



Master Chilling Units



User Manual

C2, C5, C6
Models



ISO 13485/ISO 9001 CERTIFIED

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Service to these products should be performed only by Service Technicians certified by Chattanooga Group.

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FOREWORD

ColPaC® Master Chilling Units

This manual has been prepared for the owners and operators of the ColPaC® Models C-2, C-5, and C-6 Master Chilling Units. It contains instructions on operation, precautions, maintenance and parts information. To obtain maximum life and efficiency from your ColPaC C-2, C-5, and C-6 units, and to aid in its proper operation, read and understand this manual thoroughly and follow all instructions prior to operating the unit.

The specifications put forth in this manual were in effect at the time of publication. However, owing to Chattanooga Group's policy of continuous improvement, changes to these specifications may be made at any time without obligation on the part of Chattanooga Group.

PRECAUTIONARY INSTRUCTIONS

ColPaC® Master Chilling Units

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating this equipment. The definitions of these symbols are as follows:



= **CAUTION-** Text with a “CAUTION” indicator will explain possible Safety infractions that could have the potential to cause minor to moderate injury or damage to equipment.



= **WARNING-** Text with a “WARNING” indicator will explain possible Safety infractions that will potentially cause serious injury and equipment damage.



= **DANGER-** Text with a “DANGER” indicator will explain possible Safety infractions that are imminently hazardous situations that would result in death or serious injury.



= **EXPLOSION HAZARD-** Text with an “Explosion Hazard” indicator will explain possible safety infractions if this equipment is used in the presence of flammable anesthetics.

NOTE:- Throughout this manual “NOTE” may be found. These Notes are helpful information to aid in the particular area or function being described.



CAUTION

- Read, understand and practice the precautionary and operating instructions found in this manual. Know the limitations and hazards associated with your new chilling unit. Observe any and all precautionary and operational decals placed on the unit.
- Do not place chemical activated and/or instant freeze type packs in the ColPaC Master Chilling Unit. This type of pack may break and cause corrosive damage to the freezer compartment and refrigeration system.



WARNING

- Make certain that the unit is electrically grounded by connecting only to a grounded electrical service receptacle conforming to the applicable national and local electrical codes.



DANGER



- Explosion hazard if used in the presence of flammable anesthetics. The warning symbol for this hazard is prominently displayed on the serial number decal.

INSTALLATION

Remove all packing material inside the ColPaC chilling chamber. It is important to remove all loose pieces of paper and other packing material, which might otherwise plug the drain! Make certain that the drain valve is closed.

Check the voltage rating on the serial plate which is located on the back of the unit. Plug the unit into properly grounded outlet/power source. Do not attempt to use Direct Current (D.C.). Follow the procedures indicated in the "Precautionary Instructions." Do not attempt to use the unit if it is not properly grounded.

Explanation of Symbols on Equipment



Attention: See accompanying documentation



Type B Equipment: An adequate degree of protection against electric shock is provided, particularly regarding allowable leakage currents and reliability of protective earth connection.

INSTRUCTIONS FOR PATIENT CARE AND COMFORT

1. Know the cooling characteristics of the ColPaC.
2. Exercise extreme care when applying the ColPaC.
3. Know your patient: Use extreme care when applying ColPaCs to areas where the patient may have loss of feeling.
4. Always instruct the patient to inform you if the ColPaC is too cold.
5. Remove ColPaC from freezer and always place a hand towel between the skin and the ColPaC. A warm, damp towel reduces the initial shock of the cold application. Apply to area being treated.
6. Use care and judgment when applying ColPaCs to infants and elderly. Constantly check the temperature of the ColPaCs.
7. Exercise extreme caution when applying ColPaCs to patients with thin skin or to "bony" areas: shoulders, elbows, knees, etc.
8. DO NOT use the ColPaC in the presence of poor circulation or open wounds.
9. Constantly monitor the ColPaC application to insure that the patient's skin is not being irritated by the cold.
10. Tolerance of cold, like tolerance of heat, will vary from patient to patient.
11. DO NOT attempt to use the ColPaC as a hot pack. No hot water. No microwave. Use only as cold therapy.
12. During treatment, frequently check the condition of the patient and the area being treated.
13. Patient should not sit, lie or sleep on the ColPaC.
14. Treatment time should not exceed 30 minutes.

OPERATING INSTRUCTIONS

ColPaC® Master Chilling Units

GENERAL INFORMATION

Listen carefully after connecting the unit to the electrical power to make sure the compressor goes into operation immediately. A light frost covering should form on the dividers in the chilling chamber. Insert the individual ColPaCs between the dividers in the chilling chamber and close the lid.

The initial ColPaC chilling, starting from room temperature, will require several hours. The time needed to re-chill the ColPaC after use on a patient will depend on the length of time in use with the patient and the time out of the unit. Normally a short time is required for recharging your ColPaCs.

Note: While in operation, the top of the unit will become warm because of a specially designed heating system installed under the top rim. This is to eliminate condensation of moisture around the top of the unit.


Care of ColPaCs

Always return the ColPaC to the chilling chamber after each treatment where it is kept chilled, clean and ready for immediate use. The ColPaC may be cleaned by scrubbing it with soap and water. It is best not to fold the ColPaC for storage. If the outside plastic cover of the ColPaC should become torn or cut, minor repairs may be made with plastic or vinyl tape. Clean the surface carefully and apply tape at room temperature. Always replace ColPaCs when the plastic covering becomes damaged beyond repair. Original ColPaCs may be ordered from an authorized Chattanooga Group dealer.

The temperature of the ColPaC, when chilled, is approximately 10° F to 21° F (-6° C to -12° C). Be familiar with the cooling characteristics of the ColPaC.

GENERAL OPERATING INSTRUCTIONS

The ColPaC Master Chilling Unit is simple and easy to operate. The thermostat controls the temperature of the chilling chamber. It is located in the rear of the unit, behind the removable panel. The refrigeration system of the ColPaC Master Chilling Unit has been adjusted, tested and calibrated to chill the ColPaCs to a temperature between 10° F to 21° F (-6° C to -12° C). Extensive clinical testing and observation have shown this to be the optimum temperature range. It is recommended that this adjustment not be altered until the ColPaC unit and the ColPacs have been used for some time, and then only if adjustment of the chilling temperature is absolutely necessary. A slight adjustment can be made by removing the rear panel and turning the adjustment knob on the thermostat. To lower the temperature (colder), the knob should be turned clockwise. To raise the temperature (warmer), the knob should be turned slightly counter-clockwise.

 **CAUTION:** The thermostat is extremely sensitive and the slightest adjustment will alter the temperature several degrees. The temperature of the chilling chamber should be checked with a thermometer after every adjustment, before using the ColPaCs.

The ColPaC Master Chilling Unit operates through the use of a hydraulic capillary type thermostat and can be left connected to the power source, providing a ready supply of chilled ColPaCs. Locate the unit away from humid areas to avoid excessive frost build-up on the refrigeration coils.

GENERAL OPERATING RULES

1. Always keep the ColPaCs in the chilling chamber of the unit when not in use. This keeps the packs clean, chilled, and ready for use, and prevents pack damage.
2. Never place a damaged ColPaC into the chilling chamber of the unit.
3. Check for ice/frost build-up daily and defrost unit when ColPaCs become crowded in chamber.
4. Never adjust the thermostat too high or too low. See caution page 7.
5. Always replace ColPaCs when the plastic covering becomes damaged beyond repair or when ColPaC becomes firm or hard and not moldable around the area being treated. Minor repairs may be made with plastic or vinyl tape.
6. If the unit is to be left unattended for an extended period of time, unplug and follow the defrosting procedures found on page 13 in the "Maintenance" section of this manual.
7. Always use factory authorized replacement parts.
8. Always clean and sterilize ColPaCs, which are exposed to contamination. Do not sterilize ColPaCs with boiling water. Gas sterilizing is not recommended. Alcohol or similar substance may be used to decontaminate the packs. If any contamination is suspected, destroy the ColPaCs.

TECHNICAL SPECIFICATIONS

ColPaC® Master Chilling Units

TECHNICAL SPECIFICATIONS (115 VOLT)

Rated Voltage:	115V
Rated Frequency:	60 Hz
Current:	4 Amps
Work:	.14914 KWh or 1/5 hp
Type of Refrigerant:	R-134A
Amount of Refrigerant:	C-2, 198 g (7 oz.) C-5, 198 g (7 oz.) C-6, 213 g (7.5 oz.)
Test Pressures, All Models:	High, 1.62 MPa (235 psi) Low, 1.03 MPa (150 psi)
Temperature, Normal Operating	
All Models:	-12° C to -6° C (+10° F to +21° F)

TECHNICAL SPECIFICATIONS (220 VOLT)

Rated Voltage:	220-240V
Rated Frequency:	50 Hz
Current:	2 Amps
Circuit Breaker:	10 Amp, Anti-Surge
Work:	.14914 KWh or 1/5 hp
Type of Refrigerant:	R-134A
Amount of Refrigerant:	C-2, 198 g (7 oz.) C-5, 198 g (7 oz.) C-6, 213 g (7.5 oz.)
Test Pressures, All Models:	High, 1.62 MPa (235 psi) Low, 1.03 Mpa (150 psi)
Temperature, Normal Operating	
All Models:	-12° C to -6° C (+10° F to +21° F)

TECHNICAL SPECIFICATIONS

ColPac® Master Chilling Units

PARTS LIST- MODEL C-2 (115 VOLT)

Part No.	Description	Quantity
20500	Thermostat, Resale	1
22148	Lamp, Pilot Light	1
21282	Cord Set, w/ J28G	1
21635	Hose, Nylon, 5/8" x 12", Coupled, M-F	1
21983	Back Door, Sub-Assembly	1
20514	Handle, Lid, Resale	1
22219	Lid, Assembly	1
21373	Valve, Boiler Drain, 1/2" ID, Chrome	1
21259	Caster, 3" EY4520, 7/16-20 x 1/2"	4
22121	Compressor, BM2A528-1	1
4228	Thermometer, Dial	1
22409	Coil Cover, 13.5" x 22.75", Outside	1
22420	Coil Cover, Sub-Assembly	1
22955	Coil Cover, Middle, Aluminum	3
20237	Handle, Decorative, 12"	2
60286	Latch, Door, Rear	1

PARTS LIST- MODEL C-5 (115 VOLT)

Part No.	Description	Quantity
20500	Thermostat, Resale	1
20042	Lamp, Pilot Light	1
21282	Cord Set, w/ J28G	1
21635	Hose, Nylon, 5/8" x 12", Coupled, M-F	1
22457	Door, Rear, Complete	1
20514	Handle, Lid, Resale	1
22297	Lid, Assembly	1
21373	Valve, Boiler Drain, 1/2" ID, Chrome	1
21259	Caster, 3" EY4520, 7/16-20 x 1/2"	4
22121	Compressor, BM2A528-1	1
4228	Thermometer, Dial	1
22461	Coil Cover, Outside	1
22462	Coil Cover, Sub-Assembly	1
22956	Coil Cover, Middle, Aluminum	3
20237	Handle, Decorative, 12"	2
60286	Latch, Door, Rear	1

TECHNICAL SPECIFICATIONS

ColPaC® Master Chilling Units

PARTS LIST- MODEL C-6 (115 VOLT)

Part No.	Description	Quantity
20500	Thermostat, Resale	1
22148	Lamp, Pilot Light	1
21282	Cord Set, w/ J28G	1
21635	Hose, Nylon, 5/8" x 12", Coupled, M-F	1
23008	Door, Rear, Complete	1
20514	Handle, Lid, Resale	1
22348	Lid, Assembly	1
21373	Valve, Boiler Drain, 1/2" ID, Chrome	1
21259	Caster, 3" EY4520, 7/16-20 x 1/2"	4
22121	Compressor, BM2A528-1	1
4228	Thermometer, Dial	1
23021	Coil Cover, 13.5" x 22.75", Outside	1
23022	Coil Cover, Sub-Assembly	1
22954	Coil Cover, Middle, Aluminum	3
20237	Handle, Decorative, 12"	2
60286	Latch, Door, Rear	1

TROUBLESHOOTING

Problem	Possible Cause	Suggested Solution
A. Unit plugged in but packs not chilled	<ol style="list-style-type: none">1. Breaker for electric circuit off2. Thermostat not functioning3. Heating element burned out4. Compressor failure5. Refrigerant leak	<ol style="list-style-type: none">1. Turn breaker ON2. Replace thermostat3. Replace element4. Contact factory5. Contact factory
B. Packs too cool	<ol style="list-style-type: none">1. Thermostat set too low2. Thermostat failure	<ol style="list-style-type: none">1. Adjust thermostat2. Replace thermostat
C. Packs too warm	<ol style="list-style-type: none">1. Thermostat set too high2. Thermostat failure3. Power failure	<ol style="list-style-type: none">1. Adjust thermostat2. Replace thermostat3. Check electrical circuit

CARE OF UNIT

The ColPaC Master Chilling Unit is equipped with a hydraulic capillary type thermostat in order to maintain the proper ColPaC temperature evenly in the chilling chamber. The unit may be left connected to the electrical outlet, providing a ready supply of chilled ColPaCs.

Periodically, the accumulated frost in the chilling chamber will build up to a point where the ColPaCs are crowded and insertion or removal of the packs becomes difficult. The units should be defrosted when this occurs and the inside of the tank wiped dry with a clean towel or cloth.

DEFROSTING UNIT

1. Disconnect the unit from its power source.
2. Raise the chamber lid and remove ColPaCs. Leave lid open to speed defrosting. A small amount of warm water may be poured into the unit to speed defrosting.
3. Attach extension drain hose to the valve, located beneath chilling chamber, behind rear access panel.
4. Open bottom drain valve.
5. Allow unit to defrost completely. All excess water must be removed from the chilling chamber before the unit is started again.
6. Close bottom drain valve and detach extension drain hose.
7. Plug unit back into the power source.
8. Clean and return ColPaCs to the chilling chamber.
9. Close chamber lid - chilling sequence begins again.

Dust and lint will accumulate on the condenser fins of the refrigeration unit. This must be removed periodically to ensure highest efficiency. The condenser may be reached by removing the rear access panel. Always disconnect power before cleaning the condenser.

REPLACING THERMOSTAT

1. Remove plate.
2. Remove bushing nut.
3. Remove packing in bushing nut.
4. Remove brass nut.
5. Remove rubber washer.
6. To reinstall, reverse procedure.
7. After installation, seal top of packing nut with silicone sealant.

SERVICE

Should the ColPaC Master Chilling Units require service, contact the selling dealer or Chattanooga Group Service Department.

All returned units to the factory for service must include the following:

WARRANTY REPAIR/OUT OF WARRANTY REPAIR

1. Written statement containing the following information;

- RGA Number - Obtain from Factory
- Unit Model Number
- Unit Serial Number
- Contact person with Phone and Fax Numbers
- Billing Address (for Out of Warranty Repair)
- Shipping Address (Where to Ship Unit after Repair)
- Detailed Description of Problem or Symptoms

2. Copy of original invoice issued at purchase of the unit.

3. Ship unit to Factory in the original container with all accessories and information as required in item one (1) above to:

Chattanooga Group
4717 Adams Road
Hixson, TN 37343 USA

Phone: USA: 800-592-7329 Outside USA: +1 423 870-7200 FAX: 423 875-5497

Service to these products should be performed only by Service Technicians certified by Chattanooga Group.

WARRANTY

ColPaC® Master Chilling Units

Chattanooga Group ("Company") warrants that the ColPaC® C-2, C-5 and C-6 Master Chilling Units ("Products") are free of defects in material and workmanship. This warranty shall remain in effect for two years (24 months) from the date of original consumer purchase. If this Product fails to function during the two years warranty period due to a defect in material or workmanship, Company or the selling dealer will repair or replace this Product without charge within a period of thirty (30) days from the date on which the Product is returned to the Company or the dealer.

All repairs to the Product must be performed by a service center authorized by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

To participate in warranty coverage, this Product's warranty registration card (included with Product) must be filled out and returned to the Company by the original owner within ten (10) business days of purchase.

This Warranty Does Not Cover:

Replacement parts or labor furnished by anyone other than the Company, the selling dealer or an certified Company service agent.

Defects or damage caused by labor furnished by someone other than Company, the selling dealer or an certified Company service agent.

Any malfunction or failure in the Product caused by product misuse, including, but not limited to, the failure to provide reasonable and necessary maintenance or any use that is inconsistent with the Product User's Manual.

COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To obtain service from Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer. Written claims made to the Company should be sent to:

4717 Adams Road
P.O. Box 489
Hixson, TN 37343 USA
Telephone: 423 - 870 - 2281
Outside USA: +1 - 423 - 870 - 7200
Facsimile: 423 - 875 - 5497

2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

More Trusted Products from Chattanooga Group

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Adapta®

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Contracture Products

Contracture Management Orthotic Products

CTS™

Carpal Tunnel Stretching Device

DURA-STICK™ Electrodes

Self-Adhesive Electrodes

EMG Retrainer® & EMG Retrainer® IR

Dual Channel Surface EMG

ErgoWave®

Intersegmental Traction Table

Flexi-Pac™ I and II

Reusable Hot and Cold Compresses

Gel Medex™

Gel Mattress Overlay

Hydrocollator®

Heating Units and HotPacs™

Intelect® Legend

Ultrasound and Electrotherapy Products

Measurement Instruments

Dynamometers, Goniometers, etc.

Myassage®

Massage Lotion

Nylatex®

Elastic Wraps

OptiFlex® Knee and Shoulder

Continuous Passive Motion

Opti-Ice™

Cold Therapy System

Para-Care®

Paraffin Wax Unit

Pillow Perfect™

Cervical Pillow Line

Pivotal Therapy System™

Orthotics for the Spine

ProPower Pillow™

Power Massage Pillow

PresSsion®

Intermittent Compression

Pron Pillo®

Positioning Pillow

Cervical Traction System

Clinical Cervical Traction

SensaFlex™

Hot and Cold Compress

SPORT-PAC™

Soccer Ball Shaped Cold Pack

TheraTherm™

Hot and Cold Therapy

Therma-Wrap™

Hot and Cold Compression

Triton®

Treatment and Traction Equipment

TX®

Treatment and Traction Equipment

Vectra™ Series

Ultrasound and Electrotherapy products

Wellness 1st™

Back Support

Women's Contour Back Support

Back Support



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4717 Adams Road
P.O. Box 489
Hixson, TN 37343 U.S.A.
1-423-870-2281
1-800-592-7329 U.S.A.
1-800-361-6661 CANADA
+1-423-870-7200 OUTSIDE USA
+1-423-870-2046 OUTSIDE USA FAX
www.chattgroup.com