





We Produce For Your Health





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ABOUTUS



Amedus[®] and TopiVac[®] Wound Care Family produces domestic and national high-tech wound care treatment devices and dressing sets for all types of wounds and in chronic wound care. Offers modern and innovative approaches in wound care treatment.

Amedus, especially health, took part in the Scientific Research Projects of universities, in the design and production of special projects, and continues to add value to our country's economy with its ongoing projects and exports to more than 68 countries.

Our company's ISO 13485.2016 medical device quality management system compliance and product-based compliance with MDD 93/42/EU – 2007/47/EU Medical Devices Directive has been achieved.

MISSION

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Continuing its activities by adhering to ethical values and achieving growth without distancing from the values of our country and Teknomar Group members will always be the target. In order to meet the changing and increasing customer expectations, to follow the technological innovations, to make production at the desired quality standards by making continuous R&D and improvement and to be a reliable and respected company that uses the country's resources effectively.

VISION

To be an entrepreneurial, customer-oriented, innovative and lean institutional medical device company.

VALUES We:

Love people, Believe in ethical values, Are environmentalist, Are innovative, Are customer oriented, Are technology followers, Care about our employees and teamwork.



T- NPWT Hybrid Topical Wound and Burn Therapy Devices and Dressing Sets in Professional Wound Care

WHAT'S THE TOPIVAC TOPICAL HYBRID WOUND

TREATMENT SYSTEM?

- TopiVac Professional Hybrid NPWT, T-NPWT Topical Wound Treatment Device is a Topical Vacuum Ozone, Oxygen Therapy Applied, Irrigation, Electrostimulated, Vacuum - Assisted Wound and Burn Treatment Device.
- TopiVac Professional Hybrid Topical Wound Treatment Device and Dressing are an active hybrid system that applies controlled local negative pressure that supports healing in noninvasive acute, infected and chronic wounds and irrigates the wound bed with topical fluids.
- Increases the life quality of the patient and reduces the treatment costs. Heals wounds faster and more effectively than conventional vacuum-assisted devices on the market. Enables clinical studies for physicians.



WHAT'S THE TOPIVAC TOPICAL HYBRID WOUND

TREATMENT SYSTEM?

• TopiVac Wound Care Device is a non-invasive wound treatment method developed by TEKNOMAR, which has proven itself in wound healing. This treatment unit is needed to apply topical hybrid treatment methods to the wounded area.

• TopiVac, consists of a device and set that can be used in the treatment of burn wounds and all kinds of open wounds, both to create a vacuum to provide subatmospheric pressure on the wound and to create negative pressure on the closure set, and to create the oxygen, ozone and moisture required for the rapid healing of the wound.

 TopiVac Professional Hybrid Topical Wound Treatment Device has a wide variety of disposable components.



WHAT'S THE TOPIVAC TOPICAL HYBRID WOUND

TREATMENT SYSTEM?

• TOPI disposable group is designed for the end user & home care, while the Hand and Medium group devices offer more complex treatment systems. Professional models also include wound irrigation, gas therapy with oxygen and ozone, moistening and electrostimulation treatment methods.

• By applying all these treatments with a single device, obstacles to the normal healing process of the tissue are removed; complications, hospitalization period and cost are reduced.

• Prevents tissue dryness by providing the sterile and moist environment necessary to preserve tissue functions in the wound, and removes exudate and toxic substances from the wound bed without drying the wound centre.

 Briefly, TopiVac is an advanced-technology treatment system that allows the healing of burn tissue and open wounds quickly and under appropriate conditions, away from the risk of infection.





TOPIVAC PROFESSIONAL CLINIC T-NPWT TOPICAL WOUND THERAPY DEVICES

More Than Vacuum Therapy

SECTION 2



PROFESSIONAL CLINIC TYPE HYBRID TOPICAL GAS VACUUM ASSISTED WOUND THERAPY DEVICES

The devices allow you to apply the right treatment to the patient in the fastest way, depending on the type of wound or burn, thanks to the easy-to-use main and intermediate menu.

Its user-friendly software where you can apply ready-made prescriptions provides the fastest application of the most accurate treatment specific to the patient and the wound.

Easy to carry thanks to its ergonomic structure.

It is made of, cleanable, antibacterial material suitable for use in services and intensive care. It is a complex system and form of treatment, unlike known vacuum-assisted closure dressings.

TOPIVAC CLINIC V4 PROFESSIONAL TYPE HYBRID **TOPICAL WOUND THERAPY DEVICE**

Medium Clinic V4 Topical Vacuum Wound and Burn Therapy Device is a system that has oxygen & ozone gas therapy, moistening, wound irrigation with both oxygen & ozone and with any medicine of the physician's choice, also tens therapy (electrostimulation).

Consists of an advanced device and wound closure sets that can be used in the treatment of burn wounds and all kinds of open "EVERY CASE IS AN ARTICLE" wounds, both to create a classic vacuum to provide sub atmospheric pressure on the wound and to create negative pressure on the closure set, and to create the oxygen, ozone and moisture required for the rapid healing of the wound.

All functions are performed under vacuum.



TOPIVAC CLINIC V4 PROFESSIONAL TYPE HYBRID TOPICAL WOUND THERAPY DEVICE

This complex system is the first and only in the world, and has been proven to provide much faster wound healing than conventional VAC treatment.

- Accelerates the healing process with the oxygen it gives to the wound bed.
- Thanks to ozone gas, destroys the infection and prevents re-infection.

Thanks to its electrostimulation feature, which is based on activating the skin, subcutaneous tissues and deep muscle groups with high-frequency electrical impulses, accelerates the healing process in the wound and muscle tissue and reduces pain.



Vacuum Assisted Therapy T-NPWT

Conventional vacuum assisted therapy standard negative pressure wound dressing; It is an active system that supports healing in non-invasive acute and chronic wounds and applies controlled local negative pressure. It is known that the negative pressure wound closure system accelerates tissue healing by increasing microcapillary circulation, but cannot prevent the development of infection in a closed environment and does not provide enough removal of necrotic material.

Vacuum Assisted Therapy & Wound Irrigation

Conventional vacuum assisted therapy + oxygenated water, ozonized water or bidistillated water

Gas Therapy

Oxygen (O₂) or Ozone (O₃) Gas

Vacuum Assisted Therapy & Gas Therapy (O, / O,)

Conventional vacuum assisted therapy + Oxygen (O_2) or Ozone (O_3) Gas

Vacuum Assisted Therapy & Gas Therapy (O₂ / O₃) & Wound Irrigation

Conventional vacuum assisted therapy + Oxygen (O_2) or Ozone (O_3) Gas

+ Oxygenated water, ozonized water or bidistillated water

Electrotherapy (E.Tens)

Supporting pain treatment and wound healing with electrostimulation, providing polarization in granilization.

Irrigation Negative Pressure Wound Dressing

In addition to being a system that supports healing in non-invasive acute and chronic wounds and applies controlled local negative pressure, the application of the MultiDRESS closure set ensures homogenized distribution of the irrigation solution sent to the wound centre from the wound edges to the wound center, and necrotic tissue is removed from the wound from a different channel without touching the healthy tissue. In this way, the risk of infection is minimized.

Wound Irrigation With Oxygenated Bidistillated Water

TopiVac Clinic delivers the oxygen and oxygenated liquid in MultiCASE to the wound centre with the MultiDRESS wound closure set before irrigation.



TOPIVAC CLINIC V2 PROFESSIONAL TYPE HYBRID TOPICAL WOUND THERAPY DEVICE

Medium V2 Topical Vacuum Oxygen Therapy Applied, Irrigation, Wound and Burn Treatment Device;

Unlike conventional vacuum assisted closure dressings, is a complex system and form of treatment.

Enables both oxygen gas therapy and irrigation and moistening with oxygenated bidistillated water to the wound under vacuum. Thus, accelerates the healing process with the oxygen gives to the wound bed.

Provides the revival of organic functions and the activation of the immune system at the cellular level.



TOPIVAC CLINIC V2 PROFESSIONAL TYPE HYBRID TOPICAL WOUND THERAPY DEVICE

Diffuses the oxygen it gives to the wound bed directly to the cell, thanks to special wound closure sets, and accelerates the healing process at the cellular level, prevents the reproduction of bacteria and microorganisms and helps to strengthen the leukocyte activation in the wound area. With this respect, it is much more effective than the classical VAC system and offers rapid recovery.





С С

Vacuum + O_2 Gas + Wound Irrigation Therapy with O_3 Bidistillated Water

Before Treatment

After 6 Days





Wound Therapy with Vacuum + Ozone Gas

Before Treatment



In treatment

After 3 Sessions





TOPIVAC CLINIC T-NPWT WOUND THERAPY DEVICES

SECTION 3



TopiVac Hand Classic & Hand Digital Irrigation Vacuum-Assisted (NPWT) Wound Closure Therapy Devices

It is an active system that applies controlled local negative pressure that supports healing in noninvasive acute and chronic wounds.

It continuously draws exudate (wound fluid) from the wound by means of a special sponge (foam) dressing set (TopiVac MultiDRESS) specially produced for the device applied to the wounded area.

Provides that the negative pressure is evenly distributed over the wounded area. Heals the wound by forming granulation. The negative pressure wound closure system accelerates tissue healing by increasing microcapillary circulation.

Hand T-NPWT digital irrigation device; on the other hand, provides the removal of exudate and necrotic materials from the wound bed by irrigating the wound together with the closure sets, as a support of VAC treatment.



TOPIVAC WOUND THERAPY DRESSING CONSUMABLES

SECTION 4





MULTIDRESS

• MultiDRESS is a dressing set with a special sponge (foam) applied to the wounded area, specially produced for the device, and provides equal distribution of negative pressure to the wounded area. Accelerates tissue healing by forming granulation and helps the wound to heal.

The sets are diversified in size and shape. There is a wide range of sizes and shapes available. However, according to the purposes of use.

• MultiDRESS sets are classified in 3 different groups as single ventouse, double ventouse and incision.

- Our single ventouse sets; only suitable for use in conventional vacuum-assisted therapy. (There is also an abdominal model.)

- Our double ventouse sets; are suitable for use in wound irrigation device models. Used in O_2/O_3 gassing and irrigation treatment as well as classic vacuum therapy.

- Our incision sets; are suitable for use in incision wound treatments after surgical operations.









- Helps the formation of granulation in the wound.
- Provides the wound exudate to be absorbed.
- It is hydrophobic, soft and porous.
- Has high durability and flexibility.
- Allows the passage of gas and does not stick to the wound.
- They fit perfectly when placed in the wound centre.
- Accelerates the healing process at the cellular level by delivering the oxygen and ozone given to the wound bed under negative pressure with the device to the wound without damaging the tissue and directly diffusing it into the cell.
- Together with the device, inhibits the growth of anaerobic bacteria and helps to strengthen the leukocyte activation in the wound area.
- Not interact chemically with ozone gas and oxygen.

It is a component that is placed on the wound and foam, to fix the foam and to enable the active device to vacuum, cut the contact of the wounded surface with the air and provide a negative pressure environment.

- Provides a strong and flexible adhesive bond to maintain an active lifestyle while keeping the dressing intact.
- Acts as a good barrier against bacteria.
- While it is providing soft and safe adhesion to the wound circumference and healthy skin, reduces pain during dressing changes.
- Resistant to sweat and liquids.
- Has the feature of staying on the skin for a long time.





• It is the cup used to transfer the irrigation liquid to the patient for irrigation and gas treatment. Has device and patient connections and is used as a mix ozone generator in the O_2/O_3 gassing & irrigation treatment function.

 Also enables putting medicine in the irrigation liquid. (The bidistillated, oxygenated, ozonized or medicated water to be used should be applied with a doctor's prescription and control.) Irrigation hose and collecting hose are separate from each other, eliminating the risk of infection and cross-contamination.

• The products are sterile and disposable.

• The Canister is the collecting unit for TopiVac devices from which exudate from the wound is drawn. Contains a solidifying gel. Thanks to this special gel, the exudate liquid becomes solid.

• The solidifying gel in each collecting set prevents the movement of the collected waste liquid and increases the safety of the environment. The collecting sets are integrally connected with the vacuum device. The luer-lock spout allows an easy and safe connection with the closure on the wound.

It is available in 3 different sizes; 500 ml, 1000 ml to be used in Hand and Medium models, and 75 ml to be used in Topi models. TopiVac brand Canisters are compatible with and used together with TopiVac Series Wound Care Devices.



Products are sterile and disposable.



OZONEBAG

Used in ozone gas therapy application of Medium Clinic V4 devices to provide tightness for effective dressing and to trap ozone inside. Foot & leg – Hand & arm and Body models are available. It is EO sterile.

TOPISET

Topiset is an integrated wound care treatment set used in the TopiVac Medium Clinic V4 model, which enables the application of all hybrid treatments. With this set, O_2/O_3 gas therapy, TENS therapy, vacuum therapy and wound irrigation with O_2/O_3 bidistilled water are all combined.





TOPI MOBILE DISPOSABLE NPWT WOUND TREATMENT DEVICES & SET

SECTION 5

Advanced Wound Management

 It's a negative pressure wound treatment with a single treatment protocol, designed for single patient use.

• The negative pressure wound closure system accelerates tissue healing by increasing microcapillary circulation. The device and dressing set operate in harmony and integration with each other.

• The system is an active wound treatment system that maximizes patient treatment comfort. Its compact and ergonomic mobile structure (the size of a mobile phone) offers patients quality life and comfort of movement without restricting their daily lives and mobility during wound treatment processes.

• While it heals wounds quickly and effectively, reduces the need for expert personnel with its ease of application and provides ease of home wound care and mobility to patients.

• Reduces hospitalizations, lowers treatment costs and provides more efficient and widespread delivery of health services.



TOPIA100 MOBILE DISPOSABLE CLASSIC NPWT VACUUM ASSISTED WOUND CARE THERAPY DEVICE TOPI A100 continuously draws exudate from the wound via a special dressing set applied to the wounded area specially produced for the device; provides equal distribution of negative pressure to the wounded area.

Heals the wound by forming granulation.

3 different vacuum modes;

-75 mmHg -100 mmHg -125 mmHg




TOPI A100 MOBILE DISPOSABLE CLASSIC NPWT VACUUM ASSISTED WOUND CARE THERAPY DEVICE

FIELDS OF USAGE

- Diabetic Foot Wound,
- Pressure / Bedsore Wound,
- Chronic Wound,
- Non- Healing Wound,
- Burn Wound,
- Infected Wound

Used for rapid healing of all kinds of wounds up to 100 cm² with the approval of the physician.



TOPI A200 MOBILE DISPOSABLE INCISION NPWT VACUUM ASSISTED WOUND CARE THERAPY DEVICE

TOPI A200 continuously draws exudate from the wound via a special dressing set applied to the wounded area specially produced for the device; provides equal distribution of negative pressure to the wounded area.

Unlike the A100, the A200 is designed for use post-operative incision wounds. Vacuum values are lower and with its special medical foam specific for incision wounds, keeps the incisionedgestogether without damaging the sutures, provides rapid healing of the wound and helps to prevent scarring aesthetically.







TOPI A200 MOBILE DISPOSABLE INCISION NPWT VACUUM ASSISTED WOUND CARE

THERAPY DEVICE

FIELDS OF USAGE

- Incision wounds,
- Chest and plastic surgery wounds,
- Orthopaedic surgery wounds,
- Cardiothoracic surgical wounds,
- Vascular surgical wounds,
- Obstetric & gynaecological surgery wounds,
- Caesarean section wounds and similar wounds,

Used by physicians after surgery to reduce the risk of hospital infection, to prevent the wound from becoming infected, to heal the wound quickly, to prevent scarring and for drainage purposes.

TOPI Mobile Disposable NPWT Vacuum Assisted Wound Care Therapy Set



TOPI Mobile Disposable NPWT Vacuum Assisted Wound Care Therapy Set Includes 1 Protocol and 5 Dressing Treatment Sterile Products.

- 1 TOPI Mobile Disposable NPWT Vacuum Assisted Wound Care Therapy Device (TOPI A100 or TOPI A200)
- 5 Pcs Dressing Foam Set* (Classic or Incision)
- 5 Pcs 75 cc Canister
- 1 Pcs Extension Hose
- 1 Pcs 30x40 cm Drape
- I Pcs Device Carry Bag



* While Classic NPWT Dressing Foam Set (100*100mm) is used for TOPI A100, Incision NPWT Dressing Foam Set (45*220mm) is used for TOPI A200. 5 CLASSIC DRESSING SET PRODUCT INFORMATION INCLUDING TOPI A100 MOBILE DISPOSABLE DEVICE







NPWT Vacuum Assisted Wound Care Therapy Device

Classic Dressing Foam Set → 10*10 cm Dressing Foam





75 cc Canister

30*40 cm Drape





Extension Hose

Device Carry Bag



Disposable Device and 5 Piece Dressing Set Safe Medical Travel Carrying Bag 5 INCISION DRESSING SET PRODUCT INFORMATION INCLUDING TOPI A200 MOBILE DISPOSABLE DEVICE





Connection Diagram



Practical and Easy to Use

• Ease of starting and ending treatment with one button.

- Visual & Audible Warning System

 High security with visual & audible warning system. (Instant alert during vacuum leak, full canister and low battery)



• Optimum breathability for the patient's healthy skin while maintaining a vacuum environment for the wound.

 Special foam system used for sucking exudates and any wound fluids by creating a hygiene environment in the wound.

$\stackrel{\text{PO}}{\longrightarrow}$ User Friendly

- Zero cross-contamination risk.
 - Zero cost for preventive maintenance.
 - Canister-based system for effective exudate management

 A small lightweight design that is easy to wear or hang on the body, can be hidden under clothes, helps you continue your social life uninterrupted without anyone noticing.

 Thanks to its innovative design that allows silent operation during therapy, does not disturb you even in your sleep.

Uninterrupted treatment thanks to efficient battery usage.

Beyond That Is The Patient Comfort 43

TOPI -----

Heals wounds more quickly and effectively.

Increases the life quality of the patient and reduces the treatment costs.

Provides ease of wound care at home without expert personnel. Adaptable from hospital to long-term care, outpatient settings or home care.

Helps you continue your social life uninterrupted without anyone noticing.

Provides quality life and movement comfort with its compact mobile structure.

Special dressing set provides a strong adhesive bond to maintain an active lifestyle while keeping the dressing intact during treatment.



Quality Life, Movement Comfort









	WOUND CARE DEVICES AT HOME		CLINIC WOUND CARE DEVICES		PROFESSIONAL HYBRID CLINIC WOUND CARE DEVICES	
	TOPI A100 CLASSIC	TOPI A200 INCISION	HAND T-NPWT CLASSIC	HAND T-NPWT IRRIGATION	MEDIUM V2	MEDIUM CLINIC V4
TREATMENT METHODS			NEW CASE SERIES	NEW CASE SERIES	NEW CASE SERIES	
Vacuum	+	+	+	+	+	+
Intermittent & Increasing Vacuum	-	-	+	+	+	+
Wound Irrigation	-	-	-	+	+	+
Irrigation Type	-	-	-	Bidistillated Water	Bidistillated Water With O ₂	O2 & O3 Bidistillated Water
Moistening	-	-	-	+	+	+
Gas Therapy	-	_	-	-	O ₂	O ₂ & O ₃
Tens	-	-	-	-	-	+

BIOCOMPATIBILITY TEST REPORTS TOPICAL VACUUM THERAPY SET

(MultiDRESS, MultiCASE, Canister, Ozone Bag, TopiSET)*

- Acute Systemic Toxicity Test (ISO 10993-11)
- Skin Irritation Test (ISO 10993-10)
- Skin Sensitization Test (ISO 10993-10)
- Genotoxicity Assay (In Vitro Micronucleus Test, OECD 487)
- Genotoxicity Test (Mutation Test-Ames Test, OECD 471)
- In Vitro Cytotoxicity Assays (ISO 10993-5)
- Implantation Test (ISO 10993-6) (1-6 Weeks) Rabbit
- Pyrogenicity Test
- Subacute Systemic Toxicity Test (ISO 10993-11)
- Bioburden (Aerobic, Mold And Yeast) Assay (ISO 11737-1)
- Bioburden (Anaerobe) Assay (ISO 11737-1)
- Sterility Test (ISO 11737-2)
- Residue Test (Ethylene Chlorohydrin) (ISO 10993-7)
- Residue Test (Ethylene Oxide) (ISO 10993-7)

*Contact with human tissue is through sets connected to the devices. The device itself does not come into contact with the body and tissue. All the tests and experiments have seen above were generally made by the 'Topical Vacuum Treatment Set' to cover all models and sub-components of the models.

ELECTRICAL MEDICAL EQUIPMENT TEST REPORTS

ΤΟΡΙ

- **EN 60601-1:2006**
- EN 60601-1-2:2015
- **EN 60601-1-6:2010/A1:2015**
- EN 60601-1-8:2007/A11:2017
- EN 60601-1-11:2015

HAND MEDIUM

- **EN 60601-1:2006**
- EN 60601-1-2:2015
- EN 60601-1-6:2010/A1:2015

The device is used together with the sets, with a doctor's prescription, only for patients who have been deemed suitable for treatment by the doctor.







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Topivac NPWT

Thank You For Your Attention

TOPIVAC Family