

ANESTHESIA & INFUSION

GENERAL PRODUCT CATALOGUE



www.mortonmedical.net

"One Step Ahead"

one step ahead...

Morton Medical has been started established in 1990 to design and produce medical products in İzmir, Turkey. She is involved in production and design of many disposable and reusable items used in medicinal processes like anesthesia, ventilation, reanimation and many other fields.

Having an extensive product portfolio ascending from a reputable Professional experience; Morton Medical improves product variability through adding new products and models in her portfolio each year.

Production processes which are monitored and managed according ISO 9001, ISO 13485, FDA, GMP and CE standards are executed in class 10.000 and 100.000 clean rooms in the new facility of Morton Medical, incorporating a high capacity sterilization facility. Thus Morton Medical defines continuous and sustainable quality improvement as her primary objective.

Starting from 1990 up to today Morton Medical has experienced as a constant growth with preference and appreciation of countless hospital management and health care professionals in Turkey and 78 countries around the world.

Sustaining and strengthening the brand appreciation of hospital managements, health professionals and producers served as an OEM producer is the prime foundation of strategic plans of Morton Medical.

bir adım önde...

Morton Medikal, beşeri tıbbi ürünler tasarlamak ve üretmek amacıyla, 1990 yılında İzmir de kurulmuştur. Morton Medikal, başta anestezi, ventilasyon, reanimasyon olmak üzere, birçok alanda tıbbi müdahale ve tedavi aşamalarında kullanılan tek kullanımlık/çok kullanımlık tıbbi ürün ve ekipmana ilişkin ürün geliştirmeleri, iyileştirmeler ve tasarımlar gerçekleştirmektedir.

Profesyonelleşen bir tecrübeyle imal edilmiş geniş bir ürün grubuna sahip olan Morton Medikal, her yıl yeni ürünler ve modeller geliştirerek, ürün çeşitliliğini artırmaktadır.

Yeni tesislerinde 10.000 ve 100.000 sınıf olmak üzere iki farklı TemizOda içerisinde yürütülmekte olan üretim süreçlerinin tümü ISO 9001, ISO 13485, FDA, GMP ve CE standartlarına uygun olarak üretilmekte ve izlenmekte olan Morton Medikal, kendi bünyesinde barındırdığı ve yüksek kapasiteli sterilizasyon ünitesiyle güvenilir ve sürekli bir üretim kalitesiyle hizmet vermeyi temel görev olarak belirlemektedir.

Morton Medikal 1990 yılından bugüne kadar Türkiye de ve dünyanın 78 ülkesinde birçok hastane yönetiminin tercihi ile sayısız sağlık profesyonelinin beğeni ve takdiri ile gelişmekte ve büyümektedir.

Dünyada ve ülkemizde hastanelerin, sağlık kurumlarının, sağlık profesyonellerinin ve diğer tıbbi ürün üreticilerinin kuvvetlenerek artan beğeni ve takdirleri Morton Medikalın gelecek ile ilgili tüm hedef, plan ve stratejilerinin temelini oluşturmaktadır.



"One Step Ahead"



ANESTHESIA / *ANESTEZİ*
INFUSION / *İNFÜZYON*
SUCTION / *ASPIRASYON*
OTHERS / *DİĞER ÜRÜNLER*



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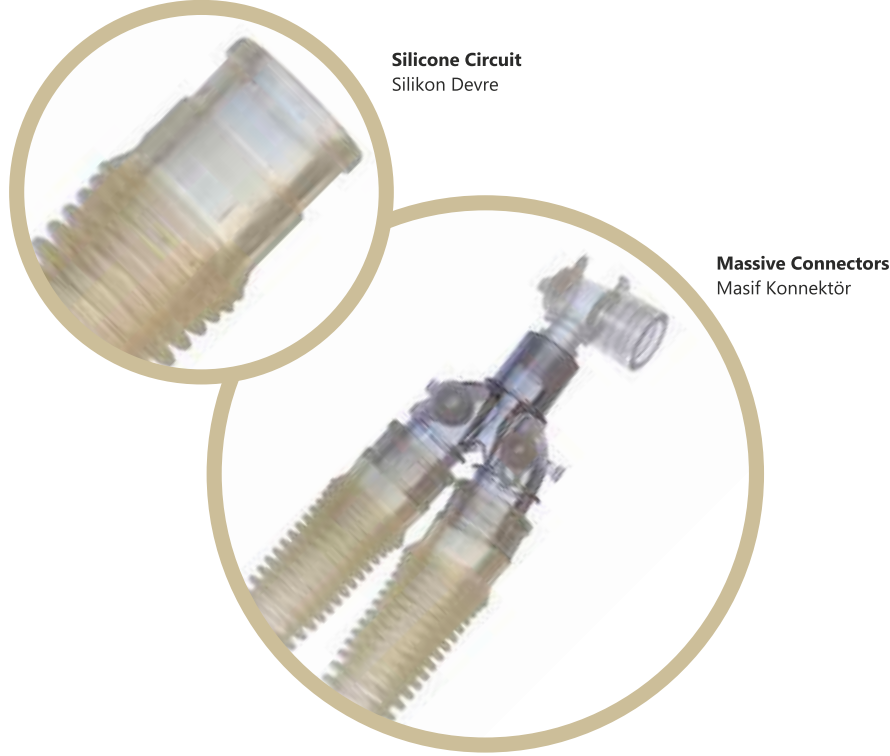
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REUSABLE SILICONE ANESTHESIA BREATHING TUBES

ÇOK KULLANIMLIK SİLİKON ANESTEZİ HORTUMLARI

Silicone Circuit
Silikon DevreMassive Connectors
Masif Konnektör

MORTON REUSABLE BREATHING CIRCUITS

The re-sterilizable Morton Reusable breathing circuits represent an **ideal alternative to reusable rubber circuits**. They are made using the same manufacturing process as the PVC circuits and thus have a smooth bore, which prevents any accumulation of condensed water, and an outer armouring helix which provides flexibility and prevents any accidental flow blockage.

The extremely flexible connectors are welded to the tube, to prevent any risk of disconnection.

Silicone circuits can be steam sterilized (**autoclaved**) at **120-134 °C without deterioration.**

Morton Reusable breathing circuits are available in both Ø 22 mm. / Ø 15 mm. / Ø 10 mm. diameter for both adult, pediatric and neonatal applications.

MORTON ÇOK KULLANIMLIK
SOLUNUM DEVRELERİ

Morton, tekrar steril edilebilen **çok kullanımlık solunum devreleri kauçuk devrelere alternatif bir seçenektir.** PVC devrelerin üretim süreciyle aynıdır. Bu sayede iç yüzeyde yoğunlaşmış su birikimini önleyen düz bir yapıya sahipken, dışta ise herhangi bir akışı bloke etmeyi önleyen ve esnek bir yapıya sahip olan izole edilmiş helezon bir yapıdan oluşmaktadır.

Son derece esnek yapıdaki konnektörler bağlantı kopma riskini önlemek için hortuma kaynatılmıştır.

Morton çok kullanımlık Solunum Devreleri **120-134°C arasında herhangi bir bozulma olmadan buhar sterilizasyonunda (otoklavda) steril edilebilmektedir.**

Morton çok kullanımlık solunum devrelerini yetişkin, pediatrik ve yenidoğan uygulamaları için Ø 22 mm. / Ø 15 mm. / Ø 10 mm. çapında modelleri mevcuttur.

DISPOSABLE POLYETHYLENE CORRUGATED BREATHING CIRCUITS

TEK KULLANIMLIK POLİETİLEN SOLUNUM DEVRELERİ



When the need arises for a **lightweight and economical system**, Morton polyethylene (PE) breathing circuit is the solution. The system's light weight is very important because it **reduces the risk of trauma to the patient** resulting from the weight of the circuit pulling on the patient connections.

These circuits are made of corrugated polyethylene. The connectors are directly welded to the tube to **ensure gas tight connections and prevent leakage**.

Various standart configurations are available for anesthesia; CPAP and IPPB; others can be made to order. Polyethylene circuits are available in 22 mm, 15 mm, 10 mm diameter. The breathing circuits come clean-packed, but can be produced sterile upon customer's request.

The PE breathing circuits are available in three different diameters.

Adult: 22 mm • Pediatric: 15 mm • Neonatal: 10 mm

Hafif ve ekonomik bir sisteme ihtiyaç duyulduğunda bunun en iyi çözümü Morton polietilen solunum devresidir. Bu sistemin hafif bir yapıya sahip olması çok önemlidir. Çünkü hastaya bağlanan tarafın hafif bir yapıya sahip olması hastada oluşabilecek **travma riskini azaltmaktadır**.

Bu devreler oluklu polietilenden üretilmektedir. Konnektörler **doğru gaz akışı ve sızmayı önlemek amacıyla** hortuma direkt olarak kaynatılmıştır.

Anestezi , CPAP ve IPPB için bir çok standart modeli mevcuttur ; diğerleri siparişe göre yapılmaktadır. Polietilen devreler 22 mm, 15 mm, 10 mm çapındadır. Solunum devreleri temiz odalarda paketlenmektedir. İstenildiğinde steril olarak da üretilmektedir.

PE Solunum devreleri üç farklı çapta üretilmektedir:

Yetişkin: 22 mm • Pediatric: 15 mm • Yenidoğan: 10 mm

DISPOSABLE EXTENDIBLE BREATHING CIRCUITS

TEK KULLANIMLIK UZAYABİLEN SOLUNUM DEVRELERİ



Morton extendible breathing circuits are made of polypropylene (PP). **Extendibility** is their distinguishing feature

- **Up to three times their packed length.**

This means that Morton extendible breathing circuits are especially suitable for **overcoming space problems**; even circuits of considerable length require very **little storage room**. Another advantageous feature of the Morton extendible tubes is the **"memory"**; the circuit can be set up in the most convenient way for the operator and due to the memory of this type of plastic material, the system will **maintain the position set** for as long as required.

Thanks to this special adaptability and **intrinsic light weight**, with the Morton extendible breathing circuits, there is no risk of undesired pulling on the patient intubation system. Morton extendible breathing circuits are available in adult size (Ø 22mm.) Morton extendible breathing circuits come in clean-packed version, but can be produced sterile upon customer's request.

The Extendible breathing circuits are available in two different diameters.

Adult 22 mm • Pediatric 15 mm

Morton Uzayabilen Solunum Devreleri polipropilenden imal edilmektedir. En önemli özelliği **uzayabiliyor** olmasıdır. Ürün, kullanım aşamasında paket ölçüsünün **3 katına kadar uzayabilmektedir. Bu, depolama aşamasında önemli bir avantaj sağlar.**

Çok uzun olan devreler bile çok az yer tutar. Morton Uzayabilen Solunum Devresinin diğer bir avantajı da **"hafıza"** sıdır; operasyon için gerekli şekli ve pozisyonu verdiğiniz devre özel içeriği sayesinde çok uzun süre **aynı şekilde kalır**. Morton Uzayabilen Solunum Devreleri, **ergonomik yapısı** ve **hafifliği** ile hastanın istemeden veya farkında olmadan yaptığı herhangi bir hareketten dolayı, entübasyon sisteminden kopma riskini en aza indirir.

Morton Uzayabilen Solunum Devrelerinin (Ø 22mm - 15mm) modelleri mevcuttur. Morton Uzayabilen Solunum Devreleri temiz odalarda paketlenmektedir. Talebe göre steril olarak da üretilmektedir.

Uzayabilen solunum devreleri iki farklı çapta üretilmektedir.

Yetişkin: 22 mm • Pediatrik: 15 mm

MORTON PVC BREATHING CIRCUITS

MORTON PVC SOLUNUM DEVRELERİ

MORTON PVC breathing circuits are made of medical-grade material. The tube is reinforced by an external helix, whilst **the inner surface is smooth**. This offers several advantages to the system;



- The tube is extremely **flexible**.
- The tube is totally **crush-proof** thereby eliminating any risk of ventilation being interrupted.
- Tube **diameter is constant**, whatever the curvature radius of the circuit.
- The smooth bore prevents condensation build-up which **reduces bacterial growth**.
- The tube is **totally transparent**, so the circuit can be constantly monitored.
- The tube features **soft flexible connectors** that ensure a perfect seal.

Morton PVC Solunum devreleri medical grade hammaddesinden imal edilmektedir. Hortumun iç yüzeyi düz bir yapıya sahipken dış yüzeyi helezon bir yapıyla kuvvetlendirilmiştir. Bu özel yapı sisteme bir çok olanak tanımaktadır;

- Hortum son derece **esnektir**.
- Hortum bütünüyle **ezilmeye dayanıklıdır**. Bundan dolayı ventilasyonun yarıda kesilme olasılığı ortadan kalkmaktadır.
- Devrelerin bükülme yarıçapı ne olursa olsun **hortumun çapı değişmez**.
- İçinin **düz bir yapıya sahip olması** bakterilerin bir yerde toplanarak birikmesini engeller.
- Hortum **tamamen şeffaftır**. Böylece devre sürekli olarak izlenebilir.
- **Yumuşak esnek yapıdaki konnektörler** cihaza kolaylıkla bağlantı sağlar.

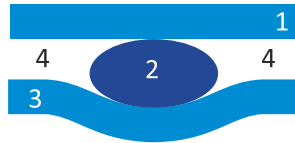


The PVC breathing circuits are available in three different diameters:
Adult 22mm • Pediatric 15mm • Neonatal 10mm

PVC Solunum devreleri üç farklı çapta üretilmektedir:
Yetişkin 22mm • Pediatrik 15mm • Yenidoğan 10mm

The PVC breathing circuits are single use and are supplied in individual packs.

1. SMOOTH BORE INTERNAL SURFACE
2. ARMOURING SPIRAL
3. EXTERNAL WALL
4. INSULATING AIR SPACE



PVC Solunum devreleri tekli paketlerde ve tek kullanımlıktır.

1. İÇ YÜZEYİ DÜZ YAPIDADIR.
2. KORUYUCU SPİRAL
3. DIŞ CEPHE
4. YALITILMIŞ HAVA BOŞLUĞU



The PVC breathing circuits can also be insulated. This means that the external spiral is coated with a further layer of plastics material which forms an insulating air cavity. This type of circuit is ideal when the temperature of the gas inside the circuit has to be kept constant. Available in the **Adult model Ø22 mm. Pediatric model Ø15 mm. and Infant model Ø10 mm.**

PVC Solunum devresi dış spiral hava boşluğunu izole etmeye yardımcı olan daha kalın bir plastik maddeyle kaplanmıştır. Bu tip devreler belli bir seviyede olan gazın sürekli devre içinde tutulması gereken durumlarda idealdir.

Yetişkin Ø22 mm. , Pediatrik Ø 15 mm. ve Yenidoğan Ø10 mm. modelleri mevcuttur.



Technical Properties

We are manufacturing %100 all components and products by ourselves. We are packaging our products in the 10.000 & 100.000 class cleanrooms.

It is non-sterile product. We are producing as sterile also when it is demanded. Our products don't include any LATEX, DEHP material.

Please turn the page for technical details and properties of circuits.

PS:

All type of circuits (Silicone, Extendible, PE Corrugated, PVC Smoothbore) have same properties with MN 100 series. Please select your required size from MN 100 series.

Teknik Özellikler

10.000 ve 100.000 sınıf Clean Room (Temiz oda) da paketlenmiş üstün nitelikli bir anestezi devresidir.

Non steril olarak üretilen ürünümüz istenildiğinde steril olarak da üretilmektedir.

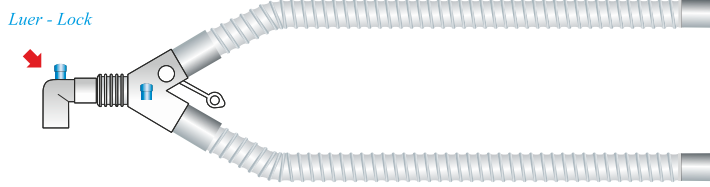
Teknik detay ve özellikler arka sayfada gösterilmektedir. Ürünlerimizde LATEX, DEHP içeren hiçbir mamül madde ve yardımcı madde bulunmamaktadır.

NOT:

Bütün devreler (Silikon, Uzayabilen, PE Corrugated, PVC Smoothbore) MN 100 serisi ile aynı özelliklere sahiptir. Lütfen siparişlerinizde MN 100 serisindeki kod numaralarının önüne istemiş olduğunuz hortum modelinin cinsini belirtiniz.

■ Anesthesia Circuit

Anestezi Devresi



Adult | Yetişkin

MN 100-01 • 1.00 m.
MN 100-02 • 1.20 m.
MN 100-03 • 1.50 m.
MN 100-04 • 1.80 m.

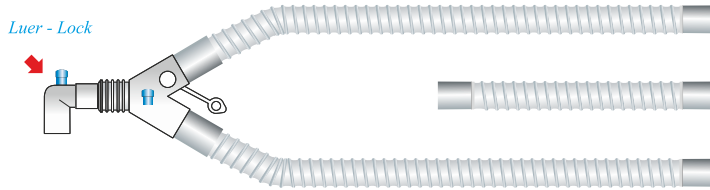
Pediatric | Pediatrik

MN 101-01 • 1.00 m.
MN 101-02 • 1.20 m.
MN 101-03 • 1.50 m.
MN 101-04 • 1.80 m.

2 pcs.tubing, Elbow connector with luer lock port,
Wye connector with port
2 adet hortum, luer lock portlu Elbow konnektör,
portlu Y Konnektör

■ Anesthesia Circuit with 120 cm. extra limb

Anestezi Devresi 120 cm. ara uzatmalı



Adult | Yetişkin

MN 100-06 • 1.00 m.
MN 100-07 • 1.20 m.
MN 100-08 • 1.50 m.
MN 100-09 • 1.80 m.

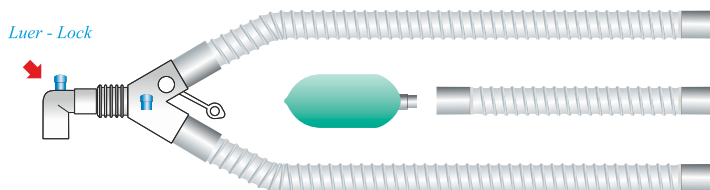
Pediatric | Pediatrik

MN 101-06 • 1.00 m.
MN 101-07 • 1.20 m.
MN 101-08 • 1.50 m.
MN 101-09 • 1.80 m.

2 pcs. tubing, Elbow connector with luer lock port,
Wye connector with port, 120 cm extra limb
2 adet hortum, luer lock portlu Elbow Konnektör,
portlu Y Konnektör 120 cm ara uzatma

■ Anesthesia Circuit with 120 cm. extra limb & Rebreathingbag

Anestezi Devresi 120 cm. ara uzatmalı ve Balonlu



Adult | Yetişkin

MN 100-11 • 1.00 m.
MN 100-12 • 1.20 m.
MN 100-13 • 1.50 m.
MN 100-14 • 1.80 m.

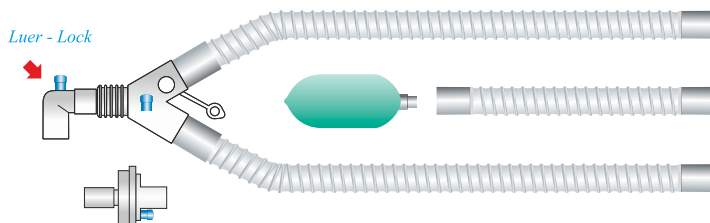
Pediatric | Pediatrik

MN 101-11 • 1.00 m.
MN 101-12 • 1.20 m.
MN 101-13 • 1.50 m.
MN 101-14 • 1.80 m.

2 pcs. tubing, Elbow connector with luer lock port,
Wye connector with port, 120 cm extra limb
and Rebreathingbag
2 adet hortum, luer lock portlu Elbow Konnektör,
portlu Y Konnektör 120 cm ara uzatmalı ve balonlu

■ Anesthesia Circuit with 120 cm. extra limb, Rebreathingbag & Filter

Anestezi Devresi 120 cm. ara uzatmalı, Balonlu ve Filtreli



Adult | Yetişkin

MN 100-16 • 1.00 m.
MN 100-17 • 1.20 m.
MN 100-18 • 1.50 m.
MN 100-19 • 1.80 m.

Pediatric | Pediatrik

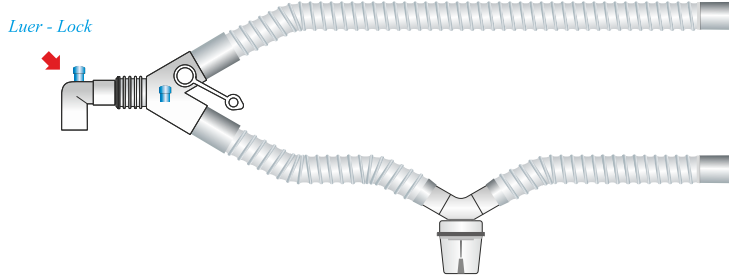
MN 101-16 • 1.00 m.
MN 101-17 • 1.20 m.
MN 101-18 • 1.50 m.
MN 101-19 • 1.80 m.

2 pcs. tubing, Elbow connector with luer lock port,
Wye connector with port, 120 cm extra limb and
Rebreathingbag and Filter
2 adet hortum, luer lock portlu Elbow Konnektör,
portlu Y Konnektör 120 cm ara uzatmalı, balonlu ve bakteri filtreli

MN 100 serisi devrelerin hepsi (Silikon, PE Corrugated, PVC Smoothbore, PP Uzakabilen) aynı özelliklere sahiptir. Lütfen sipariş verirken, MN 100 serisindeki kod numaralarının önüne, istemiş olduğunuz hortum modelinin cinsini de yazınız.

Anesthesia Circuit with one water trap

Anestezi Devresi Tek su tutuculu



Adult | Yetişkin

MN 102-01 • 1.00 m.
MN 102-02 • 1.20 m.
MN 102-03 • 1.50 m.
MN 102-04 • 1.80 m.

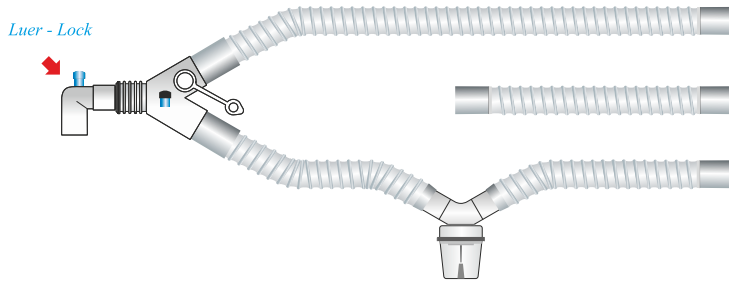
Pediatric | Pediatrik

MN 103-01 • 1.00 m.
MN 103-02 • 1.20 m.
MN 103-03 • 1.50 m.
MN 103-04 • 1.80 m.

2 pcs. tubing, One water trap, Elbow connector with luer lock port, Wye connector with port
2 adet hortum, 1 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör

Anesthesia Circuit with one water trap and 120 cm. extra limb

Anestezi Devresi Tek su tutuculu ve 120 cm. ara uzatmalı



Adult | Yetişkin

MN 102-06 • 1.00 m.
MN 102-07 • 1.20 m.
MN 102-08 • 1.50 m.
MN 102-09 • 1.80 m.

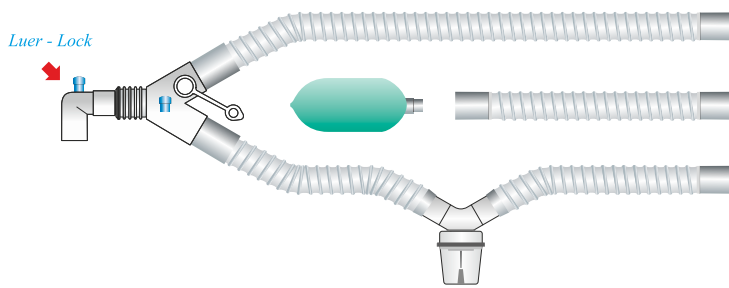
Pediatric | Pediatrik

MN 103-06 • 1.00 m.
MN 103-07 • 1.20 m.
MN 103-08 • 1.50 m.
MN 103-09 • 1.80 m.

2 pcs. tubing, One water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm extra limb
2 adet hortum, 1 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm ara uzatma

Anesthesia Circuit with one water trap, 120 cm. extra limb & Rebreathingbag

Anestezi Devresi Tek su tutuculu, 120 cm. ara uzatmalı ve Balonlu



Adult | Yetişkin

MN 102-11 • 1.00 m.
MN 102-12 • 1.20 m.
MN 102-13 • 1.50 m.
MN 102-14 • 1.80 m.

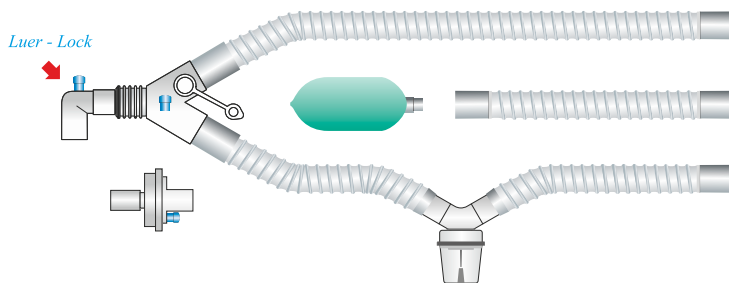
Pediatric | Pediatrik

MN 103-11 • 1.00 m.
MN 103-12 • 1.20 m.
MN 103-13 • 1.50 m.
MN 103-14 • 1.80 m.

2 pcs. tubing, One water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm extra limb and Rebreathingbag
2 adet hortum, 1 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm ara uzatmalı ve balonlu

Anesthesia Circuit with one water trap, 120 cm. extra limb, Rebreathingbag & Filter

Anestezi Devresi Tek su tutuculu 120 cm. ara uzatmalı, Balonlu ve Filtreli



Adult | Yetişkin

MN 102-16 • 1.00 m.
MN 102-17 • 1.20 m.
MN 102-18 • 1.50 m.
MN 102-19 • 1.80 m.

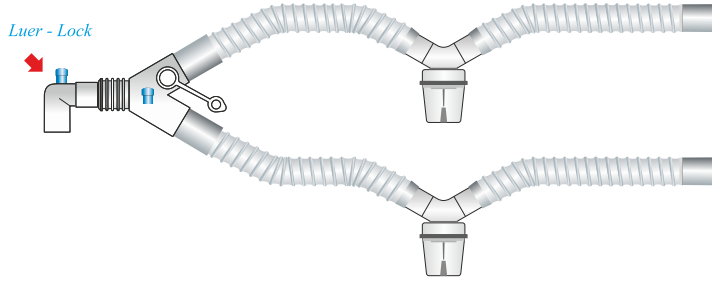
Pediatric | Pediatrik

MN 103-16 • 1.00 m.
MN 103-17 • 1.20 m.
MN 103-18 • 1.50 m.
MN 103-19 • 1.80 m.

2 pcs. tubing, One water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm extra limb and Rebreathingbag and Filter
2 adet hortum, 1 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm ara uzatmalı, balon ve bakteri filtresi

■ Anesthesia Circuit with two water trap

Anestezi Devresi Çift su tutuculu



Adult | Yetişkin

MN 104-01 • 1.00 m.
MN 104-02 • 1.20 m.
MN 104-03 • 1.50 m.
MN 104-04 • 1.80 m.

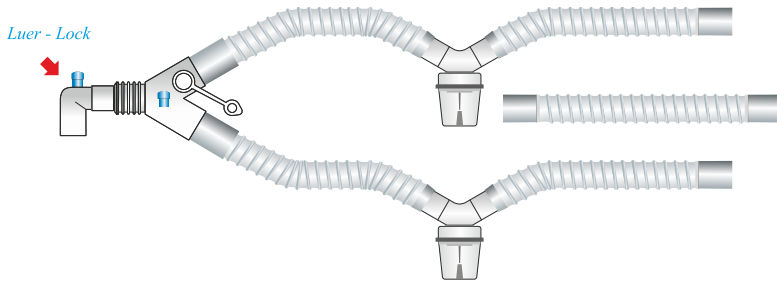
Pediatric | Pediatrik

MN 105-01 • 1.00 m.
MN 105-02 • 1.20 m.
MN 105-03 • 1.50 m.
MN 105-04 • 1.80 m.

2 pcs. tubing, Two water trap, Elbow connector with luer lock port, Wye connector with port
2 adet hortum, 2 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör

■ Anesthesia Circuit with two water trap & 120 cm. extra limb

Anestezi Devresi Çift su tutuculu ve 120 cm. ara uzatmalı



Adult | Yetişkin

MN 104-06 • 1.00 m.
MN 104-07 • 1.20 m.
MN 104-08 • 1.50 m.
MN 104-09 • 1.80 m.

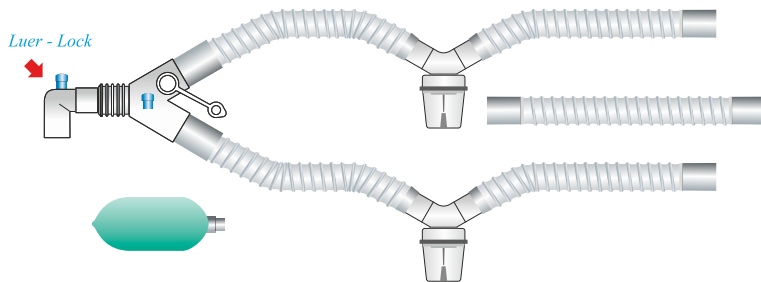
Pediatric | Pediatrik

MN 105-06 • 1.00 m.
MN 105-07 • 1.20 m.
MN 105-08 • 1.50 m.
MN 105-09 • 1.80 m.

2 pcs. PVC Smoothbore tubing, Two water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm extra limb
2 adet hortum, 2 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm. ara uzatmalı

■ Anesthesia Circuit with two water trap, 120 cm. extra limb & Rebreathingbag

Anestezi Devresi Çift su tutuculu, 120 cm. ara uzatmalı ve Balonlu



Adult | Yetişkin

MN 104-11 • 1.00 m.
MN 104-12 • 1.20 m.
MN 104-13 • 1.50 m.
MN 104-14 • 1.80 m.

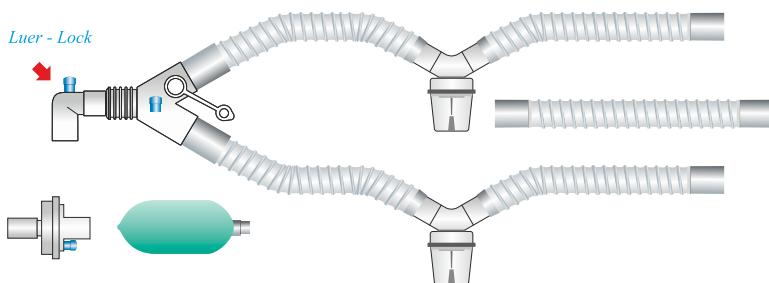
Pediatric | Pediatrik

MN 105-11 • 1.00 m.
MN 105-12 • 1.20 m.
MN 105-13 • 1.50 m.
MN 105-14 • 1.80 m.

2 pcs. tubing, Two water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm. extra limb and Rebreathingbag
2 adet hortum, 2 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm. ara uzatmalı ve balonlu

■ Anesthesia Circuit with two water trap, 120 cm. extra limb, Rebreathingbag & Filter

Anestezi Devresi Çift Su Tutuculu 120 cm. ara uzatmalı, Balonlu ve Filtreli



Adult | Yetişkin

MN 104-16 • 1.00 m.
MN 104-17 • 1.20 m.
MN 104-18 • 1.50 m.
MN 104-19 • 1.80 m.

Pediatric | Pediatrik

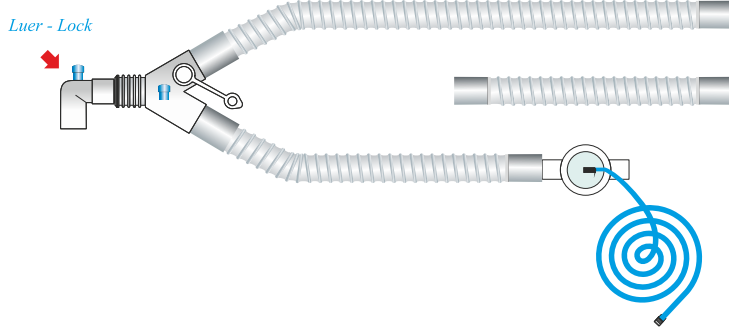
MN 105-16 • 1.00 m.
MN 105-17 • 1.20 m.
MN 105-18 • 1.50 m.
MN 105-19 • 1.80 m.

2 pcs. tubing, Two water trap, Elbow connector with luer lock port, Wye connector with port, 120 cm. extra limb and Rebreathingbag and Filter
2 adet hortum, 2 adet su tutucu, luer lock portlu Elbow Konnektör, portlu Y Konnektör, 120 cm. ara uzatmalı, balon ve bakteri filtresi

MN 100 serisi devrelerin hepsi (Silikon, PE Corrugated, PVC Smoothbore, PP Uzayabilen) aynı özelliklere sahiptir. Lütfen sipariş verirken, MN 100 serisindeki kod numaralarının önüne, istemiş olduğunuz hortum modelinin cinsini de yazınız.

■ MN 106 Transport Circuit

Transport Devresi



Adult | Yetişkin

MN 106-01 • 1.50 m.
MN 106-02 • 1.80 m.

Pediatric | Pediatrik

MN 106-03 • 1.50 m.
MN 106-04 • 1.80 m.

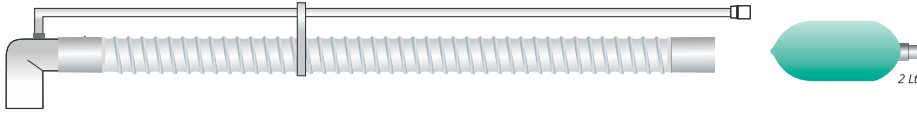
Neonatal | Yenidoğan

MN 106-05 • 1.50 m.
MN 106-06 • 1.80 m.

**Tube Length: 1,50 m.,
120 cm extra limb,
Exhalation Valve
with Proximal Line 1,6 m.
Hortum 1,5 m.
120 cm ara uzatma,
Ekshalasyon Valfli
Proksimal Hat 1,6 m.**

■ MN 107 Single Limb Non Rebreathing System

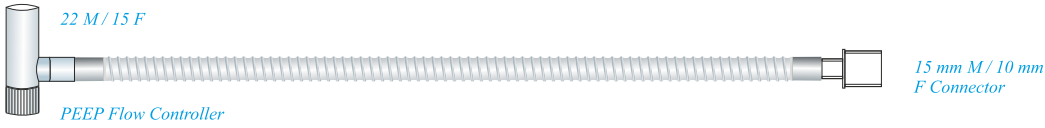
Tek Hortumlu Geri Solumasız Sistem



**22 mm. 1 pcs. PVC Smoothbore tubing,
22 mm. connectors,
Elbow connector with luer lock port,
Pressure Line and rebreathing
22 mm. 1 adet PVC Smoothbore hortum,
22 mm. Konnektörler,
luer lock portlu Elbow Konnektör,
Basınç hattı ve balon**

■ MN 108 Infant T - Piece Resuscitation Circuit

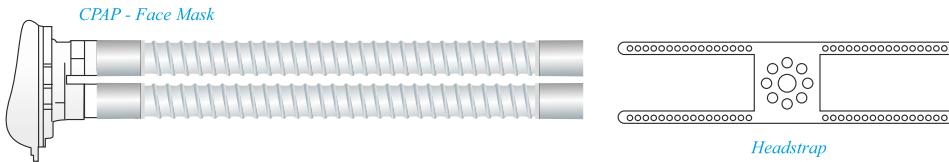
Yenidoğan T - Parçalı Suni Solunum Devresi



**Tube Length: 1,20 m.
(Demand on your request)
Hortum 1,2 m.
(İstenilen uzunlukta üretilebilir)**

■ MN 109 CPAP Circuit For Non-Invasive Ventilation

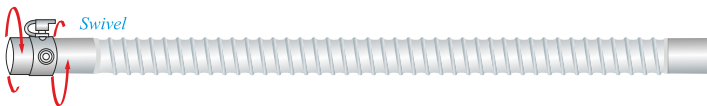
Non-Invasive Ventilasyon için CPAP Devresi



**22 mm. 2 pcs.
PVC Smoothbore tubing,
22 mm. connectors,
CPAP Mask and Headstrap
22 mm. 2 adet
PVC Smoothbore hortum,
22 mm. Konnektörler,
CPAP Maske ve kafabandi**

■ MN 110 Passive Circuit

Pasif Devre



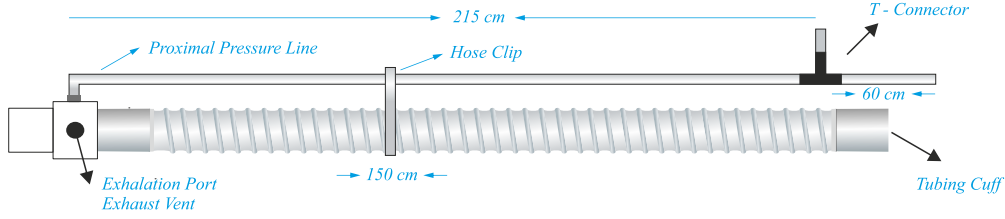
**Tube Length: 1,50 m.,
Passive Exhalation Port
Hortum 1,5 m.,
Pasif Ekshalasyon Portu**

All type of circuits (Silicone, PE Corrugated, PVC Smoothbore, PP Extendible) have same properties with MN 100 series.
Please select your required size from MN 100 series and inform us name of tube material.



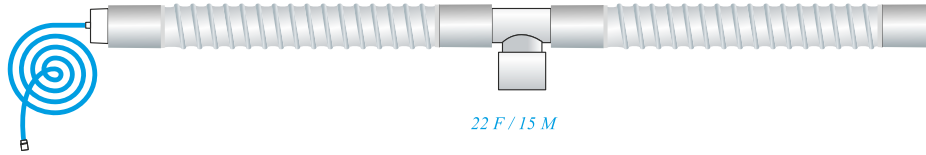
■ **MN 111 BPAP Circuit**
BPAP Devresi

i Adaptable with Respironics
BiPAP® Vision and S/T-D



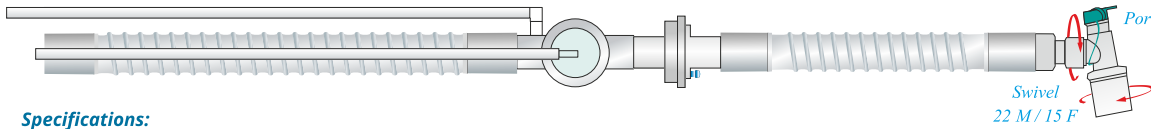
**22 mm. 1 pcs. PVC Smoothbore tubing ,
22 mm. connectors,
Pressure Line, Exhalation Port 22 mm.**
1 adet PVC Smoothbore hortum,
22 mm. Konektörler,
Basınç hattı ve Ekshalasyon Portu

■ **MN 112 T Circuit**
T Devresi



**22 mm. 1 pcs. PVC Smoothbore tubing,
22 mm. connectors, Pressure Line,
T Piece 22 mm.**
1 adet PVC Smoothbore hortum,
22 mm. Konektörler,
Basınç hattı, T parça

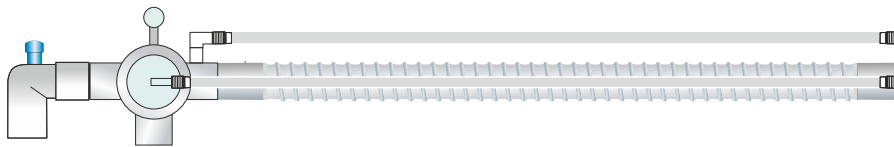
■ **MN 113 IPPB CIRCUITS**
IPPB Devresi



Specifications:

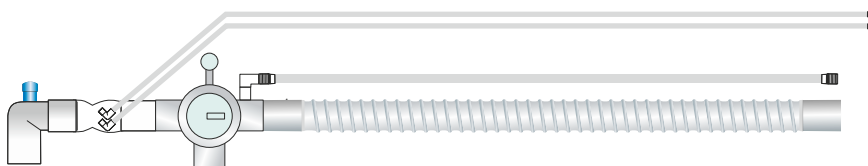
- PVC smooth bore tubing 150 cm, with 22F connector for machine end.
- Polypropylene manifold with 22 mm for the connection of patient and machine, 4 mm and 6 mm elbow port for control line.
- PVC catheter mount tubing 15 cm, PP swivel elbow 22/15 mm for patient port, 22F for tubing, and suction port with PVC cap.
- 2 pcs. PVC control line 200 cm, natural color.
- HME filter

■ **MN 190 Active Circuit**
Aktif Solunum Devresi



**Tube Length: 1,50 m., Exhalation Valve
with Exhalation Valve Line 1,6 m.,
Proximal Pressure Line 1,60 m.,**
Hortum 1,5 m., 1,60 m. Ekshalasyon hatlı
Ekshalasyon Valfli,
Proksimal Basınç Hattı 1,6 m.

■ **MN 191 Active Circuit with Flow Sensor**
Akış Sensörlü Aktif Solunum Devresi

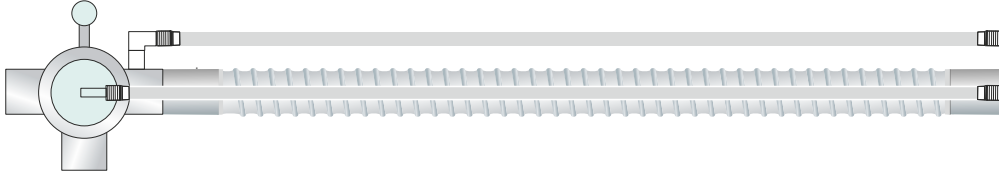


**Tube Length: 1,50 m., Exhalation Valve
with Exhalation Valve Line 1,6 m.,
Flow sensor with 2 pcs Flow Lines**
Hortum 1,5 m., 1,60 m. Ekshalasyon hatlı
Ekshalasyon Valfli, 2 adet Akış Hatlı Akış Sensörü

MN 100 serisi devrelerin hepsi (Silikon, PE Corrugated, PVC Smoothbore, PP Uzayabilen) aynı özelliklere sahiptir. Lütfen sipariş verirken, MN 100 serisindeki kod numaralarının önüne, istemiş olduğunuz hortum modelinin cinsini de yazınız.

■ MN 192 Breathing Circuit with Exhalation Valve

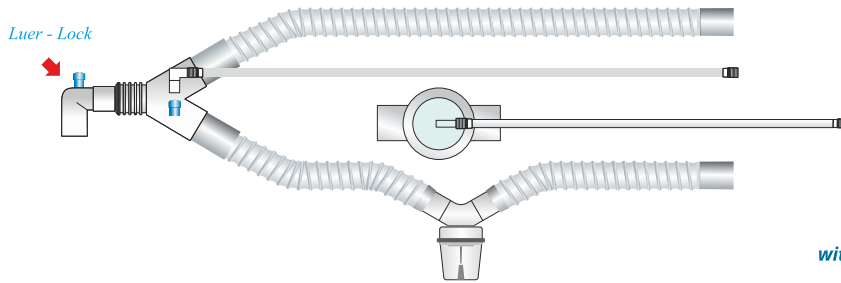
Ekshalasyon Valfli Solunum Devresi



Tube Length: 1,50 m., Exhalation Valve with Exhalation Valve Line 1,6 m., Proximal Pressure Line 1,60 m.
Hortum 1,5 m., 1,60 m. Ekshalasyon hatlı Ekshalasyon Valfli, Proksimal Basınç Hattı 1,6 m.

■ MN 193 Breathing Circuit with one water trap & Exhalation Valve

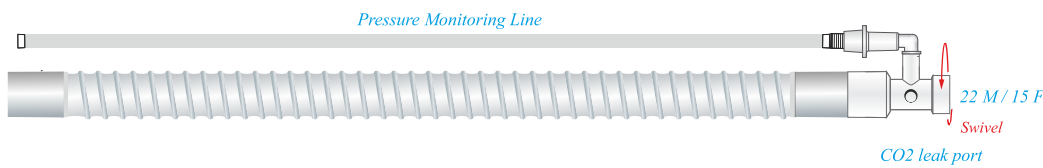
Ekshalasyon Valfli, Tek Su Tutuculu Solunum Devresi



Tube Length: 1,50 m., with one water trap, Exhalation Valve with Exhalation Valve Line 1,6 m., Proximal Pressure Line 1,60 m.
Hortum 1,5 m., tek su tutuculu 1,60 m. Ekshalasyon hatlı Ekshalasyon Valfli, Proksimal Basınç Hattı 1,6 m.

■ MN 194 Bilevel Breathing Circuit

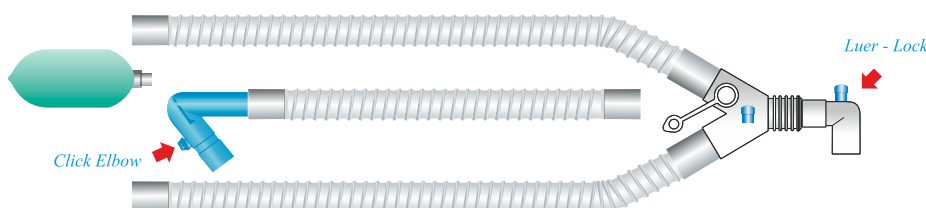
Bilevel Solunum Devresi



Tube Length: 1,50 m., Smoothbore tube with swivel connector, CO2 leak port & Pressure Monitoring Line 1,60 m.
Hortum 1,5 m., Döner CO2 portlu konnektör, proksimal izleme hattı 1,60 m.

■ MN 195 Breathing Circuit for Advanced Breathing Systems

Solunum Devresi (ABS uyumlu)



Tube Length: 1,60 m., 2 Lt Rebreathingbag, 1.60 m. extra limb with click elbow
Hortum 1,6 m., 2 Lt. Balon, 1,60 m. ara uzatma hortumu click elbow konektörlü

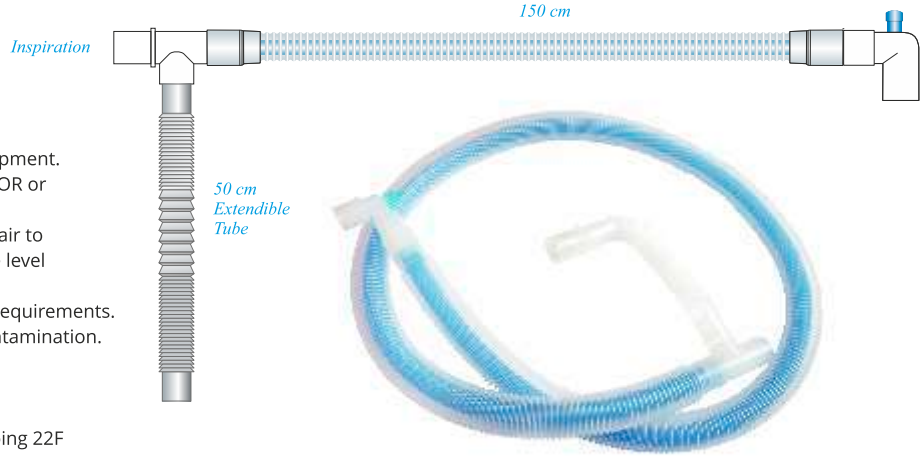
■ MN 120 Coaxial Circuit

Coaxial Devre

Features:

1. Compact design for ventilator and anesthesia equipment.
2. The circuit can be transferred to the ventilator in POR or ICU during the anesthesia process.
3. Coaxial tubing utilizes the temperature of exhaled air to increase and maintain the temperature and moisture level of the air to be inhaled in the interior tubing (blue).
4. Materials conform to ISO-10993 bio-compatibility requirements.
5. Single-patient use to minimize the risk of cross-contamination.
6. Optional bacterial filter is available upon request.

Specification: EVA corrugate tubing or 150cm with patient connector 22/15mm. T Piece EVA foldable tubing 22F

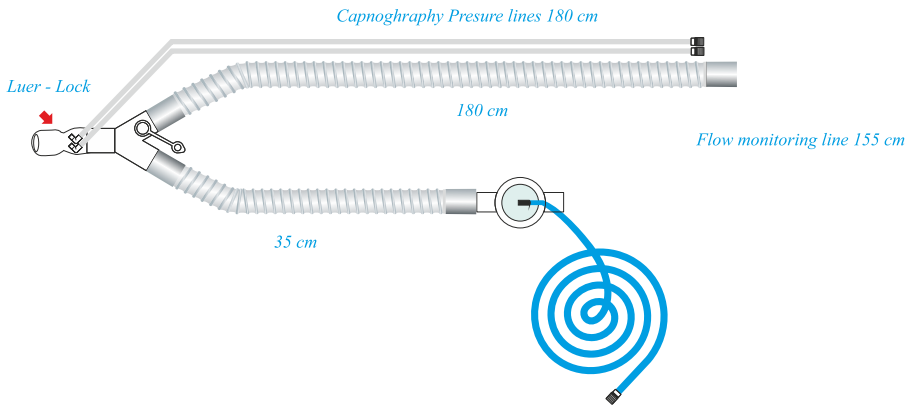


Also MN 208 Gas Sample Line & MN 124 Disposable Rebreathingbags are available upon request.

Devreyle birlikte, isteğe bağlı olarak MN 208 Gas Sample Line & MN 124 Tek kullanımlık Anestezi Balonu temin edilir.

■ MN 121 Exhalation Circuit

Ekshalasyon Devresi



Features:

1. Exhalation circuit is intended for use with critical care, transport or home care patients who weigh 10 kg or more.
2. The circuit incorporates a fixed orifice differential pressure transducer at the patient wye and requires a one-way valve within the inspiratory limb.
3. Flow delivery was smooth and the demand valve very accommodating, allowing flow rates up to 180 LPM for spontaneous breaths.
4. Sufficient flow and pressure to adequately handle a diverse range of patients and ventilation requirements.

Specifications:

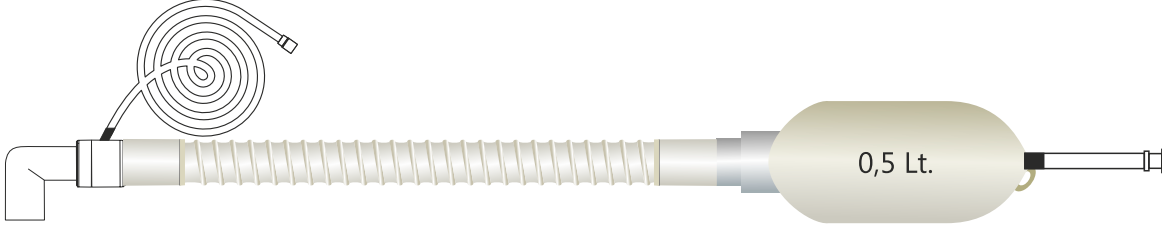
1. Disposable PVC smoothbore tubing 180 cm and 35 cm, 22F
2. Exhalation valve one way.
3. Wye Flow connector.
4. 2 pieces capnography pressure lines 180 cm, natural color.
5. 1 pieces flow monitoring line 155 cm, blue color.



JACKSON REES SYSTEM

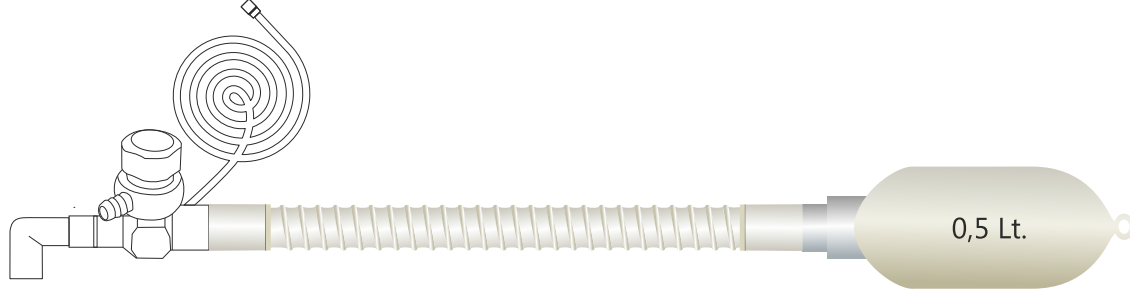
Autoclavable up to 134 °C
134 °C otoklava dayanıklı

■ **MN 114 Jackson Rees System 1**
Jackson Rees Sistem 1



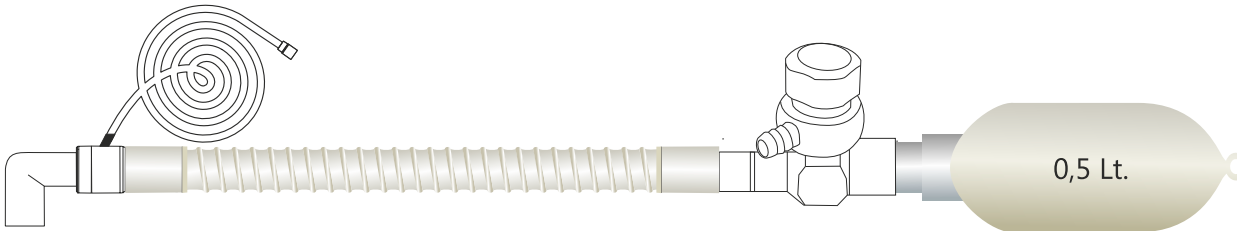
Silicone Rebreathing Bag 500 ml, with open tube connection and cap, Connector 22 mm OD to 22 mm OD, 25 cm Silicone Tube T-Connector, Right Angled Swivel Connector, Connector 22 mm ID, O2 Tubing made of Silicone Length: 1.80 m
Açık hortum bağlantısı ve kapağı lile birlikte Silikon Balon (500 ml), Diş çapı 22 mm Konnektör, 25 cm Silikon anestezi hortumu, T konnektör, Elbow Konnektör (Dönebilen başlıklı) Silikon oksijen hortumu 1.80 m.

■ **MN 115 Jackson Rees System 2**
Jackson Rees Sistem 2



Silicone Rebreathing Bag 500 ml, Connector 22 mm OD, Jackson Rees valve, 25 cm Silicone Tube, Right Angled Swivel Connector, Connector 22 mm ID, O2 Tubing made of Silicone Length: 1.80 m
Silikon Balon (500 ml), Dış Çapı 22 mm Konnektör, Jackson Rees valf, 25 cm Silikon anestezi hortumu, Elbow Konnektör (Dönebilen Başlıklı) Silikon oksijen hortumu 1.80 m.

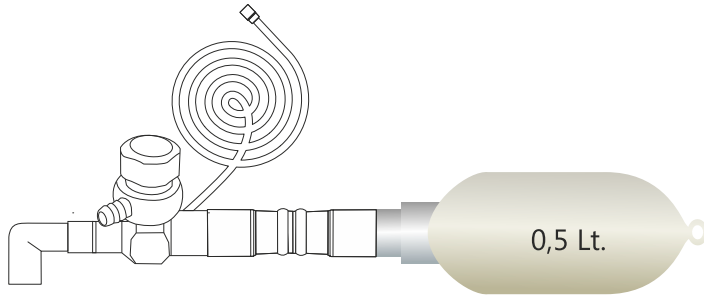
■ **MN 116 Jackson Rees System 3**
Jackson Rees Sistem 3



Silicone Rebreathing Bag 500 ml, Connector 22 mm OD, Jackson Rees valve, T connector, 25 cm Silicone Tube, Right Angled Swivel Connector, Connector 22 mm ID, O2 Tubing made of Silicone Length: 1.80 m
Silikon Balon (500 ml), Dış Çapı 22 mm Konnektör, Jackson Rees valf, T konnektör, 25 cm Silikon anestezi hortumu, Elbow Konnektör (Dönebilen Başlıklı) Silikon oksijen hortumu 1.80 m.

■ MN 117 Jackson Rees System 4

Jackson Rees Sistem 4

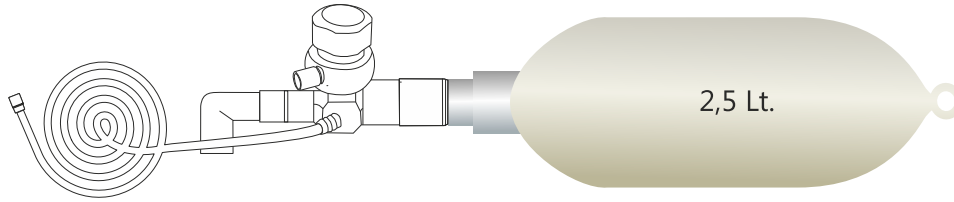


Silicone Rebreathing Bag 500 ml, Connector 22 mm OD, Jackson Rees valve, Right Angled Swivel Connector, Connector 22 mm OD, O₂ Tubing made of Silicone Length: 1.80 m

Silikon Balon (500 ml), Dış çapı 22 mm Konnektör, Jackson Rees valf, Elbow Konnektör (Dönebilen Başlıklı), Silikon oksijen hortumu 1.80 m.

■ MN 118 Mapleson C

Mapleson C



Silicone Rebreathing Bag 2500 ml, Connector 22 mm ID, Waters Expiratory valve, Right Angled Swivel Connector, Connector 22 mm ID, O₂ Tubing made of Silicone Length: 1.80 m

Silikon Balon (2500 ml), iç çapı 22 mm Konnektör, waters Expiratory valf, Elbow Konnektör (Dönebilen Başlıklı), Silikon oksijen hortumu 1.80 m.

■ MN 119 Mapleson A

Mapleson A



Silicone Rebreathing Bag 2500 ml, Connector 22 mm ID, Magill Expiratory valve, 60 cm Silicone Anesthesia Tube, T Connector Right Angled Swivel Connector, Connector 22 mm ID,

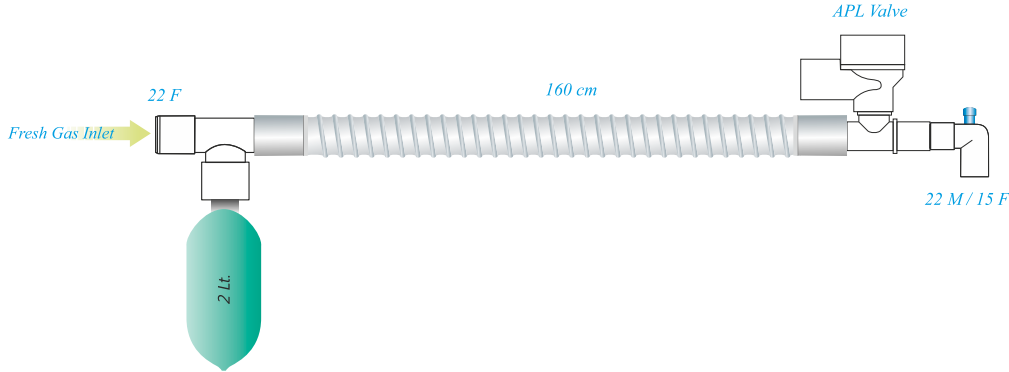
Silikon Balon (2500 ml), iç çapı 22 mm Konnektör, Magill Expiratory valf, 60 cm silikon anestezi Hortumu, T Konnektör, Elbow Konnektör (Dönebilen Başlıklı), Silikon oksijen hortumu 1.80 m.

MAPLESON BREATHING SYSTEMS

Disposable Circuits

■ MN 148 Mapleson A Magill Circuit

Mapleson A Magill Devresi



Circuit for the manual administration of gases mixtures.

The constant introduction of fresh gases into the mask, according to Jackson Rees principle, reduces the system CO_2

APL allows a precise definition of the pressure during the inspiratory phase while operating in full safety as far as accidental blocks that could cause potential risks for the patient.

It grants a constant fresh gases volume within the breathing bag.

Reproducible and reliable performances.

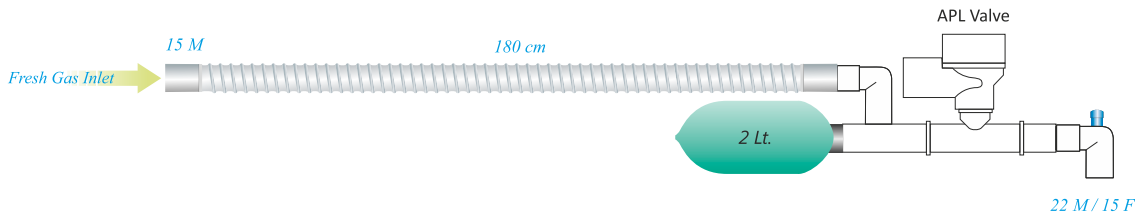
Over pressure safety release valve.

Latex free Rebreathing Bag 2 Lt., APL valve, tubing Length: 1,60 m.

2 Lt. Latex free Balon, APL Valf, Hortum 1,60 m.

■ MN 149 Mapleson C Circuit

Mapleson C Devresi

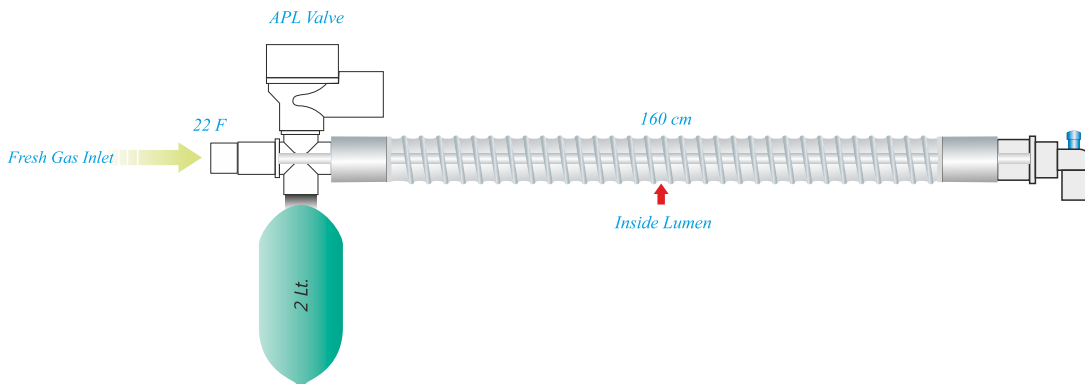


Latex free Rebreathing Bag 2 Lt., APL valve, tubing Length: 1,80 m.

2 Lt. Latex free Balon, APL Valf, Hortum 1,80 m.

■ MN 150 Mapleson D Bain Circuit

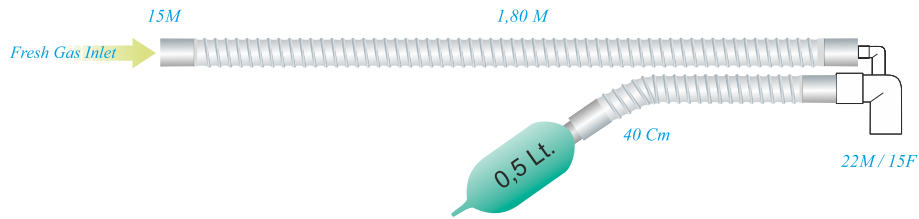
Mapleson D Bain Devresi



Latex free Rebreathing Bag 2 Lt., APL valve, tubing Length: 1,60 m., Inside Lumen 1,50 m.

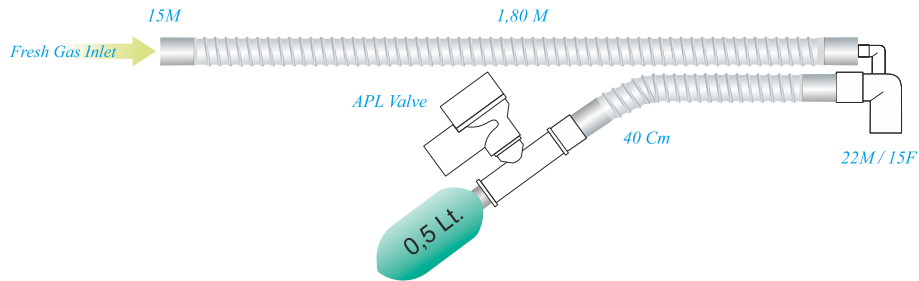
2 Lt. Latex free Balon, APL Valf, Hortum 1,60 m., İç Lümen 1,50 m.

■ **MN 151 Mapleson F Modified Jackson Rees**
Mapleson F Jackson Rees Modifikasyonu



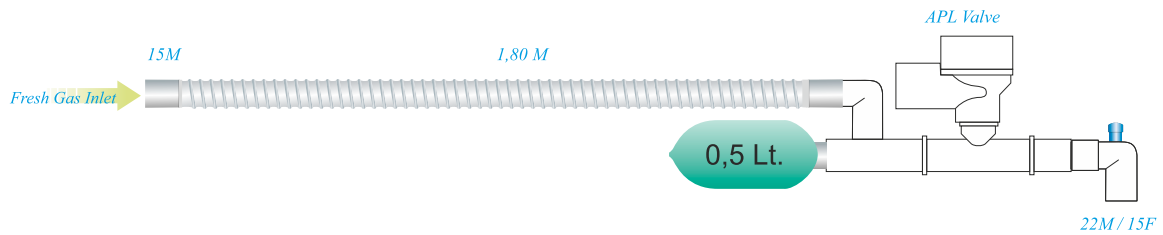
Mapleson F Modified Jackson Rees
Mapleson F Jackson Rees Modifikasyonu

■ **MN 152 Pediatric Circuit with APL valve**
Pediatric APL Valfli Devre



Pediatric Circuit with APL valve
Pediatric APL Valfli Devre

■ **MN 153 Pediatric Bagging Circuit with APL valve**
Pediatric APL Valfli Bagging Devresi



Pediatric Bagging Circuit with APL valve
Pediatric APL Valfli Bagging Devresi

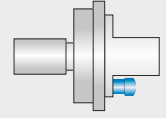
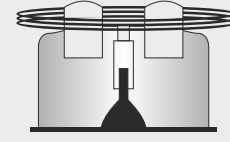
HEATED WIRE CIRCUITS



A heated humidifier is used to humidify the gas delivered to a patient during positive-pressure ventilation. During humidification, gas passes over a water reservoir, where it is heated and saturated with water vapor. As the humidified gas passes through the breathing circuit, it cools and condenses; to compensate for this, the gas in the humidifier is heated above 37 °C.

The heated-wire breathing circuit is designed and labeled for use with the heated-wire humidifier. Heated wire circuit performance meets specifications during expected peak inspiratory flowrates and minute ventilation delivery.

Heated wire circuits will be used for patients who exhibit contraindications for HME use.

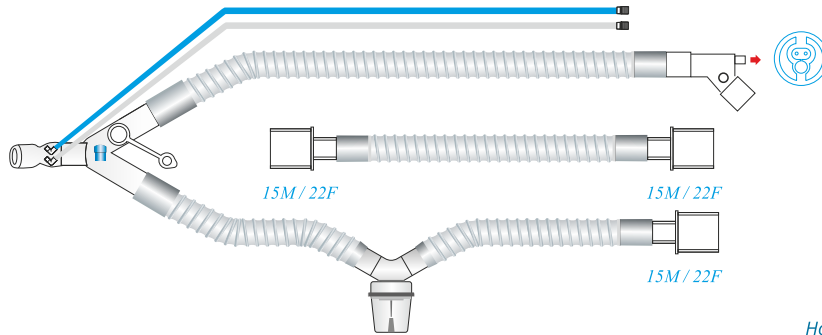


Also following items are available upon request with circuit.

Aşağıdaki ürünler isteğe bağlı olarak devreyle birlikte ayrıca temin edilir.

- MN 135-01 Humidifier Chamber
- MN 135-02 Humidifier Chamber Autofeed
- MN 136 Bacterial Filter
- MN 137 Bacterial Filter HME
- MN 137-01 Bacterial Filter Pediatric HME
- MN 137-05 Bacterial Filter Double Sided

■ MN 154 Single Heated Wire Circuit for GALILEO & RAPHAEL GALILEO & RAPHAEL Uyumlu Tek Isıtıcı Devre



Adult | Yetişkin

MN 154-01 • 1.50 m.
MN 154-02 • 1.80 m.

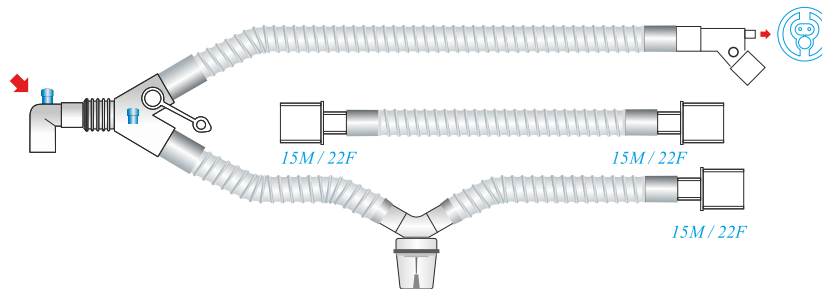
Pediatric | Pediatrik

MN 154-03 • 1.50 m.
MN 154-04 • 1.80 m.

Tube Length: 1,50 m., 45 cm extra limb,
One water trap, Flow Sensor and Line 1,8 m

Hortum 1,5 m., 45 cm ara uzatma, tek su tutucu, 1,8 m Flow Sensör Line

■ MN 155 Single Heated Wire Circuit for / AVEA / EVITA / SERVO-i / 840 / T-BIRD / VELA AVEA / EVITA / SERVO-i / 840 / T-BIRD / VELA Uyumlu Tek Isıtıcı Devre



Adult | Yetişkin

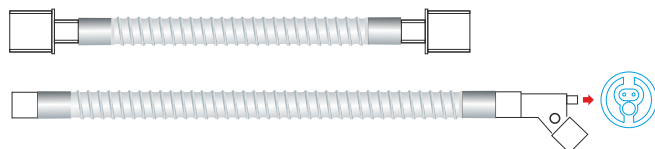
MN 155-01 • 1.50 m.
MN 155-02 • 1.80 m.

Pediatric | Pediatrik

MN 155-03 • 1.50 m.
MN 155-04 • 1.80 m.

Tube Length: 1,50 m., 45 cm extra limb, One water trap
Hortum 1,5 m., 45 cm ara uzatma, tek su tutucu

■ MN 156 Single Heated Wire Circuit Tek Isıtıcı Devre



Adult | Yetişkin

MN 156-01 • 1.50 m.
MN 156-02 • 1.80 m.

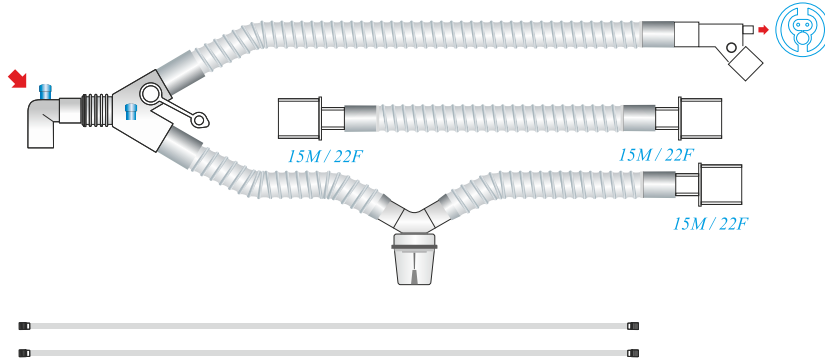
Pediatric | Pediatrik

MN 156-03 • 1.50 m.
MN 156-04 • 1.80 m.

Tube Length: 1,50 m., 50 cm extra limb
Hortum 1,50 m., 50 cm ara uzatma

■ MN 157 Single Heated Wire Circuit with one water trap

Tek Su Tutuculu, Tek Hatlı Isıtıcı Devre



Adult | Yetişkin

MN 157-01 • 1.50 m.

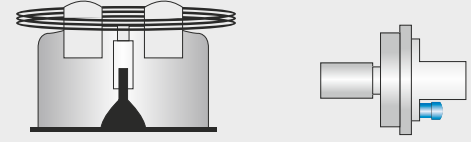
MN 157-02 • 1.80 m.

Pediatric | Pediatrik

MN 157-03 • 1.50 m.

MN 157-04 • 1.80 m.

Tube Length: 1,50 m. heated inspiratory limb, 1,76 m expiratory limb with water trap, 50 cm extra limb, 2 pcs. 2 m pressure line
Isıtıcı inspiratör hattı 1,5 m., Su tutuculu ısıtıcı ekspiratör hattı 1,76 m, 50 cm ara uzatma, 2 adet 2 m basınç hattı



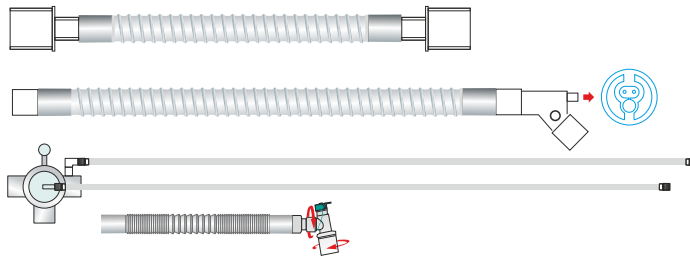
Also following items are available upon request with circuit.

Aşağıdaki ürünler isteğe bağlı olarak devreyle birlikte ayrıca temin edilir.

- MN 135-01 Humidifier Chamber
- MN 135-02 Humidifier Chamber Autofeed
- MN 136 Bacterial Filter
- MN 137 Bacterial Filter HME
- MN 137-01 Bacterial Filter Pediatric HME
- MN 137-05 Bacterial Filter Double Sided

■ MN 158 Single Heated Wire Circuit with exhalation valve

Ekshalasyon Valfli, Tek Hatlı Isıtıcı Devre



Adult | Yetişkin

MN 158-01 • 1.50 m.

MN 158-02 • 1.80 m.

Pediatric | Pediatrik

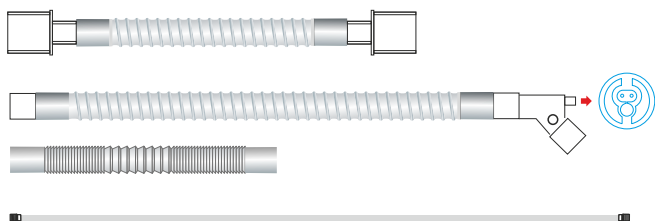
MN 158-03 • 1.50 m.

MN 158-04 • 1.80 m.

Tube Length: 1,50 m. heated inspiratory limb, 50 cm extra limb, exhalation valve with 2 pcs. 2 m pressure line
Isıtıcı inspiratör hattı 1,5 m., 50 cm ara uzatma, 2 adet 2 m basınç hatlı Ekshalasyon valfi

■ MN 159 Bi-level/CPAP Single Heated Wire Circuit with pressure line

Bi-level/CPAP Basınç Hatlı, Tek Hatlı Isıtıcı Devre



Adult | Yetişkin

MN 159-01 • 1.50 m.

MN 159-02 • 1.80 m.

Pediatric | Pediatrik

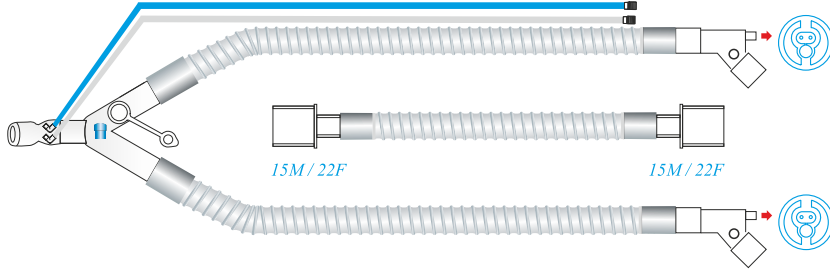
MN 159-03 • 1.50 m.

MN 159-04 • 1.80 m.

Tube Length: 1,50 m. heated inspiratory limb, 50 cm extra limb, 30 cm extendible extra limb, 1 pcs. 2,5 m pressure line
Isıtıcı inspiratör hattı 1,5 m., 50 cm ara uzatma, 30 cm uzayabilen ara uzatma, 1 adet 2,5 m basınç hattı

■ MN 160 Dual Heated Wire Circuit for GALILEO & RAPHAEL

GALILEO & RAPHAEL Uyumlu Çift Isıtcılı Devre



Adult | Yetişkin

MN 160-01 • 1.50 m.
MN 160-02 • 1.80 m.

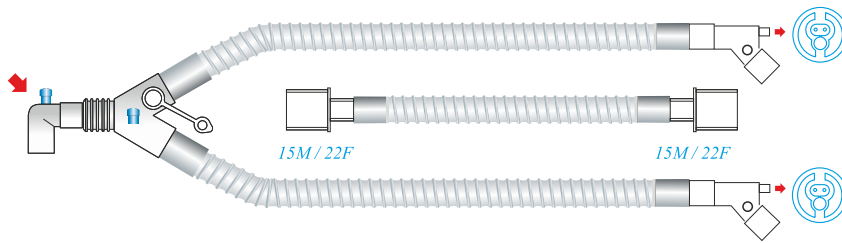
Pediatric | Pediatrik

MN 160-03 • 1.50 m.
MN 160-04 • 1.80 m.

**Tube Length: 1,50 m., 45 cm extra limb,
Flow Sensor and Line 1,8 m**
*Hortum 1,5 m., 45 cm ara uzatma,
1,8 m Flow Sensör Line*

■ MN 161 Dual Heated Wire Circuit for / AVEA / EVITA / SERVO-i / 840 / T-BIRD / VELA

AVEA / EVITA / SERVO-i / 840 / T-BIRD / VELA Uyumlu Çift Isıtcılı Devre



Adult | Yetişkin

MN 161-01 • 1.50 m.
MN 161-02 • 1.80 m.

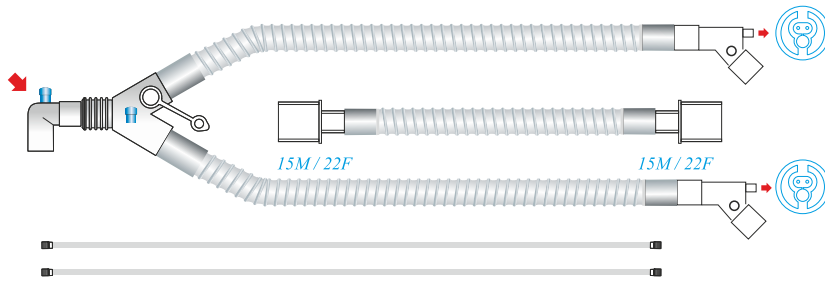
Pediatric | Pediatrik

MN 161-03 • 1.50 m.
MN 161-04 • 1.80 m.

**Tube Length: 1,50 m. heated inspiratory limb,
1,5 m heated expiratory limb, 50 cm extra limb**
*Isıtcılı inspiratör hattı 1,5 m.,
Isıtcılı ekspiratör hattı 1,5 m, 50 cm ara uzatma*

■ MN 162 Dual Heated Wire Circuit

Çift Isıtcılı Devre



Adult | Yetişkin

MN 162-01 • 1.50 m.
MN 162-02 • 1.80 m.

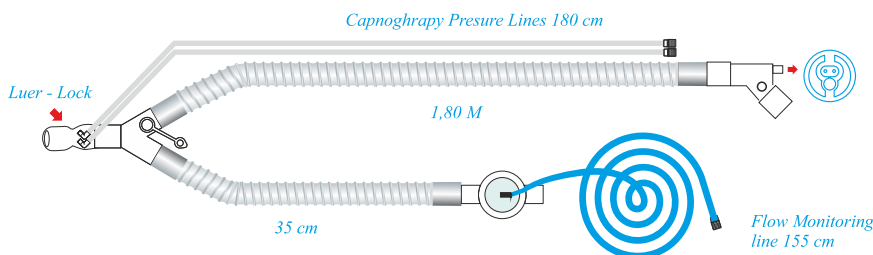
Pediatric | Pediatrik

MN 162-03 • 1.50 m.
MN 162-04 • 1.80 m.

**Tube Length: 1,50 m. heated inspiratory limb,
1,5 m heated expiratory limb, 50 cm extra limb,
2 pcs. 2 m pressure line**
*Isıtcılı inspiratör hattı 1,5 m.,
Isıtcılı ekspiratör hattı 1,5 m,
50 cm ara uzatma, 2 adet 2 m basınç hattı*

■ MN 163 Transport Circuit with Heated Wire

Isıtcılı Transport Devresi



Adult | Yetişkin

MN 163-01 • 1.50 m.
MN 163-02 • 1.80 m.

Pediatric | Pediatrik

MN 163-03 • 1.50 m.
MN 163-04 • 1.80 m.

Tube Length: 1,50 m., 100 cm extra limb
Hortum 1,5 m., 100 cm ara uzatma

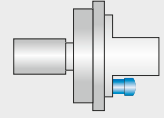
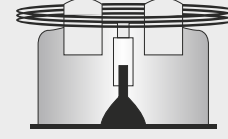
Neonatal Heated Wire Breathing Circuits 10 mm.

Compatible with
SLE 2000/ SLE 4000&5000
BABYLOG / AVEA / EVITA
SERVO I / 840 / VIP
ACUTRONIC / GALILEO / SECHRIST



Compatible with MR850
expiratory & inspiratory limb

Neonatal circuits are 10 mm for active humidification. 16-volt heated humidifiers require 16-volt ventilator circuits. 21-volt heated humidifiers require 21-volt ventilator circuits. Ported wyes allow pressure and temperature monitoring and include tethered caps for plugging ports when not in use. Circuits are available with and without water traps. All neonatal circuits include a humidifier limb.

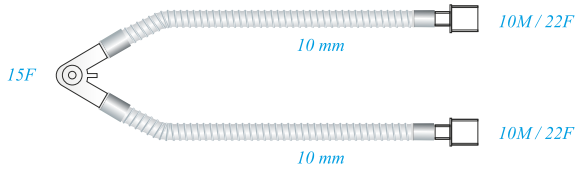


Also following items are available upon request with circuit.
Aşağıdaki ürünler isteğe bağlı olarak devreyle birlikte ayrıca temin edilir.

- MN 135-01 Humidifier Chamber
- MN 135-02 Humidifier Chamber Autofeed
- MN 136 Bacterial Filter
- MN 137 Bacterial Filter HME
- MN 137-01 Bacterial Filter Pediatric HME
- MN 137-02 Bacterial Filter Infant HME
- MN 137-05 Bacterial Filter Double Sided

■ MN 164 Neonatal Circuit

Yenidoğan Devre



Neonatal I Yenidoğan

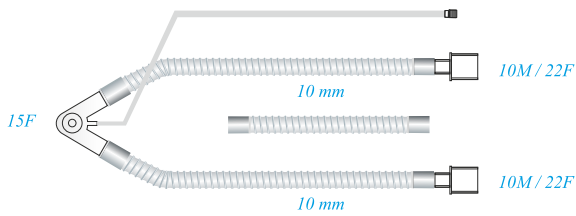
MN 164-01 • 1.50 m.

MN 164-02 • 1.80 m.

10 mm tubing Length: 1.50 m.
10 mm Hortum 1.50 m.

■ MN 165 Neonatal Circuit with extra limb & proximal line

Ara uzatmalı ve Proksimal hatlı Yenidoğan Devre



Neonatal I Yenidoğan

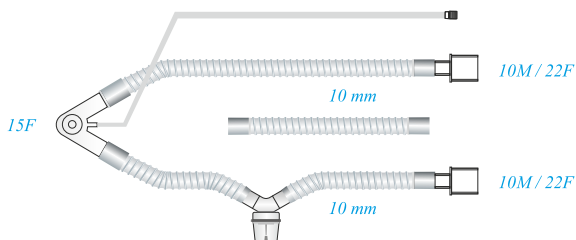
MN 165-01 • 1.50 m.

MN 165-02 • 1.80 m.

10 mm tubing Length: 1,50 m., 100 cm extra limb, Proximal Line
10 mm Hortum 1,50 m., 100 cm ara uzatma, Proksimal hat

■ MN 166 Neonatal Circuit with one water trap, extra limb & proximal line

Tek su tutuculu, Ara uzatmalı ve Proksimal hatlı Yenidoğan Devre



Neonatal I Yenidoğan

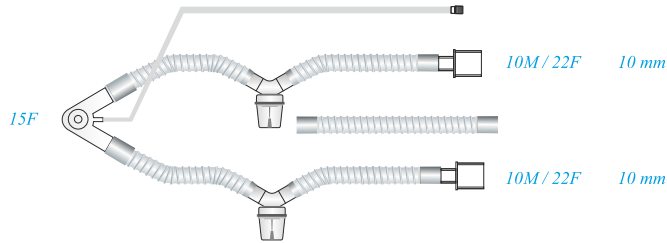
MN 166-01 • 1.50 m.

MN 166-02 • 1.80 m.

10 mm tubing Length: 1,50 m., 100 cm extra limb, One water trap, Proximal Line
10 mm PVC Hortum 1,50 m., 100 cm ara uzatma, Proksimal hat, Tek su tutucu

■ MN 167 Neonatal Circuit with two water trap, extra limb & proximal line

Çift su tutuculu ara uzatmalı ve Proksimal hatlı Yenidoğan Devre



Neonatal I Yenidoğan

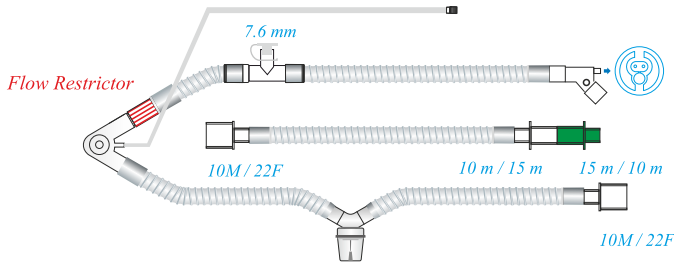
MN 167-01 • 1.50 m.

MN 167-02 • 1.80 m.

10 mm Tube Length: 1,50 m.,
100 cm extra limb, two water trap, Proximal Line,
 10 mm hortum 1,5 m., 100 cm ara uzatma,
 çift su tutucu, Proksimal hat

■ MN 168 Neonatal Single Heated Wire Breathing Circuit for SLE 2000

SLE 2000 Uyumlu Yenidoğan Tek Isıtıcı Devre



Neonatal I Yenidoğan

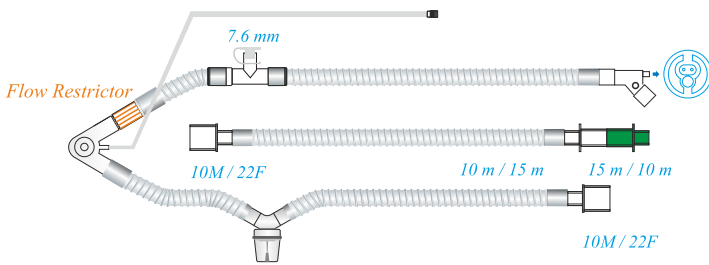
MN 168-01 • 1.50 m.

MN 168-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb,
One water trap, Proximal Line 1,6 m
 10 mm hortum 1,5 m., 45 cm ara uzatma,
 tek su tutucu, 1,6 m Proksimal hat

■ MN 169 Neonatal Single Heated Wire Breathing Circuit for SLE 4000 & 5000

SLE 4000 & 5000 Uyumlu Yenidoğan Tek Isıtıcı Devre



Neonatal I Yenidoğan

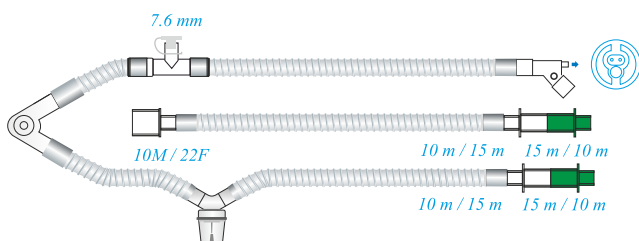
MN 169-01 • 1.50 m.

MN 169-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb,
One water trap, Proximal Line 1,6 m
 10 mm hortum 1,5 m., 45 cm ara uzatma,
 tek su tutucu, 1,6 m Proksimal hat

■ MN 170 Neonatal Single Heated Wire Breathing Circuit for BABYLOG / AVEA / EVITA / SERVO-i / 840

BABYLOG / AVEA / EVITA / SERVO-i / 840 Uyumlu Yenidoğan Tek Isıtıcı Devre



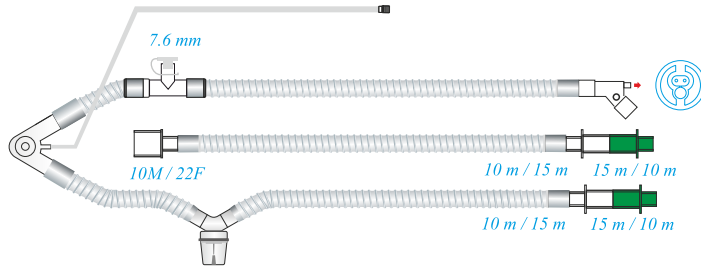
Neonatal I Yenidoğan

MN 170-01 • 1.50 m.

MN 170-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb, One water trap
 10 mm hortum 1,5 m., 45 cm ara uzatma, tek su tutucu

■ **MN 171 Neonatal Single Heated Wire Breathing Circuit for VIP / ACUTRONIC**
VIP / ACUTRONIC Uyumlu
Yenidoğan Tek Isıtıcı Devre



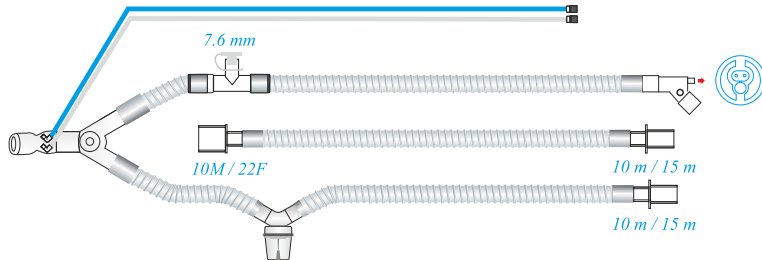
Also following items are available upon request with circuit.
Aşağıdaki ürünler isteğe bağlı olarak devreyle birlikte ayrıca temin edilir.

- MN 135-01 Humidifier Chamber
- MN 135-02 Humidifier Chamber Autofeed
- MN 136 Bacterial Filter
- MN 137 Bacterial Filter HME
- MN 137-01 Bacterial Filter Pediatric HME
- MN 137-02 Bacterial Filter Infant HME
- MN 137-05 Bacterial Filter Double Sided

Neonatal I Yenidoğan
MN 171-01 • 1.50 m.
MN 171-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb, One water trap, Proximal Line 1,6 m
10 mm hortum 1,5 m., 45 cm ara uzatma, tek su tutucu, 1,6 m Proksimal hat

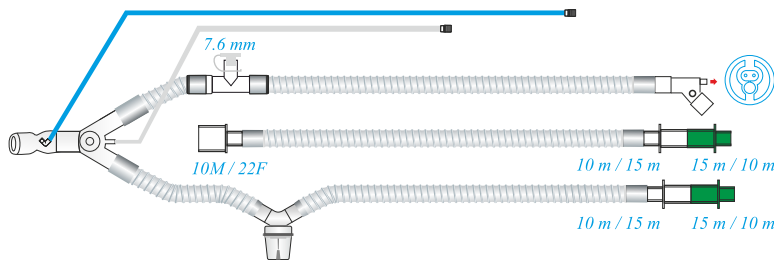
■ **MN 172 Neonatal Single Heated Wire Breathing Circuit for GALILEO**
GALILEO Uyumlu Yenidoğan Tek Isıtıcı Devre



Neonatal I Yenidoğan
MN 172-01 • 1.50 m.
MN 172-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb, One water trap, 2 pcs, flow sensor and line 1,8 m
10 mm hortum 1,5 m., 45 cm ara uzatma, tek su tutucu, 1,8 m, 2 adet, flow sensor ve Proksimal hat

■ **MN 173 Neonatal Single Heated Wire Breathing Circuit for VIP / ACUTRONIC**
VIP / ACUTRONIC Uyumlu Yenidoğan Tek Isıtıcı Devre



Neonatal I Yenidoğan
MN 173-01 • 1.50 m.
MN 173-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb, One water trap, 1 pcs, flow sensor Line 1,8 m, Proximal Line 1,6 m
10 mm hortum 1,5 m., 45 cm ara uzatma, tek su tutucu, 1,8 m, 1 adet, Flow sensör Hattı, 1,6 m Proksimal hat

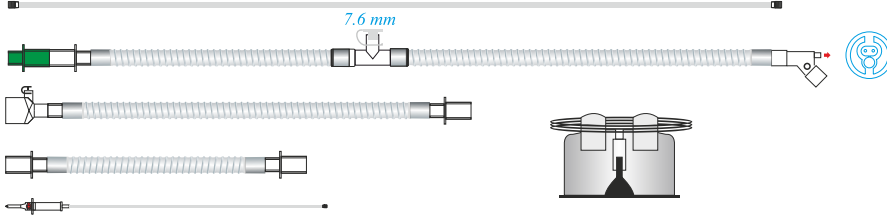
■ MN 174 Neonatal Single Heated Wire Breathing Circuit with autofeed chamber

Yenidoğan Tek Isıtıcılı Devre, Şamandıralı Nemlendirme Hazneli

Neonatal I Yenidoğan

MN 174-01 • 1.50 m.

MN 174-02 • 1.80 m.



10 mm Tube Length: 1,10 m Heated inspiratory limb, 0.3 m incubator extension, 0.5 m expiratory extension for flowdriver interface, 0.6 m humidifier connection tube with nitric oxide port, pressure line
10 mm hortum 1,1 m ısıtıcılı inspirasyon hattı, 30 cm küvöz uzatma hattı, 50 cm ekspirasyon uzatma hattı, nitrik oksit portlu 60 cm ara uzatma, basınç hattı.

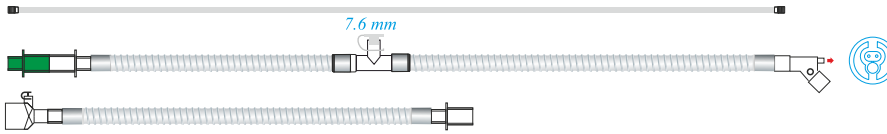
■ MN 175 Neonatal Single Heated Wire Breathing Circuit

Yenidoğan Tek Isıtıcılı Devre

Neonatal I Yenidoğan

MN 175-01 • 1.50 m.

MN 175-02 • 1.80 m.



10 mm Tube Length: 1,10 m Heated inspiratory limb, 0.3 m incubator extension, 0.6 m humidifier connection tube with nitric oxide port, pressure line
10 mm hortum 1,1 m ısıtıcılı inspirasyon hattı, 30 cm küvöz uzatma hattı, nitrik oksit portlu 60 cm ara uzatma, basınç hattı.

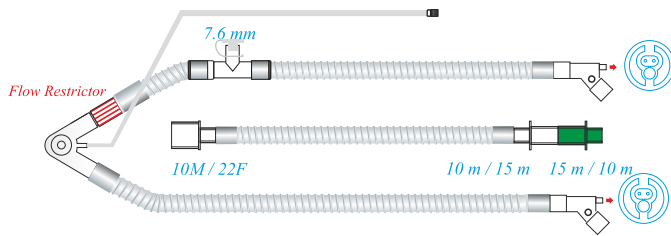
■ MN 176 Neonatal Dual Heated Wire Breathing Circuit for SLE 2000

SLE 2000 Uyumlu Yenidoğan Çift Isıtıcılı Devre

Neonatal I Yenidoğan

MN 176-01 • 1.50 m.

MN 176-02 • 1.80 m.



10 mm Tube Length: 1,50 m. 45 cm extra limb, Proximal Line 1,6 m
10 mm hortum 1,5 m. 45 cm ara uzatma, 1,6 m Proksimal hat

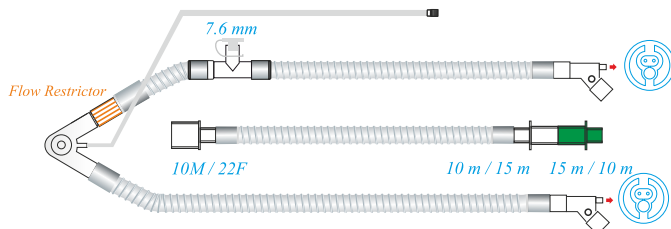
■ MN 177 Neonatal Dual Heated Wire Breathing Circuit for SLE 4000 & 5000

SLE 4000 & 5000 Uyumlu Yenidoğan Çift Isıtıcılı Devre

Neonatal I Yenidoğan

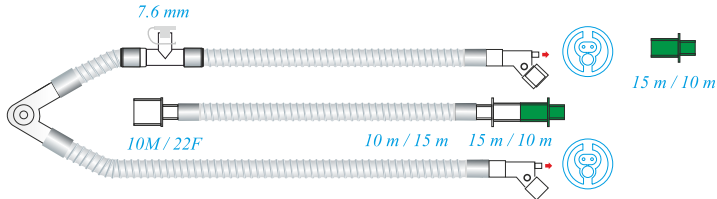
MN 177-01 • 1.50 m.

MN 177-02 • 1.80 m.



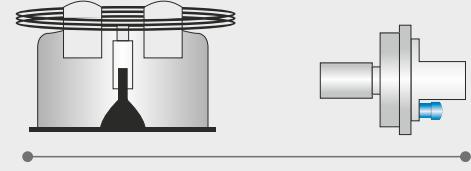
10 mm Tube Length: 1,50 m. 45 cm extra limb, Proximal Line 1,6 m
10 mm hortum 1,5 m. 45 cm ara uzatma, 1,6 m Proksimal hat

■ **MN 178 Neonatal Dual Heated Wire Breathing Circuit for
BABYLOG / AVEA / EVITA / SERVO I / 840**
BABYLOG•AVEA•EVITA•SERVO İ•840 Uyumlu
Yenidoğan Çift Isıtıcı Devre



Neonatal I Yenidoğan
MN 178-01 • 1.50 m.
MN 178-02 • 1.80 m.

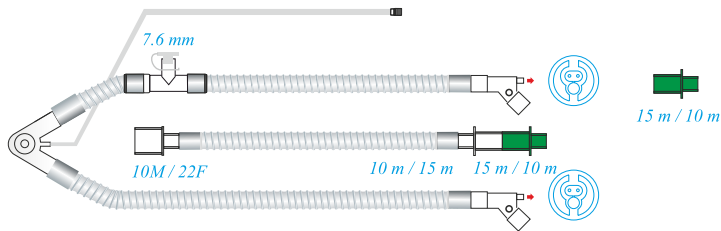
10 mm Tube Length: 1,50 m., 45 cm extra limb
10 mm hortum 1,5 m., 45 cm ara uzatma



Also following items are available upon request with circuit.
Aşağıdaki ürünler isteğe bağlı olarak devreyle birlikte ayrıca temin edilir.

- MN 135-01 Humidifier Chamber
- MN 135-02 Humidifier Chamber Autofeed
- MN 136 Bacterial Filter
- MN 137 Bacterial Filter HME
- MN 137-01 Bacterial Filter Pediatric HME
- MN 137-02 Bacterial Filter Infant HME
- MN 137-05 Bacterial Filter Double Sided

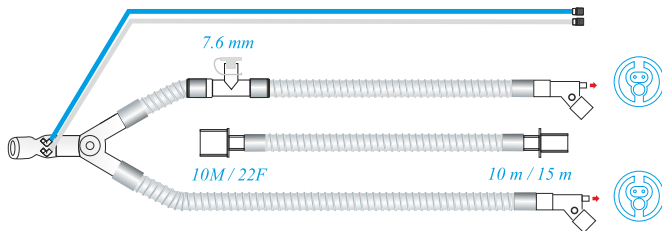
■ **MN 179 Neonatal Dual Heated Wire Breathing Circuit for VIP / ACUTRONIC**
VIP / ACUTRONIC Uyumlu Yenidoğan Çift Isıtıcı Devre



Neonatal I Yenidoğan
MN 179-01 • 1.50 m.
MN 179-02 • 1.80 m.

10 mm Tube Length: 1,50 m., 45 cm extra limb, Proximal Line 1,6 m
10 mm hortum 1,5 m., 45 cm ara uzatma, 1,6 m Proksimal hat

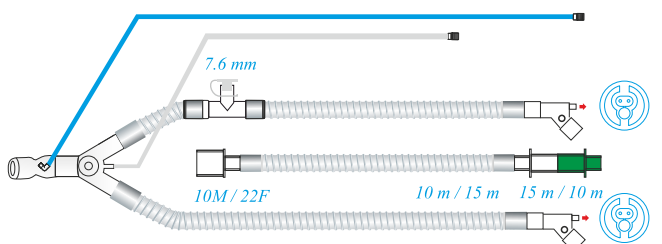
■ **MN 180 Neonatal Single Heated Wire Breathing Circuit for VIP / GALILEO**
VIP / GALILEO Uyumlu Yenidoğan Çift Isıtıcı Devre



Neonatal I Yenidoğan
MN 180-01 • 1.50 m.
MN 180-02 • 1.80 m.

**10 mm Tube Length: 1,50 m., 45 cm extra limb,
2 pcs, Flow Sensör and Line 1,8 m**
10 mm hortum 1,5 m., 45 cm ara uzatma, 1,8 m,
2 adet, Flow Sensör ve Proksimal Hat

■ **MN 181 Neonatal Dual Heated Wire Breathing Circuit for SECREST**
SECREST Uyumlu Yenidoğan Çift Isıtıcı Devre



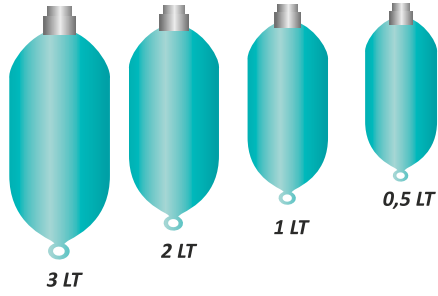
Neonatal I Yenidoğan
MN 181-01 • 1.50 m.
MN 181-02 • 1.80 m.

**10 mm Tube Length: 1,50 m., 45 cm extra limb,
1 pcs, Flow Sensör Line 1,8 m, Proximal Line 1,6 m**
10 mm hortum 1,5 m., 45 cm ara uzatma, 1,8 m,
1 adet, Flow Sensör, 1,6 m Proksimal hat

REBREATHINGBAGS

■ MN 124 Disposable Rebreathingbags

Tek Kullanımlık Anestezi Balonları

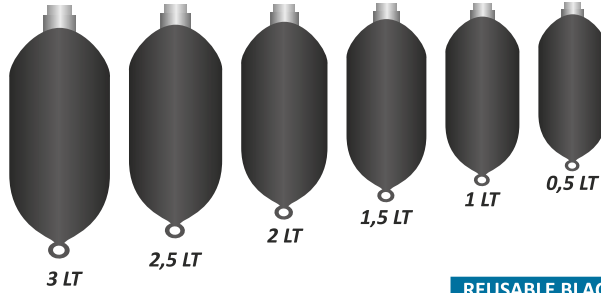


LATEX FREE	
CODE	SIZE
MN 124-01	0,5 LT
MN 124-02	1 LT
MN 124-03	2 LT
MN 124-04	3 LT

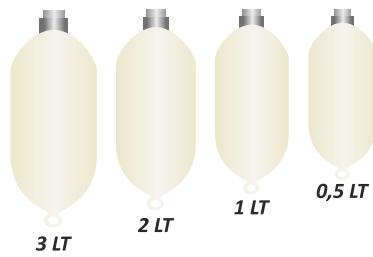


■ MN 125 Reusable Rebreathingbags

Çok Kullanımlık Anestezi Balonları



REUSABLE BLACK RUBBER	
CODE	SIZE
MN 125-01	0,5 LT
MN 125-02	1 LT
MN 125-03	1,5 LT
MN 125-04	2 LT
MN 125-05	2,5 LT
MN 125-06	3 LT



REUSABLE SILICONE	
CODE	SIZE
MN 125-07	0,5 LT
MN 125-08	1 LT
MN 125-09	2 LT
MN 125-10	3 LT



Reusable rebreathingbags can be sterilized (autoclavable) up to 134 °C without any deformation.

Çok kullanımlık anestezi balonları 134 °C kadar otoklavda herhangi bir bozulma olmadan steril edilebilir.

FACE MASKS

■ MN 126 Disposable Anesthesia Face Masks *Tek Kullanımlık Anestezi Maskeleri*

DISPOSABLE FACE MASK		
CODE	SIZE	DEAD SPACE
MN 126-01	00 Pre-neonate	20 ml.
MN 126-02	0 Neonate	25 ml.
MN 126-03	1 Infant	45 ml.
MN 126-04	2 Child	85 ml.
MN 126-05	3 Small	180 ml.
MN 126-06	4 Medium	220 ml.
MN 126-07	5 Large	250 ml.
MN 126-08	6 Ultra Large	310 ml.



■ MN 127 Reusable Anesthesia Face Masks *Çok Kullanımlık Anestezi Maskeleri*



Silicone

REUSABLE SILICONE	
CODE	SIZE
MN 127-10	0
MN 127-11	1
MN 127-12	2
MN 127-13	3
MN 127-14	4
MN 127-15	5



Black Rubber

REUSABLE BLACK RUBBER	
CODE	SIZE
MN 127-01	000
MN 127-02	00
MN 127-03	0
MN 127-04	1
MN 127-05	2
MN 127-06	3
MN 127-07	4
MN 127-08	5
MN 127-09	6

*Reusable face masks can be sterilized (autoclavable) up to 134 °C without any deformation.
Çok kullanımlık anestezi maskeleri 134 °C kadar otoklavda herhangi bir bozulma olmadan steril edilebilir.*



Semi-Silicone

REUSABLE SEMI - SILICONE	
CODE	SIZE
MN 127-16	3
MN 127-17	4
MN 127-18	5

TRIBALL

Breathing Exercises System

■ MN 147 Triball-Breathing Exercises System Üç Top -Solunum Egzersiz Cihazı

TECHNICAL PROPERTIES

- Breathing exercise spirometry for pediatric and adult patients
- 600cc / s, 900cc / s and 1200cc / s flow speed ranges
- Three-dimensional chamber and color-coded breathing exercise balls
- Air filter
- Adjustable and fixed flexible hose
- Easily removable, cleanable mouthpiece
- Compact, robust and transparent tubing
- Wide base

TEKNİK ÖZELLİKLER

- *Pediyatrik ve erişkin hastalar için akciğer egzersiz spirometresi*
- *600cc/sn, 900cc/sn ve 1200cc/sn akış hız aralıkları*
- *Üç adet ölçekli odacık ve renk kodlu nefes egzersiz topları*
- *Hava filtresi*
- *Ayarlanabilir ve sabitlenebilir esnek hortum*
- *Kolayca takılıp çıkarılabilen, temizlenebilir ağızlık*
- *Kompakt, sağlam ve şeffaf gövde*
- *Geniş taban*



% 97 CALIBRATION

With the specially developed intermediary connector part measurement is made with 97% precision. Each product is tested for precision calibration.

The device consists of three graduated cylinders for indicating flow rate.

Different coloured balls in the cylinders indicate the approximate flow passing through the device.

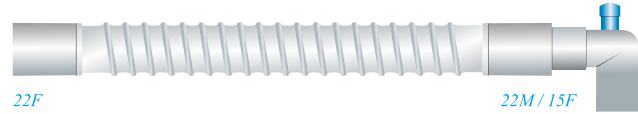
A tube with mouth-piece is also included.

Geliştirilen özel ara konnektör ile %97 doğru ölçüm sağlanmıştır. Her ürüne hassas kalibre testi yapılmaktadır.

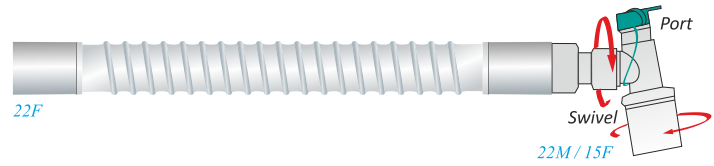
CATHETER MOUNTS

Sterile. Disposable and reusable models are available. Sterildir.
Tek ve çok kullanımlık modelleri mevcuttur. Sterildir.

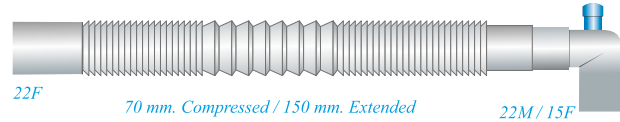
- **MN 132 - 01 PVC Smooth Bore Tubing With Fixed Elbow**
PVC Sabit Elbowlu



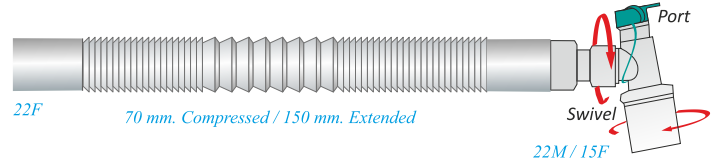
- **MN 132 - 02 PVC Smooth Bore Tubing With Double Swivel Elbow**
PVC Dönebilen Başlıklı Portlu Elbowlu



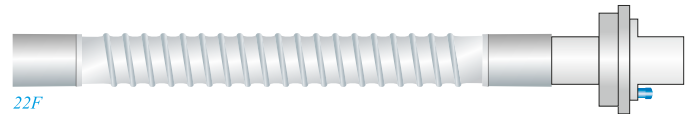
- **MN 132 - 03 Extendible Tubing With Fixed Elbow**
Uzayabilen Hortum Sabit Elbowlu



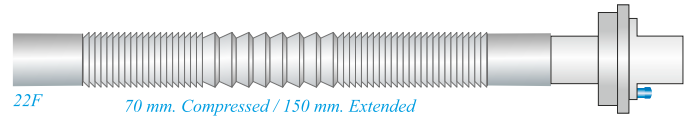
- **MN 132 - 04 Extendible Tubing With Double Swivel Elbow**
Uzayabilen Hortum Dönebilen Başlıklı Portlu Elbowlu



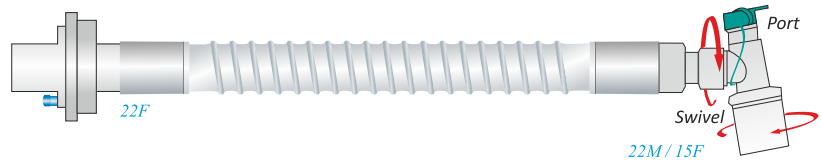
- **MN 132 - 05 PVC Smooth Bore Tubing With Bacterial Filter HME**
PVC Hortum Nemli Bakteri Filtreli



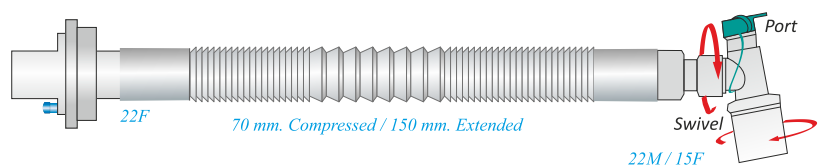
- **MN 132 - 06 Extendible Tubing With Bacterial Filter HME**
Uzayabilen Hortum Nemli Bakteri Filtreli



- **MN 132 - 07 PVC Catheter Mount With Bacterial Filter HME**
PVC Catheter Mount Nemli Bakteri Filtreli



- **MN 132 - 08 Extendible Catheter Mount With Bacterial Filter HME**
Uzayabilen Catheter Mount Nemli Bakteri Filtreli



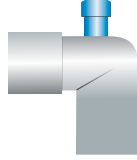
■ MN 132-09 Elbow with Port Portlu Elbow

TECHNICAL PROPERTIES

SUCTION LUER LOCK PORT

15M and Cobb 15F/22 M

Reusable and disposable models are available



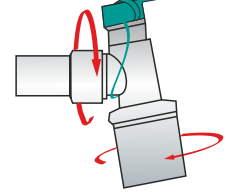
■ MN 132-10 Double Swivel Elbow with Port Dönebilen Başlıklı Portlu Elbow

TECHNICAL PROPERTIES

SUCTION PORT CAP

DOUBLE SWIVEL CONNECTOR

15M and Cobb 15F/22 M



■ MN 133 Water Trap Su Tutucu



CODE	MODEL
MN 133-01	WATER TRAP DISPOSABLE
MN 133-02	WATER TRAP REUSABLE

TECHNICAL PROPERTIES

Self sealing universal water trap

Reusable and disposable models are available

Adult and pediatric model



■ MN 134 Wye Connector Y Konnektör



WYE PIECE DISPOSABLE

CODE	MODEL
MN 134-01	WYE PIECE DISPOSABLE
MN 134-02	WYE PIECE REUSABLE

TECHNICAL PROPERTIES

Reusable and disposable models are available

Tek Kullanımlık ve Çok Kullanımlık modelleri mevcuttur



WYE PIECE REUSABLE

■ MN 135 Humidifier Chamber Nemlendirici Hazne

Adult



AUTOFEED
Adult



TECHNICAL PROPERTIES

Compressible volume full 260 ml,

Empty capacity 560 ml, max.

Water capacity 300 ml,

Reusable and disposable models are available

Inlet and outlet gas port 22 mm

Max. peak flow 180 L/min.

Materials used in construction :

Aluminium (Covered electroplate base), Polistiren (Dome), PVC Gasket)

It is a single use UV irradiated humidification chamber.

It is used to provide humidification for intubated or non-intubated patients.

CODE	SIZE
MN 135-01	HUMIDIFIER CHAMBER ADULT
MN 135-02	HUMIDIFIER CHAMBER ADULT AUTOFEED

BACTERIAL FILTERS

Filters are intended to be replaced at least once every 24 hours. Bacterial Filters are using with breathing circuits during anesthesia and ventilation operations to avoid risk of bacteria and viruses before they enter a patient's airway. Without them patient can be risk for infection.

■ MN 136 Bacterial Filter Bakteri Filtresi



TECHNICAL PROPERTIES	
Tidal Volume(ml)	: 150-1500
Dead Space(ml)	: 33
Bacterial-Viral Efficiency	: >99,9999%
Viral Efficiency	: >99,999%
Resistance to Flow	: 30 lt/min 4,3 mm H ₂ O
	60 lt/min 12 mm H ₂ O
	90 lt/min 25 mm H ₂ O
Weight (gr)	: 19
Fittings (ISO Connectors)	: 22M-15/22MF
CO ₂ sampling port	

■ MN 137 Bacterial HME Adult Bakteri Filtresi, Nemli, Yetişkin



With foam

TECHNICAL PROPERTIES	
Tidal Volume(ml)	: 150-1500
Dead Space(ml)	: 53
Bacterial-Viral Efficiency	: >99,9999%
Viral Efficiency	: >99,999%
Resistance to Flow	: 30 lt/min 9,4 mm H ₂ O
	60 lt/min 23,2 mm H ₂ O
	90 lt/min 42 mm H ₂ O
Weight (gr)	: 30
Fittings (ISO Connectors)	: 22M - 15/22MF
Humidification Efficiency	: 36,8 mg/l H ₂ O (500ml tid. vol)
CO ₂ sampling port	



With paper

■ MN 137 - 01 Bacterial Filter HME Pediatric Bakteri Filtresi, Nemli, Pediatrik



TECHNICAL PROPERTIES	
Tidal Volume(ml)	: 150-300
Dead Space(ml)	: 12
Filtration Efficiency	: BFE 99,9999%; VFE 99,9999%
Humidification Efficiency	: 24 mg/l H ₂ O (500 ml. tid. vol.)
Resistance to Flow	: 30 lt/min 13 mm H ₂ O
Weight (gr)	: 13,5
Fittings (ISO Connectors)	: 22F-22M/15F
CO ₂ sampling port	

■ MN 137 - 02 Bacterial Filter HME Infant Bakteri Filtresi, Nemli, Yenidoğan



TECHNICAL PROPERTIES	
Tidal Volume(ml)	: 70-150
Dead Space(ml)	: 8
Filtration Efficiency	: BFE 99,9999%; VFE 99,9999%
Humidification Efficiency	: 24 mg/l H ₂ O (500 ml. tid. vol.)
Resistance to Flow	: 30 lt/min 13 mm H ₂ O
Weight (gr)	: 8
Fittings (ISO Connectors)	: 15F-15M/8M
CO ₂ sampling port	

■ MN 137 - 03 Active Humidification System

Aktif Isı ve Nem Filtre Sistemi

Active Humidifier Filter is used in ICU patients connected to ventilation devices for humidification of the airway when passive filters prove insufficient. In patients where mechanical ventilation is needed, It maintains the formation of necessary humidity and temperature level therefore allowing easier aspiration of the secretions. It is lightweight, reliable and adaptable to all ventilation circuits. This function also aids in sustaining gas exchange by the keeping the airway open and consequently reduces infection risks. The system is an assembly of a Catheter Mount piece and a heat regulation piece combined with an I.V. regulator. The heat regulator forms humidification by evaporating the ventilated air with heat transfer, and regulates the formation of heat and humidity. A single product is used for both pediatric and adult patients by use of IV regulator. The targeted temperature levels are regulated by use of temperature buttons on the heater.

Benefits :

- The use of an additional humidification chamber will no longer be necessary.
- There will be no additional device setup requirement.
- Discharging liquids from water traps will no longer be necessary.
- Allows for regulating the humidity level avoiding over-humidification or under-humidification.
- It is Ready to use, there for no set up process is required.



■ MN 137 - 04 Heater Adaptor

Isıtıcı Adaptör

You can increase/decrease the temperature value by using these buttons.

Temperature

Alarm

Aktif Nemlendirici Filtre yoğun bakımda ventilatöre bağlı hastalarda hava yollarında pasif filtrelerin yetersiz kaldığı zamanlarda kurut oluştan hastaların havayollarını nemlendirmek amacıyla kullanılır. Mekanik ventilasyona gerek duyulan hastalarda ortamda ısı ve nem oluşumunu sağlar. Güvenilir, hafif ve solunum devreleriyle uyumlu yapıdadır. Sekresyonların aspire edilmesini kolaylaştırır. Hava yollarının açıklığını korur enfeksiyon riskini azaltarak gaz alışverişinin sürdürülmesini sağlar.

Nemlendirici filtre ile birlikte pasif nemlendirmenin birçok avantajı vardır. Geliştirilmiş yapısı ile aktif ısı ve nem filtresi hastaya giden ısı ve nemin kontrol altında tutularak kolay bir biçimde hastaya ulaşmasını sağlar. Sistem Catheter Mount ile birlikte ısının oluşmasını sağlayan ve üzerinde damla ayar bulunan bir parçadan oluşmaktadır. Isıtma işlemi havayı nemlendirip ısıtarak buharlaşma oluşmasını sağlar. Bu şekilde aktif ısı ve nem değişimi oluşmuş olur. Ürün üzerinde bulunan damla ayar seti ayarlanarak yetişkin ve pediatrik hastalarda tek bir ürün kullanımına olanak tanımaktadır. Isıtıcının üzerinde bulunan butonlar sayesinde istenilen ısı derecesi ayarlanabilmektedir.

Faydaları:

- Tekrardan nemlendirme haznesi kullanmaya gerek kalmaz.
- Herhangi bir cihaz kurulmasına gerek yoktur.
- Devrede bulunan su tutucuları boşaltmak gerekmez.
- Hastaya az ya da çok nemlendirme gitmesini engeller. Gerekli kadar nem verir.
- Kullanıma hazırdır, kurulum gerektirmez.

■ MN 137 - 05 Double Sided End Expiratory Filter

Çift Cidarlı Bakteri Filtresi

TECHNICAL PROPERTIES

Integral to the performance of the filter is a unique 'double-sided'. The outer shell creates an insulating air gap, which is intended to reduce condensation of exhaled humid gas inside the filter. Less condensation means filter remains dryer, maintaining filtration performance characteristics.

- Insulated housing, intended to reduce condensate
- Electrostatic depth media, low pressure drop
- Hydrophobic media, water repelling



TECHNICAL PROPERTIES

Compliance	: 0.13ml/cmH ₂ O
Compressible volume	: 38 ml
Resistance to flow @ 45 lpm	: 1.08 cmH ₂ O
Filtration efficiency	: VFE >99.99%1
	: BFE >99.9997%1
Fittings (ISO Connectors)	: Conical connectors



■ MN 138 - 01 Mortonvent Filter with Oxygen Port

Mortonvent Filtre



CODE	MODEL
MN 138-01	MORTONVENT FILTER WITH OXYGEN PORT

TECHNICAL PROPERTIES

Tidal Volume(ml)	: 200-1500
Humidification Efficiency	: 25 mg/l H ₂ O (500 ml. tid. vol.)
Resistance to Flow	: 30lt/min 5 mm H ₂ O
Weight (gr)	: 9,5
Fittings (ISO Connectors)	: 15F / 5M connector
CO ₂ sampling port	

■ MN 138 - 02 Mortonvent Set (Filter&Oxygen Tube)

Mortonvent Set

CODE	MODEL
MN 138-02	MORTONVENT (Filter&Oxygen Tube)

TECHNICAL PROPER

MORTONVENT and accessory products, the MORTONVENT Holder is designed specifically for trachestomized or intubated spontaneously breathing patients.

The MORTONVENT weight is only 4.0 grams and has a dead space of just 10 ml. Recommended for tidal volumes of 50 ml. and above MORTONVENT can be used on both pediatric and adult patients.

Mortonvent holder conveniently attaches MORTONVENT filter to tracheostomy or endotracheal tube, allowing it to easily be removed and replaced during suctioning or change out MORTONVENT filter to allow delivery of supplemental oxygen.



■ MN 143 - 01 Valved Tee Adapter

Valfli T Konnektör

TECHNICAL PROPERTIES

The Valved Tee Adapter simplifies the delivery of aerosolized medications to ventilated patients. Used in conjunction with a small volume nebulizer (SVN), the Valved Tee Adapter offers a safe and effective way to introduce the aerosol into the circuit. The Valved Tee Adapter is a permanent part of the ventilator circuit. The original spring-loaded valve opens and closes as the nebulizer is inserted and removed.

- Clean, Ready to Use
- Latex Free
- For Single Patient Use Only
- Change with the circuit

Spring loaded valve:

Opens and closes as one inserts and removes the nebulizer.

TECHNICAL PROPERTIES

15M / 15F



■ MN 143 - 02 Inhalation Chamber with T Valved

T Valfli İnhalasyon Tedavi Çemberi

TECHNICAL PROPERTIES

JET NEBULIZER

T PIECE 10 M / 15 F

OXYGEN TUBE





you are comfortable with our excellent quality...

Materials used in the health sector must have an excellent quality. Since health is the most precious treasure that deserves the perfect care and quality.

Since 1990; we have been producing anesthesia and single use products according to international quality standards and present them to the use of medicinal science people in 78 countries.

We are indebted to everyone who helped us on the way...

Infusion / İnfüzyon

■ MN 201 Extension Line *Uzatma Hattı*



TECHNICAL PROPERTIES

AVAILABLE BULK NON-STERILE

STERILE AND PRIVATE

LABELED STERILE

25CM - 30CM - 45CM - 60CM - 75CM - 100CM - 120CM - 210CM - 300CM

CUSTOM LENGHTS AVAILABLE AS WELL AS STRIPED TUBING

M/F - M/M - F/F

■ MN 202 Opak Line *Opak Uzatma Hattı*



Yellow
Sarı

Black
Siyah

TECHNICAL PROPERTIES

AVAILABLE BULK NON-STERILE

STERILE AND PRIVATE

LABELED STERILE

25CM - 30CM - 45CM - 60CM - 75CM - 100CM - 120CM - 210CM - 300CM

CUSTOM LENGHTS AVAILABLE AS WELL AS STRIPED TUBING

M/F - M/M - F/F

■ MN 203 Extension Line With Three Way Stopcock

Üç Yollu Musluklu Uzatma Hattı

TECHNICAL PROPERTIES
AVAILABLE BULK NON-STERILE
STERILE AND PRIVATE
LABELED STERILE
25CM - 30CM - 45CM - 60CM -75CM - 100CM - 120CM - 210CM - 300CM



■ MN 204 Pressure Line

Basınç Hattı

TECHNICAL PROPERTIES
AVAILABLE BULK NON-STERILE
STERILE AND PRIVATE
LABELED STERILE
25CM - 30CM - 45CM - 60CM - 75CM - 100CM - 120CM - 210CM - 300CM
CUSTOM LENGHTS AVAILABLE AS WELL AS STRIPED TUBING
M/F - M/M - F/F

600 / 900 / 1200 PSI



■ MN 207 Perfusion Line

Perfüzör Hattı

TECHNICAL PROPERTIES
AVAILABLE BULK NON-STERILE
STERILE AND PRIVATE
LABELED STERILE
25CM - 30CM - 45CM - 60CM - 75CM - 100CM - 120CM - 210CM - 300CM
CUSTOM LENGHTS AVAILABLE AS WELL AS STRIPED TUBING
M/F - M/M - F/F



■ MN 208 Gas Sample Line

Gas Sample Line

TECHNICAL PROPERTIES
AVAILABLE BULK NON-STERILE
STERILE AND PRIVATE
LABELED STERILE
100 CM-120 CM - 210 CM - 300 CM
CUSTOM LENGHTS AVAILABLE AS WELL AS STRIPED TUBING
M/M



■ **MN 300 Y T.U.R. Irrigation Set**
Y Tipi T.U.R. Seti



TECHNICAL PROPERTIES

Non vented spikes.
Clamps and Y connector.
Proximal tip with silicone tubing.
Luer lock connector
Tube length 200 cm.



■ **MN 301 Y T.U.R. Irrigation Set With Manual Pressure Pump**
Y Tipi T.U.R. Seti Puarlı



TECHNICAL PROPERTIES

Manual pressure pump.
Non vented spikes.
Clamps and Y connector.
Proximal tip with silicone tubing.
Luer lock connector
Tube length 200 cm.



■ **MN 302 Yankuer Suction Set**
Aspiratör Seti



TECHNICAL PROPERTIES

Yankauer Suction Handle.
Ø 5,5 x 8,5 mm. kink resistant tubing.
Cut-to-fit and funnel connectors prevents kinking and clogging.
With or without vacuum control.
Sterile.
Standard length: 2,10 cm or 300 cm.

■ **MN 303 Yankuer Suction Connection Tube**
Aspiratör Bağlantı Hortumu



TECHNICAL PROPERTIES

Ø 5,5 x 8,5 mm. kink resistant tubing.
Cut-to-fit and funnel connectors prevents kinking and clogging.
Sterile.
Standard length: 2,10 cm or 300 cm.

■ **MN 304 Yankuer Suction Handle Bulb Tip**
Aspiratör Ucu



CODE	SIZE
MN 304-01	Bulb tip without vacuum control Topuz uçlu vakum kontrolsüz
MN 304-02	Bulb tip with vacuum control Topuz uçlu vakum kontrollü

TECHNICAL PROPERTIES

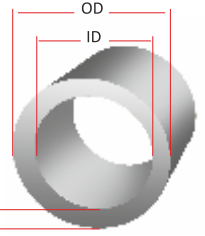
Ergonomic design
With or without vacuum control.
Multipurpose use.
Rigid material.

■ MN 306 Silicone Tubes

Silikon Hortum Çeşitleri

■ MN 307 PVC Tubes

PVC Hortum Çeşitleri



Sizes are real in the picture / Çizimlerdeki ölçüler gerçek boyutlardadır.

For Silicone: MN 306 - 01 For PVC: MN 307 - 01	ID x OD (mm) İç Çap x Dış Çap (mm) 1 x 2	Wall Thickness (mm) Duvar Kalınlığı (mm) 0,5		
For Silicone: MN 306 - 02 For PVC: MN 307 - 02	ID x OD (mm) İç Çap x Dış Çap (mm) 1 x 3	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,0		
For Silicone: MN 306 - 03 For PVC: MN 307 - 03	ID x OD (mm) İç Çap x Dış Çap (mm) 1,5 x 3	Wall Thickness (mm) Duvar Kalınlığı (mm) 0,75		
For Silicone: MN 306 - 04 For PVC: MN 307 - 04	ID x OD (mm) İç Çap x Dış Çap (mm) 2 x 4	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,0		
For Silicone: MN 306 - 05 For PVC: MN 307 - 05	ID x OD (mm) İç Çap x Dış Çap (mm) 3 x 4	Wall Thickness (mm) Duvar Kalınlığı (mm) 0,5		
For Silicone: MN 306 - 06 For PVC: MN 307 - 06	ID x OD (mm) İç Çap x Dış Çap (mm) 4 x 6	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,0		
For Silicone: MN 306 - 07 For PVC: MN 307 - 07	ID x OD (mm) İç Çap x Dış Çap (mm) 4 x 7	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,5		
For Silicone: MN 306 - 08 For PVC: MN 307 - 08	ID x OD (mm) İç Çap x Dış Çap (mm) 5 x 7	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,0		
For Silicone: MN 306 - 09 For PVC: MN 307 - 09	ID x OD (mm) İç Çap x Dış Çap (mm) 5 x 8	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,5		
For Silicone: MN 306 - 10 For PVC: MN 307 - 10	ID x OD (mm) İç Çap x Dış Çap (mm) 5 x 9	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 11 For PVC: MN 307 - 11	ID x OD (mm) İç Çap x Dış Çap (mm) 6 x 10	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 12 For PVC: MN 307 - 12	ID x OD (mm) İç Çap x Dış Çap (mm) 6 x 12	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 13 For PVC: MN 307 - 13	ID x OD (mm) İç Çap x Dış Çap (mm) 7 x 10	Wall Thickness (mm) Duvar Kalınlığı (mm) 1,5		
For Silicone: MN 306 - 14 For PVC: MN 307 - 14	ID x OD (mm) İç Çap x Dış Çap (mm) 7 x 11	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		

■ MN 306 Silicone Tubes

Silikon Hortum Çeşitleri

■ MN 307 PVC Tubes

PVC Hortum Çeşitleri



Sizes are real in the picture / Çizimlerdeki ölçüler gerçek boyutlardadır.

For Silicone: MN 306 - 15 For PVC: MN 307 - 15	ID x OD (mm) İç Çap x Dış Çap (mm) 8 x 12	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 16 For PVC: MN 307 - 16	ID x OD (mm) İç Çap x Dış Çap (mm) 8 x 14	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 17 For PVC: MN 307 - 17	ID x OD (mm) İç Çap x Dış Çap (mm) 9 x 13	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 18 For PVC: MN 307 - 18	ID x OD (mm) İç Çap x Dış Çap (mm) 10 x 14	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 19 For PVC: MN 307 - 19	ID x OD (mm) İç Çap x Dış Çap (mm) 10 x 16	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 20 For PVC: MN 307 - 20	ID x OD (mm) İç Çap x Dış Çap (mm) 12 x 18	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 21 For PVC: MN 307 - 21	ID x OD (mm) İç Çap x Dış Çap (mm) 12 x 20	Wall Thickness (mm) Duvar Kalınlığı (mm) 4,0		
For Silicone: MN 306 - 22 For PVC: MN 307 - 22	ID x OD (mm) İç Çap x Dış Çap (mm) 15 x 21	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 23 For PVC: MN 307 - 23	ID x OD (mm) İç Çap x Dış Çap (mm) 18 x 24	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 24 For PVC: MN 307 - 24	ID x OD (mm) İç Çap x Dış Çap (mm) 20 x 24	Wall Thickness (mm) Duvar Kalınlığı (mm) 2,0		
For Silicone: MN 306 - 25 For PVC: MN 307 - 25	ID x OD (mm) İç Çap x Dış Çap (mm) 20 x 26	Wall Thickness (mm) Duvar Kalınlığı (mm) 3,0		
For Silicone: MN 306 - 26 For PVC: MN 307 - 26	ID x OD (mm) İç Çap x Dış Çap (mm) 25 x 33	Wall Thickness (mm) Duvar Kalınlığı (mm) 4,0		

■ **MN 400 Pleural Drainage System / 2000 cc.**
Göğüs Drenaj Seti / 2000 cc.



TECHNICAL PROPERTIES

2000 ml. collecting capacity.
Special design (prevent leaking).
Firm stand to avoid accidental overturn.
Easy write on drainage marking scale.
Handle for patient.
Length of tubing 150 cm.
Soft and kink resistance silk finished tubing.
Tube connector specially designed to adaptation different thoracic catheter sizes.
Luer lock port cap on the connector helps to empty coagulum collected in the tubing.
Sterile.

TEKNİK ÖZELLİKLER

2000 ml. kapasiteli.
Sızma riskini yok eden tek parça özel tasarım.
Devrilmeyi önleyen geniş taban.
Seviye göstergesi.
Pratik taşıma askısı.
Hortum uzunluğu 150 cm.
Bükülmeye dirençli, kırılmayan özel hortum.
Spiral hortum destekli.
Değişik boyutlardaki toraks kataterlerine bağlantı sağlayan portlu konnektör.
Konnektör üzerinde hava boşaltma kapağı.
Steril.

■ **MN 401 Pleural Drainage System / 700 cc.**
Göğüs Drenaj Seti / 700 cc.



TECHNICAL PROPERTIES

700 ml. collecting capacity.
Special design (prevent leaking).
Firm stand to avoid accidental overturn.
Easy write on drainage marking scale.
Handle for patient.
Length of tubing 150 cm.
Soft and kink resistance silk finished tubing.
Tube connector specially designed to adaptation different thoracic catheter sizes.
Luer lock port cap on the connector helps to empty coagulum collected in the tubing.
Sterile.

TEKNİK ÖZELLİKLER

700 ml. kapasiteli.
Sızma riskini yok eden tek parça özel tasarım.
Devrilmeyi önleyen geniş taban.
Seviye göstergesi.
Pratik taşıma askısı.
Hortum uzunluğu 150 cm.
Bükülmeye dirençli, kırılmayan özel hortum.
Spiral hortum destekli.
Değişik boyutlardaki toraks kataterlerine bağlantı sağlayan portlu konnektör.
Konnektör üzerinde hava boşaltma kapağı.
Steril.

■ MN 900 Video Camera Cover Cartoon Model

Kartonlu Kamera Kılıfı



TEKNİK ÖZELLİKLER

Kartonlu model.
Tek kullanımlık ve sterilidir.
Polietilen malzemeden üretilmiştir.
Atroskopi ve endoskopi operasyonları sırasında kamera ve kablolarının steril halde kalmalarını sağlayan koruyucu bir kılıftır.

TECHNICAL PROPERTIES

Cartoon model
Single use.Sterile.
Polyethylene.
Protective cover for video cameras and cables during arthroscopic and endoscopic operations.

■ MN 901 Video Camera Cover Circle Model

Çemberli Kamera Kılıfı

TECHNICAL PROPERTIES

Circle model
Single use.Sterile.
Polyethylene.
Protective cover for video cameras and cables during arthroscopic and endoscopic operations.

TEKNİK ÖZELLİKLER

Çemberli model.
Tek kullanımlık ve sterilidir.
Polietilen malzemeden üretilmiştir.
Atroskopi ve endoskopi operasyonları sırasında kamera ve kablolarının steril halde kalmalarını sağlayan koruyucu bir kılıftır.



■ MN 902 Microscope Drape Large

Mikroskop Kılıfı (Büyük Boy)

CODE	SIZE
MN 902	MICROSCOPE DRAPE LARGE
MN 903	MICROSCOPE DRAPE SMALL

TECHNICAL PROPERTIES

Single use.Sterile.
Transparent polycarbonate observation glass.
Antistatic.Polyethylene.
Protective cover for microscopes during operations.

TEKNİK ÖZELLİKLER

Tek kullanımlık. Sterildir.
Şeffaf gözlem camı vardır.
Antistatik ve Polietilen malzemeden üretilmiştir.
Mikroskopların operasyon süresince steril kalmasını sağlayan bir kılıftır.



■ MN 903 Microscope Drape Small

Mikroskop Kılıfı (Küçük Boy)



■ **MN 905 Kapkon Connector Without Port**

Portsuz Çam Ucu Konnektör



TECHNICAL PROPERTIES

Transparent for easy observation.
Strong and safe connection.

TEKNİK ÖZELLİKLER

Gözlem için şeffaf yapıdadır.
Güçlü ve güvenli bir bağlantı sağlar.

■ **MN 906 Kapkon Connector With Port**

Portlu Çam Ucu Konnektör



TECHNICAL PROPERTIES

With vacuum control and port.
Transparent for easy observation.
Strong and safe connection.

TEKNİK ÖZELLİKLER

Vakum kontrolü yapabilmek için üzerinde portu bulunmaktadır.
Gözlem için şeffaf yapıdadır.
Güçlü ve güvenli bir bağlantı sağlar.

■ **MN 907 Stopper**

Stoper



TECHNICAL PROPERTIES

Cap for female luer lock connector

TEKNİK ÖZELLİKLER

Female luer konnektörler için koruyucu kapak.

■ **MN 910 Disposable Spirometry Filter**
Tek Kullanımlık Spirometre Filtresi

MN 910



MN 910 - 01



MN 910-02



MN 912



CODE	SIZE
MN 910	DISPOSABLE SPIROMETRY FILTER TEK KULLANIMLIK SPIROMETRE FİLTRESİ
MN 910-01	DISPOSABLE SPIROMETRY FILTER SET WITH MOUTH NOZZLE TEK KULLANIMLIK SPIROMETRE FİLTRESİ ve AĞIZLIĞI
MN 910-02	DISPOSABLE SPIROMETRY FILTER WITH MOUTH NOZZLE KENDİNDEN AĞIZLIKLILIK TEK KULLANIMLIK SPIROMETRE FİLTRESİ
MN 912	SPIROMETER MOUTH NOZZLE PVC SPIROMETRE AĞIZLIĞI PVC
MN 912-01	NOSE CLIP BURUN MANDALI

TECHNICAL PROPERTIES

Single patient use.
Bacterial Viral Performance.
High impact styrene.
Electrostatic Filter.
99.9999% Bacterial Efficiency.
99.9999% Viral Efficiency.
Resistance 0.7 cmH ₂ O/L/s @ 720L/min
Deadspace 75 mls
No latex

TEKNİK ÖZELLİKLER

Tek kullanımlıktır.
Bakteriyel ve Viral olarak etkilidir.
Yüksek özellikli güçlü yapıya sahiptir.
Elektrostatik Filtre.
99.9999% Bakteriyel Etkinlik.
99.9999% Viral Etkinlik.
Resistance 0.7 cmH ₂ O/L/s @ 720L/min
Aralık 75 mls
Latex içermez.

MN 912-01





**William Thomas Green
MORTON** (1819 - 1868)

Discoveries and medical inventions had transformed life of several civilizations, turning it possible with less suffering and for a longer time. However, nothing would be possible or bearable if it was not discovered a form to win the pain, challenge that has always imposed itself as an objective for the scholars of medical science since Hippocrates.

Therefore, it is not possible to talk about the great inventions of medicine without a generous chapter dedicated to the one who discovered how to make possible a surgery with general anesthesia. It happened in 1846, in Boston city, in the United States of America, when the American dentist Thomas Green Morton, for the first time, used ether to accomplish a surgery.

This fact happened in the surgical amphitheatre of General Massachusetts Hospital and, even so Morton was a dentist, he was there because he had idealized an ether inhalator device, created from several Morton experiences with the use of inhaled ether to accomplish dental extractions without pain. Imagining the possibility of a surgery without pain, the dentist requested an authorization to try its device in a bigger surgery. The patient was a young boy of 17 years old, named Gilbert Abbot, who had a tumor in the neck. Next to the surgeon John Collins Warren, Thomas Green Morton participated of the surgery, considered a success and the first concrete experience of general anesthesia.

Although the first step toward the discovery of how to anesthetize patients had been given for Joseph Priestley, in 1773, with the discovery of the dioxide of nitrogen (NO_2), others experiences made with the method had not occasioned the desired effect, and were a risk for the life of those who participated of the experiments.

Thomas Green Morton in his researches always wanted to study forms of using an anesthetic that could help in the control of pain, without risk to whom made use of it. He consulted a chemistry professor that suggested the use of sulphuric ether. The results had been as favorable as the certainty that medical science was giving a giant step for overthrowing an important paradigm.

Adı en uzun versiyonuyla William Thomas Green Morton' dur. İlk kez hekimlerin önünde anestezi uyguladığında, herkes amfide heyecanla ona bakıyordu, hastadan o alışıldık ilk çığlık gelmedi, devamı da.. en ufak bir yanlışıyla daha önce pek çok anestezi denemiş doktorun başına geldiği gibi dauhdas sesleri ve yuhalanma durumuyla karşı karşıya kalabilirdi, kalmadı.. önceleri hastaların büyük bir olasılıkla ölümle sonuçlanan bilinçleri tamamen yerinde olarak yapılan resmen canlı canlı deşildikleri, kollarının bacaklarının kesildiği korkunç acı dolu operasyonlarını tarihe gömdü, 19. yy'ı bir anlamda baştan yarattı. Mucizeyi gerçekleştirdi.. acıya son verdi.

Boston'lu, Diş Hekimi olan Morton japon balıklarına, köpeğine ve kendisine anestezi uygular. Ancak 1846'da, buluşu olan eter narkozunu tıp adamlarına sunmaya cesaret eder. Cam piston, lastik hortum, solunum supabı Morton'un buluşunu tanıttığı yıl Squireas Mark adlı aygıt yardımıyla yapılan ilk bacak kesme operasyonu 28 saniye sürer. 16 Ekim 1846'da Boston'daki Massachusetts General Hospital'da dişhekim William Thomas Green Morton, 52 yaşında bir erkek hastanın (Edward Gilbert Abbott) boyun bölgesindeki bir tümörün cerrah Dr. Warren tarafından çıkarılması sırasında "dietyl eter" kullanarak başarılı bir genel anestezi uyguladı (Crawford w. Long adlı Georgia'lı bir hekim de 1842'den başlayarak eter kullanmış, fakat sonuçları 1848'da yayımlanmıştır). Bu olay, başta cerrah Dr. Warren'ın kendisi olmak üzere izleyenler tarafından "tıpta devrim" diye nitelendirildi ve yöntem hızla yaygınlaşarak, 2 yıl içinde ABD ve Avrupa'da yaygın biçimde uygulanmaya başlandı. Günümüzde 16 Ekim 1846 tarihi, genel anestezinin halka açık ilk gösterimi olarak kabul edilmektedir.

Dünya 30 Eylül 1846 Massachusset General Hospital'de MORTON' un yapıt Eter Anestezisi gösterisini modern anestezinin başlangıç olarak kabul etmiştir. Bilim dalının adı ise MORTON' un kendisi gibi anestezi ile uğraşan ve daha çok azot protoksit üzerinde çalan O.W.HOLMES'e yazdığı 21 Kasım 1846 tarihli mektupta "Yaptığımız işin adı ANESTEZİ olsun" önerisi sonucunda koyulmuştur.

Kelime Latince kökenli olup, "estezia"= duyu, his kelimesinden başma "an" olumsuz eki getirilerek türetilmiştir (Hissizlik & duyusuzluk). "Narcose" = narkoz kelimesi de Latince kökenli olup stupor (hastanın ancak tekrarlayan şiddetli uyarılarla uyan- dırılabilirdiği derin uyku veya cevapsızlık durumudur. Uyarı azalınca hastalar cevapsızlık durumuna dönerler) torpör (cansızlık, hissizlik, hareket yeteneğinde kay- ıp) anlamına gelmektedir. Ancak Anestezi her zaman bilinç kaybı ile birlikte olmadı- ğından bilim dalının ad olarak Anestezi kelimesi daha doğru bir adlandırma olarak kabul edilmiştir.



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In memory of William Morton



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