



Sun-Mar Self Contained Composting Toilets

Self-contained units are installed directly in the bathroom. They are available in both electric and non-electric versions. Electric units plug into a regular three (3) pin outlet to power a fan and a thermostatically controlled heating element in the base of the unit. The unit is normally unplugged if it is not going to be used for a few days.

Composting capacity varies with the size of the Bio-drum™. Electric units normally have more capacity than non-electric units because they have extra warmth and air movement. Although advertised composting capacities can be doubled for short periods, SUN-MAR has found that wherever possible it is always better to have a good margin of safety. So, pick a unit with more capacity than you really need.

The most important advantages of self-contained units are:

- Being waterless, they need no plumbing or water connection. This means they are quick and easy to install since the only task is to assemble the vent stack which comes with the unit.
- They are more economical than central units because there is no separate toilet.
- They are more suited to winter operations than central units, because it is often easier to keep the bathroom warm.
- Most units evaporate all liquids in seasonal operation.
- Cleaning is simple. All self-contained units have a bowl liner beneath the seat, which can be removed for cleaning whenever necessary.
- The high quality, high gloss fibreglass finish is perfect for indoor installations.

Excel

Long considered the standard in composting toilet performance, the EXCEL is the preferred self-contained electric model for heavy or residential use. Composting speed and capacity on this model is outstanding! The large Bio-drum™ designed into the EXCEL gives it twice the capacity of the COMPACT.

The EXCEL was first introduced in 1977, and has been continuously improved ever since. The current model is the fourth generation EXCEL.

The EXCEL has been successfully tested by the National Sanitation Foundation for six months continuously at its maximum residential capacity of 4 adults. Key criteria were that the unit operated odourlessly, and produced clean dry compost. The EXCEL is presently the only self contained unit in the world to have been tested, certified, and listed by NSF. The 2" vent is attached at the top rear of the unit and can be installed invisibly by running it through the wall and up the outside wall. For comfort the EXCEL has a detachable footrest which can be removed to pull out the finishing drawer.

Although the EXCEL can normally evaporate all liquids, a ½" I.D. emergency drain is fitted at the rear and this should be connected if heavy or residential use, or prolonged power outages are expected.

Composting Capacity: Residential & Continuous 3/5, Weekend & Vacation 6/8

Compact

The COMPACT is an elegant low profile unit with the looks to complement any bathroom. SUN-MAR engineers designed this low profile toilet by developing and patenting a new at the front and large at the rear. To maintain the uninterrupted lines of the COMPACT, a patented variable diameter Bio-drum™ which is small Bio-drum™ handle, recesses into the body of the unit to mix and aerate the compost.

The COMPACT differs from the EXCEL in that all three chambers are smaller, which makes the COMPACT ideally suited to light residential or light to medium cottage use.

As with the EXCEL, a 2" vent stack attaches to the rear of the COMPACT and can be installed invisibly. A ½" I.D. emergency drain at the rear should be connected, and offers protection against heavy or residential use, or prolonged power outage.

Composting Capacity: Residential & Continuous 1, Weekend & Vacation 3/4



RAINBOW POWER COMPANY LTD

A.B.N. 74 003 323 420

1 Alternative Way, Nimbin, NSW, Australia 2480

phone: (02) 6689 1430

international: phone: +61 2 6689 1088

e-mail: sales@rpc.com.au

fax: (02) 6689 1109

international: fax: +61 2 6689 1109

web site: www.rpc.com.au

EXCEL NE (Non-electric)

The success of the EXCEL design meant that a three chamber unit could be specifically designed for those with no continuous 240 Volt supply. First launched in 1981, the EXCEL NE has long been the standard toilet for those living off the grid. The EXCEL NE has no fan or heater. Odourless operation is achieved by a 4" vent mounted at the top rear of the unit which acts like a chimney on a wood stove. For good air movement the vent should be as close to vertical as possible. If the EXCEL NE is used residentially or heavily, or is in a place which is subject to downdraft, an optional 12 Volt fan should be installed in the vent stack. This fan draws 1.4 Watts and can be powered by a solar panel and/or 12 Volt battery. The 1" drains at the rear should be connected. Like the EXCEL, all components have been continuously redesigned and improved over the years.

Composting Capacity: Residential & Continuous 2/3, Weekend & Vacation 5/7

EXCEL AC/DC

The EXCEL AC/DC is a standard 240 Volt EXCEL unit, but with 1" safety drains and dual (2" & 4") vent stacks. The unit uses the regular 2" vent when 240 Volt power is available and defaults to the 4" NE vent when it is not. A 12 Volt 1.4 Watt fan is included with the unit for use in the 4" vent stack.

The EXCEL AC/DC is for those with generators operating over 8 hours per day, or for people that expect to have continuous 240 Volt power available in the future.

Space Saver is a standard three chamber unit designed specifically for situations where space is extremely limited. With a width of only 19" and depth of 22", even a closet or small corner can now be turned into a bathroom!

The Space Saver is fitted with the same kind of high quality turbo fan as other electric units have. The difference is that on the Space Saver, a 3" vent stack is included.

SPACE SAVER

The Space Saver has almost the same sized Bio-drum™ as the COMPACT, so composting capacity is similar to that of the COMPACT. On the other hand, evaporation is limited by the smaller heater and evaporating surface, so the safety drains should be connected.

Composting Capacity: Residential & Continuous 1, Weekend & Vacation 3/4

ECOLET® MOBILE TOILETS (Dual Voltage)

The US Coast Guard certified ECOLET MOBILE was first conceived as a mobile unit for use in boats and RV's. It was designed so that it is only slightly wider and longer than a regular sized toilet seat, so it will fit almost anywhere. This means that for the first time people can go where they want without having to worry about "pump outs". Now travellers can recycle their own waste without polluting the waters.

ECOLET MOBILE toilets are produced either with a sloped back (known as "Hull Shape") or in the standard straight back version. This rear profile is the only difference between the two units. Both are marinized to accommodate violent motion, with mounting brackets, a finishing drawer that is gasketed in, air intakes that ensure no liquid can escape, and a composting drum that is locked at all times. A fold up footrest minimizes the space required, and can be easily removed to access the finishing drawer.

The 12 Volt 4.0 Watt fan is incorporated in an external fan box which is mounted in the 3" vent stack, so it is easily accessible for service. This fan is on a separate circuit and should be on when the unit is in operation. If the vent exits at deck level, it may be necessary to "polish" the vented air by passing it through some filter material in the fan box.

If and when power is available the ECOLET MOBILE has a 240 Volt 120 Watt heating element in the heater base to improve evaporation. (A second 12 volt 120 Watt heater is also available as an option). Mobile units have a 1" drain, and this should be hooked up so that any liquid which is not evaporated may be drained periodically into a holding tank, small removable container, or other approved facility. An EXCEL Mobile is also available where a higher capacity is needed.

Composting Capacity: Residential & Continuous 1, Weekend & Vacation 3/4



RAINBOW POWER COMPANY LTD

A.B.N. 74 003 323 420

1 Alternative Way, Nimbin, NSW, Australia 2480

phone: (02) 6689 1430

international: phone: +61 2 6689 1088

e-mail: sales@rpc.com.au

fax: (02) 6689 1109

international: fax: +61 2 6689 1109

web site: www.rpc.com.au