THE FRIGID FLUID

EMBALMING MACHINE

OWNERS MANUAL

11631 W. GRAND AVENUE, NORTHLAKE, IL 60164 | **Phone:** +1 (708) 836-1215 | **WEBSITE:** www.frigidfluid.com

GLOSSARY OF PARTS & TERMS

Reservoir	A 3.25 gallon (14.77 liters) shatter-proof glass cylinder used to mix arterial and chemical solutions.
Reservoir Filter	The disc placed on the bottom of the reservoir that contains a meshed screen to prevent debris from entering the system. It is held in place by a magnetic snap and can be easily removed for cleaning.
Lid	The lid is designed to stay in place during use. A hatch in the lid allows the user to add fluid to the reservoir without removing the lid. Mesh in the hatch opening adds an additional level of filtering to the system.
Quick Connect	The stainless steel quick connect port on the right-hand side of the machine is the interface for connecting the embalming hose to the system.
Hose	The embalming hose connects to the machine through the quick connection interface, The other end has a threaded port for cannula attachment. The quick connection interface is specifically designed for fluids. When disconnected, fluids will not leak from that end of the hose. The hose also has a clear section which provides the embalmer with a visual indication of the color and flow of fluid through the hose when in operation.
Pressure Knob	The pressure knob, located on the left-hand side of the machine, is used to adjust the pressure in the system (0-105 psi / 0-723.95 kPa). To increase or decrease pressure, follow the markings on the front of the machine.
Flow Knob	The flow knob, located on the right-hand side of the machine, is used to adjust the flow in the system (0-80 oz/min / 0-2267.96 gram/min). Because pressure and flow are related, the achievable maximum/min of flow will be affected by the pressure setting. To increase or decrease flow, follow the markings on the front of the machine.
Mode Knob	The center knob sets the mode of operation. The modes are OFF/GRAVITY, MIX, CLEAN, INJECT, and PULSE.
Mix/clean Port	A vertical tube with an integrated filter provides a top-down mixing function. The cover for this mix/clean tube also acts as an interface to hold the hose.
Hose Holder	Integrated into the mix/clean port cover is an interface to hold the hose in an upright position. If the hose is connected to the system, this stowed position prevents fluids from leaving the system. The hose snaps into the side of this cover piece near the top of the tank with both a magnetic and mechanical snap for extra security. The hose should always be stowed in this position when not in use.

THE NAME YOU'VE TRUSTED SINCE 1892

FRIGID FLUID EMBALMING MACHINE

OPERATIONAL OVERVIEW & MANUAL

FRIGID FLUID COMPANY

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EMBALMING MACHINE QUICK-START GUIDE

POWER

1. Confirm the power switch in the back is in the OFF position (0).
2. Plug the power cord into the socket located in the back of the base.
3. Because this machine uses fluid, plug the power cord into a properly-rated GFCI outlet.

RESERVOIR

4. Confirm the filter is in place.
5. Inspect the inside of the reservoir and wipe down or remove any debris.
6. Place the lid onto the reservoir and close the hatch.

HOSE

7. Attach the embalming hose to the quick disconnect located on the right side of the machine.
8. Turn the stopcock on the hose to the open position.
9. The machine is ready to turn on.

INITIAL POWER-UP & CONTROLS

1. Ensure the center knob is turned to OFF/GRAVITY.
2. Switch on the main power button located on the back of the machine.

IMPORTANT

3. **PRIME THE MACHINE:** Priming the machine is only necessary if the machine is completely empty of fluid, like when it is first used or if it is accidentally run dry. Internal components of the system, like the pump and the flow sensor, are designed to work with fluid and will not work reliably if air is in the system. To run a prime cycle:

    a. Add 3 gallons (13.6 liters) of water to the reservoir.
    b. Place the cannula end of the hose in a drain.
    c. Turn the flow knob to the maximum position.
    d. Set pressure to 60 psi (414 kPa)
    e. Turn the machine to CLEAN mode.
    f. A notification beep tells you when it is complete.
    g. When the CLEAN cycle completes, there will be water remaining in the bottom of the reservoir.
    h. Return to OFF/GRAVITY by turning the center knob to the OFF/GRAVITY position.

MIXING FLUIDS

1. Ensure the center knob is turned to OFF/GRAVITY.
1. Add desired embalming fluid mixture to the reservoir.
2. Ensure the hose is stored in the upright position and flow is turned to maximum.
3. Turn the center knob to the "MIX" mode.
4. When the fluid appears to be well mixed, turn system to OFF/GRAVITY.

INJECTING FLUIDS

For a standard INJECT embalming case:

1. Place the hose in the drain of the table and secure.
2. Turn to INJECT mode and set the desired flow and pressure using the front knobs on the base of the machine. The pressure range is 0-105 psi (0-723.95 kPa) and the flow range is 0-80 oz/min. (0-2267.96 g/min) Because pressure and flow are related, the achievable maximum/min of flow will be affected by the pressure setting.
3. Turn the stopcock in the hose to the off position, then turn the machine to OFF/GRAVITY mode.
4. Insert cannula into the artery and secure in place with a locking forceps or hemostat.
5. Turn the stopcock to the open position, then select INJECT mode to start the procedure. Monitor flow/pressure during the case.
6. If desired, turn to PULSE mode to assist in overcoming blockages encountered during injection.
7. When the procedure is complete, turn to OFF/GRAVITY mode.
8. Stow the hose in the upright position in the hose holder located near the top of the reservoir.

For a GRAVITY embalming case:

1. Put hose in the drain of the table and secure.
2. Keep in OFF/GRAV mode and set the desired flow using the height of the machine.
3. Raising the height of the machine relative to the body increases the gravity flow rate. Use caution when raising the machine and ensure it is stable and secure in its position.
4. Insert cannula into the artery and secure in place with a locking forceps or hemostat.
5. Monitor flow/pressure during the case.

POST-CASE CLEANING PROCEDURE

1. Turn the system to OFF/GRAVITY.
2. Remove the cannula from the artery and clean the end of the cannula using a cleaning solution.
3. Place the cannula end of the hose in the drain of the table.
4. Ensure the hose is secure in the drain on the table.
5. Ensure the stopcock on the hose is in the open position.
6. Add cleaning formula and water to the reservoir, up to the maximum fill line.
7. Open up the flow valve to the maximum setting.
8. Turn the center knob to CLEAN
9. Set pressure knob to 60 psi (414 kPa)
10. A notification beep tells you when it is complete.
11. When the CLEAN cycle completes, some water will remain in the bottom of the reservoir.
12. Inspect the color and clarity of the remaining water in the reservoir.
13. If necessary, fill the reservoir with water to the maximum fill line and repeat the CLEAN cycle.
14. Using gloves, run a damp cloth on the inside of the reservoir to clean off any remaining build-up.

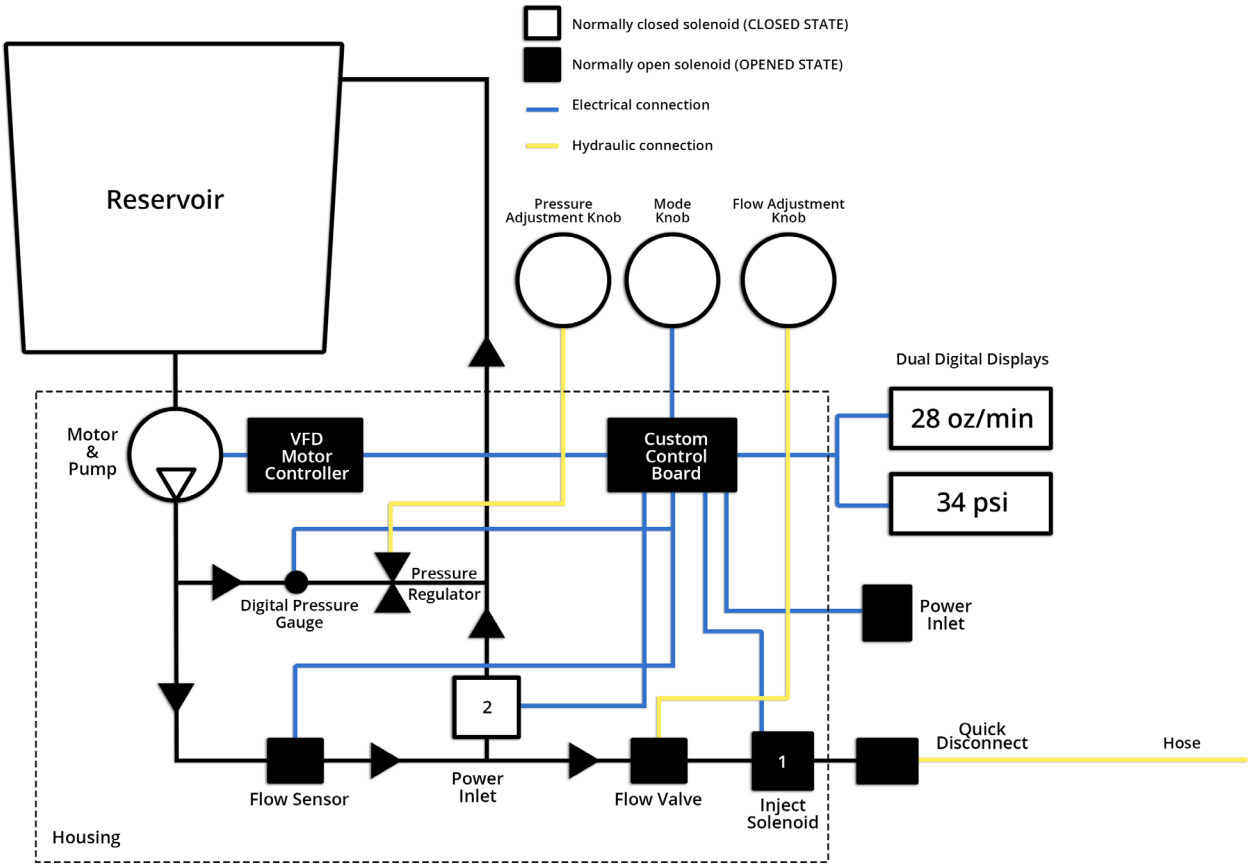

Figure 1: System Hydraulic Layout, Controls, and Display Interface

POWER ON-OFF/GRAVITY MODE

The system is powered by a switch in the back of the device. The center knob on the front of the device allows users to select different modes of operation. In the default knob position, it is in OFF/GRAVITY mode which powers the display screens but not the motor. Flow and pressure readings are displayed in this mode as well as safety notifications.

The user may prefer to use the device in a "GRAVITY" mode which allows fluid to flow due to gravity without the motor and pump engaged. Through the flow display, the user can see and monitor the low flow in this mode.

Pressure is detected and displayed in this mode to monitor any instances of high-pressure in the system.

CHANGING MODES

The MODE knob in the center of the control interface of the device allows the user to choose from one of 5 modes: OFF/GRAVITY, INJECT, PULSE, MIX, and CLEAN. When the user changes to any mode other than OFF/GRAVITY, the motor and pump engaged.

USER OPERATION AND FEATURES FOR ALL MODES

Users set and adjust the embalming pressure and flow using the adjustment knobs on the front control interface of the device.

The rate of flow (from zero to maximum flow of the system) is adjusted by a knob located on the right side of the control interface. The flow rate is dependent on the pressure in the system; a higher flow can be achieved at higher pressures. Inversely, at lower pressures the flow range is reduced. At 105 psi (0-723.95 kPa), the flow rate of the system can go up to 80 oz/min (0-2267.96 g/min). If the flow valve is fully closed, setting the flow to zero, the fluid in the system will be recirculated from the pump back to the reservoir.

3 LEVELS OF SAFTEY:

The pressure regulator knob automatically maintains line pressure, from 0-105 psi (0-723.95 kPa). To maintain a pressure, the regulator detects the pressure in the line and works to maintain the set pressure by increasing or decreasing the flow going through a bypass line back to the reservoir. This also acts as a system safety feature. If a high pressure is detected in the regulator, more flow will be diverted back to the reservoir through the bypass.

For another level of safety for the machine, the pump has a built-in hydraulic bypass feature, another level of safety for the machine. If the pump detects pressures in excess of 105 psi (723.95 kPa), it begins a recirculate mode within the pump to reduce exceses pressure in the system.

A digital pressure sensor monitors the system pressure. A safety shut down occurs if pressure above 105 psi (723.95 kPa) is detected. This 3-level redundant safety feature for high pressure ensures user safety and equipment protection.

The hydraulic flow sensor precisely measures flow readings regardless of the fluid type and mixture. This measurement is displayed in real time on a digital display above the flow adjustment knob.

The pressure sensor monitors and measures the pressure of the system. This is also displayed in real time on a digital display above the pressure adjustment knob.

DIGITAL DISPLAY

The digital displays provide the user with critical information and notifications for the device. These displays show the flow, pressure, and fluid temperature readings in real time. They also inform the user which mode the system is in. The notifications the user will see on the displays are:

- High pressure detection & shut-down. To protect both the user and system internal components, the system shuts down if pressures above 105 psi (723.95 kPa) are detected.
- Low pressure and low flow detection & shut down. System will shut down when low pressure and flow are detected.
- MIX cycle: Display will show "Mix" and a temperature reading will be present.
- When the CLEAN cycle completes, a short beep and display notification indicates that the CLEAN cycle is complete and the system turns off.
- Digital sensor failure. The functionality of digital sensors in the system is checked automatically during start-up. If the pressure sensor fails or gets disconnected, "PRESSURE SENSOR FAULT" will show up on the display. If the flow sensor fails, the screen will show zero even when fluid is exiting the hose. If the temperature sensor fails, it will not show temperature on the screen. See the trouble-shooting guide on Page 13 for more detail.

INJECT MODE

During INJECT mode, the user can adjust the pressure (0-105 psi / 0-723.95 kPa) and flow (0-80 oz/min. or 0-2267.96 g/min.) to their preferred setting. During INJECT mode, fluid will be continually mixed in the reservoir through the use of the mix/clean vertical tube and port. The INJECT mode can be run continuously for up to 8 hours.

For the INJECT mode procedure, refer to "QUICK START GUIDE", pg.2.

PULSE MODE

The PULSE mode operates exactly like INJECT, with the addition of a pulse at a rate of 40 times per minute. Pulse is achieved by the inject solenoid opening and closing, which stops and then allows flow out of the machine at a consistent rate. The flow and pressure readings are taken at the peak flow and pressure values. This allows the readings to be intuitive and consistent to what they are set in INJECT mode.

MIX MODE

When MIX mode is selected, all fluid is pulled from the bottom of the reservoir and directed to the top of the reservoir through the mix/clean port. This mixes fluids effectively. The display will read "Mix" and a temperature for the mixing solution will be present. After 1 hour of mix run-time, the mix cycle will shut off and "MIX CYCLE COMPLETE" will show on the displays. If it is desired to continue mixing, go back to "OFF/GRAVITY" and then back to "MIX".

MIX MODE SET-UP

1. Confirm the hose is stored in the upright position on the mix/clean port near the top of the reservoir.
2. Ensure proper ratios of fluids are in the reservoir.
3. Turn the center knob to MIX mode.
4. After desired mixing is achieved, turn back to OFF/GRAV mode.

If a high pressure or low pressure is detected in this mode, the user is notified through an audible beeping pattern and a warning on the screen. The system will turn off automatically for either of these safety features. To resume the MIX MODE, go to OFF/GRAVITY MODE, adjust the appropriate knobs, check for leaks, or ensure enough fluid is in the reservoir. Then switch back to MIX MODE.

CLEAN MODE

CLEAN mode is similar to MIX mode. When the CLEAN mode is selected, the fluid is diverted to the top of the reservoir as well as out of the hose. The solenoids are also pulsed in this mode to break up any build-up and flush debris out the system. CAUTION: It is important that the hose be in the drain so that inadvertent spills do not occur.

CLEAN MODE SET-UP

1. Turn the system to OFF/GRAVITY.
2. Remove the cannula from the artery and clean the end of the cannula using a cleaning solution.
3. Place the hose with cannula end in the drain of the table.
4. Ensure the hose is secure in the drain on the table.
5. Ensure the ball valve on the hose is in the open position.
6. Add cleaning formula and water to the reservoir, up to the maximum fill line (3 gallons / 13.6 liters).
7. Open the flow valve to the maximum setting.
8. Turn the center knob to CLEAN.
9. Set pressure to 60 psi (414 kPa).
10. A notification beep tells you when it is complete.
11. When the CLEAN cycle completes, some water will remain in the bottom of the reservoir.
12. Inspect the color and clarity of the remaining water in the reservoir.
13. If necessary, fill the reservoir with water to the maximum fill line and repeat the CLEAN cycle.
14. Using gloves, run a damp cloth on the inside of the reservoir to clean off any remaining build-up.

CLEAN MODE COMPLETE

CLEAN mode notifies the user "CYCLE COMPLETE" in lettering on the display with one audible beep. When the cycle is complete, the system automatically turns off the pump.

If a high pressure or low pressure is detected in this mode, the user is notified through an audible beeping pattern and a warning on the screen. The system will turn off automatically for either of these safety features. To resume the CLEAN mode, go to OFF/GRAVITY mode, adjust the appropriate knobs, check for leaks, or ensure enough fluid is in the reservoir. Then switch back to MIX mode.

SYSTEM SAFETY FEATURES

The system is rated for a maximum pressure of 105 psi (723.95 kPa); system shutdowns are incorporated to ensure the safe operation of the device.

An automatic safety shutdown of the system will occur if either scenario exists:

1. If high pressure is detected (great than 105 psi or 723.95 kPa).
2. If low pressure (less than 5 psi or 34.5 kPa) or low flow is detected (less than 0 oz/min).

SYSTEM SHUTDOWN RECOVERY SEQUENCE

If a system safety shutdown occurs, turn the center knob to OFF/GRAVITY mode and perform an inspection of the machine and settings. Typically, after a high pressure shut-down, turn the pressure down and then return to the mode you were using. For the low pressure and flow shut-down occurrence, check for leaks, excessive bubbles, and ensure there is enough fluid in the reservoir. If the system is completely empty of fluid, run a prime cycle (see QUICK START section) prior to using the machine.

HIGH-PRESSURE SAFETY FEATURE

"HIGH PRESSURE DETECTED" will appear on the display screens at greater than 105 psi and the system will automatically shut down. To restore operation, go through the system shutdown recovery sequence (above).

LOW PRESSURE & FLOW SAFETY FEATURE

"LOW PRESSURE AND FLOW DETECTED" appears on the display screens if a pressure reading is less than 5 psi (34.5 kPa) and the flow rate is 0 oz/min. The system will automatically shut down. This protects the internal components as well as prevents air from being injected into the body during an embalming procedure or process.

The embalming machine, and particularly the pump, are not designed to run dry.

Low-pressure readings and a flow rate of 0 typically indicate an empty reservoir or excessive air in the system. To restore operation, go through the system shutdown recovery sequence.

NOTE: The user can control the pressure down to 1 psi (6.9 kPa) when running. It is possible to trigger this shut down if the user sets the pressure <5 psi (34.4738 kPa) and turns the flow to zero (completely closed).

MACHINE ACCESSORIES USE & DETAILS

FILTER

The system comes with a filter that magnetically snaps into place in the bottom of the glass reservoir. It is necessary to keep the filter in place during operation to prevent debris from entering the system.

LID

A hatch within the lid is designed to offer a second level of filtration, and a convenient way to add fluids to the reservoir without removing the lid. This minimizes fumes and exposure to chemicals, while minimizing debris and dirt from entering the reservoir.

MIX/CLEAN PORT & HOSE HOLDER

A custom hose holder is integrated into the MIX/CLEAN port near the top of the reservoir. This allows the user to store the hose when not in use. It is important to store the hose in this position because of the gravity embalm feature of the machine. If the hose is not in this position and below the level of the fluid in the reservoir, fluid will drain out of the hose. Positioning the hose in its holder will restrict fluid from draining from the reservoir when the system is in the OFF/GRAVITY mode and the flow valve is open.

HOSE CONNECTION / DISCONNECTION TO THE MACHINE

To attach a hose, pull back on the grip of the quick connect located on the right-hand side of the machine, push the hose in place, and let it snap into place. To release or disconnect a hose, pull back on the outer grip of the hose and pull the hose out of the connection port.

PREVENTATIVE MAINTENANCE

- Clean the filter once a week by removing it and rinsing it out in a sink.
- Run the Clean Cycle and wipe down the inside of the reservoir after every case.
- Wipe down the outside surfaces after use.
- Turn off the machine after every use.
- Change the internal hoses every 3-5 years depending on usage. With the smart push-to-connect fittings, changing the majority of the hosing can be done quickly and easily without the use of tools.

WARNINGS

- Always operate the machine with the reservoir filter and lid in place. Without these filters, debris can enter the system and cause permanent damage to the overall system. Operating without the filter or lid in place voids the warranty.
- Always move the machine when it is unplugged to prevent a trip hazard, which could cause user injury or damage the system.
- **It is recommended** that the operator keep the hose in the storage position on the mix/clean port. If the hose is not in the storage position and below the level of the fluid in the reservoir, fluid will drain out of the hose.
- Do not let fluid spill on the front interface of the machine. Doing so could cause permanent display and performance issues.
- Lift the unit by using the built in handles on the underside of the base. Do not pick up the machine by the reservoir. This could cause damage to either the base or to the glass reservoir.
- Do not push on the displays. This could cause damage to the front displays and internal electronics.
- Do not open the machine unless you are instructed to do so by a certfied repair technician. Opening the system exposes high-power wiring and could cause serious injury or death. It could also cause permanent damage to the system and will void the warranty.
- Do not use sharp objects near the glass reservoir, base, or displays. This could permanently scratch or damage the surfaces.

TROUBLESHOOTING GUIDE

ISSUE	RECOMMENDED FIX
Temperature reading does not display on the LCD Display	Temperature sensor is disconnected or damaged. Contact a Frigid Repair Technician.
Flow LCD displays "0 oz / min" even when fluid exits the hose.	Flow sensor is disconnected or damaged. Contact a Frigid Repair Technician.
LCD displays "PRESSURE SENSOR FAULT"	Pressure sensor is disconnected or damaged. Contact a Frigid Repair Technician.
Displays won't turn on	Ensure that the machine is turned on and plugged in. If displays still don't turn on, contact a Frigid Repair Technician.
Fluid does not exit the hose	Ensure the hose is properly connected. Make sure flow valve is open. Check that stopcock in hose is open. If problem persists, contact a Frigid Repair Technician.
Temperature reading does not update	After adding hot or cold fluid to the reservoir, it can take up to 1 minute for the machine to cycle through and register the temperature change. If it does not change after 1 minute, and you can confirm the fluid temperature has changed noticeably, contact a Frigid Repair Technician.
Excessive noise or vibration when running the machine	Start and stop the machine for a few cycles. If noise continues, the likely causes are: excessive debris or buildup in system, a pump failure or other hydraulic component failure. Recommend running a clean cycle. If that does not solve the issue, contact a Frigid Repair Technician.

Contact a Frigid Repair Technician at:

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Frigid Fluid
COMPANY

FRIGID FLUID 2 YEAR PRODUCT WARRANTY

Except as expressly limited hereby, and subject to the terms hereof, Frigid Fluid Co. warrants that Frigid Fluid Co.'s newly manufactured products, and parts, components, uses or applications (collectively, the "Product"), insofar as it is manufactured by Frigid Fluid Co. or its authorized subcontractor(s), will be free from defects in material and workmanship for a period of twenty-four (24) months from date of shipment by Frigid Fluid Co. ("Warranty Period"), provided, Frigid Fluid Co.'s obligation under this warranty, and the purchaser's exclusive remedy for the breach thereof, shall be limited to Frigid Fluid Co.'s correction of any defect in material or workmanship by, at Frigid Fluid Co.'s option, (a) providing repair or replacement part(s) for the Product F.O.B. Frigid Fluid Co.'s factory, or (b) repairing any defective part(s); provided, however further, that the purchaser shall be responsible for providing Frigid Fluid Co. with free and safe working access to said defective parts. In no event, however, is Frigid Fluid Co.'s warranty obligation hereunder to exceed the replacement cost of the defective part(s) F.O.B. Frigid Fluid Co.'s factory. Frigid Fluid Co. shall have the option of requiring the return of any defective part, transportation, shipping and handling charges prepaid, before considering any warranty claim. This warranty shall not apply to any Product (1) which has suffered corrosion, erosion or chemical deterioration for any reason, whether or not due to the action or inaction of the purchaser, and specifically excluding any damage to the Product resulting from the failure by the purchaser to oil or maintain the Product in a manner which is consistent with the directions for care of the Product provided by Frigid Fluid Co. to the purchaser; (2) which has been subjected by persons other than Frigid Fluid Co. to improper handling, erection, assembly, operation, maintenance, and repair, or to misuse, negligence or, accident or shipping damage; (3) which has not been repaired, refurbished, rebuilt or otherwise refitted with Frigid Fluid Co. manufactured and supplied straps or mechanical, structural or other replacement parts or by a Frigid Fluid Co. certified technician; (4) been which has been altered by persons other than Frigid Fluid Co. in any manner so as, in Frigid Fluid Co.'s judgment, to affect its serviceability or proper operation; or (5) used in a manner for which it was not intended, (6) which has a condition resulting from normal wear and tear; (7) which was subject to incorrect or inadequate maintenance or care; or (8) which has been purchased through a non-authorized Frigid Fluid Co. reseller or any Product purchased in a used condition. Any Product repaired or replaced pursuant to this Warranty shall be warranted as herein provided for the unexpired portion of the Warranty Period applying to the original Product. Claims pursuant to this warranty must be made during the Warranty Period. Any claim made pursuant to this warranty shall include (i) proof of purchase, including the serial number of the Product, and (ii) a detailed description of the issue, which may, if requested by Frigid Fluid Co. include, photographic or video evidence. Frigid Fluid Co. reserves the right inspect the Product and verify the claim the Product prior to acceptance of any warranty claim hereunder. THE FOREGOING CONSTITUTES FRIGID FLUID CO.'S SOLE RESPONSIBILITY IN CONNECTION WITH THE PRODUCT, AND THERE ARE NO EXCEPT AS EXPRESSLY SET FORTH HEREIN, ALL WARRANTIES OR, REPRESENTATIONS, CONDITIONS AND/OR DUTIES OF ANY KIND WHATSOEVER, EXPRESS OR, IMPLIED, INCLUDING ANY AND/OR STATUTORY ARE HEREBY DISCLAIMED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR, FITNESS FOR A PARTICULAR PURPOSE WHICH EXTEND BEYOND THE WARRANTY HEREINBEFORE PROVIDED, NON-INFRINGEMENT AND/OR QUIET ENJOYMENT ARE HEREBY DISCLAIMED, AND NONE SHALL BE IMPLIED BY LAW WITH RESPECT TO THE PRODUCT. WHETHER ATTRIBUTABLE TO CONTRACT, WARRANTY (INCLUDING CORRECTION OF DEFECTS), TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, FRIGID FLUID CO.'S RESPONSIBILITY FOR ANY CLAIMS, DAMAGES, LOSSES OR LIABILITIES ARISING OUT OF ITS SUPPLYSALE OF THE PRODUCT IN THE AGGREGATE SHALL NOT, EXCEED THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT SHALL FRIGID FLUID CO. BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER, INCLUDING BUT NOT LIMITED TO LOSS OR USE OF PRODUCTIVE FACILITIES OR PRODUCT, LOST PROFITS, OR LOST PRODUCTION, WHETHER SUFFERED BY PURCHASER OR ANY THIRD PARTY, IRRESPECTIVE OF WHETHER CLAIMS OR ACTIONS FOR SUCH DAMAGES ARE BASED UPON CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE

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