



Owner's Manual

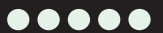
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INTRODUCTION

We have provided this Owner's Manual to help you keep your Eliminite® running smoothly for many years. The Eliminite® is the culmination of years of field testing and research and has a long history of high level performance. Chances are you will never need to contact us to resolve a problem with your Eliminite®. However, should the need arise, our team of customer service representatives, engineers, authorized Eliminite® distributors and maintenance providers are available to assist you. Visit www.eliminite.com for contact information or call 888.406.2289.

Installation or operation and maintenance procedures outlined in this manual are for informational purposes only. **The owner should never attempt any installation, operations or maintenance procedures.** The owner's responsibility is focused on obeying warnings, safeguards and guidelines, and assuring that the service contract is maintained for the life of the system.

Although the Eliminite® is reliable and requires little attention, it is essential that you have a clear understanding of the following:

- Your responsibilities as the owner regarding the Eliminite® and all other components of your wastewater treatment system such as your septic tank and your drainfield.
- All warnings, safeguards and guidelines.
- How the system works.
- Major components of the system.
- Preventative maintenance measures.
- The manufacturer's and authorized Eliminite® distributor's service-related obligations and warranties.
- How to contact your maintenance provider, Technical Support and your authorized Eliminite® distributor.

These topics will be discussed in detail in the pages that follow.

Documents you should have in your possession

If the system has NOT been installed:

- This Owners Manual
- Operation and Maintenance Manual
- Installation Manual

If the system has been installed and is new, and you are the original owner:

- All of the above apply, in addition to the following:
- Completed "As-Built" drawing prepared by installation contractor
- Completed installation checklist prepared by installation contractor
- Valid permit from local/state regulatory agency with final certification of system

If you are not the original owner you should have all the above and

- Copies of all maintenance and service records

If you think items are missing, contact Eliminite Inc. Customer Service at 888-406-2289.

IMPORTANT SAFETY INSTRUCTIONS

Warnings, safeguards and guidelines

Use of garbage disposals is not recommended because they increase solids loading to the septic tank. Generally, if you have a garbage disposal problems can be avoided by pumping the septic more frequently. However, it is still important to limit disposal use.

If wastewater flow rates exceed the capacity of the system, the life of your drainfield and treatment system can be significantly shortened. Try reducing the volume of wastewater produced by maintaining fixtures in proper working order, repairing leaking toilets, and not putting any extraneous waste into the system. Examples of waste to keep out of the system are: gutter drain water, spa water, floor drains, pool water, etc.

The Eliminite® system must be maintained by a qualified professional for the life of the system. Failure to maintain the system will void the warranty and may lead to system malfunction.

Only a Certified Eliminite® Service Provider should attempt to inspect, repair or adjust the Eliminite® system.

Never allow the following items into the septic system:

- Plastic of any kind including, but not limited to, plastic bags, straws, cup lids, plastic ware, etc.
- Cloth of any kind
- Cigarette butts
- Paper towels
- Significant quantities (anything over 1/2 gallon) of acids or caustics including, but not limited to, soaps, bleach, disinfectants, antibacterial cleansers, pure ammonia, etc. which have a high or low PH factor
- Disposable diapers, feminine hygiene products, etc.
- Rubber products including, but not limited to, rubber gloves, condoms, rubber bands, etc.
- Any tissues that do not readily decompose in water such as heavy-duty disposable cleaning cloths
- Acetone, nail polish remover
- Rainwater from gutters
- Greases, fats and oils
- Pesticides, herbicides, fertilizer or other lawn and garden maintenance chemicals
- Motor oil
- Kerosene
- Gasoline
- Antifreeze
- Paint
- Paint thinner
- Varnish or stain
- Sealant
- Degreasing agents
- Industrial cleaning agents
- Car wash water
- Backwash water from any type of water softener
- Air conditioner discharge
- Sump pump discharge
- Spa or pool water
- Heavy-duty toilet disinfectant products such as multiple-use disinfecting discs that adhere to the toilet, etc.
- Mop water containing any harsh cleaning agent
- Additives for septic systems
- Heavy-duty carpet cleaning solutions such as those used in a wet/dry vacuum

Examples of the types of waste that CAN be effectively treated by the system:

Residential strength household waste
Dish water
Bathwater
Toilet water
Laundry water

Note: Contact your local health department for information on proper disposal of hazardous materials

Remember that your Eliminite® relies upon the microbial population within the system to function. These microbes are living, breathing organisms that cannot withstand chemicals, harsh solutions or other foreign materials. Please exercise caution and common sense when disposing of products into the septic system. If you have questions regarding the safety of any substance not mentioned in the list above, contact your local maintenance provider for further information.

Eliminite, Inc., the manufacturer of the Eliminite®, has established an agreement with ecoSentry, LLC to conduct all sampling and maintenance requirements for 2 years from the date of purchase of an Eliminite®. ecoSentry, LLC has certified Eliminite® Service Providers to provide maintenance in your area. If you have questions contact Eliminite, Inc. at 888.406.2289 or visit www.eliminite.com for additional contact information and answers to frequently asked questions.

INTRODUCTION TO SYSTEM

TREATMENT PROCESS: Wastewater from the home drains into the building sewer and enters the septic tank. Inside the septic tank solids settle to the bottom and fats, oils and grease (FOG) float to the top. As the solids settle and FOG floats, a third, middle, layer develops, referred to as clarified effluent. The clarified effluent drains to the pump chamber. When the liquid level in the pump chamber rises enough to lift the Eliminite® low level cutout float switch, the timer in the control panel is activated. The low level cutout float is a safety feature that prevents the Eliminite® pump from running when there is not enough liquid in the tank. The Eliminite® pump is turned on and off by the control panel according to factory settings. When the Eliminite® pump is turned on by the control panel, liquid is pumped to the Eliminite® inlet.



MetaRocks media bed and spray nozzles inside Eliminite tank.

Inside the Eliminite®, clarified effluent trickles over the MetaRocks® where the first step in the treatment process takes place. Microorganisms naturally present in the wastewater attach to the surface of the MetaRocks®. As wastewater trickles past these microorganisms it is utilized as a food source. The result of this “bioremediation” activity is a reduction in the concentration of undesirable components in the wastewater. The second step in the treatment process occurs after the wastewater has trickled through the Eliminite® and is returned to the septic tank. Inside the septic tank, the liquid exiting the Eliminite® unit is introduced to a different set of microorganisms with the ability to remove constituents that could not be removed by the first step alone. This cycle repeats and establishes a circulation between the septic tank, pump chamber Eliminite® and back to the septic tank. As more wastewater from the house is

discharged to the septic tank and the liquid level in the system rises, treated effluent is sent to the drainfield. Microorganisms naturally present in the soil complete the treatment process.

MetaRocks®: MetaRocks® unique characteristics make them an ideal medium for growing and maintaining microorganisms. With long term effective porosity of over 50% and nearly twice the long term surface area of competitor's media, MetaRocks® are perhaps the single best new product in the field of on-site wastewater treatment in years.

Lung®: Operated by the same pump that delivers wastewater to the Eliminite®, the Lung provides fresh air to the Eliminite®. Rather than using a blower or air compressor, the Lung® is driven by the pressure of flowing liquid. Each time the effluent pump is activated, air, drawn into the distribution pipe from the previous cycle, is discharged directly into the Eliminite®. When the pump is turned off by the control panel, the distribution pipe drains by gravity back to the pump chamber and fresh air is pulled into the distribution pipe. This sequence repeats each time the Eliminite® receives wastewater.

Float switch: An electrical switch operated by a float in a tank or reservoir that typically controls the operation of another electrical component such as a pump or timer. As part of the Eliminite® system, float switches serve three purposes:

- Disable the Eliminite® pump if the liquid level in the pump chamber is too low.
- Control operation of drainfield/discharge pumps.
- Activate high level alarm if the liquid level in the pump chamber is too high.

MAINTENANCE

Septic tank pumping

The septic tank should be pumped periodically. We recommend the service provider schedule for periodic pumping every 3 to 5 years.

Intermittent or seasonal operation

If you plan to leave your home vacant for more than two to three months with no use of the facilities, notify your maintenance provider so that your system can be suspended until you return. When you return, you will not need to call the service provider back because restart from suspended mode is automatic.

If you will be gone for a shorter period than 2 to 3 months, leave the system on automatic.

Change of ownership

If the ownership of your home changes you must inform your Eliminite® service provider of the change of ownership. You also are responsible for informing the new owner that the home is served by an advanced wastewater treatment system. You should make copies of important records for your files and leave all original service records, manuals, drawings and photos with the new owner. The warranty and service contract is transferable but only if the new owner notifies the service provider before the next scheduled service visit.

Initial and extended service agreements

The initial service policy between the owner and ecoSentry is a two-year policy satisfying state and local regulatory agency's maintenance requirements. The cost of the initial service policy is included in the purchase of the Eliminite®. If the owner's state or county does not regulate wastewater treatment system maintenance, ecoSentry will conduct annual service visits or as dictated by the manufacturer.

After the initial service policy expires, Eliminite Inc. requires that the maintenance contract be renewed annually or as required by the homeowner's state and local regulatory agency. The extended service policy must be established within 30 days after expiration of the initial service policy. **Failure to renew the contract within 30 days of the expiration of the initial service policy may void warranties.** Permitting agencies require notification if the homeowner does not renew the service contract.

For example, Montana Department of Environmental Quality (MDEQ) states:

“The service provider must notify the reviewing authority and local health department of service contracts that are not renewed.”

MDEQ, Circular DEQ 4, Appendix D

CUSTOMER SUPPORT

In the unlikely event of a system failure, the owner should contact his or her maintenance provider.

Eliminite, Inc. and ecoSentry, LLC is available to serve your customer service needs seven days a week. Visit www.eliminite.com for the most up-to-date information regarding the Eliminite®, or use the following contact information.

Eliminite, Inc.

Phone: 888.406.2289

Fax: 406.388.7549

Mailing address:

Eliminite

P.O. Box 359

3341 Frontage Road

Three Forks, MT 59752

website: www.eliminite.com

e-mail: info@eliminite.com

ecoSentry, LLC

Phone: 888-406-2289

Fax: 406.388.7549

Mailing address:

P.O. Box 359

Belgrade, MT 59714

VITAL INFORMATION

To be completed by original owner

System Owner Information

Name:
Business:
Physical Address:
Mailing Address (if different than physical):
City, State, Zip:
Legal Address (Subdivision/Lot/Block/Co/St):
Phone:
Cell:
Fax:
E-mail:
Website:

Certified Eliminite® Maintenance Provider Information

Name:
Business:
Physical Address:
Mailing Address (if different than physical):
City, State, Zip:
Phone:
Cell:
Fax:
E-mail:
Website:

Authorized Eliminite® Distributor

Name :
Business:
Physical Address:
Mailing Address (if different than physical):
City, State, Zip:
Phone:
Cell:
Fax:
E-mail:
Website:

WARRANTY

Eliminite, Inc. warrants to the original consumer of this Eliminite, Inc. product that the Eliminite® unit, MetaRocks® and internal piping shall be free of manufacturing defects for 5 years after the date of purchase. During that time period, Eliminite, Inc. will repair or replace, for the original consumer, any component which proves to be defective due to defective materials or workmanship of Eliminite, Inc.

This warranty does not apply to the following:

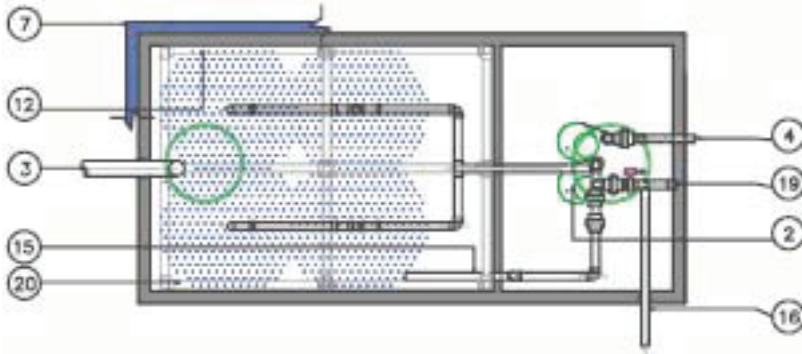
- (a) defects or malfunctions resulting from units not installed, operated or maintained in accordance with the specifications and instructions provided by Eliminite, Inc., applicable local codes, ordinances or accepted trade practices
- (b) conditions beyond the control of Eliminite, Inc.
- (c) units or any component of system repaired, modified or maintained without prior authorization from Eliminite, Inc.
- (d) units or any component of system repaired, modified or maintained by any party other than a Certified Eliminite® Service Provider

ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ELIMINITE, INC. SHALL NOT, IN ANY MATTER, BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AS A RESULT OF A BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. CONSUMER'S EXCLUSIVE AND SOLE REMEDY ON ACCOUNT OF OR IN RESPECT TO THE FURNISHING OF THIS PRODUCT SHALL BE TO SECURE A REPLACEMENT OF THE PRODUCT.

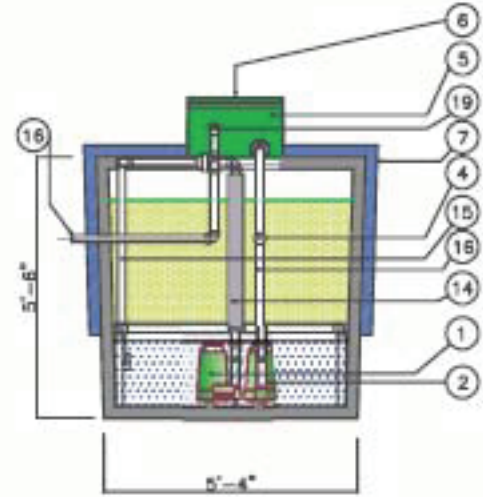
Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE: Purchaser shall assume all responsibility and expense for removal, reinstallation and freight for the product or any part or component of the product. Any item to be repaired or replaced under this warranty must be returned to Eliminite, Inc. (visit www.eliminite.com for current contact information) or such place to be designated by Eliminite, Inc. upon receipt of return authorization from Eliminite, Inc. Contact customer service at 888.406.2289 for a Return Materials Authorization (RMA) number on any product being returned for a warranty claim.

ELIMINITE MODEL 120C*

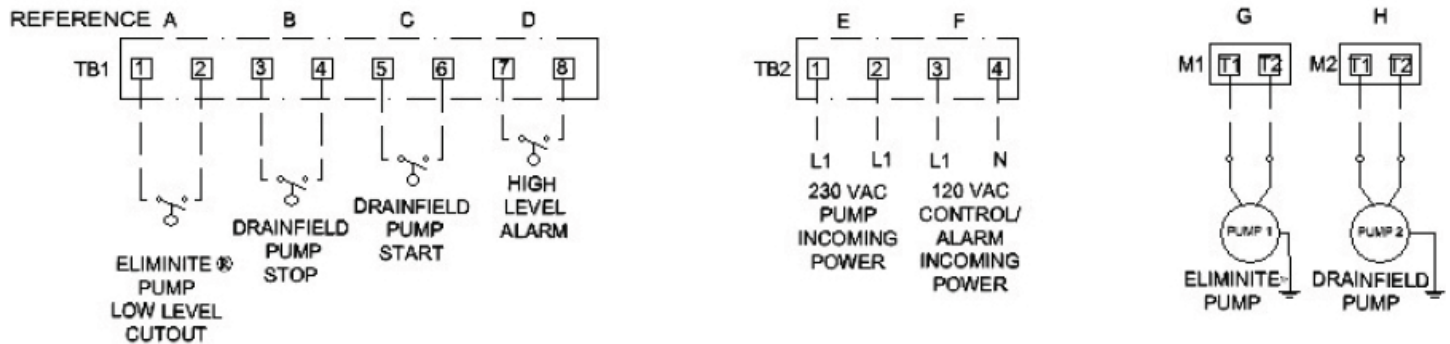


SCHEDULE OF PARTS	
NO.	DESCRIPTION
1	DISCHARGE PUMP (S)
2	RECIRCULATION PUMP (S)
3	INLET 4" DIA. SCH. 40 PVC
4	DISCHARGE 2" DIA. SCH. 40 PVC
5	POLYLOCK RISER 24" DIA
6	POLYLOCK LID W/ INSULATION
7	SUBGRADE INSULATION 2" THICK MIN
8	HIGH LEVEL ALARM FLOAT SWITCH
9	DISCHARGE PUMP ON FLOAT SWITCH
10	DISCHARGE PUMP OFF FLOAT SWITCH
11	LOW LEVEL OFF SWITCH
12	SPRAY BAR ASSEMBLY
13	SPRAY NOZZLE
14	LUNG AIR ENTRAINMENT DEVICE
15	AIR DISCHARGE LINE
16	DENITRIFICATION RETURN LINE
17	FLOAT STAND
18	UNION/ QUICK RELEASE COUPLING
19	FRESH AIR INTAKE
20	METAROCKS SUPPORT FRAME
21	ELECTRICAL JUNCTION BOX
22	SPRAY BAR SUPPORT CLAMP

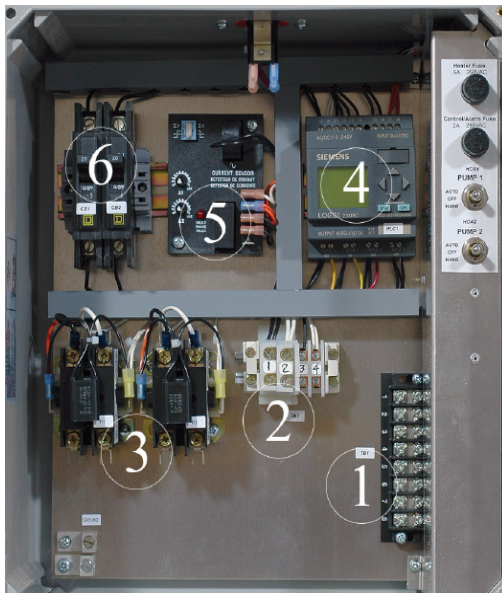


▲ entire Eliminite C-Series is similarly configured, regardless of size. To accommodate larger flows and strength waste, containment vessels are upsized, media bed is larger and deeper, passive air entrainment device is proportionately upsized, and appropriately powered pumps are utilized. Loading rates are congruous with the Eliminite system's MDEQ approved Level 2 treatment process. All Eliminite systems/models rely upon the same fundamental, underlying treatment technology that was subjected to long-term third party testing by Montana State University and Montana Department of Natural Resources and Conservation and was subsequently approved IDEQ in 2004 for residential and non-residential applications without design flow constraints.

DUPLEX CONTROL PANEL STANDARD SERIES



COMPONENT/FUNCTION	TYPE	LOCATION	CONTROL PANAL CONNECTION	REF
HIGH LELEL ALARM	FLOAT	PUMP CHAMBER	TB1 7 & 8	D
DRAINFIELD PUMP START	FLOAT	PUMP CHAMBER	TB1 5 & 6	C
DRAINFIELD PUMP STOP	FLOAT	PUMP CHAMBER	TB1 3 & 4	B
ELIMINITE®PUMP LOW LEVEL CUTOUT	FLOAT	PUMP CHAMBER	TB1 1 & 2	A
ELIMINITE®PUMP	OSP 50 PUMP	PUMP CHAMBER	M1 T1 & T2	G
DRAINFIELD PUMP	VARIES	PUMP CHAMBER	M2 T1 & T2	H
230V INCOMING	PUMP CIRCUIT		TB2 1 & 2	E
120V INCOMING CIRCUIT ALARM	CIRCUIT ALARM		TB2 3 & 4	F



1. (TB1) TERMINAL BLOCK
2. (TB2) TERMINAL BLOCK, INCOMING POWER
3. M1 & M2 PUMP MOTOR CONTRACTORS
4. SIEMENS LOGIC CONTROLLER.TIMER
5. PUMP CURRENT SENSOR
6. CIRCUIT BREAKERS