

Practitioner's DAW Cool Liner™ Manual

Modification, Custom Thermo-Forming & More

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DAW®
Industries

Technical Support (800) 242-8669

www.daw-usa.com



Casting

- 1 Apply the appropriate **Cool Liner** to the amputee's residual limb.
- 2 Protect the liner with plastic film wrap
- 3 Apply a one-ply cast sock over the Separating Balloon. Make any reference marks you want transferred to the cast on the cast sock.
- 4 Cast over the cast sock/**Cool Liner** with even wrapped layers of plaster. Do not distort the tissues and their natural state. This is very important especially when dealing with distal redundant tissue. Let the **Cool Liner** create the shape of the tissues. Do not distort these tissues with your castings wraps. Make your usual patella bar marks with your thumbs.
- 5 When appropriate, remove the cast from the amputee.

Cast Modification

REDUCTION: 3% Circumferential Reduction.

RELIEF: 1mm Maximum Relief (including fibular head and/or distal tibia).

Hand Modification

- 1 Carve a small patellar bar using a round sureform. Cut to a maximum depth of 5/8" (16mm)
- 2 Reduce the entire remainder of your model by 1/2" (13mm) circumferentially. Do not modify or relieve any boney prominences and do not make reliefs or alter the natural shape of the model. Be sure to make circumferential reductions in soft tissue only.
- 3 When the desired circumferences have been met, sand smooth with durite sanding paper.

Custom Thermo-Forming

Thermo-Forming A Cool Liner For The Best Possible Fit, Comfort & Longevity

- 1 Preheat oven to 150-Degrees Fahrenheit.
- 2 Apply Cool Liner to modified cast in the orientation it is applied to the limb.
- 3 To eliminate bridging and produce the best result, apply vacuum using a PVA bag. Wrapping the liner in elastic bandage can also work.
- 4 Heat in oven for 60 minutes.
- 5 Let cool to room temperature and remove from mold.

Donning A Cool Liner

The Cool Liner is meant to fit snug, not loose. When worn, feeling some slight pressure is not only normal but necessary.

The **Cool Liner** is designed to roll up easily onto the residual limb.

Therefore, there is no need to apply any type of lubricant to either the residual limb or to the Cool Liner prior to donning. Any oil based product such as petroleum jelly will damage the Cool Liner and should not be used. The residual limb should be clean, dry and 100% free of any soap residue, lubricant or antiperspirant.

Please refer to the Patient's Guide "**Caring for My DAW Cool Liner**" for step-by-step Instructions.

Cleaning A Cool Liner

Proper cleaning and residual limb hygiene is the most important factor in ensuring long and comfortable use of the **Cool Liner**. The Cool Liner needs to be cleaned at the end of each day of wear. Always allow the Cool Liner to dry overnight. **It should be washed only with a neutral PH soap that does not contain alcohol, solvent, coloring or fragrance** (an example in the USA is Unscented Ivory Soap).

Please refer to the Patient's Guide "**Caring for My DAW Cool Liner**" for step-by-step Instructions.

Skin Allergy

The **Cool Liner** is manufactured with great care from the highest grade of TPE material. The material is relatively inert compared to other liner materials. Allergic reactions occur in less than 1 in 100,000 people. Most skin redness is not an allergy (see “Skin irritation” under “Troubleshooting” on next page). If you develop skin redness and/or irritation, contact your prosthetist immediately.

Perspiration

It is not unusual for new **Cool Liner** wearers to experience perspiration during initial use (up to 2 weeks) of the **Cool Liner**. In the unlikely event that the **Cool Liner** becomes sticky, lightly apply baby or talcum powder to the gel side as needed.

Return Policy

Unused, non-custom **Cool Liners**, in new condition, can be returned up to 30 days from the date of invoice. Before returning, please call DAW Customer Support at (800)252-2828 for obtain a return shipping label, free of charge.

Returns not using a shipping label provided by DAW cannot be processed.

Warranty

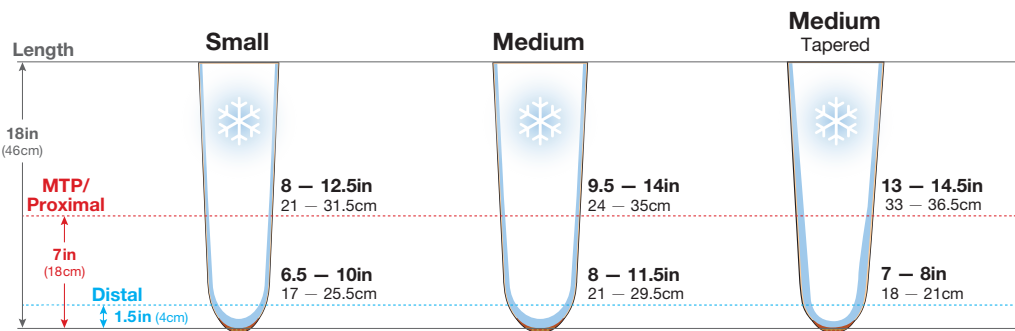
Every **Cool Liner** is covered by a 6-month limited warranty and is fully covered against manufacturer’s defects. If the patient is using **2 Cool Liners** and alternating them on a daily basis, the pair of **Cool Liners** is warranted for 1-year. Failure to follow any instructions in this manual will void the warranty. For a complete warranty statement see the warranty section of the “Resources” tab at **www.daw-usa.com**

Troubleshooting

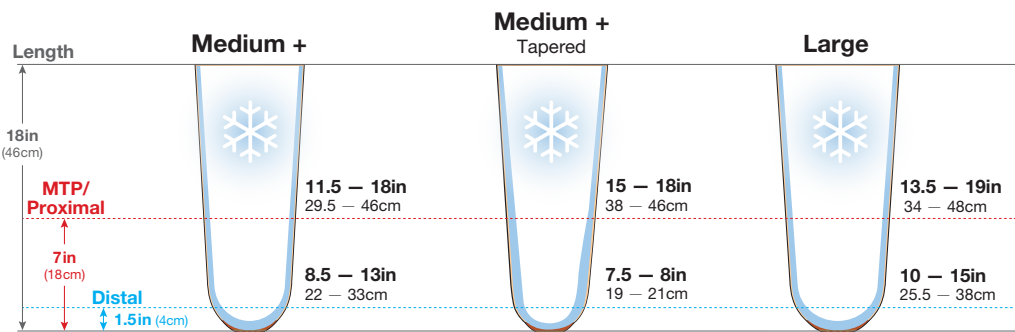
Problem	Possible Cause	Solution
Excessive perspiration with new Cool Liner users.	Body has not yet adjusted to the closed environment of the Cool Liner. See Perspiration, previous page.	The perspiration should reduce significantly after several weeks of Cool Liner use. If situation persists, see your prosthetist. Some amputees have found that the moderate application of an unscented antiperspirant to the residual limb before wearing the liner may be an effective method of controlling excessive perspiration. Always follow directions and never use these products if there are open sores on your residual limb.
Fabric or gel breaking down in the anterior distal tibia area.	The socket is loose in the area with lack of total contact.	See your prosthetist.
Gel material breaking down (cloudy white color).	Too much or too little socket pressure where Cool Liner is discolored.	See your prosthetist.
Fabric wearing out along socket trim line.	Liner is rubbing against the brim of the socket.	See your prosthetist.
Outside of the fabric developing fuzz balls.	Pistoning of residual limb inside socket, due to weight loss or volume change.	See your prosthetist.
Gel is pulling away from the fabric along the proximal edge of the Cool Liner.	Cool Liner is cut too short so that the proximal edge of the Cool Liner is rubbing against the socket.	See your prosthetist.
Locking liner is pistoning up and down in the socket.	Distal end of the residual limb does not make contact with the distal end of the socket (residual limb may have reduced distally).	See your prosthetist.
Residual limb and Cool Liner rotate together inside the socket.	Residual limb is extremely cylindrical and socket is loose	See your prosthetist.
Skin irritation.	Poor hygiene. Use of an irritating lotion, cream, or soap.	Review proper cleaning & rinsing instructions. Have you recently changed to different cleaning product or started using any lotions or creams containing hydrocarbon oils or animal fats or oils? If situation persists, see your prosthetist.
Skin irritation all over the residual limb.	The Cool Liner or the socket is loose possibly due to residual limb shrinkage.	See your prosthetist.
Skin irritation all along the proximal edge of the Cool Liner.	1. Patient is pulling the liner up onto the skin instead of rolling it. 2. Liner is too tight proximally.	Please refer to proper donning method instructions.
Sudden appearance of sweating after consistent use without sweating.	Air is getting between the Cool Liner and the residual limb, possibly due to residual limb shortage.	See your prosthetist.
Top edge of the Cool Liner is rolling down the leg	Cool Liner is cut too short.	See your prosthetist.



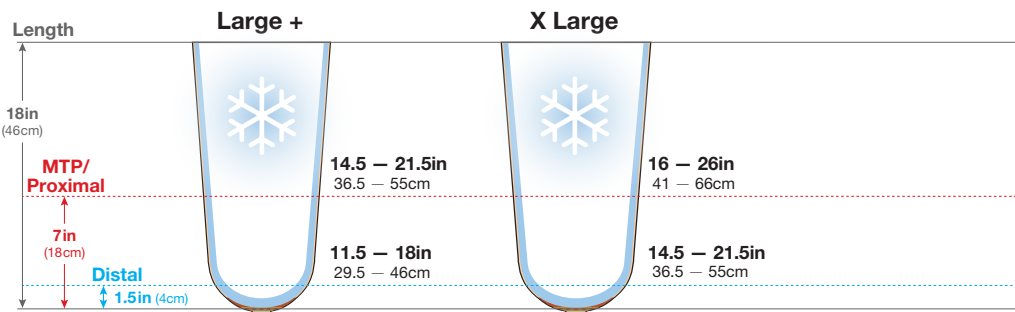
Cool Liner™ Sizing Guide



***Umbrella Size:**
Cool Liner Size Small, Medium & Medium Tapered come with a 2¼in Diameter Umbrella.



***Umbrella Size:**
Cool Liner Size Medium +, Medium + Tapered & Large come with a 2½in Diameter Umbrella.



***Umbrella Size:**
Cool Liner Size Large + & Extra Large come with a 3in Diameter Umbrella.



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