Composting Toilets
• No Septic
• No Plumbing

Canada: 5370 South Service Road, Burlington, ON L7L 5L1
USA: 600 Main Street, Tonawanda, NY 14150-0888
Tel: 905-332-1314 • 1-888-341-0782 • Fax: 905-332-1315
Email: compost@sun-mar.com

www.sun-mar.com
Protecting the environment for over 25 years

At Sun-Mar, we are proud of our history and the role our products play in protecting the environment.

- Sun-Mar toilets are the safest and most environmentally friendly method of waste treatment
- Sun-Mar composting toilets evaporate liquids and compost the solids, so on most models there is absolutely no output and no contamination of ground water
- Sun-Mar composting toilets have saved over 3.3 billion gallons of water, and counting!

WHAT IS COMPOSTING?

- Composting converts organic matter back to its essential minerals
- Aerobic microbes do this in the presence of moisture and air, by converting carbon to carbon dioxide gas, and hydrogen to water vapor
- As a result, some 95% of the starting material is evaporated
- The resulting compost is recycled back to nature

Sun-Mar units have no equal!

Sun-Mar is a world leader in composting toilet technology.

- Our unique, patented Bio-drum™ design means fast, odor-free composting
- Sun-Mar toilets are the only ones certified by NSF to NSF/ANSI Standard #41 for residential and cottage use (most regulators require NSF certification)
- Sun-Mar toilets are designed so that air is constantly being drawn in and up the vent stack providing odor-free operation
- Sun-Mar toilets are sold by a global network of thousands of dealers
- Sun-Mar’s unique 3 chamber technology means easy operation and maintenance

Finally, Composting made easy!

Sun-Mar’s range of garden composters incorporate a patented, double drum, Autoflow® design, allowing for continuous use; now there is no waiting for batches to finish.

Unique Autoflow® features:

- Continuous composting
- No waiting for batches to finish
- Pest Resistant
- Loads and turns easily
- Compost exits automatically

For more information on Sun-Mar garden composters visit www.gardencomposter.com

Why use a Sun-Mar composting toilet?

**General Benefits**

- No Plumbing
- No Water
- Odor-Free
- Inexpensive Solution

**Environmental Benefits**

- No Pollution
- Saves Water
- Recycles Nutrients
- Little or No Liquid Output
Sun-Mar toilets are easily installed anywhere!

They are an ideal solution:
• Where it is not possible or cost-effective to install a conventional toilet
• As an environmentally friendly alternative

Sun-Mar toilets are used in:
• Homes, cottages, garages, warehouses, barns, pool cabanas, cabins, mines, eco resorts, RV’s, boats and many other locations

WARRANTY
All units carry a full 5 year replacement warranty on the fibreglass tank and a comprehensive 3 year replacement warranty on all other parts

Sun-Mar is certified by NSF under this stringent standard. Testing is conducted for 6 months at a NSF recognized independent testing laboratory under a strict test protocol. To be certified the unit must operate odor-free at maximum capacity (including overload conditions) and produce clean, safe compost.

As additional verification, NSF obtains and tests additional compost samples from randomly selected units in regular field operation, and conducts interviews with the users of these units. For verification check NSF website.

There is only one performance standard for composting toilets in North America. This is National Sanitation Foundation (*) NSF/ANSI Standard #41, 2005.

Compost Quick
Cleans and accelerates the composting action of your Sun-Mar composting toilet. Compost Quick is a specially selected natural enzyme solution that also assists aerobic decomposition of waste. Compost Quick is 100% natural and non toxic.

Microbe Mix
100% natural product combining a blend of microbes and enzymes designed to start and accelerate composting in all Sun-Mar toilets.

Compost Sure (Blue)
For use with all Sun-Mar low water CENTREX systems. Compost Sure Blue’s mix enriches compost with organic carbon and also provides drainage of excess liquid ensuring compost remains aerobic and odor-free.

Compost Sure (Green)
The ideal bulking agent for your Sun-Mar waterless toilet. Compost Sure Green is specially formulated to keep compost enriched with organic carbon, moist and maintain porosity ensuring maximum aeration.

Sun-Mar Composting Accessories

Global Composting Experts

Sun-Mar accessories optimize toilet performance

Compost Sure (Green)

Compost Sure (Blue)

Microbe Mix

Compost Quick

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There is only one performance standard for composting toilets in North America. This is National Sanitation Foundation (*) NSF/ANSI Standard #41, 2005.
Operating a Sun-Mar toilet is simple. Everything you need to get started is included with the unit.

To operate the toilet simply add Sun-Mar’s bulking material and rotate the patented Bio-drum™.

Removing compost is quick and easy and is usually only done a few times per year with regular use.

Three Chamber Technology

Composting toilets compost waste, evaporate liquid, and provide safe and finished compost. Not surprisingly, the conditions needed for each task are different.

This is why Sun-Mar toilets incorporate a three chamber system that optimizes ideal conditions in each chamber.

SUN-MAR toilets compost all regular toilet paper

1. The Sun-Mar Bio-drum™ unique advantages

Sun-Mar’s Bio-drum™ has obvious advantages that offer the ideal environment for composting.

- Tumbling the Bio-drum™ optimizes mixing and aeration and allows for moisture and oxygen to be evenly distributed throughout the compost.
- The Bio-drum™ ensures there is no excess moisture by removing it automatically and sending it into the evaporating chamber.
- The Bio-drum™ is separated from direct heat in the evaporation chamber so the compost is kept moist thereby accelerating decomposition.
- The Bio-drum™ offers unmatched simplicity of operation. To mix and aerate merely turn the Bio-drum™ handle periodically.
- By providing perfect mixing, oxygenation and moisture control, the Bio-drum™ offers an ideal environment for aerobic bacteria to flourish and quickly break down organic material.

Option Kits

A/F Waterless Kit

Kit required for use with Sun-Mar waterless toilets and CENTREX 2000 and CENTREX 3000 systems. Includes a 12V fan and hardware kit.

AC/DC Kit

This kit allows an electric unit to be converted to operate in a 12 volt or non-electric mode. When converted the unit will have both a 2 inch and 4 inch vent stack. This kit can only be used with the EXCEL, CENTREX 1000, CENTREX 2000 and CENTREX 3000.
2. The Advantages of the Sun-Mar automatic evaporating system

The Sun-Mar evaporation chamber has a large evaporating surface with thermostatically controlled heat, lots of air movement and offers the ideal environment for evaporation.

• The floor of the unit below the drawer incorporates the evaporating chamber
• Electric units have a thermostatically controlled heater in a sealed compartment below the evaporating chamber
• On electric units a fan draws air into the unit to ensure odor-free operation, and to optimize evaporation
• The fan can be adjusted to optimize the mix between re-circulated and vented air for every installation
• Non-electric units rely on the vent stack to provide some evaporation from natural drafting
• Evaporation and air movement on non-electric units can be enhanced by installing a 12 Volt fan in the vent stack

3. The Advantages of the unique Sun-Mar finishing drawer

The Sun-Mar finishing drawer is an isolated chamber, into which finished compost drops automatically when the Bio-drum™ is rotated in reverse. Here the compost can be left to complete the composting and sanitation process, isolated from exposure to new waste.

• While in the drawer the compost is surrounded by a stream of drying air and gradually dries prior to removal
• Once complete the sanitized compost is quickly and easily removed by sliding out the finishing drawer
3 easy steps to determine the right model for you:

1. Self-Contained or Central units?

**Self-contained Units**
These units are installed directly in the bathroom.

**Main Features**
- Quick and easy to install
- Waterless – no plumbing required
- Electrical units can evaporate all liquids under normal conditions
- Easy to clean having a durable shiny contoured finish

**Central Units**
These units have a conventional looking toilet in the bathroom and a separate composting unit.

They are available in two styles - low water flush and A/F waterless.

**Low water style systems**
- Feature a conventional looking toilet in the bathroom
- Can be connected to multiple bathrooms

**Waterless style systems (A/F kit required)**
- Feature a conventional looking toilet in the bathroom
- No plumbing necessary

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**Electrical installation**
Electric units are fitted with a standard 115 Volt plug (230V for international). Power is supplied to the fan and heating element.

**Evaporation**
- Sun-Mar units have been engineered to automatically evaporate liquids without drying out the compost
- Sun-Mar’s advanced evaporation process uses little or no power
- Electric units incorporate a fan featuring adjustable re-circulation and stainless steel shaft for extended life

**Handling excess liquid**
Self-contained electric units (Except Mobile) and CENTREX electric waterless units will evaporate all liquids under normal operation. As a precautionary measure Sun-Mar recommends that the drains on all toilets be connected.

Collect and/or treat excess liquid in an approved facility such as a recycling bed, old septic system, holding tank or drain pit. All installations should conform to local regulations.

For more details and recommendations on recycling beds please visit our website.

**Winter Use**
For extended winter use the composting unit has to be kept above 13°C Celsius or 55°F Fahrenheit.

**Limited Winter Use**
For limited use in cold temperatures you can use the unit as a holding tank as long as there is enough space in the patented Bio-drum™.
Ultra Low Flush Toilets  (Model 510)
Using roughly one pint of water per flush, these porcelain ultra low flush toilets provide all the aesthetics of a conventional toilet while minimizing water usage. Available in white or bone colors and having a regular sized seat, several toilets can be installed to a single CENTREX unit. Where additional height is required for the toilet to gravity feed to the composting unit, a low profile Model 511 is offered.

CENTREX A/F Waterless Toilet
The A/F waterless toilet offers features similar to a conventional toilet. Available in white or bone colors and regular sized seat, this toilet is used with CENTREX 2000 or CENTREX 3000 units configured for waterless use. CENTREX A/F toilets are connected directly above a CENTREX unit.

Sun-Mar units are designed for easy installation
All Units Include:
- Vent kit
- Starting accessories including Compost Sure bulking agent
- Compost Quick enzyme for cleaning and accelerating composting and Microbe Mix bacteria
- Owner operating and care manual
- Warranty card

Installing the vent stack
All composting units require a vent stack. For details on possible vent configurations, see sample configurations illustrated at left.
Sun-Mar recommends an optional 12V fan for non electric units used in a residential setting or installed with one or more 45° angles or is in areas subject to downdraft.

2. Electric or Non-Electric?

<table>
<thead>
<tr>
<th>Electric Toilets</th>
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<td>Select these if you have a standard electricity supply. These units feature high quality fans and thermostatically controlled heaters.</td>
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3. Capacity and Color

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White Bone

Global Composting Experts

Ultra Low Flush Toilets  (Model 510)
Using roughly one pint of water per flush, these porcelain ultra low flush toilets provide all the aesthetics of a conventional toilet while minimizing water usage. Available in white or bone colors and having a regular sized seat, several toilets can be installed to a single CENTREX unit. Where additional height is required for the toilet to gravity feed to the composting unit, a low profile Model 511 is offered.

CENTREX A/F Waterless Toilet
The A/F waterless toilet offers features similar to a conventional toilet. Available in white or bone colors and regular sized seat, this toilet is used with CENTREX 2000 or CENTREX 3000 units configured for waterless use. CENTREX A/F toilets are connected directly above a CENTREX unit.

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- Vent kit
- Starting accessories including Compost Sure bulking agent
- Compost Quick enzyme for cleaning and accelerating composting and Microbe Mix bacteria
- Owner operating and care manual
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### Model Overview - Self-Contained Units

Sun-Mar’s self-contained toilets are quickly and easily installed anywhere a toilet is desired. All toilets are manufactured to the highest standards using advanced materials. The durable smooth contoured finish makes these toilets attractive and easy to clean. All units feature Sun-Mar’s patented Bio-drum™ and unique three chamber technology that provides ideal composting conditions. All self-contained toilets are waterless, require no plumbing and provide odor-free operation.

<table>
<thead>
<tr>
<th>Self-Contained Units</th>
<th>Model</th>
<th>Description</th>
<th>COMPOSING CAPACITY</th>
<th>Voltage</th>
<th>Color</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>Residential/Continuous</td>
<td>Weekend/Vacation</td>
<td></td>
</tr>
<tr>
<td>Excel</td>
<td>High Capacity Electric Unit</td>
<td>3 Adults or Family of 5</td>
<td>6 Adults or Family of 8</td>
<td>115V or 230V or AC/DC option*</td>
<td>White or Bone</td>
</tr>
<tr>
<td>Excel NE</td>
<td>High Capacity Non-Electric Unit</td>
<td>2 Adults or Family of 3</td>
<td>5 Adults or Family of 7</td>
<td>-</td>
<td>White or Bone</td>
</tr>
<tr>
<td>Compact</td>
<td>Medium Capacity Electric Unit</td>
<td>1 Adult</td>
<td>3 Adults or Family of 4</td>
<td>115V or 230V</td>
<td>White or Bone</td>
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<tr>
<td>SpaceSaver</td>
<td>Medium Capacity Electric Unit</td>
<td>1 Adult</td>
<td>3 Adults or Family of 4</td>
<td>115V or 230V</td>
<td>White or Bone</td>
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<tr>
<td>Mobile</td>
<td>Medium Capacity Electric Unit</td>
<td>1 Adult</td>
<td>3 Adults or Family of 4</td>
<td>115V or 230V or 12V</td>
<td>Bone</td>
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*Features a detachable footrest

### Model Overview - CENTREX Units

Sun-Mar central systems are ideal for those who want to have a conventional looking toilet in the bathroom with the central unit separate. Sun-Mar has three series of central units: the regular capacity CENTREX 1000, the high capacity CENTREX 2000, and the ultra high capacity CENTREX 3000.

Central units may be operated in low water or A/F waterless mode.

#### Low water style systems
- Feature a conventional looking porcelain toilet in the bathroom
- Can be connected to multiple toilets up to 15 feet from the CENTREX unit
- For use with model 510 and/or 511 ultra low flush toilets (ordered separately)

#### Waterless style for CENTREX 2000 and CENTREX 3000 systems (A/F waterless kit required)
- Feature a conventional looking toilet in the bathroom positioned above the CENTREX unit
- No plumbing necessary
- For use with Sun-Mar dry toilet (ordered separately)

For optimal operation of all CENTREX units use Compost Sure Blue for low water style systems or Compost Sure Green for waterless systems.

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<tr>
<th>Central Units</th>
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<tr>
<td>CENTREX 1000 Series</td>
<td>Regular Capacity Electric Unit</td>
<td>-</td>
<td>5 Adults or Family of 7</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water or Flush</td>
</tr>
<tr>
<td>CENTREX 2000 Series</td>
<td>High Capacity Electric Unit</td>
<td>4 Adults or Family of 6</td>
<td>7 Adults or Family of 9</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water or Flush, or A/F Waterless Option†</td>
</tr>
<tr>
<td>CENTREX 3000 Series</td>
<td>High Capacity Electric Unit</td>
<td>6 Adults or Family of 8</td>
<td>9 Adults or Family of 11</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water or Flush, or A/F Waterless Option†</td>
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*Capacity reduced by 1 person for non electric model

†Contact Sun-Mar for A/F capacity ratings

Sun-Mar Mobile is designed for use on boats and RVs. It eliminates the need for pump outs. The Mobile is engineered to accommodate motion with mounting brackets, a sealed finishing drawer and fold up footrest.

The Mobile includes an air filtration kit for odor-free deck level venting on boats.
Sun-Mar’s self-contained toilets are quickly and easily installed anywhere a toilet is desired. All toilets are manufactured to the highest standards using advanced materials. The durable smooth contoured finish makes these toilets attractive and easy to clean. All units feature Sun-Mar’s patented Bio-drum™ and unique three chamber technology that provides ideal composting conditions. All self-contained toilets are waterless, require no plumbing and provide odor-free operation.

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<tr>
<td>SpaceSaver</td>
<td>Medium Capacity Electric Unit</td>
<td>1 Adult</td>
<td>115V or 230V</td>
<td>White or Bone</td>
</tr>
<tr>
<td>Mobile</td>
<td>Medium Capacity Electric Unit</td>
<td>1 Adult</td>
<td>115V, 230V or 12V</td>
<td>Bone</td>
</tr>
</tbody>
</table>

*Features a detachable footrest

### CENTREX Units

Sun-Mar central systems are ideal for those who want to have a conventional looking toilet in the bathroom with the central unit separate. Sun-Mar has three series of central units: the regular capacity CENTREX 1000, the high capacity CENTREX 2000, and the ultra high capacity CENTREX 3000.

Central units may be operated in low water or A/F waterless mode.

#### Low water style systems
- Feature a conventional looking porcelain toilet in the bathroom
- Can be connected to multiple toilets up to 15 feet from the CENTREX unit
- For use with model 510 and/or 511 ultra low flush toilets (ordered separately)

#### Waterless style for CENTREX 2000 and CENTREX 3000 systems
- Feature a conventional looking toilet in the bathroom positioned above the CENTREX unit
- No plumbing necessary
- For use with Sun-Mar dry toilet (ordered separately)

For optimal operation of all CENTREX units use Compost Sure Blue for low water style systems or Compost Sure Green for waterless systems.

#### CENTREX Units

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>COMPOSTING CAPACITY</th>
<th>Voltage</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>CENTREX 1000 Series Regular Capacity Electric Unit</td>
<td>5 Adults or Family of 7</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water Flush</td>
<td></td>
</tr>
<tr>
<td>CENTREX 2000 Series High Capacity Electric Unit</td>
<td>7 Adults or Family of 9</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water Flush or A/F Waterless Option*</td>
<td></td>
</tr>
<tr>
<td>CENTREX 3000 Series High Capacity Electric Unit</td>
<td>9 Adults or Family of 11</td>
<td>115V or 230V or Non-Electric or AC/DC option*</td>
<td>Ultra Low Water Flush or A/F Waterless Option*</td>
<td></td>
</tr>
</tbody>
</table>

*Capacity reduced by 1 person for non electric model

For typical seasonal use, compost is extracted annually. CENTREX 3000 units also incorporate Sun-Mar’s unique Autoflow® technology that causes compost to move automatically through the Bio-drum™ and drop into a separate collection chamber.

Sun-Mar Mobile is designed for use on boats and RVs. It eliminates the need for pump outs. The Mobile is engineered to accommodate motion with mounting brackets, a sealed finishing drawer and fold up footrest. The Mobile includes an air filtration kit for odor-free deck level venting on boats.

*Kit required

*Contact Sun-Mar for A/F capacity ratings

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Ultra Low Flush Toilets (Model 510)
Using roughly one pint of water per flush, these porcelain ultra low flush toilets provide all the aesthetics of a conventional toilet while minimizing water usage. Available in white or bone colors and having a regular sized seat, several toilets can be installed to a single CENTREX unit. Where additional height is required for the toilet to gravity feed to the composting unit, a low profile Model 511 is offered.

CENTREX A/F Waterless Toilet
The A/F waterless toilet offers features similar to a conventional toilet. Available in white or bone colors and regular sized seat, this toilet is used with CENTREX 2000 or CENTREX 3000 units configured for waterless use. CENTREX A/F toilets are connected directly above a CENTREX unit.

Sun-Mar units are designed for easy installation
All Units Include:
• Vent kit
• Starting accessories including Compost Sure bulking agent
• Compost Quick enzyme for cleaning and accelerating composting and Microbe Mix bacteria
• Owner operating and care manual
• Warranty card

Installing the vent stack
All composting units require a vent stack. For details on possible vent configurations, see sample configurations illustrated at left. Sun-Mar recommends an optional 12V fan for non electric units used in a residential setting or installed with one or more 45° angles or is in areas subject to downdraft.

CENTREX System Toilet Options

2. Electric or Non-Electric?

Electric Toilets
Select these if you have a standard electricity supply. These units feature high quality fans and thermostatically controlled heaters.

Non-Electric Toilets
Select these if you have no power or are using alternative energy. These toilets feature a higher capacity ventilation stack.

Dual Voltage
Select the AC/DC Kit if you require the option of operating in a standard electric mode (115 Volt) or with only a 12 Volt 1.4 fan or with no power at all.

3. Capacity and Color

Capacity
Select a toilet based on the right capacity for your needs. Although advertised capacities can be doubled for short periods, Sun-Mar recommends selecting a toilet with the maximum number of users in mind.

Color
Choice of white or bone to match your bathroom fixtures

Global Composting Experts
3 easy steps to determine the right model for you:

1. Self-Contained or Central units?

**Self-contained Units**
These units are installed directly in the bathroom.

**Main Features**
- Quick and easy to install
- Waterless – no plumbing required
- Electrical units can evaporate all liquids under normal conditions
- Easy to clean having a durable shiny contoured finish

**Central Units**
These units have a conventional looking toilet in the bathroom and a separate composting unit.

They are available in two styles - low water flush and A/F waterless.

**Low water style systems**
- Feature a conventional looking toilet in the bathroom
- Can be connected to multiple bathrooms

**Waterless style systems (A/F kit required)**
- Feature a conventional looking toilet in the bathroom
- No plumbing necessary

**Electrical installation**
Electric units are fitted with a standard 115 Volt plug (230V for international). Power is supplied to the fan and heating element.

**Evaporation**
- Sun-Mar units have been engineered to automatically evaporate liquids without drying out the compost
- Sun-Mar’s advanced evaporation process uses little or no power
- Electric units incorporate a fan featuring adjustable re-circulation and stainless steel shaft for extended life

**Handling excess liquid**
Self-contained electric units (Except Mobile) and CENTREX electric waterless units will evaporate all liquids under normal operation. As a precautionary measure Sun-Mar recommends that the drains on all toilets be connected.

Collect and/or treat excess liquid in an approved facility such as a recycling bed, old septic system, holding tank or drain pit.

All installations should conform to local regulations.

For more details and recommendations on recycling beds please visit our website.

**Winter Use**
For extended winter use the composting unit has to be kept above 13°C Celsius or 55°F Fahrenheit.

**Limited Winter Use**
For limited use in cold temperatures you can use the unit as a holding tank as long as there is enough space in the patented Bio-drum™.

Global Composting Experts
2. The Advantages of the Sun-Mar automatic evaporating system

The Sun-Mar evaporation chamber has a large evaporating surface with thermostatically controlled heat, lots of air movement and offers the ideal environment for evaporation.

- The floor of the unit below the drawer incorporates the evaporating chamber
- Electric units have a thermostatically controlled heater in a sealed compartment below the evaporating chamber
- On electric units a fan draws air into the unit to ensure odor-free operation, and to optimize evaporation
- The fan can be adjusted to optimize the mix between re-circulated and vented air for every installation
- Non-electric units rely on the vent stack to provide some evaporation from natural drafting
- Evaporation and air movement on non-electric units can be enhanced by installing a 12 Volt fan in the vent stack

3. The Advantages of the unique Sun-Mar finishing drawer

The Sun-Mar finishing drawer is an isolated chamber, into which finished compost drops automatically when the Bio-drum™ is rotated in reverse. Here the compost can be left to complete the composting and sanitation process, isolated from exposure to new waste.

- While in the drawer the compost is surrounded by a stream of drying air and gradually dries prior to removal
- Once complete the sanitized compost is quickly and easily removed by sliding out the finishing drawer

**Specifications**

<table>
<thead>
<tr>
<th>Self-Contained Units</th>
<th>Excel</th>
<th>Excel NE</th>
<th>Compact</th>
<th>Space Saver</th>
<th>Mobile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Power use in watts (heater on 1/2 time)</td>
<td>150</td>
<td>N/A</td>
<td>125</td>
<td>110</td>
<td>80</td>
</tr>
</tbody>
</table>

**Unit Dimensions (Inches)**

| Height | 33½ | 31½ | 28½ | 30 | 30 |
| Depth  | 33   | 31½ | 33   | 23 | 23 |
| Width  | 22½  | 22½ | 21½  | 19½| 19½|

**Vent & Drains**

| Vent Pipe (2” cent. vac. tubing; 3” & 4” sewer) | 2” | 4” | 2” | 2” | 3” |
| Drains (required or optional hook-up) | 1” O.D. opt. | 1” O.D. opt. | ¾” O.D. opt. | ³/₄” O.D. opt. | ³/₄” O.D. opt. |

**Weight (LBS)**

| Product Weight-Shipping Weight | 60-85 | 47-81 | 48-72 | 43-68 | 44-72 |

**Shipping Carton Dimensions (Inches)**

| Width | 28 | 28 | 28 | 23 | 23 |
| Length | 36 | 36 | 36 | 30 | 30 |
| Height | 36 | 36 | 32 | 38 | 38 |

**Rough-In Measurements (Inches)**

| Depth required to remove drawer (Unit plus drawer) | 46 | 46 | 45 | 38 | 38 |
Operating a Sun-Mar toilet is simple. Everything you need to get started is included with the unit. To operate the toilet simply add Sun-Mar’s bulking material and rotate the patented Bio-drum™. Removing compost is quick and easy and is usually only done a few times per year with regular use.

Three Chamber Technology

Composting toilets compost waste, evaporate liquid, and provide safe and finished compost. Not surprisingly, the conditions needed for each task are different.

This is why Sun-Mar toilets incorporate a three chamber system that optimizes ideal conditions in each chamber.

**SUN-MAR toilets compost all regular toilet paper**

1. The Sun-Mar Bio-drum™ unique advantages

Sun-Mar’s Bio-drum™ has obvious advantages that offer the ideal environment for composting:

- Tumbling the Bio-drum™ optimizes mixing and aeration and allows for moisture and oxygen to be evenly distributed throughout the compost
- The Bio-drum™ ensures there is no excess moisture by removing it automatically and sending it into the evaporating chamber
- The Bio-drum™ is separated from direct heat in the evaporation chamber so the compost is kept moist thereby accelerating decomposition
- The Bio-drum™ offers unmatched simplicity of operation. To mix and aerate merely turn the Bio-drum™ handle periodically
- By providing perfect mixing, oxygenation and moisture control, the Bio-drum™ offers an ideal environment for aerobic bacteria to flourish and quickly break down organic material

<table>
<thead>
<tr>
<th>CENTRAL UNITS</th>
<th>1000</th>
<th>1000 NE</th>
<th>2000</th>
<th>2000 NE</th>
<th>3000</th>
<th>3000 NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Power use in watts (heater on ½ time)</td>
<td>150</td>
<td>N/A</td>
<td>200</td>
<td>N/A</td>
<td>200</td>
<td>N/A</td>
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<tr>
<td>UNIT DIMENSIONS (INCHES)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>28½</td>
<td>27½</td>
<td>28</td>
<td>26½</td>
<td>30½</td>
<td>29½</td>
</tr>
<tr>
<td>Depth</td>
<td>32½</td>
<td>32½</td>
<td>27</td>
<td>26½</td>
<td>27½</td>
<td>27½</td>
</tr>
<tr>
<td>Unit Width, and Width required to turn handle</td>
<td>22½ x 24½</td>
<td>22½ x 24½</td>
<td>45½ x 49</td>
<td>45½ x 49</td>
<td>71</td>
<td>71</td>
</tr>
<tr>
<td>VENT &amp; DRAINS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vent Pipe (2” cent. vac. tubing, 3” &amp; 4” sewer)</td>
<td>2”</td>
<td>4”</td>
<td>2”</td>
<td>4”</td>
<td>2”</td>
<td>4”</td>
</tr>
<tr>
<td>WEIGHT (LBS)</td>
<td>Products Weight - Shipping Weight</td>
<td>57-80</td>
<td>42-78</td>
<td>74-112</td>
<td>63-109</td>
<td>110-144</td>
</tr>
<tr>
<td>SHIPING CARTON DIMENSIONS (INCHES)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Width</td>
<td>28</td>
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<td>29</td>
<td>29</td>
<td>30</td>
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<tr>
<td>Length</td>
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<td>36</td>
<td>46</td>
<td>46</td>
<td>62</td>
<td>62</td>
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<tr>
<td>Height</td>
<td>32</td>
<td>36</td>
<td>35</td>
<td>35</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>ROUGH-IN MEASUREMENTS (INCHES)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth required to remove drawer (unit plus drawer)</td>
<td>46½</td>
<td>46½</td>
<td>45</td>
<td>45</td>
<td>45½</td>
<td>45½</td>
</tr>
</tbody>
</table>

Option Kits

**A/F Waterless Kit**

Kit required for use with Sun-Mar waterless toilets and CENTREX 2000 and CENTREX 3000 systems. Includes a 12V fan and hardware kit.

**AC/DC Kit**

This kit allows an electric unit to be converted to operate in a 12 volt or non-electric mode. When converted the unit will have both a 2 inch and 4 inch vent stack. This kit can only be used with the EXCEL, CENTREX 1000, CENTREX 2000 and CENTREX 3000.
Sun-Mar Toilets are easily installed anywhere!

They are an ideal solution:
• Where it is not possible or cost-effective to install a conventional toilet
• As an environmentally friendly alternative

Sun-Mar toilets are used in:
• Homes, cottages, garages, warehouses, barns, pool cabanas, cabins, mines, eco resorts, RV’s, boats and many other locations

WARRANTY
All units carry a full 5 year replacement warranty on the fibreglass tank and a comprehensive 3 year replacement warranty on all other parts

There is only one performance standard for composting toilets in North America. This is National Sanitation Foundation (NSF) ANSI Standard #41, 2005.

Sun-Mar is certified by NSF under this stringent standard. Testing is conducted for 6 months at a NSF recognized independent testing laboratory under a strict test protocol. To be certified the unit must operate odor-free at maximum capacity (including overload conditions) and produce clean, safe compost.

As additional verification, NSF obtains and tests additional compost samples from randomly selected units in regular field operation, and conducts interviews with the users of these units. For verification check NSF website.

Sun-Mar accessories optimize toilet performance

Compost Sure (Green)
The ideal bulking agent for your Sun-Mar waterless toilet. Compost Sure Green is specially formulated to keep compost enriched with organic carbon, moist and maintain porosity ensuring maximum aeration.

Compost Sure (Blue)
For use with all Sun-Mar low water CENTREX systems. Compost Sure Blue’s mix enriches compost with organic carbon and also provides drainage of excess liquid ensuring compost remains aerobic and odor-free.

Microbe Mix
100% natural product combining a blend of microbes and enzymes designed to start and accelerate composting in all Sun-Mar toilets.

Compost Quick
Cleans and accelerates the composting action of your Sun-Mar composting toilet. Compost Quick is a specially selected natural enzyme solution that also assists aerobic decomposition of waste. Compost Quick is 100% natural and non toxic.

Sun-Mar Composting Accessories

Global Composting Experts
Protecting the environment for over 25 years

At Sun-Mar, we are proud of our history and the role our products play in protecting the environment.

- Sun-Mar toilets are the safest and most environmentally friendly method of waste treatment
- Sun-Mar composting toilets evaporate liquids and compost the solids, so on most models there is absolutely no output and no contamination of ground water
- Sun-Mar composting toilets have saved over 3.3 billion gallons of water, and counting!

**WHAT IS COMPOSTING?**

- Composting converts organic matter back to its essential minerals
- Aerobic microbes do this in the presence of moisture and air, by converting carbon to carbon dioxide gas, and hydrogen to water vapor
- As a result, some 95% of the starting material is evaporated
- The resulting compost is recycled back to nature

Sun-Mar units have no equal!

Sun-Mar is a world leader in composting toilet technology.

- Our unique, patented Bio-drum™ design means fast, odor-free composting
- Sun-Mar toilets are the only ones certified by NSF to NSF/ANSI Standard #41 for residential and cottage use (most regulators require NSF certification)
- Sun-Mar toilets are designed so that air is constantly being drawn in and up the vent stack providing odor-free operation
- Sun-Mar toilets are sold by a global network of thousands of dealers
- Sun-Mar’s unique 3 chamber technology means easy operation and maintenance

**Why use a Sun-Mar composting toilet?**

**General Benefits**

- No Plumbing
- No Water
- Odor-Free
- Inexpensive Solution

**Environmental Benefits**

- No Pollution
- Saves Water
- Recycles Nutrients
- Little or No Liquid Output

Finally, Composting made easy!

Sun-Mar’s range of garden composters incorporate a patented, double drum, Autoflow® design, allowing for continuous use; now there is no waiting for batches to finish.

Unique Autoflow® features:

- Continuous composting
- No waiting for batches to finish
- Pest Resistant
- Loads and turns easily
- Compost exits automatically

For more information on Sun-Mar garden composters visit www.gardencomposter.com

Sun-Mar reserves the right to make product modifications or technical changes without notice. SM11