



G A M E  R E A D Y®

**VETERINARY GRPro™ 2.1
CONTROL UNIT
User's Manual**

MODEL NUMBER
550450

*This User's Manual is also available online at
www.gamereadycanine.com and
www.gamereadyequine.com under Products.*

THE GAME READY DIFFERENCE

THE GAME READY DIFFERENCE

Game Ready® was built upon the concept that the principles behind spacesuit technology could be used to develop an injury treatment system. As a designer for the National Aeronautics and Space Administration (NASA) and an inductee into the U.S. Space Foundation's Hall of Fame, our founder helped pioneer the technology involved in controlling pressure and temperature within a flexible garment. In 1998, Game Ready began working with athletes, athletic trainers, veterinarians, and engineers to expand breakthrough discoveries into the realm of sports medicine.

REGISTER YOUR PRODUCT

Please complete your Warranty Registration for both the Veterinary GRPro™ 2.1 Control Unit and the Wraps online at www.gamereadyvet.com. The Wrap registration card is packaged with the Heat Exchanger of each Wrap. You must register within 30 days from the date of purchase in order to receive warranty service. Further warranty information can be found on page 22.

Let us know what you think of our products by calling us at the numbers below or emailing us at info@gameready.com. We'd love to hear from you.

GAME  READY®

Brought to you by CoolSystems, Inc.
1800 Sutter Street, Suite 500
Concord, CA 94520

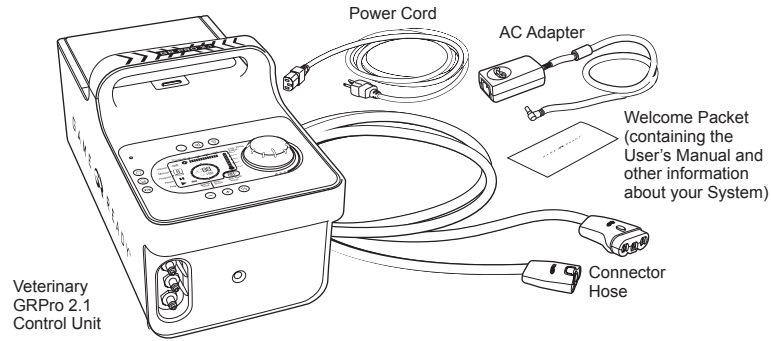
In the United States call toll-free:
1.888.GameReady (1.888.426.3732)

Outside of the United States:
+1.510.868.2100

www.gamereadyvet.com

DESCRIPTION OF THE VETERINARY GR PRO 2.1 SYSTEM

The following items are included in your Veterinary GRPro 2.1 System:



A Wrap (comprised of an inner Heat Exchanger and an outer Sleeve) must be attached to the System to begin treatment. Each Wrap is sold separately and is not included in the System.

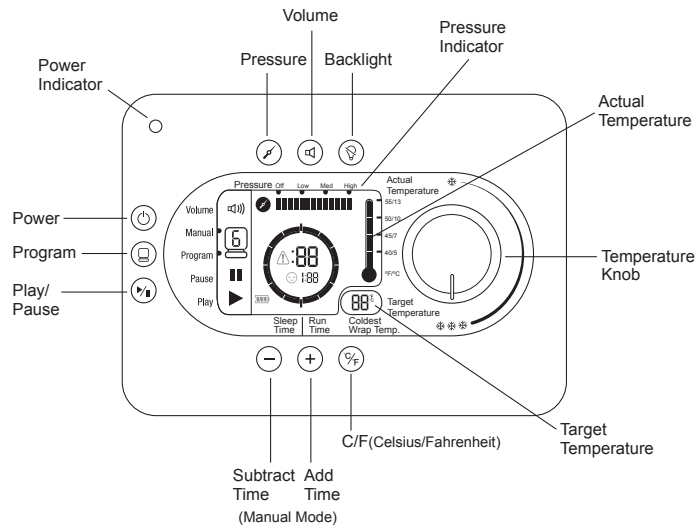
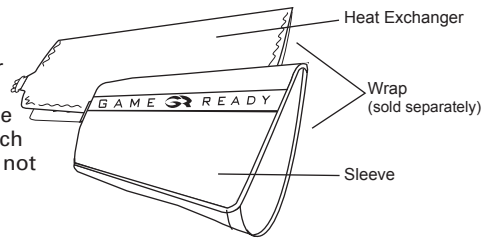


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DETAILED INSTRUCTIONS FOR USE

Do not use this device without your veterinarian's specific recommendations for the frequency and duration of your treatments.

Be sure to read further safety warnings on pages 12-13 of this User's Manual.

MODES OF OPERATION










Manual Mode: The System automatically starts in this mode, and allows the user to adjust treatment time and pressure settings.

Program Mode: This mode allows the user to choose one of six treatment programs that provide therapy for a set time then sleep (no treatment) for a set time, continuously, at a specific pressure setting.

Drain Mode: Allows a user to connect a Hose with a special Hose Adapter (purchased separately) to the unit, enter Drain Mode and have the unit empty the water out of the ice box through the Hose. Drain Mode can be accessed by pressing the program key and toggling through all six programs. To empty water in the System while in Drain Mode, press the program key until you reach Drain Mode, attach the Hose Adapter to the Connector Hose, place the Hose Adapter over a sink, and press the Play button. Drain Mode will run the Control Unit's fluid pump for up to six minutes (long enough to fully empty the ice box). Drain Mode is indicated by the following icons:



BUTTONS
















	Power: Use this button to turn the Control Unit on and off.
	Program: Use this button to select one of the available Programs or to return to Manual Mode. See page 8 in this manual for more information on Programs.
	Play/Pause: Use this button to start or pause a treatment.
	Add Time: Use this button to add time in Manual Mode (does not work in Program Mode). You can add up to 90 minutes. Treatment must be paused in order to add or subtract time.
	Subtract Time: Use this button to reduce time in Manual Mode (does not work in Program Mode). You can subtract up to 90 minutes. Treatment must be paused in order to add or subtract time.
	Pressure Selection: Use this button to select one of four pressure settings: No Pressure, Low Pressure (5-15 mmHg), Medium Pressure (5-50 mmHg), and High Pressure (5-75 mmHg). Pressure selection is not available in Program Mode. Treatment must be paused to change pressure settings.
	Volume: Use this button to select the option of sound or no sound. Push to mute sound. Alarms will still sound even with Volume off.
	C/F Button: Use this button to select either Celsius or Fahrenheit on the temperature display.
	Backlight: Use this button to turn the backlight on or off.

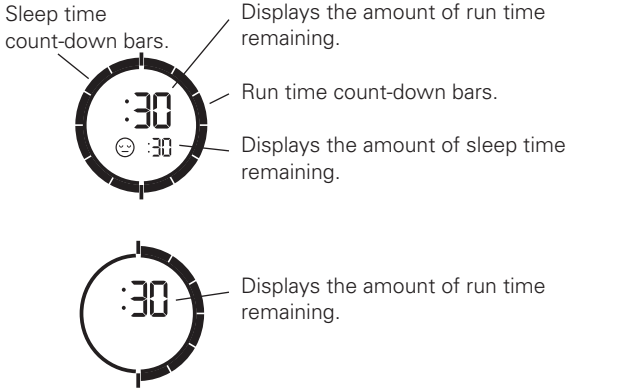
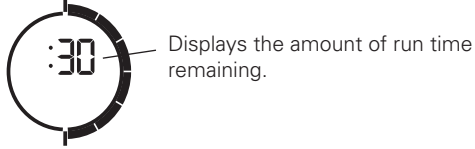

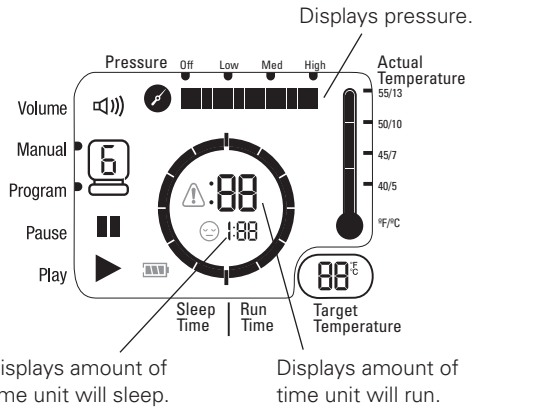

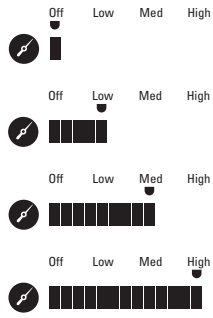
ADJUSTING TEMPERATURE

To adjust the temperature being applied during treatment, simply turn the temperature knob towards 3 snowflakes for the maximum amount of cold, or towards 1 snowflake for the least amount of cold. Notice that as you adjust the knob, the "Target Temperature" on the display will change. The System will automatically adjust to match the temperature you have selected.

TIP: The maximum amount of cold is dictated by the amount of ice in the reservoir and the setting of the temperature adjustment knob. You may need to stir or replenish the ice to achieve coldest temperatures. Ice will melt faster in the acute phases of injury as the Game Ready System is removing greater amounts of heat from the treatment site.

DISPLAY

Status bar: Vol 	Vol 	Off (Mute) On
Manual  Program 	Manual  Program 	Indicates selected mode.
Pause 	Pause 	Indicates unit is paused.
Play 	Play 	Indicates unit is running.
Other Icons:	Error  Sleep  Battery 	Indicates an error. See troubleshooting pages 19-21 for error codes. Indicates sleep mode time. Indicates remaining battery capacity.
Temperature:	 	Actual Temperature: Approximate temperature of the water leaving the Control Unit. Target Temperature: Indicates the target temperature setting. The Control Unit will automatically match the Actual Temperature and Target Temperature as closely as possible.

<p>When the System is running in Program Mode:</p>	 <p>Sleep time count-down bars.</p> <p>Displays the amount of run time remaining.</p> <p>Run time count-down bars.</p> <p>Displays the amount of sleep time remaining.</p>
<p>When the System is running in Manual Mode:</p>	 <p>Displays the amount of run time remaining.</p>
<p>When selecting a program:</p> 	 <p>Displays pressure.</p> <p>Displays amount of time unit will sleep.</p> <p>Displays amount of time unit will run.</p>
<p>Pressure:</p> 	 <p>Off Low Med High</p> <p>Off Low Med High</p> <p>Off Low Med High</p> <p>Off Low Med High</p>

OPERATING THE SYSTEM

To operate your Veterinary GRPro 2.1 System, you need:

- Control Unit reservoir filled with ice and water. Optimal performance is achieved by first completely filling the reservoir with ice, then adding water to 1" below the reservoir lid.
- Game Ready supplied power supply.
- Connector Hose.
- Wrap (includes a Heat Exchanger and Sleeve).

Notes:

- The Wrap is comprised of an inner Heat Exchanger and an outer Sleeve. The combination of Sleeve and Heat Exchanger is referred to throughout this manual as a "Wrap."
- The Veterinary GRPro 2.1 Control Unit should be placed on a stable surface (such as the floor or a table) during use.
- Note that using the System in an environment with a high ambient temperature may affect its ability to provide adequate cooling, or may limit the ice life.
- If you will be using the System with a Game Ready optional battery pack (sold separately), please consult the instructions for use that accompany that battery pack.

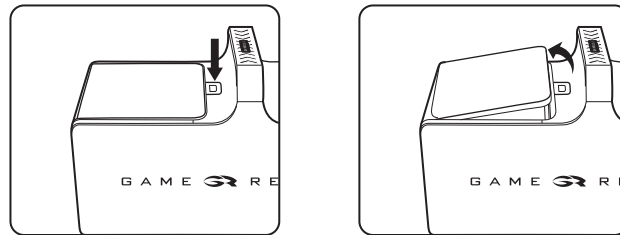
Warning:

- Your Veterinary GRPro 2.1 Control Unit should be plugged into a grounded electrical outlet prior to operation.
- Position the Control Unit to minimize the risk of tripping over the Control Unit, Connector Hose, or power cord.

Precautions:

- Failure to properly follow the instructions of this manual and those of your medical provider may interfere with or prevent delivery of appropriate therapy.
- To avoid risk of electrical shock unplug the Control Unit from the electrical outlet prior to filling the Control Unit with ice and water.

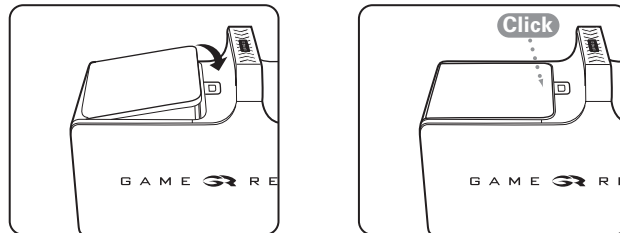
- 1 Push the door release button to open the ice box door.




- 2 Fill entire reservoir with ice. Then add water to the reservoir up to 1" below lid.



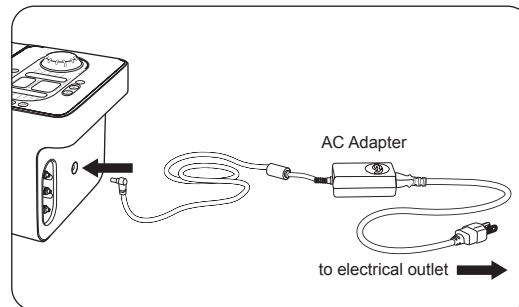
- 3 Close the ice box door. Make sure you hear it click.



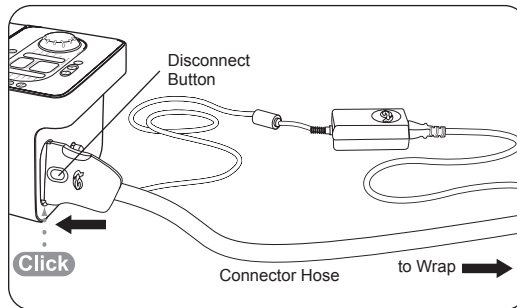
- 4 Place the Control Unit in the location where you plan to use it. The Control Unit should only be used in the upright orientation as shown. The Control Unit will leak if placed on its side.

- 5 Connect the AC Adapter to the receptacle on the end panel of the Control Unit, then plug the AC Adapter into a grounded electrical outlet. The power indicator light (orange color) on the Control Unit should illuminate. Press the power button.  The screen should light up and the Control Unit should beep twice. The power indicator light should turn from orange to green. If you do not see these indicators, refer to "Control Unit will not turn on" on page 21 of the Troubleshooting Guide in this manual.

Note: The Control Unit should be turned on prior to attaching a Wrap.



- 6 Connect the larger end of the Connector Hose (with the red button) to the Control Unit. Make sure you hear it click. To disconnect, simply press the red button and remove the connector from the Control Unit.

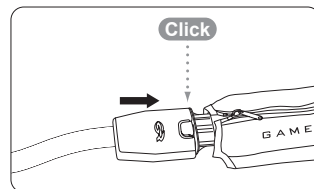
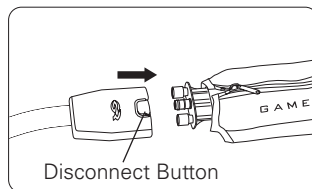


- 7 Apply the selected Wrap (consult the Use Guide accompanying each Wrap for application instructions).

Caution:

- The Wrap is not sterile. Do not place directly against open wounds, sores, rashes, infections, or stitches. The Wrap may be applied over dressing.
- To ensure best fit, be sure the Wrap is completely deflated prior to each application.

- 8 Connect the smaller end of the Connector Hose (with a blue or gray button) to the Wrap. Make sure you hear it click. To disconnect, simply press the blue or gray button and remove the connector from the Wrap.





If you have any problems with the set-up of your Veterinary GRPro 2.1 System, in the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor.

Warnings:




- Follow the treatment recommendations of your veterinarian for the use of this device.
- Improper placement or prolonged use of the Veterinary GRPro 2.1 System could result in tissue damage.
- For additional warnings and precautions, please refer to pages 12 & 13 of this manual.

- 9 Set your target temperature (displayed in the Target Temperature window) by turning the knob. Turning the knob clockwise, towards 3 snowflakes, will provide more cold therapy. Turning the knob counter-clockwise, towards 1 snowflake, will provide less cold therapy.





- 10** Manual ▶  You can choose to operate in either Manual Mode or Program Mode. Manual Mode allows you to adjust time and pressure settings as you choose. Program Mode allows you to choose one of six programs that provide treatment for a set time then sleep (providing no treatment) for a set time, continuously, at a specific pressure setting (refer to list of available programs below). The unit automatically starts in Manual Mode.
- Program ▶ 

Manual Mode:

 	Set the time in five minute increments by pushing the +/- buttons.
	Set the pressure by pushing the pressure button. You can select from 4 pressure settings: No pressure, Low Pressure (5-15mmHg), Medium Pressure (5-50mmHg), High Pressure (5-75mmHg).

Program Mode:

	Push the program button to enter Program Mode. In Program Mode, the unit will operate continuously according to the selected program. You will need to replenish ice and water as previously indicated in step 2.
	You can select from the following programs: (Push the Program Button to scroll through the available programs.) Program 1: 30 minutes on, 30 minutes sleep. No pressure. Program 2: 30 minutes on, 30 minutes sleep. Low pressure. Program 3: 30 minutes on, 30 minutes sleep. Medium pressure. Program 4: 30 minutes on, 60 minutes sleep. No pressure. Program 5: 30 minutes on, 60 minutes sleep. Low pressure. Program 6: 30 minutes on, 60 minutes sleep. Medium pressure. Program d: Drain Mode. Please refer to page 2 in this manual for details.

STORAGE

- When you are done using the System for the day:
- Unplug the AC Adapter and the Connector Hose from the Control Unit.
 - Push the door release button to open the door.
 - Carefully pour out the ice and water.
 - Wipe off any excess water.
 - Store the Control Unit with the lid fully open to allow the interior to dry and preserve the reservoir seal. Store the Control Unit in the Carry Bag or in another safe location. Remember that your GRPro 2.1 Control Unit is a valuable piece of equipment and should be treated with great care, like a laptop computer.

Storage Temperature Conditions: 33° - 120°F (1° - 50°C)
 Relative Humidity: 10% - 95% non-condensing

Caution: Do not keep in extreme cold or hot temperatures (below 33°F or above 120°F or below 1° or above 50°C). Do not leave in a hot or freezing car. Do not leave the Control Unit in direct sunlight. The UV light may damage or discolor the Control Unit.

CLEANING

CONTROL UNIT

The exterior of the Control Unit and the visible interior surfaces of the reservoir can be cleaned with a soft cloth and one of the following cleaning agents:

- Mild detergent
- 70% Isopropyl alcohol
- 100% Simple Green®
- Quaternary ammonium (such as Virex® – typically only found in a clinical use setting)
- Cavicide®

Procedure:

- Follow the manufacturer's instructions and precautions for the cleaning agent you select.
- Apply the selected cleaner to a soft cloth and wipe down all surfaces of the Control Unit.
- Allow the Control Unit to dry thoroughly before storing it in the bag.
- The Control Unit should be cleaned as needed.

DO NOT USE:

- Phenolic-based disinfectants (such as AmphyI® – typically only found in a clinical use setting).
- Any solvent-based cleaners on the Control Unit. Doing so will damage the plastics and will void your warranty.
- Abrasive materials to clean the Control Unit. Doing so will damage the plastics and will void your warranty.

Caution: The Control Unit is not a waterproof device. Do not apply a direct stream of any liquid onto the Control Unit, submerge the Control Unit, or allow any liquid to pool on the surface of the front panel of the Control Unit.

CONNECTOR HOSE

The surface of the Connector Hose can be cleaned using a soft cloth and one of the following:

- Mild detergent
- Steri-Fab®
- 70% Isopropyl alcohol
- We do not recommend the use of quaternary ammonium (such as Virex®) or Cavicide®

DO NOT USE:

- Phenolic-based disinfectants (such as AmphyI® – typically only found in a clinical use setting).
- Any solvent based cleaners. Doing so will damage the plastics and will void your warranty.
- Abrasive materials. Doing so will damage the plastics and will void your warranty.
- Any petroleum based lubricants. Doing so will damage the o-rings and will void your warranty. If lubrication is required, the use of silicon spray is recommended.

WRAPS

Gently remove Heat Exchanger from the Sleeve. Hand wash the Sleeve in cold water, using a mild detergent or antibacterial soap. Do not use fabric softener. Hang to dry.

If needed, the external surface of the Heat Exchanger may be cleaned by wiping down with commercial non-bleach cleaning wipes or hand washed using a very small amount of mild detergent or antibacterial soap. **DO NOT MACHINE WASH.**

Refer to the Wrap Use Guide accompanying individual Wraps for more information.

CARRY BAG

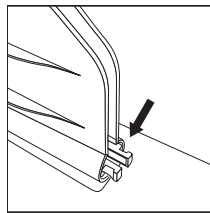
The Carry Bag should be cleaned using a soft cloth or brush and a mild detergent. Febreze® or the equivalent can be used on the Bag if desired. If the Carry Bag has a biological material on the surface, Steri-Fab® may be used to decontaminate those surfaces.

Be sure to test any product on a small portion of the Bag to ensure that it will not cause damage.

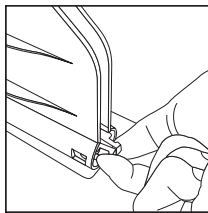
Note: To operate the Veterinary GRPro 2.1 System, you do not need to remove it from the Carry Bag. Simply unzip the Bag's main compartment and end panel. Fill the reservoir with ice and water. Attach the Connector Hose and the AC Adapter to the end panel of the Control Unit and plug the AC Adapter into a grounded electrical outlet.

MAINTENANCE

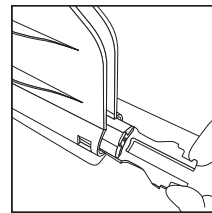
The reservoir filter should be inspected, cleaned, and/or replaced as necessary.



- 1** Identify the filter within the ice reservoir.



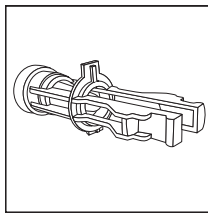
- 2** Using two fingers, grasp and squeeze the two protruding prongs.



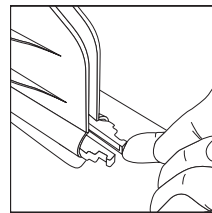
- 3** Slide the filter out.

- 4** Rinse debris from the filter and be sure there are no obvious signs of damage.

If you have questions or would like to order a new filter, in the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor.



- 5** To replace the filter, or install a new filter, first ensure that the filter is oriented properly with the plastic tab facing up. If the filter is not oriented properly, the protruding tab will prevent the filter from sliding back into place.



- 6** You will feel and hear the filter snap back into place.

Other than maintaining the reservoir filter, no product service should be performed by the user. If your Veterinary GRPro 2.1 System requires service, in the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor.

ACCESSORIES

The Veterinary GRPro 2.1 Control Unit can be used with any of the following accessories:

- Any Game Ready Wrap (wraps made by any other manufacturer CANNOT be used with this System)
- Game Ready supplied Power Supply (GlobTek Model GTM-21097-5012) or FSP Group, Inc. model FSP 030-RCAM and Hospital Grade Power Cord
- Game Ready supplied Connector Hose
- Game Ready Carry Bag
- Game Ready Drain Mode Adapter

INDICATIONS FOR USE

- Follow the recommendations of your veterinarian for duration and frequency of use for this device.

The Veterinary GRPro 2.1 System combines cold and compression therapies. It is intended to prevent injuries, treat post-surgical and acute injuries to reduce edema, swelling, and pain where cold and compression are indicated.

CONTRAINDICATIONS

Compression Therapy (vasopneumatic compression) using the Game Ready System or any compression therapy device should **not** be used in patients:

- Who are in the acute stages of inflammatory phlebitis in the affected region.
- Who have any history or risk factors for deep vein thrombosis or pulmonary embolus (including prolonged bed or stall rest) in the affected region (to be treated with this therapy).
- Who have significant arteriosclerosis or other vascular ischemic disease in the affected region.
- Who have a condition in which increased venous or lymphatic return is not desired in the affected extremity (e.g., carcinoma).
- Who have decompensated hypertension in the affected region.

Cryotherapy using the Game Ready System or any cryotherapy device should not be used in patients:

- Who have significant vascular impairment in the affected region (e.g., from prior frostbite, diabetes, arteriosclerosis or ischemia).
- Who have acute paroxysmal cold hemoglobinuria or cryoglobulinemia.

GENERAL WARNINGS AND CAUTIONS

Thank you for choosing the Game Ready System. To assure you have the best experience possible, please be sure to read the entire User's Manual prior to use of the product.

WARNINGS

- Improper placement or prolonged use of Game Ready could result in tissue damage such as frostbite.
- During the course of Game Ready therapy, the treatment provider should monitor the tissue surrounding the treated region or the extremities of the treated limb for any abnormal appearance, increased swelling, or pain. If any of these signs present, or any changes in skin appearance occur (such as increased redness, discoloration, or other noticeable skin changes), you are advised to discontinue use and consult a veterinarian.
- The Game Ready Wrap is not sterile; do not place directly against open wounds, sores, rashes, infections, or stitches. May be applied over dressing.
- The Game Ready wraps are available in multiple configurations but are not intended for all possible uses. Use caution when selecting a particular wrap for use on anatomic regions other than that for which the wrap is indicated and closely supervise the animal's status.
- To avoid the risk of electrical shock, do not remove any panels from the Control Unit. For all servicing and repair, please contact Game Ready Customer Service; from the U.S. call toll-free at 1.888.426.3732, from outside the U.S. call 001.510.868.2100. Opening the case will void the Game Ready warranty.
- To avoid the risk of electrical shock, always turn off the System and disconnect the power cord from its electrical outlet when not in use or before adding or emptying ice and water.
- Do not use any adapter other than that provided by Game Ready. Use of other adapters may result in electrical shock and will void the Game Ready warranty.

CAUTIONS

- Caution: This product is for veterinary use only and is not indicated for human use.
- Caution: Always attend the animal while the Game Ready Veterinary System is being used, in the case that the animal needs to be quickly disconnected from the Control Unit.
- Do not operate the System without any water in the ice box.
- Never operate the System with damaged power cords or Connector Hoses, or other mechanical damage, or if the unit is otherwise not fully operational.
- Do not pour hot water into the ice box. The System was not designed to operate, and has not been tested, with hot water.
- Do not pick up the Control Unit by the lid. Carry using the handle only.
- Do not use other manufacturers' wraps with the Game Ready System.
- Do not operate the Control Unit without a Connector Hose attached.
- Be careful not to trip over the System's power cords and Connector Hose, or use the product where these are likely to trip an animal.
- The Game Ready Control Unit is a veterinary medical device. **Handle it with the same care as you would a laptop computer.** Do not drop it, kick it or otherwise abuse it unnecessarily. Such abuse will void all Game Ready warranties. Do not place the AC Adapter or battery pack inside the ice box for storage or transport.

In addition to the precautions listed above, additional warnings and safety precautions are posted throughout this manual. Read and carefully follow these instructions prior to operating the System.

SPECIFICATIONS

Size: 16.25" length x 7.75" width x 9.25" height (413 x 197 x 235) mm, not including Carry Bag
Weight: 7.3 lb. empty, approximately 18 lb. full of ice and water
Pressure level: cycles from 5mm Hg up to 75mm Hg
AC power: 100-240 V~, 50-60 Hz, 1.6A
DC input: 12V/2.5 A

SAFETY ELECTRICAL CLASSIFICATION

Protection against electric shock (5.1):





The Veterinary GRPro 2.1 System is considered to be Class I (protective earth) when connected to the FSP Group, Inc. model FSP 030-RCAM power supply. The Veterinary GRPro 2.1 System is considered to be Class II (double insulated) when connected to the GlobTek Model GTM-21097-5012 power supply.

Protection against harmful ingress of water (5.3):

This product provides ordinary protection against ingress of water.

Degree of safety in the presence of flammable anesthetics or oxygen (5.5):

Not suitable for use in an oxygen enriched environment or in the presence of flammable anesthetics.

 12V/2.5A	Powered by Direct Current
	Type BF Applied Parts
	Attention: Consult accompanying documents before use.
	Manufacturer

Electromagnetic interference:

This equipment has been tested and found to comply with the limits for medical devices in IEC 60601-1-2:2001. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment. Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.

ELECTROMAGNETIC COMPATIBILITY

ELECTROMAGNETIC COMPATIBILITY INFORMATION ACCORDING TO IEC/EN 60601-1-2

Table 1 for Emissions

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS		
The Veterinary GRPro 2.1 is intended for use in the electromagnetic environment specified below. The customer or the user of the Veterinary GRPro 2.1 should assure that it is used in such an environment.		
EMISSIONS TEST	COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
RF emissions CISPR 11	Group 1	The Veterinary GRPro 2.1 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Veterinary GRPro 2.1 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Table 2 for Transient Electromagnetic Immunity

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY			
The Veterinary GRPro 2.1 is intended for use in the electromagnetic environment specified below. The customer or the user of the Veterinary GRPro 2.1 should assure that it is used in such an environment.			
IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Veterinary GRPro 2.1 requires continued operation during power mains interruptions, it is recommended that the Veterinary GRPro 2.1 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE U_T is the AC mains voltage prior to application of the test level.			

Table 3 for RF Electromagnetic Immunity


GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC IMMUNITY			
The Veterinary GRPro 2.1 is intended for use in the electromagnetic environment specified below. The customer or the user of the Veterinary GRPro 2.1 should assure that it is used in such an environment.			
IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Veterinary GRPro 2.1, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 800 MHz to 2.5 GHz</p> <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> <p>^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Veterinary GRPro 2.1 is used exceeds the applicable RF compliance level above, the Veterinary GRPro 2.1 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Veterinary GRPro 2.1.</p> <p>^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Table 4 for RF Immunity

RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND THE VETERINARY GR PRO 2.1			
The Veterinary GRPro 2.1 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Veterinary GRPro 2.1 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Veterinary GRPro 2.1 as recommended below, according to the maximum output power of the communications equipment.			
RATED MAXIMUM OUTPUT POWER OF TRANSMITTER W	SEPARATION DISTANCE ACCORDING TO FREQUENCY OF TRANSMITTER		
	150 KHZ TO 80 MHZ $d = 1.2 \sqrt{P}$	80 MHZ TO 800 MHZ $d = 1.2 \sqrt{P}$	800 MHZ TO 2.5 GHZ $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

WARNINGS:

Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the User's Manual.

Portable and mobile RF communications equipment can affect Electrical Equipment.

The Veterinary GRPro 2.1 System has to be powered with the AC adapter models GlobTek #GTM-21097-5012 or FSP Group Inc. #FSP030-RCAM in order to be compliant with IEC/EN 60601-1-2 section 6.1 and 6.2 EMC requirements.

The use of accessories, transducers and cables other than those specified and sold by the manufacturer of the Veterinary GRPro 2.1 System as replacement parts for internal components may result in increased emissions or decreased immunity of the system.

The Veterinary GRPro 2.1 System should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the Veterinary GRPro 2.1 System should be observed to verify normal operation in the configuration in which it will be used.

The essential performance of the Veterinary GRPro 2.1 System is:

Compression Cycle:

High: cyclic 5-75mm Hg





Med: cyclic 5-50 mm Hg





Low: cyclic 5-15 mm Hg





NO Pressure: wrap shall be vented to atmosphere

The cooling temperature of the circulating ice water will be adjustable between 34°F (1°C) and 50°F (10°C) as long as the ice water in the ice box is supplied with sufficient amount of ice.

TROUBLESHOOTING

ERROR	WHAT DOES IT MEAN?	WHAT CAN I DO?
 01	<p>Air Pressure Sensor: The Control Unit has detected a problem calibrating the air pressure circuit on start-up.</p>	<ul style="list-style-type: none"> • This is most likely to occur if you have restarted the System with an inflated Wrap attached. • Detach the Wrap, pressing it flat to expel the air accumulated inside and try again.
 02	<p>Self-Test Error – Air Pump: The Control Unit has detected an electronic problem in the air circuit on start-up.</p>	<ul style="list-style-type: none"> • Disconnect the Wrap from the Control Unit. • Turn the Control Unit off and on again without a Wrap connected. • Reconnect the Wrap and resume treatment. • If the problem persists, contact Customer Service.
 04	<p>Dry Pump: The Control Unit has detected a dry pump. In order to prevent possible damage to the fluid pump, the unit will stop therapy.</p>	<ul style="list-style-type: none"> • Note that if you are using new Wraps, the water in the reservoir may have been depleted and causing this error. Make sure there is adequate water in the reservoir based on the fill line indicator label. Refer to instructions for priming a Wrap below. • Verify that the ice box filter is not clogged (refer to filter maintenance instructions on page 10). • Make sure there are no kinks in the Wrap or Connector Hose. • Turn the Control Unit off and on again. • Disconnect and reconnect the hose from the Control Unit and the Wrap, verifying that an audible “click” is heard at both connection points. • Prime the Wrap using the following steps: <ul style="list-style-type: none"> - Select “No Pressure.” - Attach the hose to the unit and the wrap. - Lay the Wrap open and flat next to or lower than the Control Unit (not on the body). - Run the System for 2 minutes. • Prime the Control Unit using the following steps: <ul style="list-style-type: none"> - Disconnect the hose from the Control Unit. - Now, look at the Wrap connection location on the Control Unit. On the top valve, push the white prong in so that it is flush with the metal connector. - Make sure you are not fully covering the opening in the prong. - Push start, and water should squirt out of the valve. - Restart the System.
 06	<p>Over Pressure: Indicates that the Control Unit has exceeded the target air pressure.</p>	<ul style="list-style-type: none"> • Turn the Control Unit off and back on. • Make sure the Wrap is applied securely around the body. • Try using a different Wrap and Hose to isolate which component may be producing the error. For example, an error which occurs with a Utility Wrap but not with any other Wrap may indicate that the Utility Wrap itself is causing the error, not the Control Unit.

ERROR	WHAT DOES IT MEAN?	WHAT CAN I DO?
	<p>Under Pressure: The Control Unit can't reach its target maximum compression. This often indicates that there is a leak in the pneumatic compression circuit, either in the Connector Hose, Wrap or Control Unit. Or it may occur because the hook and loop fastener on your Wrap has worn out.</p>	<ul style="list-style-type: none"> • Make sure the Wrap is applied securely. • Try using a different Wrap and Hose to isolate which component may be producing the error. For example, an error which occurs with a Utility Wrap but not with any other Wrap may indicate that the Utility Wrap itself is causing the error, not the Control Unit. • If using a Dual Hose, make sure you have two Wraps attached.
	<p>Deflation Error: The Control Unit has detected that the Wrap has not properly deflated.</p>	<ul style="list-style-type: none"> • Turn the Control Unit off. • If there is air left in the Wrap, disconnect the Wrap from the Connector Hose and manually deflate the Wrap by applying pressure to it. • Reconnect the Hose to the Wrap and reapply the Wrap to the body. • Turn the Control Unit on and press play/pause. • Make sure the Wrap is applied securely against the body. • If possible, try using a different Wrap and Hose to isolate which component may be producing the error. For example, an error which occurs with a Utility Wrap but not with any other Wrap may indicate that the Utility Wrap itself is causing the error, not the Control Unit.
	<p>Pump Performance Error: The Control Unit has determined that the fluid pump may be working too hard. This could be caused by ice or debris in the fluid circuit. In order to prevent possible damage to the fluid pump, the unit will stop therapy.</p>	<ul style="list-style-type: none"> • Turn the Control Unit off and back on again. • Reapply the Wrap, making sure to follow all application instructions accompanying the Wrap. • Disconnect and reconnect the hose from the Control Unit and the Wrap, verifying that an audible "click" is heard at both connection points. • If that does not solve the problem turn the Control Unit off for 20 minutes (to let the pump cool down) before turning it on again to try again.
	<p>Low Flow: Control Unit has detected something blocking the water flow.</p>	<ul style="list-style-type: none"> • Check all hose connections. • Disconnect and reconnect Wrap from Connector Hose. • Make sure there is water in the ice box. • Verify that the ice box filter is not clogged. • Make sure there are no kinks in the Wrap or Connector Hose. • Reapply the Wrap snugly, making sure to follow all application instructions accompanying the Wrap. • Turn the Control Unit off and on again. • Disconnect and reconnect the hose from the Control Unit and the Wrap.

ERROR	WHAT DOES IT MEAN?	WHAT CAN I DO?
 	<p>Self-Test Error – Fluid Circuit: The Control Unit has detected an electronic problem in the fluid circuit on start-up.</p>	<ul style="list-style-type: none"> • Turn off the Control Unit. • Turn the Control Unit back on and resume treatment. • If the problem persists, contact Customer Service.
 	<p>Temperature Calibration Error: The Control Unit has detected a failure in the Temperature Control circuit or is being operated outside of the advised temperature range (33-120 degrees Fahrenheit).</p>	<ul style="list-style-type: none"> • Be sure you are operating and storing the System within the advised temperature range of 33-120 degrees Fahrenheit. • Turn the Control Unit off. • Fill the Control Unit with ice and water. • Turn the unit back on again and push Play/Pause. • Repeat this process up to three times. • If the problem persists, contact Customer Service.
	<p>Control Unit will not turn on:</p>	<ul style="list-style-type: none"> • Press the power button. If no orange or green light is illuminated, make sure the AC Adapter is plugged into a working electrical outlet and all connections are secure. (Test outlet with another electrical device.) • Press the power button again. If the Control Unit still will not turn on, call Customer Service.
	<p>Control Unit won't reach Target Temperature, or temperature is unstable:</p>	<p>First completely fill the reservoir with ice, then fill the remaining space with water to administer therapy on the coldest setting. If you are still unable to achieve your desired target temperature, try the following steps:</p> <ul style="list-style-type: none"> • If you are still unable to achieve WARMER temperatures, be sure the Temperature Knob is turned to full warm, use less ice, and reduce the amount of water if necessary. • If you are still unable to achieve COLDER temperatures, confirm that the Temperature Knob is set to full cold and that the reservoir is full of ice, replenishing frequently and stirring the reservoir to break up large formations of ice if necessary. Make sure there are no kinks in the Wrap or Connector Hose. Reapply the Wrap, making sure to follow all accompanying application instructions. Finally, if you still cannot achieve the coldest temperature desired, adding more water may also allow the Control Unit to reach colder temperatures. To achieve this effect, water may be added to the top of the ice level. CAUTION: By overfilling the reservoir as in the last step, the temperature control feature of the System will not work and the Control Unit will be administering therapy at "full cold." Consult the Warnings on page 12 to make sure you take proper steps to minimize the risk of injury.

Need more help with a problem? In the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor.

WARRANTY

MANUFACTURER'S WARRANTY

CoolSystems warrants that the Veterinary GRPro 2.1 Control Unit, if properly used, will be free from defects in material and workmanship for a period of two (2) years after the date the Veterinary GRPro 2.1 Control Unit was purchased. If the Veterinary GRPro 2.1 Control Unit, which is the subject of this Limited Warranty, malfunctions during the warranty period for reasons covered by this Limited Warranty, CoolSystems, at its options, will:

- REPAIR the Veterinary GRPro 2.1 Control Unit OR
- REPLACE the Veterinary GRPro 2.1 Control Unit with another Veterinary GRPro 2.1 Control Unit.

THIS LIMITED WARRANTY AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER STATE LAW APPLY ONLY TO THE ORIGINAL PURCHASER OF THE GRPRO 2.1 CONTROL UNIT AND ARE NON-TRANSFERABLE.

Extent of Limited Warranty

This limited warranty does not cover damages due to external causes, including, without limitation, accident, usage not in accordance with product instructions, misuse, neglect, alteration or repair.

How to Obtain Warranty Service

To obtain warranty service, in the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor. If you are not sure who the local distributor is, call Game Ready Customer Service at +1.510.868.2100 and we will refer you to one. You must have returned the Warranty Registration card to CoolSystems within thirty (30) days from the date of purchase to qualify for warranty service. If you qualify for warranty service from CoolSystems, you will be issued a Returned Material Authorization (RMA) number. When you return the Veterinary GRPro 2.1 Control Unit to CoolSystems, you must write the RMA number on the outside of the package. CoolSystems will not accept returned Veterinary GRPro 2.1 Control Units without an RMA number on the package. If you return the Veterinary GRPro 2.1 Control Unit to CoolSystems, you must assume the risk of damage or loss during shipping. You must use the original packaging or the equivalent. CoolSystems may require you to verify in writing that you are the original purchaser of the Veterinary GRPro 2.1 Control Unit. CoolSystems may elect to replace or repair the Veterinary GRPro 2.1 Control Unit with either a new or reconditioned product. The returned product shall become CoolSystems' property upon receipt. The replacement Veterinary GRPro 2.1 Control Unit is warranted under this written warranty and is subject to the same limitations and exclusions for the remainder of the original warranty period. THIS WARRANTY IS NOT TRANSFERABLE.

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WARRANTY REGISTRATION

REGISTRATION

Please complete the Warranty Registration for both the Veterinary GRPro 2.1 Control Unit and the Wraps online at www.gamereadyvet.com. You must register within 30 days from the date of purchase in order to receive warranty service.

You will need the following information to complete your Warranty Registration: **The Control Unit's model number (REF) and its serial number (SN)**. These numbers are located on the label on the bottom of the Control Unit. Simply go to www.gamereadyvet.com, click on the Product Registration link at the top of the page, fill out and submit your information.

EXTENDED WARRANTIES

Extended Warranties are available for the Veterinary GRPro 2.1 System. For details and information, in the U.S. call Game Ready Customer Service at 1.888.426.3732 (+1.510.868.2100); from outside of the U.S. please contact your local distributor.



G A M E  R E A D Y®

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