |  |  |  |
| |  | | |  |
| |  | | |  |



Order Information Tourniquets

| Tourniquet |  Table Unit with Carrying Handle |  Table Unit with Carrying Handle, Stand and Basket |  with Universal Clamp and Protection Cover |  with Stand, Basket and Protection Cover |
|------------------|--|--|---|--|
| 8000 | 12-12-800 | 12-22-800 | — | — |
| 2500 | 15-12-500 | 15-22-500 | 15-13-500 | 15-15-500 |
| 2500 ELC | 15-12-500 ELC | 15-22-500 ELC | 15-13-500 ELC | 15-15-500 ELC |
| 2800 | 15-12-550 | 15-22-550 | 15-13-550 | 15-15-550 |
| 2800 ELC | 15-12-550 ELC | 15-22-550 ELC | 15-13-550 ELC | 15-15-550 ELC |
| 4500 | 19-12-500 | 19-22-500 | 19-13-500 | 19-15-500 |
| 4500 ELC | 19-12-500 ELC | 19-22-500 ELC | 19-13-500 ELC | 19-15-500 ELC |
| 5000 | 19-12-550 | 19-22-550 | 19-13-550 | 19-15-550 |
| 5000 ELC | 19-12-550 ELC | 19-22-550 ELC | 19-13-550 ELC | 19-15-550 ELC |
| 9000 | 13-12-900 | 13-22-900 | — | — |
| 2x500 | 11-12-550 | 11-22-550 | 11-13-550 | 11-15-550 |
| 2x500 ELC | 11-12-550 ELC | 11-22-550 ELC | 11-13-550 ELC | 11-15-550 ELC |
| 5800 | 11-12-580 | 11-22-580 | 11-13-580 | 11-15-580 |
| 5800 ELC | 11-12-580 ELC | 11-22-580 ELC | 11-13-580 ELC | 11-15-580 ELC |

Manual Tourniquets

Manometer 600 mmHg with Hand Inflator



blue coil extension tubing and positive locking connector
REF 20-18-601



red coil extension tubing and positive locking connector
REF 20-18-602

Manometer 600 mmHg with Handpump



blue coil extension tubing and positive locking connector
REF 20-19-601



red coil extension tubing and positive locking connector
REF 20-19-602

Tourniquet "Tourny I"

with stainless steel buckle

REF 20-30-000 Box 20



Tourniquet "Tourny II"

with aluminum buckle

REF 20-32-000 Box 20



Tourniquet "Tourny III"

with plastic buckle

REF 20-30-100 Box 10



Tourniquet for Child

elastic strap with velcro fastening

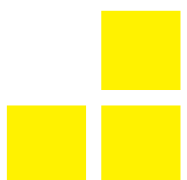
REF 20-30-005 Box 10



Tourniquet Strap

elastic strap 40cm,
25 pcs perforated on one roll

REF 20-30-400 Box 1 roll



Tourniquet Cuffs

Product details

Silicone Bladder

- Silicone material is elastic and acts as a low pressure cuff (as wider the cuff as lower the inflation pressures needed)
- Durable and high quality material
- Latex free

Cuff ties

- Provide easy cuff positioning and security
- Color coded for identification of different sizes

Contour cuffs

- Ideal for extremely conical shaped limbs

Silicone Tubing

- Kink resistant
- Never cracks
- Latex free

Positive locking connectors (PLC)

- For easy attachment and detachment
- For safe and leak-free inflation

Single Cuffs



Fabric Cuffs

- Washable and reusable
- Fixation via Velcro tape
- Bladder and fabric sleeve can be replaced



Silicone Cuffs

- Autoclavable at 134°C (273°F)
- Fixation via strap and buckle
- Easy to clean and dry quickly



Silicone/Velcro Cuffs

- Autoclavable at 134°C (273°F)
- Fixation via Velcro tape
- Velcro sleeve can be replaced
- Easy to clean and dry quickly



Disposable Cuffs

- Disposable, sterile peel pouch
- Low profile, welded cuff (no bladder)
- Eliminate risk of cross contamination

PLC Connector

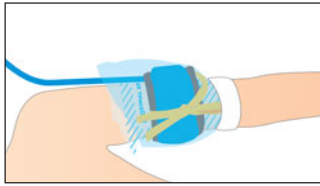
Patient,
Size

| | | | | |
|--------------------------------------|---|-----------|-----------|---------------------------|
| Infant 20 cm (8") | 20-54-700 | — | 20-64-700 | 20-34-700SLZ-1 |
| Child 30 cm (12") | 20-54-710 | 20-94-710 | 20-64-710 | 20-34-710SLZ-1 |
| Arm 35 cm (14") | 20-54-711 | 20-94-711 | 20-64-711 | 20-34-711SLZ-1 |
| Arm, lower Leg 46 cm (18") | straight 20-54-712 contour 20-54-512 | 20-94-712 | 20-64-712 | 20-34-712SLZ-1 |
| Leg 61 cm (24") | straight 20-54-722 contour 20-54-522 | 20-94-722 | 20-64-722 | 20-34-722SLZ-1 contour |
| Leg 76 cm (30") | straight 20-54-727 contour 20-54-527 | 20-94-727 | 20-64-727 | 20-34-727SLZ-1 contour |
| Leg 86 cm (34") | straight 20-54-728 contour 20-54-528 | 20-94-728 | 20-64-728 | 20-34-728SLZ-1 contour |
| Leg 107 cm (42") | 20-54-729 | 20-94-729 | 20-64-729 | 20-34-729SLZ-1 contour |

Plastic Cover

Tourniquet Cuff Protector

The plastic covers keep the cuff free from soiling and allow sealing the cuff with adhesive tape without damaging the cuff.



| REF | Size | Box |
|-----------------|-------------------|-----|
| REF 20-11-111 | small | 50 |
| REF 20-11-111-1 | ditto but sterile | 50 |
| REF 20-11-333 | medium | 50 |
| REF 20-11-333-1 | ditto but sterile | 50 |
| REF 20-11-222 | large | 50 |
| REF 20-11-222-1 | ditto but sterile | 50 |

Measuring Tape

color coded, for easy identification of patient extremity and cuff size

Box 1 REF 20-95-111

ditto but for single use
(Box of 1 block with 50 tapes)

Box 1 REF 20-95-222



Double Cuffs



Fabric Cuffs

- Washable and reusable
- Fixation via Velcro tape
- Bladder and fabric sleeve can be replaced



Silicone Cuffs

- Autoclavable at 134°C (273°F)
- Fixation via strap and buckle
- Easy to clean and dry quickly



Silicone/Velcro Cuffs

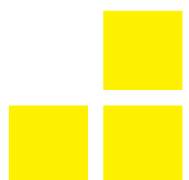
- Autoclavable at 134°C (273°F)
- Fixation via Velcro tape
- Velcro sleeve can be replaced
- Easy to clean and dry quickly



Disposable Cuffs

- Disposable, sterile peel pouch
 - Low profile, welded cuff (no bladder)
 - Eliminate risk of cross contamination
- Positive Locking Connector**

| Patient, Size | Fabric Cuffs | Silicone Cuffs | Silicone/Velcro Cuffs | Disposable Cuffs |
|----------------------------------|--------------|----------------|-----------------------|------------------|
| Infant 20 cm (8") | 20-50-700 | — | 20-60-700 | — |
| Child 30 cm (12") | 20-50-710 | 20-90-710 | 20-60-710 | 20-30-710SLZ-1 |
| Arm 35 cm (14") | 20-50-711 | 20-90-711 | 20-60-711 | — |
| Arm, lower Leg 46 cm (18") | 20-50-712 | 20-90-712 | 20-60-712 | 20-30-712SLZ-1 |
| Leg 61 cm (24") | 20-50-722 | 20-90-722 | 20-60-722 | 20-30-722SLZ-1 |
| Leg 76 cm (30") | 20-50-727 | — | 20-60-727 | — |
| Leg 86 cm (34") | 20-50-728 | — | — | — |
| Leg 107 cm (42") | 20-50-729 | — | — | — |

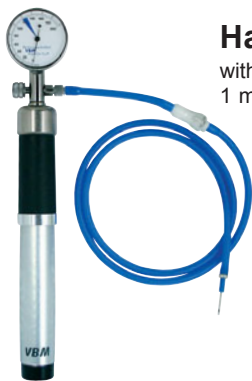


Blood Exsanguination

Roll-On Cuffs

- Exsanguinator allows fast and easy blood exsanguination within seconds (as alternative to Esmarch Bandage)
- Material: Silicone, transparent
- Reusable, autoclavable up to 134°C (273°F)
- Latex free

| Size | Color code | Patient limb | REF |
|------|------------|------------------|------------------|
| 0 | grey | 16-21 cm 6"-8" | 21-95-710 |
| 1 | white | 20-28 cm 8"-11" | 21-95-711 |
| 2 | light-blue | 26-33 cm 10"-13" | 21-95-712 |
| 3 | yellow | 31-40 cm 12"-16" | 21-95-719 |
| 4 | red | 38-49 cm 15"-19" | 21-95-722 |
| 5 | green | 47-60 cm 18"-23" | 21-95-727 |
| 6 | dark-blue | 58-70 cm 23"-28" | 21-95-729 |



Handpump
with manometer and
1 m (40") connecting tube
REF 21-95-350



Manometer
with 1 m (40") connecting tube
REF 21-95-300

Brake-Block

made of Silicone,
autoclavable up to 134°C (273°F)

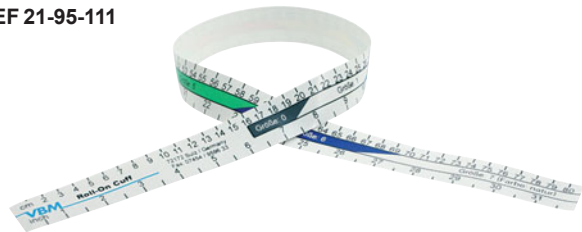
small size **REF 21-95-200**
large size **REF 21-95-201**



Measuring Tape

color coded, for easy identification
of patient extremity and cuff size

REF 21-95-111



REF 21-95-400

Roll-On Cuff Set

small sizes

complete case with Roll-On Cuff sizes 1-4, manometer with
connecting tube, tape-measure, brake-block small and large

REF 21-95-400

Roll-On Cuff Set

large sizes

complete case with Roll-On Cuff sizes 3-6, handpump with
manometer and connecting tube, tape-measure, brake-block
small and large

REF 21-95-401

Esmarch Bandages

autoclavable up to 134°C (273°F), Box 1
 latex free
 Length: 5 m (16ft.)

| Width | inch | REF |
|-------|---------------------------------|-----------|
| 6 cm | 2 ³ / ₈ " | 20-20-060 |
| 8 cm | 3 ¹ / ₈ " | 20-20-080 |
| 10 cm | 4" | 20-20-100 |
| 12 cm | 4 ³ / ₄ " | 20-20-120 |
| 15 cm | 6" | 20-20-150 |



disposable, sterile packed, Box 10
 latex free

Length: 4 m (13 ft.)

| Width | inch | REF |
|-------|---------------------------------|-------------|
| 6 cm | 2 ³ / ₈ " | 20-21-060-1 |
| 8 cm | 3 ¹ / ₈ " | 20-21-080-1 |
| 10 cm | 4" | 20-21-100-1 |
| 15 cm | 6" | 20-21-150-1 |

Length: 3 m (9.8 ft.)

| Width | inch | REF |
|-------|---------------------------------|-------------|
| 8 cm | 3 ¹ / ₈ " | 20-23-080-1 |



Three Chamber Bloodexsanguination Garment

Automatic exsanguination for use with VBM Tourniquets 2800, 5000 and 5800

Due to the Three Chamber-System the garment is inflated automatically from distal to proximal.

With the 3 position zipper the garment can be adjusted to fit different size extremities for efficient exsanguination of the patients limb. Sleeve and bladder are exchangeable and available as spare parts.



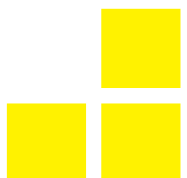
REF 20-13-341



REF 20-13-343

Three Chamber Bloodexsanguination Garment, for arm
 Three Chamber Bloodexsanguination Garment, for leg

REF 20-13-341
 REF 20-13-343



Pressure Infusors

Pressure Infusion Cuffs

Automatic Pressure Infusors

For irrigation e.g. during Arthroscopy, Laparoscopy and Hysteroscopy

Product Details

Precision Pressure Regulator

- Very precise pressure regulation
- maintains selected pressure and guarantees automatic compensation
- limits pressure to max. 300 mmHg

Protection Cover

- Protects the device from liquid and damage

Coil Tubing

- Built into Pressure Infusor
- Leak proof
- With male Luer Lock Connector

Universal Clamp

- Horizontal or vertical position for attachment to drip stand or rail

Pressure Infusor 100

with single channel

for compressed air

supplied with 4 m (13ft.) pressure hose

with universal clamp

REF 52-13-100

with stand and basket

REF 52-15-100



Pressure Infusor 200

with switch for the connection of two Pressure Infusion Cuffs

for compressed air

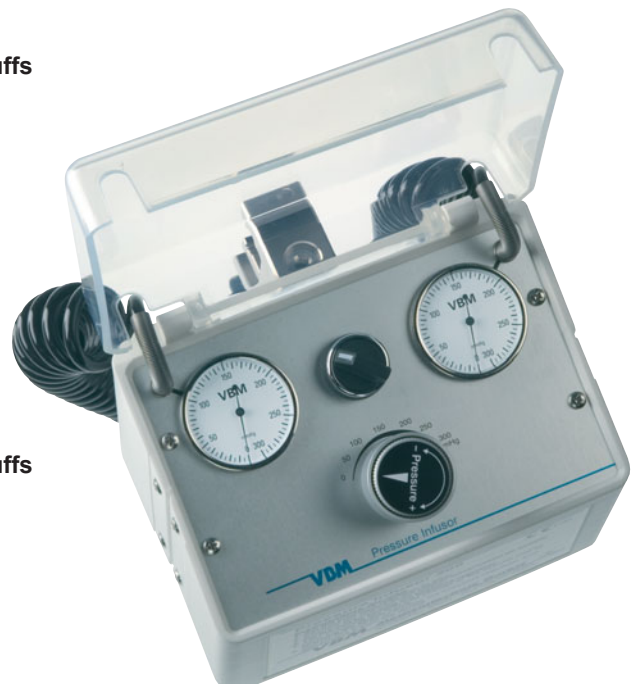
supplied with 4 m (13ft.) pressure hose

with universal clamp

REF 52-13-200

with stand and basket

REF 52-15-200



Pressure Infusor 200 ELC

with switch for the connection of two Pressure Infusion Cuffs

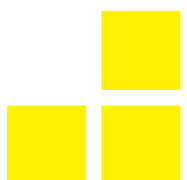
for electricity, available in 230, 110 or 100 VAC

with universal clamp

REF 52-13-200 ELC

with stand and basket

REF 52-15-200 ELC



Pressure Infusion Cuffs

500 ml and 1000 ml

Manual system for rapid pressure infusion and irrigation purposes.
Ideal for ambulances, operation rooms and intensive care stations.

500 ml

reusable

with hand inflator

with hand inflator and manometer

with hand inflator and manometer
(shock resistant precision manometer)

REF

51-05-050

51-06-050

51-08-050



REF 51-08-050



REF 57-08-050

VBM Infusor

transparent Pressure Infusion Cuffs
Wrap-Around Design, reusable

500 ml

with hand inflator and color coded pressure gauge

with manometer and hand inflator
(shock resistant precision manometer)

REF

57-02-050

57-08-050

1000 ml

pocket design with zip, reusable

with hand inflator

with hand inflator and manometer

with hand inflator and manometer
(shock resistant precision manometer)

REF

52-05-100

52-06-100

52-08-100



REF 52-08-100

1000 ml

wrap around design, reusable

with hand inflator

with hand inflator and manometer

with hand inflator and manometer
(shock resistant precision manometer)

REF

53-05-100

53-06-100

53-08-100



for single patient use

500 ml

with hand inflator and pressure indicator

with hand inflator

REF

56-02-050

56-03-050

1000 ml

with hand inflator and pressure indicator

with hand inflator

REF

56-02-100

56-03-100



VBM Infusor

transparent Pressure Infusion Cuffs
Wrap-Around Design, reusable

1000 ml

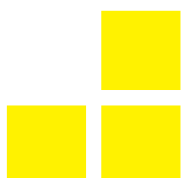
with hand inflator and color coded pressure gauge

with manometer and hand inflator
(shock resistant precision manometer)

REF

57-02-100

57-08-100



Pressure Infusion Cuffs

1500 ml, 3000 ml and 5000 ml

For irrigation purposes e.g. during Arthroscopy, Laparoscopy and Hysteroscopy

1500 ml

pocket design with zip, reusable

with female Luer Lock

with hand inflator and manometer,
(shock resistant precision manometer)

with handpump and manometer
(shock resistant precision manometer)

REF

52-01-150

52-08-150

52-30-150



3000 ml

pocket design with zip, reusable

with female Luer Lock

with hand inflator and manometer,
(shock resistant precision manometer)

with handpump and manometer,
(shock resistant precision manometer)

REF

52-01-300

52-08-300

52-30-300

5000 ml

pocket design with zip, reusable

with female Luer Lock

with hand inflator and manometer,
(shock resistant precision manometer)

with handpump and manometer,
(shock resistant precision manometer)

REF

52-01-500

52-08-500

52-30-500



Accessories for Pressure Infusion Cuffs



Manometer 300 mmHg
shock resistant
REF 34-17-300



Manometer 300 mmHg
REF 20-16-300



Manometer 300 mmHg
with hand inflator and
release valve
REF 20-18-300



Manometer 300 mmHg
with hand inflator, release valve
and male Luer Lock
REF 51-09-666



Hand Inflator
with release valve
REF 51-10-666



Handpump
with release valve and
male Luer Lock
REF 51-30-000



Foot Pump
with 2 m (79") silicone hose,
release valve and male Luer Lock
REF 51-20-000



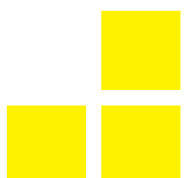
Hand Inflator
with pressure indicator, three-way
stop cock and male Luer Lock
REF 51-02-666



Hand Inflator
with three-way stop cock and
male Luer Lock
REF 51-03-666



Three-way stop cock
with two male and
one female Luer Lock
REF 51-02-000





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Germany

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