

# Sun-Mar

**TOILETS  
THAT INSTALL  
ANYWHERE**



# Sun-Mar Composting Toilets

## Protecting the environment for over 40 years

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

- Sun-Mar toilets are a safe and 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 4.1 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



# Global Composting Experts

## 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, bunkies, mines, eco resorts, RV's, boats, farms, camps and many other locations



## WARRANTY

All units carry a comprehensive warranty. Contact customer service for more information on the warranty period for different units



There is only one performance standard for composting toilets in North America. This is National Sanitation Foundation (\*) NSF/ANSI Standard #41, 2022.

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.



Electrical features are  
CSA APPROVED LR 55925-2



Certified to comply with applicable European Product Safety Standards and satisfies the provision for CE marking



AUST STANDARD AS/NZS 1546.2  
Lic #20630 SAI GLOBAL



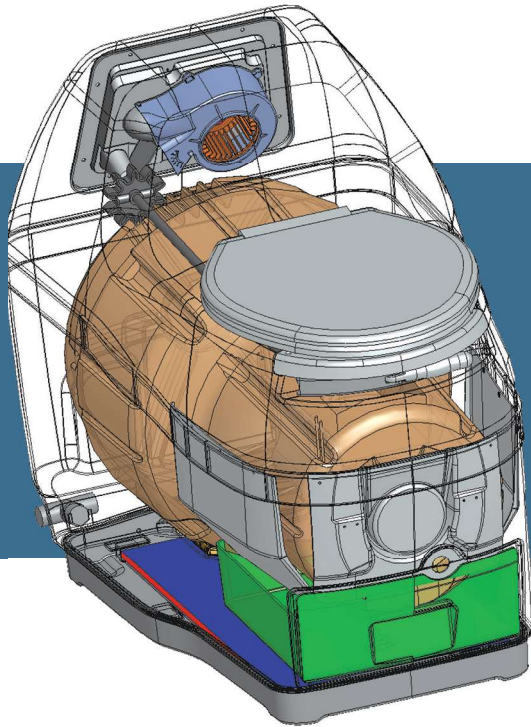
United States Coast Guard Certified

(\*) NSF International is a not for profit, non-governmental organization. It is the world leader in standards development, product certification, education, and risk management for public health and safety and for 79 years, has been committed to public health, safety, and protection of the environment

# Operating a Sun-Mar

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

Sun-Mar 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 allowing it to drain 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





## 2. The Advantages of the Sun-Mar automatic evaporating system

The Sun-Mar evaporation chamber has a large evaporating surface and significant air movement which offers the ideal environment for evaporation.



- The floor of the unit below the drawer incorporates the evaporating chamber
- Electric units have a thermostatically controlled heating element 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 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 easily removed by sliding out the finishing drawer





# Which Model is Right for Me?

## 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 (excluding Spacesaver model).
- 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
- Elongated seat





## 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 heating elements.

### Non-Electric Toilets

Select these if you have no power or are using alternative energy, such as a solar array. These toilets feature a higher capacity ventilation stack.

### Dual Voltage

The AC/DC Kit can be installed on many electric units (excluding Spacesaver and Compact) if you require the option of operating in a standard electric mode, with only a 12 Volt fan or with no power at all.

## 3. Capacity and Color

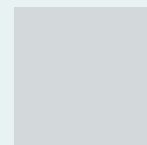
### Capacity

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

Available in white\* to match your bathroom fixtures



White

\* Compact available in white or bone

# 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.

Self-Contained Units	Description	Color	COMPOSTING CAPACITY		NSF Certified NSF/ANSI 41
			Residential/ Continuous	Weekend/ Vacation	



Excel

High Capacity  
Electric

White

3 Adults or  
Family of 5

6 Adults or  
Family of 8



- Features a detachable footrest



Excel NE

High Capacity  
Non-Electric

White

2 Adults or  
Family of 3

5 Adults or  
Family of 7



- Features a detachable footrest



Compact

Medium Capacity  
Electric

White

1 Adult

3 Adults or  
Family of 4



SpaceSaver

Medium Capacity  
Electric

White

1 Adult

3 Adults or  
Family of 4



- Features a detachable footrest



GTG

Self-Contained  
Diverting Unit

White

Unlimited

Unlimited

Sun-Mar's GTG is a simple and elegant solution for small spaces, or where a conventional toilet is not an option.





# Global Composting Experts

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.

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

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 AM STYLE II or 510 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 with low water style systems use Compost Sure Blue.

Central Units	Description	Flush Toilet/ Waterless	COMPOSTING CAPACITY		NSF Certified NSF/ANSI 41
			Residential/ Continuous	Weekend/ Vacation	

### CENTREX 1000 Series



Regular Capacity  
Electric

Ultra Low  
Water Flush

5 Adults or  
Family of 7



- Capacity reduced by 1 person for non electric model

### CENTREX 2000 Series



High Capacity  
Electric

Ultra Low Water  
Flush, or A/F  
Waterless Option\*†

4 Adults or  
Family of 6

7 Adults or  
Family of 9



- Capacity reduced by 1 person for non electric model

### CENTREX 3000 Series



High Capacity  
Electric

Ultra Low Water  
Flush, or A/F  
Waterless Option\*†

6 Adults or  
Family of 8

9 Adults or  
Family of 11



- Capacity reduced by 1 person for non electric model
- Incorporates Autoflow® technology (automatic discharge of compost to a separate collection chamber)

\*Kit required

†Contact Sun-Mar for A/F capacity ratings



# CENTREX System Toilet Options

## Ultra Low Flush Toilets (Model 510 and AM STYLE II)

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 and having a regular sized seat, several toilets can be installed to a single CENTREX unit.



## CENTREX A/F Waterless Toilet

The A/F waterless toilet offers features similar to a conventional toilet. This toilet is available in white with an elongated seat, is ADA\* compliant and is used with CENTREX 2000 or CENTREX 3000 units configured for waterless use. The CENTREX A/F toilet would be connected directly above a CENTREX unit.

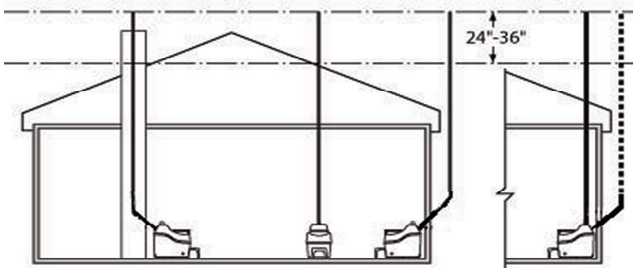


\* Americans with Disabilities Act

## 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
- Microbe Mix bacteria
- Owner operating and care manual



## Installing the vent stack

All composting units require a vent stack. For details on possible vent configurations, see sample configurations illustrated at left or call customer service.

Sun-Mar recommends an optional 12 volt fan for non-electric units being used in a residential setting, installed with one or more 45° angles, or is in areas subject to downdraft.



## 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

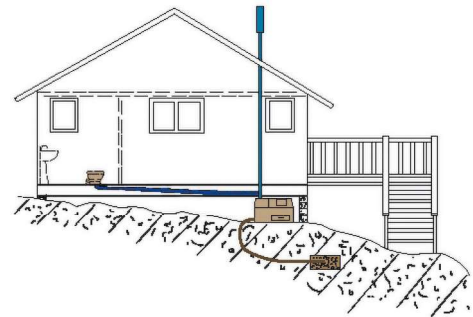
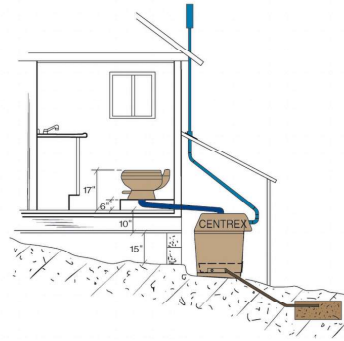
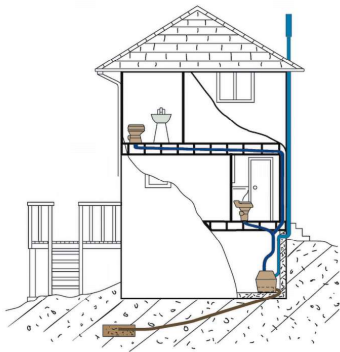
- Sun-Mar units have been engineered to evaporate liquids without drying out the compost
- Sun-Mar's advanced evaporation process uses little or no power
- Electric units incorporate a fan and a heating element

## Handling excess liquid

Self-contained electric units (excluding the Spacesaver model) and CENTREX electric units (with A/F waterless toilet) will evaporate most liquid under normal use. 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 dry well.

All installations should conform to local regulations.



For more details and recommendations on recycling beds please contact customer service

## Winter Use

For extended winter use the composting unit has to be kept above 13° Celsius or 55° 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™.



# Specifications

SELF-CONTAINED UNITS	Excel	Excel NE	Compact	Space Saver	GTG
Average Power use in watts (heater on 1/2 time)	150	N/A	125	110	N/A
<b>UNIT DIMENSIONS (INCHES)</b>					
Height	33¼	31½	28½	30	20
Depth	33	33	33	23	24
Width	22½	22½	21½	19½	15 ¾
<b>VENT &amp; DRAINS (INCHES)</b>					
Vent Pipe	2"	4"	2"	2"	1.5"
Drains (required or optional hook-up)	Opt.	Req.	Opt.	Req.	N/A.
<b>WEIGHT (LBS)</b>					
Product Weight/Shipping Weight	60/85	47/81	48/72	43/68	25/33
<b>SHIPPING CARTON DIMENSIONS (INCHES)</b>					
Width	28	28	28	23	17
Length	36	36	36	30	25
Height	36	36	32	38	21
<b>ROUGH-IN MEASUREMENTS (INCHES)</b>					
Depth required to remove drawer (Unit plus drawer)	46	46	45	38	N/A





CENTRAL UNITS	1000	1000 NE	2000	2000 NE	3000	3000 NE
Average Power use in watts (heater on ½ time)	150	N/A	200	N/A	200	N/A
<b>UNIT DIMENSIONS (INCHES)</b>						
Height	28½	27½	28	26½	30¼	29¼
Depth	32½	32½	27	26½	27½	27½
Unit Width/ Width required to turn handle	22½/24½	22½/24½	45½/49	45½/49	71	71
<b>VENT &amp; DRAINS (INCHES)</b>						
Vent Pipe	2"	4"	2"	4"	2"	4"
1" Drains (required)	Req.	Req.	Req.	Req.	Req.	Req.
<b>WEIGHT (LBS)</b>						
Product Weight / Shipping Weight	57/80	42/75	74/112	63/109	110/144	95/135
<b>SHIPPING CARTON DIMENSIONS (INCHES)</b>						
Length	36	36	46	46	62	62
Height	33	36	35	35	34	34
<b>ROUGH-IN MEASUREMENTS (INCHES)</b>						
Depth required to remove drawer (unit plus drawer)	46¼	46¼	45	45	45½	45½

## Option Kits

### A/F Waterless Kit

Kit required for use with Sun-Mar waterless toilets and CENTREX 2000 and CENTREX 3000 systems.

### 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 Composting Accessories

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.



## Compost Magic

100% natural bulking material made from dried and compressed coconut fiber. For use with GTG toilets and any garden composter.



## GTG TOILET

Innovative bold design, quality manufacturing and sleek European styling for a modern look in any bathroom

- Goes anywhere so you can 2
- Installs in minutes
- Economical
- Two chambers that separate solid and liquid waste
- Composting toilet
- Ultra compact size is perfect for use in small spaces

- The simple and elegant toilet solution for small spaces
- Designed to provide a low maintenance solution for any toilet requirement
- For use where a conventional toilet is not an option or not cost effective
- Elongated seat for extra comfort

- ✓ Unlimited capacity
- ✓ Easy to use
- ✓ Portable
- ✓ Vented for odor free operation - 12V dc fan 0.6W (110V, 240V)
- ✓ Urine diverting

- Tiny Homes, Cottages and Cabins, RV's, Boats, Farms, Basements, Warehouses, Greenhouses, Garages, Barns, Stables, Trailers, Mines, Aircraft Hangars, Yurts, Pools, Sheds...and more.

Height: 19.8" Width: 15.75" Depth: 24" Weight: 25 lbs Seat Height: 18"

# THE ENVIRONMENTAL CHOICE

- NO PLUMBING
- NO SEPTIC
- EASY INSTALL

## Sun-Mar

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