



# Wound Drainage



## Systems and Accessories for Wound Drainage



## Hemovac Infection Control Kit for Increased Protection

The *Hemovac* Infection Control System consists of a specially designed 400ml evacuator and a disposable exudate bag. Both combine to form a closed system, minimizing the clinician's exposure to blood. An innovative ball valve in the bag attachment spout on the evacuator, and a one-way flutter valve in the disposable exudate bag keep all fluids confined within the system. Drainage records can be written on the area provided on the exudate bag. The exudate bag holds up to 450ml of fluid and, when full, is simply detached and discarded.

**The closed system minimizes the clinician's exposure to blood.**

### Emptying Procedure



1. Hold *Hemovac* Evacuator vertically so the bag is hanging straight down.



2. Compress the *Hemovac* Evacuator completely. Exudate will flow into the bag. Tilt evacuator back to a level position, then release pressure.



3. Read graduated markings on bag to determine volume. Record volume/output on space provided on outside of exudate bag.

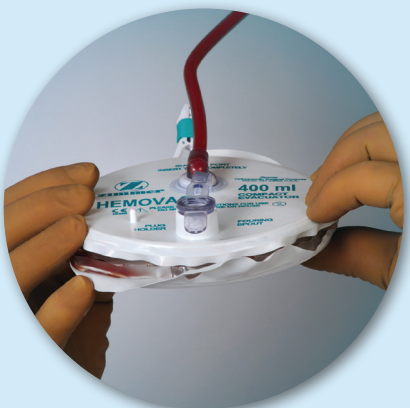


4. To discard bag, unscrew nozzle from attachment spout, apply attached cap and discard.



### Hemovac 400ml Compact Evacuator

- Easy to activate
- Readily compresses with little effort
- Plug may be pre-positioned for ease of activation and closing
- Large pouring spout is located close to the edge of the evacuator
- During emptying, plug holder keeps plug away from flow to help minimize cross-contamination
- Evacuator can be secured to patient or bedding with the convenient attachment clip



### Infection Control Minibulb System

The *Hemovac* Infection Control Minibulb System makes emptying exudate easy while minimizing the clinician's exposure to blood. The collection bag holds up to 150ml and can be securely attached to the evacuator with a luer-lock connector. One-way flutter valve keeps all collected fluids confined within the system. When full, the bag is simply discarded.



## Silicone Drains for Comfort and Easy Removal

- Wide range of sizes and shapes for multiple applications
- Silicone material offers softness, biocompatibility and elasticity
- Flat and round drain designs with choice of: full perforation,  $\frac{3}{4}$  perforation, mid-perforation, or end perforation
- Extended length available
- Indicator dot for correct depth of drain placement
- Available with and without trocars for optimal flexibility
- Kits available with 100ml and 400ml evacuators

## PVC Round Drains For Strength and Collapse Resistance

- Evenly spaced perforations designed to minimize debris collection within wound
- 90 degree spacing of perforations may optimize drainage from multiple directions
- Dual trocar drains are available which may help to reduce transfer of surface microorganisms into wound during drain placement
- Indicator dots located 2 inches (5cm) from perforated area assist in covert depth of drain placement
- X-ray detectable radiopaque line provides visualization of drain
- Drain sizes available: 1/4, 3/16, 1/8, 3/32 inches (6.4, 4.8, 3.2, 2.4mm)





## Solutions in Wound Drainage and Reinfusion

The *Hemovac*® Autotransfusion System (*H.A.S.*® Autotransfusion System) from Zimmer is a fully integrated, completely portable system that does not depend on external sources such as wall suction or batteries to operate. The system's low, gentle suction helps ensure the overall quality of blood to be reinfused.

The *Hemovac* Autotransfusion System provides everything needed for collection of post-operative drainage of the patient's own blood and for continued wound drainage after reinfusion: a collection unit, wound drainage tubing, dual trocars and an evacuator. By utilizing the *H.A.S.* System evacuator and collection bag for wound drainage post-reinfusion, the clinician's exposure to the patient's blood and body fluids is minimized.



## Dependable Hemovac Evacuator Technology in a Closed Loop System

The *Zimmer*® Blood Reinfusion System is an easy-to-use postoperative blood management tool that can help reduce the dependency on banked blood, including preoperative autologous donation. Fully integrated and completely portable, the *Zimmer* Blood Reinfusion System effectively salvages and filters the patient's own blood postoperatively. Unlike other systems that require mechanical devices or pumps, the *Zimmer* Blood Reinfusion System uses its own *Hemovac* Evacuator technology for low, gentle suction that helps reduce the risk of hemolysis. In addition, as a closed-loop system, the *Zimmer* Blood Reinfusion System also minimizes the clinician's exposure to the patient's blood during collection and reinfusion.



## Ordering Information

### Closed Wound Drainage

#### 400ml Hemovac Sets – with PVC Drain – 10/Box

REF	Description	Diameter	Trocar Length
00-2500-000-10	Hemovac Compact Evacuator Kit with PVC Drain	1/8" (0.32cm, 10 French)	5" (12.7cm)
00-2505-000-10	Hemovac Compact Evacuator Kit with PVC Drain	3/16" (0.48cm, 15 French)	5" (12.7cm)
00-2590-000-10	Hemovac Compact Evacuator Kit with Soft PVC Drain	1/4" (0.64cm, 19 French)	4" (10.16cm)
00-2590-040-10	Hemovac Compact Evacuator Kit with PVC Drain	1/4" (0.64cm, 19 French)	5" (12.7cm)
00-2595-000-10	Hemovac Compact Evacuator Kit with PVC Drain	3/32" (0.24cm, 7 French)	5" (12.7cm)
00-2500-700-10	Hemovac Compact Evacuator Kit with PVC Drain with Bonded Suction Port	1/8" (0.32cm, 10 French)	5" (12.7cm)
00-2505-700-10	Hemovac Compact Evacuator Kit with PVC Drain with Bonded Suction Port	3/16" (0.48cm, 15 French)	5" (12.7cm)
00-2590-700-10	Hemovac Compact Evacuator Kit with PVC Drain with Bonded Suction Port	1/4" (0.64cm, 19 French)	4" (10.16cm)
00-2500-004-10	Hemovac Compact Evacuator Component Kit – Includes Evac Tubing, Universal Y Connector, 4 Silicone Adaptors	–	–

#### 400ml Hemovac Sets – with Silicone Drain – 10/Box

REF	Description	Diameter	Trocar Length
00-2540-000-10	Hemovac Compact Evacuator Kit with Round Silicone Drain (Mid Perforated)	1/8" (0.32cm, 10 French)	5" (12.7cm)
00-2541-000-10	Hemovac Compact Evacuator Kit with Round Silicone Drain (Mid Perforated)	3/16" (0.48cm, 15 French)	5" (12.7cm)
00-2545-000-10	Hemovac Compact Evacuator Kit with Round Silicone Drain (Mid Perforated)	1/4" (0.64cm, 19 French)	5" (12.7cm)

#### 400ml Hemovac Infection Control Kits – 10/Box

REF	Description	Diameter	Trocar Length
00-2550-001-10	Hemovac Infection Control Kit with PVC Drain	3/32" (0.24cm)	5" (12.7cm)
00-2550-002-10	Hemovac Infection Control Kit with PVC Drain	1/8" (0.32cm)	5" (12.7cm)
00-2550-003-10	Hemovac Infection Control Kit with PVC Drain	3/16" (0.48cm)	5" (12.7cm)
00-2550-004-10	Hemovac Infection Control Kit with PVC Drain	1/4" (0.64cm)	4" (10.16cm)
00-2550-702-10	Bonded Hemovac Infection Control Kit with PVC Drain with Trocar	1/8" (0.32cm)	5" (12.7cm)
00-2550-703-10	Bonded Hemovac Infection Control Kit with PVC Drain with Trocar	3/16" (0.48cm)	5" (12.7cm)
00-2550-704-10	Bonded Hemovac Infection Control Kit with PVC Drain with Trocar	1/4" (0.64cm)	4" (10.16cm)
00-2550-050-10	Hemovac Infection Control Component Kit, for Use with Silicone Drains	–	–
00-1500-050-10	Infection Control Exudate Bag, Not a Closed-Loop System (450ml)	–	–

#### Mini-Bulb Kits / 100ml Hemovac Sets, for Use with Silicon Drains – 10/Box

REF	Description	Diameter	Trocar Length
00-2535-000-10	Hemovac End Perforated, Round with Trocar	3/32" (0.24cm)	5" (12.7cm)
00-2536-000-10	Hemovac End Perforated, Round with Trocar	1/8" (0.32cm)	5" (12.7cm)
00-2538-000-10	Hemovac End Perforated, Round with Trocar	1/4" (0.64cm)	5" (12.7cm)
00-2537-000-10	Hemovac End Perforated, Round with Trocar, Soft	3/16" (0.48cm)	5" (12.7cm)
00-2560-000-10	Hemovac Full Perforated, Flat with Trocar	7mmX20cm	5" (12.7cm)
00-2561-000-10	Hemovac Full Perforated, Flat with Trocar	10mmX20cm	5" (12.7cm)
00-2562-000-10	Hemovac 3/4 Perforated, Flat with Trocar	7mmX20cm	5" (12.7cm)
00-2563-000-10	Hemovac 3/4 Perforated, Flat with Trocar	10mmX20cm	5" (12.7cm)
00-2564-000-10	Hemovac Full Perforated, Flat without Trocar	7mmX20cm	–
00-2565-000-10	Hemovac Full Perforated, Flat without Trocar	10mmX20cm	–
00-2566-000-10	Hemovac 3/4 Perforated, Flat without Trocar	10mmX20cm	–
00-2567-000-10	Hemovac 3/4 Perforated, Flat without Trocar	10mmX20cm	–

#### Infection Control Mini-Bulb Kits / 100ml Hemovac Kits – 10/Box

REF	Description
00-2557-000-10	Infection Control System, Infection Control Collection Bag without Drain
00-2558-000-10	Infection Control Collection Bag (150ml)
00-2568-000-10	Mini-Bulb Hemovac Evacuator only

## Drains

### PVC Drains – 10/Box

REF	Description	Trocar Length	Diameter
00-1500-028-10	firm, no Trocar, End Perforated	–	1/8" (0.32cm)
00-1500-021-10	firm with Trocar, Mid Perforated	5" (12.7cm)	3/32" (0.24cm)
00-1500-022-10	firm with Trocar, Mid Perforated	5" (12.7cm)	1/8" (0.32cm)
00-1500-024-10	firm with Trocar, Mid Perforated	5" (12.7cm)	3/16" (0.48cm)
00-1500-025-10	firm with Trocar, Mid Perforated	5" (12.7cm)	1/4" (0.64cm)
00-1500-032-10	firm with Dual Trocar, Mid Perforated	6" (15.24cm)	1/8" (0.32cm)
00-1500-035-10	firm with Dual Trocar, Mid Perforated	6" (15.24cm)	1/4" (0.64cm)
00-1500-023-10	soft with Trocar, Mid Perforated	5" (12.7cm)	3/16" (0.48cm)
00-1500-033-10	soft with Dual Trocar, Mid Perforated	6" (15.24cm)	3/16" (0.48cm)

### Trocars only, for Use with PVC Drains – 10/Box

REF	Length	Diameter
00-1500-011-10	5" (12.7cm)	3/32" (0.24cm)
00-1500-005-10	5" (12.7cm)	1/8" (0.32cm)
00-1500-014-10	4" (10.16cm)	1/4" (0.64cm)
00-1500-020-10	5" (12.7cm)	1/4" (0.64cm)
00-1509-014-10	5" (12.7cm)	3/16" (0.48cm)

### Accessories for Use with PVC Drains – 10/Box

REF	Description
00-1500-002-10	Evacuator Tubing, Length 30" (76.2cm) – O.D. – 6.4mm, O.D. – 1/4" (0.64cm)
00-1500-015-10	Universal Y-Connector
00-1500-060-10	Suction Adapter for Hemovac Compact Evacuator
00-1535-000-10	Directional Flow Control

### Round Silicone Drains – 10/Box

REF	Description	Diameter	Drain Length	Trocar Length
00-2540-007-10	Drain, End Perforated	3/16" (0.48cm)	30" +/- 1" (76cm +/- 2.5cm)	–
00-2540-008-10	Drain, End Perforated	1/4" (0.64cm)	30" +/- 1" (76cm +/- 2.5cm)	–
00-2540-004-10	Drain, Mid Perforated	3/16" (0.48cm)	42" +/- 1" (107cm +/- 2.5cm)	–
00-2540-013-10	Drain, Mid Perforated	1/4" (0.64cm)	42" +/- 1" (107cm +/- 2.5cm)	–
00-2540-001-10	Drain with Adapter, End Perforated	3/32" (0.24cm)	60" +/- 1" (152cm +/- 2.5cm)	–
00-2540-002-10	Drain with Adapter, End Perforated	1/8" (0.32cm)	60" +/- 1" (152cm +/- 2.5cm)	–
00-2540-003-10	Drain with Adapter, Mid Perforated	1/8" (0.32cm)	42" +/- 1" (107cm +/- 2.5cm)	–
00-2540-010-10	Drain with Adapter, Mid Perforated	3/32" (0.24cm)	42" +/- 1" (107cm +/- 2.5cm)	–
00-2540-023-10	Drain with Trocar, End Perforated	3/16" (0.48cm)	30" +/- 1" (76cm +/- 2.5cm)	5" (12.7cm)
00-2540-024-10	Drain with Trocar, End Perforated	1/4" (0.64cm)	30" +/- 1" (76cm +/- 2.5cm)	5" (12.7cm)
00-2540-027-10	Drain with Trocar, Mid Perforated	3/16" (0.48cm)	42" +/- 1" (107cm +/- 2.5cm)	5" (12.7cm)
00-2540-028-10	Drain with Trocar, Mid Perforated	1/4" (0.64cm)	42" +/- 1" (107cm +/- 2.5cm)	5" (12.7cm)
00-2540-021-10	Drain with Trocar and Adapter, End Perforated	3/32" (0.24cm)	60" +/- 1" (152cm +/- 2.5cm)	5" (12.7cm)
00-2540-022-10	Drain with Trocar and Adapter, End Perforated	1/8" (0.32cm)	60" +/- 1" (152cm +/- 2.5cm)	5" (12.7cm)
00-2540-025-10	Drain with Trocar and Adapter, Mid Perforated	3/32" (0.24cm)	42" +/- 1" (107cm +/- 2.5cm)	5" (12.7cm)
00-2540-026-10	Drain with Trocar and Adapter, Mid Perforated	1/8" (0.32cm)	42" +/- 1" (107cm +/- 2.5cm)	5" (12.7cm)

### Flat Silicone Drains – 10/Box

REF	Description	Drain Width	Drain Length	Trocar Length
00-2540-069-10	Drain with Trocar, Full Perforated	7mm	20cm	5" (12.7cm)
00-2540-070-10	Drain with Trocar, Full Perforated	10mm	20cm	5" (12.7cm)
00-2540-071-10	Drain with Trocar, 3/4 Perforated	7mm	20cm	5" (12.7cm)
00-2540-072-10	Drain with Trocar, 3/4 Perforated	10mm	20cm	5" (12.7cm)
00-2569-000-10	Drain without Trocar, Full Perforated	7mm	20cm	–
00-2570-000-10	Drain without Trocar, Full Perforated	10mm	20cm	–
00-2573-000-10	Drain without Trocar, Full Perforated Extended Length	7mm	30cm	–
00-2574-000-10	Drain without Trocar, Full Perforated Extended Length	10mm	30cm	–
00-2571-000-10	Drain without Trocar, 3/4 Perforated	7mm	20cm	–
00-2572-000-10	Drain without Trocar, 3/4 Perforated	10mm	20cm	–

### Accessories for Use with Silicone Drains – 10/Box

REF	Description	Diameter
00-2540-016-10	Y-Connector, Round, No Flat Drains	3/32" (0.24cm) and 1/8" (0.32cm)
00-2540-017-10	Y-Connector, Round and All Flat Drains	3/16" (0.46cm) and 1/4" (0.64cm)
00-2540-018-10	Bifurcated Drain Extension	3/16" (0.46cm) and 6.5" (16.51cm)
00-2540-019-10	Suction Adapter for Mini Evacuator	–

## Autotransfusion

### Zimmer Blood Reinfusion System – 6/Box

REF	Description	Diameter	Trocar Length
00-2556-020-06	Zimmer Blood Reinfusion System with Dual Trocar, PVC Drain	1/8" (0.32cm, 10 French)	6" (15.24cm)
00-2556-030-06	Zimmer Blood Reinfusion System with Dual Trocar, PVC Drain	3/16" (0.48cm, 15 French)	6" (15.24cm)
00-2556-040-06	Zimmer Blood Reinfusion System with Dual Trocar, PVC Drain	1/4" (0.64cm, 19 French)	6" (15.24cm)
00-2556-060-06	Zimmer Blood Reinfusion System, no Drain	–	–

### Hemovac Autotransfusion System – 5/Box

REF	Description	Diameter	Trocar Length
00-2555-020-05	Hemovac Autotransfusion System with Dual Trocar, PVC Drain	1/8" (0.32cm, 10 French)	6" (15.24cm)
00-2555-030-05	Hemovac Autotransfusion System with Dual Trocar, PVC Drain	3/16" (0.48cm, 15 French)	6" (15.24cm)
00-2555-040-05	Hemovac Autotransfusion System with Dual Trocar, PVC Drain	1/4" (0.64cm, 19 French)	6" (15.24cm)
00-2555-060-05	Hemovac Autotransfusion System, no Drain	–	–
00-2555-050-05	Replacement Collection Bottle	–	–

### Autotransfusion Accessories – 10/Box

REF	Description
00-1500-050-10	Infection Control Exudate Bag (450ml)

### Disclaimer

This documentation is intended exclusively for physicians and is not intended for laypersons. Information on the products and procedures contained in this document is of a general nature and does not represent and does not constitute medical advice or recommendations. Because this information does not purport to constitute any diagnostic or therapeutic statement with regard to any individual medical case, each patient must be examined and advised individually, and this document does not replace the need for such examination and/or advice in whole or in part. Please refer to the package inserts for important product information, including, but not limited to, contraindications, warnings, precautions, and adverse effects.

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