V.A.C.Ulta™
Negative Pressure Wound Therapy System
The evolution of V.A.C.® Therapy

Unique integrated dual technology wound therapy

Trusted V.A.C.® Therapy System
+
NEW V.A.C. VeraFlo™ Therapy
V.A.C.® Therapy plus controlled instillation, soaking, and removal of wound irrigation solutions
Trusted V.A.C.® Therapy
V.A.C.® Ulta™ Negative Pressure Wound Therapy System

Advances therapy from InfoV.A.C.®, V.A.C. ATS®, and other negative pressure wound therapy (NPWT) systems to include new V.A.C. VeraFlo™ Therapy:
- Provides proven V.A.C.® Therapy benefits¹⁻⁴

V.A.C.® THERAPY
- Promotes wound healing through granulation tissue formation and maintenance of moist wound healing¹⁻⁴
- Clinical studies in a variety of wound types have shown the potential to reduce costs by helping to reduce:
  - Length of stay²⁻⁴
  - Readmission¹,⁹
  - Surgical procedures¹⁰
- Established mechanisms of action:

MACROSTRAIN:
- Draws wound edges together²
- Removes exudate²
- Removes infectious material⁶
- Reduces edema²⁻⁴

MICROSTRAIN:
- Promotes perfusion and granulation tissue formation¹⁻⁴

Customized pressure algorithms with V.A.C.® Therapy provide:
- Continuous negative pressure from −25 to −200 mmHg¹¹
- Dynamic Pressure Control™️: The evolution of intermittent therapy
  - Maintenance of −25 mmHg between cycles, helping prevent leaks and fluid accumulation at the wound site¹¹
  - May help to minimize patient discomfort from foam expansion and compression that can occur with traditional intermittent therapy, where negative pressure returns to 0 mmHg between cycles.
  - Customizable therapy settings, including cycle time and negative pressure¹¹

V.A.C.® Therapy modes

INDICATIONS
- Chronic, acute, traumatic, subacute, and dehisced wounds¹¹
- Partial-thickness burns¹¹
- Ulcers, including diabetic, pressure, and venous insufficiency ulcers¹¹
- Flaps and grafts¹¹

DRESSINGS
- V.A.C.® GranuFoam™️, V.A.C. GranuFoam Silver®, and V.A.C.® WhiteFoam® Dressings
  - Optimal for use with V.A.C.® Therapy

NOTE: Refer to the device and disposables packaging for important information, warnings, and precautions as well as detailed instructions for use.
Unique V.A.C. VeraFlo™ Therapy

V.A.C. VeraFlo™ Therapy combines the benefits of V.A.C.® Therapy with automated solution distribution and removal. It can help

**Cleanse**
- The wound with instillation of topical wound cleansers in a consistent, controlled manner

**Treat**
- The wound with the instillation of appropriate topical antimicrobial and antiseptic solutions and the removal of infectious material

**Heal**
- The wound and prepare for primary or secondary closure

**DRESSINGS**
- V.A.C. VeraFlo™ or V.A.C. VeraFlo Cleanse™ Dressing
  - Specially engineered dressings with decreased hydrophobic characteristics and increased tensile strength
  - Also compatible with V.A.C.® Therapy
  - No dressing or canister change required if treatment switched from V.A.C. VeraFlo™ Therapy to V.A.C.® Therapy before next dressing change

**IRRIGATION SOLUTIONS COMPATIBLE WITH V.A.C.ULTA™ Negative Pressure Wound Therapy System**
- Hypochlorite-based solutions (such as Dakin’s Solution ≤0.125%)
- Silver nitrate (0.5%)
- Biguanides (polyhexanide)
- Cationic solutions (such as benzalkonium chloride)
- Isotonic solutions (such as normal saline)

* Refer to solution manufacturer’s labeling for solution-specific considerations.

**CUSTOM THERAPY SETTINGS**
- Customize V.A.C. VeraFlo™ Therapy to patient wound care needs:
  - Instillation volume: 10 to 500 mL
  - Soak time: 1 second to 30 minutes
  - V.A.C.® Therapy time: 3 minutes to 12 hours
  - Continuous negative pressure settings: −50 to −200 mmHg

**ADVANCED FEATURES OF V.A.C.ULTA™ Negative Pressure Wound Therapy System**
- **Fill Assist Tool:** allows the clinician to determine the appropriate instillation volume. Once this volume is determined, the V.A.C. Ultra™ Negative Pressure Wound Therapy System automatically delivers the selected volume for each instillation phase.
- **Test Cycle Tool:** runs an abbreviated instillation cycle to ensure the system is set up and functioning properly.
- **Dressing Soak Tool:** allows the clinician to soak the dressing with instillation solution to simplify dressing removal and increase patient comfort.

**Contraindications**
- Do not use Octenisept®, hydrogen peroxide, or alcohol-based solutions with dressings.
- Do not deliver fluids to the thoracic or abdominal cavity due to the potential risk to alter core body temperature and the potential for fluid retention within the cavity.

**NOTE:** Refer to the device and disposables packaging for important information warnings and precautions as well as detailed instructions for use.
Potential Benefits of V.A.C. VeraFlo™ Therapy:

- Useful initial therapy after debridement of infected wounds:
  - Combined effects of integrated V.A.C.® Therapy and instillation of topical wound solutions
  - Can reduce need for manual irrigation with its cross-contamination risks
  - Availability of customizable therapy settings
  - Advanced software tools to help simplify therapy

- Porcine studies have shown superior granulation tissue formation following saline instillation compared to V.A.C.® Therapy alone
* These results have not yet been confirmed in human studies

Figure 3. In a porcine wound model, after 7 days’ treatment, V.A.C. VeraFlo™ with V.A.C. VeraFlo™ Dressing was associated with a 43% increase (p<.05) in granulation tissue formation compared with traditional V.A.C.® Therapy with V.A.C.® GranuFoam™ Dressings.

Clinical use of negative pressure wound therapy with instillation (NPWTi)

- Instillation of topical antimicrobials or antiseptics plus V.A.C.® Therapy may act synergistically in the treatment of colonized, contaminated, and infected wounds
  - V.A.C. VeraFlo™ Therapy facilitates the removal of infectious materials, such as cytotoxic bacterial cytokines (exotoxins, endotoxins, and matrix metalloproteinases), which stall wounds in the chronic inflammatory phase and prevent healing

Indicated wound types:

- Open Wound Types
  - Acute, traumatic
  - Dehisced
  - Chronic
  - Pressure ulcers
  - Diabetic foot ulcers
  - Venous ulcers

- Factors That May Compromise Healing
  - Contamination or infection
  - Susceptible host (poor immune system)
  - Comorbidities (e.g., diabetes and smoking may impact patient’s ability to fight bacteria and heal)
  - Edema
  - Resistant bacteria
  - Poor hygiene or wound care

- Benefits of V.A.C. VeraFlo™ Therapy
  - Instillation of topical wound cleansers and topical antimicrobial or antiseptic solutions
  - Removal of infectious material
  - Controlled, protected environment for flushing and cleansing wounds
  - Protection from external contamination sources
11. V.A.C.Ulta™ Negative Pressure Wound Therapy System Monograph. KCI 2012. (DSL#12-0118.US)

NOTE: Specific indications, contraindications, warnings, precautions, and safety information exist for KCI products and therapies. Please consult a physician and production instructions for use prior to application. This material intended for healthcare professionals.