

Cryo/Cuff® for Walking Brace

AIRCAST®
INCORPORATED

ankle cold and compression dressing for Aircast Walking Braces (10W)

The Aircast Cryo/Cuff combines focal compression with cold to provide optimal control of swelling, edema, hematoma, hemarthrosis, and pain. Simplicity of design and ease of operation makes it ideal for the ER, post-op, training room and home.

The Cryo/Cuff for Walking Brace has four parts:
(Aircast Walking Braces are sold separately)

Cuff – covers the ankle with pressurized ice water.

Cooler – holds enough water and ice for 6 to 8 hours of cryotherapy.

Insulation Disk – helps keep water and ice cold.

Tube – exchanges the water between cooler and cuff.

CLINICAL EXPERIENCE

Post-operative experience with the Knee Cryo/Cuff indicates "hemarthrosis formation can be minimized and pain reduced by early and extended use of the Cryo/Cuff compression dressing".^{2,4} In a study of post-op pain medication, use of the Cryo/Cuff was compared with continuous crushed ice, and with "Hot Ice™" therapy.³ In both comparisons Knee Cryo/Cuff patients required significantly less oral and injectable narcotic analgesics. Schröder, Pässler found that "Cold-compression treatment led to less postoperative swelling of the knee joint, early return to full ROM, lower pain scores, lower consumption of analgesics, and faster return of function."¹

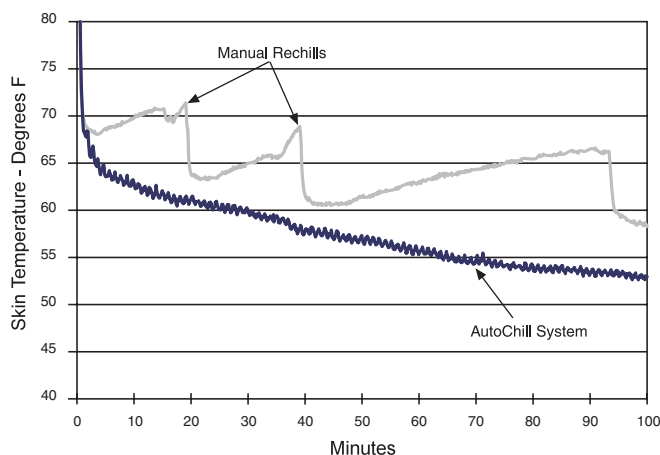
FREQUENCY OF USE

The length of use and frequency of use of the Cryo/Cuff are determined by the health-care professional depending on individual patient's needs.



Shown with Aircast Pneumatic Walker™
(sold separately)

Cryo/Cuff for Walking Brace Temperatures



CONTRAINDICATIONS

Cryotherapy should not be used on persons with Raynaud's or other vasospastic disease, cold hypersensitivity, decreased skin sensitivity, or compromised local circulation.

CARE

After use, completely drain water from cuff, tube, and cooler. (To drain tube, elevate tube while pressing tip of quick-disconnect.) Store cooler with top off to allow drying. Periodically clean cuff, tube, and cooler using a few ounces of liquid soap added to hot water in cooler. Recycle soap/water mixture between cooler and cuff a few times, then repeat with warm water only. Rinse completely.

LATEX

All Aircast products are latex-free.

WARRANTY POLICY

Satisfaction – Aircast will provide prompt refund for any product that does not satisfy the physician for any reason whatsoever.

Durability – Aircast will provide replacement parts for any Cryo/Cuff that becomes unserviceable for any reason for a period of one year from date of sale provided the worn part is returned for analysis.

REFERENCES

1. Schröder D, Pässler HH: Combination of cold and compression after knee surgery. *Knee Surg, Sports Traumatol, Arthroscopy* 93: 1–8, 1994
2. Shelbourne KD: *Post-surgical use of the Cryo/Cuff Knee Compression Dressing, Protocol*. Indianapolis, Methodist Sports Medicine Center, 1989
3. Shelbourne KD, Rubinstein RA, McCarroll JR, et al: Postoperative Cryotherapy for the Knee in ACL Reconstructive Surgery. *Orthopaedics International Edition* 2:2, March/April 1994
4. Shelbourne KD, Wilkens JH: Current Concepts in Anterior Cruciate Ligament Rehabilitation. *Orthopedic Review* 19: 957–964, Nov 1990

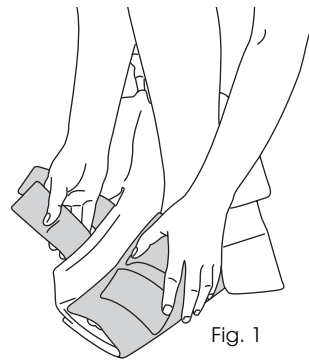
Cryo/Cuff® for Walking Brace (10W) Instructions:

1 Prepare cooler

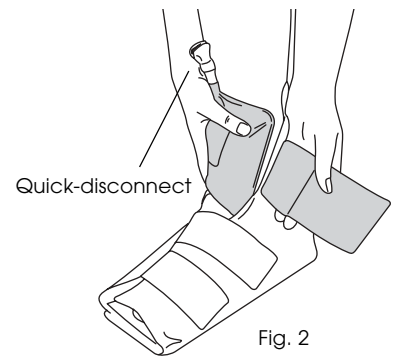
Connect blue tube to cooler. Add water to line inside cooler (additional water, up to 2 inches (5 cm), may be needed to completely fill cuff), then add ice. For 6 to 8 hour treatment, add ice to top of cooler. Lay the insulation disk on top of ice. Attach cooler lid snugly. Allow 5 minutes with occasional shaking to chill water.

2 Apply the EMPTY cuff

Close bottom flaps under foot. Place foot in cuff, seat heel against cuff back. If necessary, adjust cuff width by repositioning bottom flaps. Wrap foot cover around foot and secure with straps (Fig. 1). Wrap ankle cover around ankle and secure strap (Fig. 2).



Wrap foot cover and secure straps



Wrap ankle cover and secure top strap

3 Apply Aircast Walking Brace

(See *Walking Brace instruction sheet for application instructions.*) Be sure to insert the quick-disconnect through a hole in the brace's front panel before securing straps (Fig. 3). **Do not inflate Walking Brace aircells at this time.**

4 Fill cuff

Connect blue tube to cuff. Open air vent on cooler lid and raise cooler no more than 15 inches (38 cm) above the cuff. (If the cooler is raised more than 15 inches (38 cm), the cuff will increase in volume and weight.) Hold raised cooler for about 30 seconds while cuff fills. Close air vent on cooler lid. If not using an Aircast AutoChill System, the cooler can now be disconnected from cuff by pressing the metal tab on the quick-disconnect while cooler is raised.

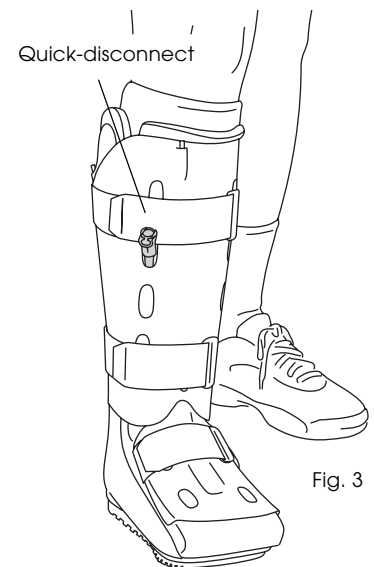
5 Adjust Walking Brace aircell compression if necessary

Adjust aircell compression if the Walking Brace is too loose or too tight (*see Walking Brace instruction sheet for detailed instructions*). **Be sure to disconnect cooler from cuff (see step 4) before adjusting aircell compression.**

6 Recharge water

At first, recharge the water in the cuff after 15 or 30 minutes, then once an hour or as needed. Reconnect the blue tube to cuff, lower the cooler below cuff, and the warmed water will drain from the cuff into the cooler. Allow a minute or two for the water to mix with the ice and recharge, then raise the cooler and repeat the filling process (*see step 4*).

The **AutoChill® system** can be used with the Cryo/Cuff to automatically recycle the water from cooler to cuff (contact Aircast Customer Service for more information).



Apply Aircast Walking Brace with cuff quick-disconnect inserted through a hole in front panel

CAUTION

- Do not use an elastic wrap in conjunction with the Cryo/Cuff.
- Dressings used under the Cryo/Cuff should be applied lightly.
- Patient's skin should be observed frequently due to individual sensitivity and susceptibility to cold.
- When filling the Cryo/Cuff, do not raise the cooler higher than 15 inches (38 cm) above the cuff to avoid excessive pressure.
- Reduce pressure with any sense of discomfort, numbness or tingling of the limb.
- The Cryo/Cuff is designed for single patient use only and may be used on the same patient for the length of treatment. The device should be cleaned if it is used on the same patient for an extended period of time (*see "Care" for cleaning information*).
- Federal law restricts this device to sale by or on the order of a licensed healthcare professional.

US PATENTS: 5,170,783 5,230,335 5,277,695 5,314,455 5,413,142 AND OTHER PATENTS PENDING

WARNING

- An Cryo/Cuff for Walking Brace with an AutoChill system should only be used in a medical facility or clinical environment with direct healthcare provider supervision.
- When using the Cryo/Cuff for Walking Brace with the AutoChill system, always apply a heavy cotton sock or bandaging to prevent skin temperature from falling below 50°F (10°C).

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