



GROW
MACHINES

2026

NFT HOME GROWER SYSTEM



Grow fresh vegetables, herbs and seedlings without having to dig or prepare a traditional vegetable garden.

A SIMPLE AND VERSATILE
HYDROPONIC SYSTEM FOR
GROWING FRESH
VEGETABLES, HERBS AND
SEEDLINGS AT HOME

**START SMALL.
LEARN AS YOU
GROW. EXPAND
WHEN YOU ARE
READY.**





WHAT IS THE NFT HOME GROWER SYSTEM? 01

AN EASIER WAY TO GROW YOUR OWN FRESH PRODUCE



The NFT Home Grower System is a hydroponic garden where plants are grown using water and plant nutrients instead of ordinary garden soil.

The system combines:

- growing channels for vegetables, herbs and strawberries; and
- an Ebb & Flow section for seedlings, crates and crops that require a deeper growing medium.

Water flows from the central tank to the plants and then returns to the tank to be reused.

The system is ideal for people who:

- want to start experimenting with hydroponics;
- want to grow fresh vegetables and herbs at home;
- prefer a neat garden that requires less physical effort;
- do not want to pull weeds or dig the soil;
- have limited gardening space;
- or would like to expand to a larger or commercial system later.

You do not need to be an experienced gardener or agricultural specialist to get started.





HOW DOES THE SYSTEM WORK? 02

The system delivers water and nutrients to the plants

1. The tank is prepared

Water and suitable hydroponic plant nutrients are added to the central tank.

2. Nutrient-rich water is pumped to the plants

NFT stands for Nutrient Film Technique. A small pump sends a thin, continuous layer of nutrient-rich water through the growing channels, where it flows directly past the plant roots and makes water and nutrients available to the plants.

3. The water flows back

The water returns to the tank and is circulated through the system again.

4. The Ebb & Flow section operates at set times

A separate pump fills the section, after which the water drains back into the tank. You still need to check the water, pumps and plants regularly, but you do not have to water every plant individually by hand.

**ALSO KNOW AS
THE PEACE
GARDEN!!**

LESS WATER. NO WEEDS. EFFICIENT USE OF PLANT NUTRIENTS.

Water and nutrients are recirculated through the system and only topped up when necessary. Grow fresh produce with less waste and easier management.

WHAT CAN YOU GROW?

03



Grow the produce you and your family enjoys.

The NFT Home Grower System allows you to grow a variety of vegetables, herbs and fruiting crops in the same system according to your family's needs. The system is user-friendly and does not need to be monitored all day. It should, however, be checked every few days to ensure that the water and nutrient levels are correct and to harvest produce when it is ready.

In the NFT growing channels

The growing channels are well suited to: various types of lettuce; spinach and Swiss chard; strawberries; baby cabbages and other smaller cabbage crops; broccoli and cauliflower; cucumbers; tomatoes; parsley; basil; mint; coriander; spring onions; other culinary herbs; leafy vegetables; various flowering plants; and many other crops.



In the Ebb & Flow crate system

The built-in Ebb & Flow section can be used with crates and a suitable growing medium, such as vermiculite or a vermiculite-and-perlite mixture.

It is suitable for crops such as:

beetroot; onions; carrots; radishes; potatoes; and other root and tuber crops.



Experiment, learn and discover what works for you

Begin with crops that you use regularly and test new options on a smaller scale. With the correct spacing, nutrition and management, you can successfully grow a variety of fresh produce in the same system.





GROWING CHANNELS AND PLANT SPACING

04

Adapt the system to suit your favourite crops

Each standard module has:

- eight growing channels;
- each channel is approximately 5 m long; and
- standard spacing for approximately 20 plants per growing channel.

With standard spacing, each module provides approximately 160 planting positions. The final number will vary according to the crop and selected spacing.

Not all plants require the same amount of space. Herbs and smaller leafy vegetables can be planted closer together, while cabbage crops, tomatoes and cucumbers require more room.

Grow Machines can adapt the planting holes and spacing according to your crop selection. You can therefore choose a mixed set of growing channels for crops such as:

- herbs;
- lettuce;
- larger vegetables; and
- vining crops.

Ebb & Flow for seedlings

The built-in flood-and-drain, or Ebb & Flow, section can be used to raise seedlings before they are transplanted into the growing channels.

The nutrient-rich water flows from the same tank through the Ebb & Flow section and then drains back into the tank, allowing the entire system to operate as one closed loop.



One system. More possibilities. Fresh results.



AN EASIER VEGETABLE GARDEN 05

Less digging and no weeds between your plants.

With the NFT Home Grower System, you do not need to:

- dig or prepare the soil;
- create traditional planting beds;
- remove grass and weeds from between the plants; or
- water every plant individually.

The growing channels are raised above ground level, making the plants easier to see and reach. The design also makes planting seedlings and harvesting produce more convenient.



The system is a practical option for:

- beginners in hydroponics;
- older users;
- people with limited space;
- families who want to garden together; and
- anyone who prefers a neat and easier-to-manage vegetable garden.
- anyone considering a larger or commercial system in future..

The system reduces much of the work associated with a traditional garden, but the plants still need to be checked and cared for regularly.





06

DESIGNED FOR LONG-TERM USE

Strong, simple and built to grow with you

The NFT Home Grower System is designed to be durable, practical and easy to manage, maintain and expand.

The system consists of:

- a purpose-designed central tank;
- rust-resistant aluminium frames;
- strong growing channels;
- simple, reliable pumps; and
- easy-to-understand control components.

The first system was supplied to a customer in 2011 and was still in good working condition in 2026.

This long period of practical use reflects the value of a strong core design and components that can be serviced or replaced when necessary.

Simplicity makes management easier

Every part of the system is intentionally designed to be easy to:

- understand;
- clean;
- inspect regularly;
- maintain; and
- expand in future.



A practical system for today, with room to grow tomorrow.



A SYSTEM THAT CAN GROW WITH YOU

07

Begin with the size that suits you

NFT Home Grower – Single

The Single system includes:

- one central tank;
- one Ebb & Flow section; and
- one module with eight growing channels.

It is a good starting point for household use and for anyone who would like to learn about hydroponics.



NFT Home Grower – Double

The Double uses the same central tank but has one module on each side.

It provides more planting space and allows you to grow a wider variety of crops.



Larger modular systems

Additional modules can be added later for:

- a larger household garden;
- a small home-based business;
- restaurant or guesthouse production;
- training; or
- crop and market trials.

Grow Machines aims to reuse existing components wherever practical during expansion. Some upgrades may, however, require changes to the pumps, pipes or system layout.





INSTALLATION, SUPPORT AND BACKUP POWER

We help you start correctly and continue growing with confidence

The NFT Home Grower System is designed to be relatively easy to install and manage. Many Single and Double systems can be assembled by the customer, provided this is planned in advance.

Grow Machines can provide telephone and video support with:

- the system layout and site preparation;
- connecting the pumps and pipes;
- setting the timer;
- starting the system for the first time; and
- the basic management of water, nutrients, pH and EC.

Professional installation and commissioning can also be included in the quotation at an additional cost.

What you need to prepare

The customer must provide:

- a firm and reasonably level site;
- a suitable water point; and
- a safe 230 V power point with earth-leakage protection.

Permanent electrical work must be completed by a qualified electrician. Groundwork, concrete work, permanent electrical wiring and the construction of a tunnel or other protected structure are not included in the standard installation unless quoted beforehand.

***From the first start-up
to your first harvest—
Grow Machines helps
you begin with
confidence.***

Reliable electricity and backup power

The system's pumps move nutrient-rich water to the plants. Long power interruptions can stop the water flow and may damage the roots, particularly during hot weather. Depending on the system size, Grow Machines can assist with:

- a basic battery-and-inverter solution; or
- a simple solar power system.

After installation, we help you understand the system's operation, water management, pumps, flow and cleaning requirements. The customer remains responsible for the regular care of the plants and the regular inspection of the system.



LET US DETERMINE WHAT YOU NEED

09

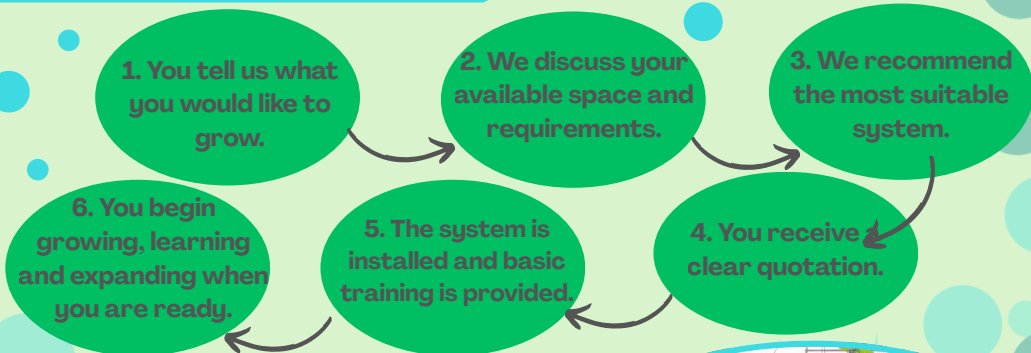
Tell us what you would like to grow.

To help us determine the most suitable NFT Home Grower System for you, we would like to know:

- Where will the system be installed?
- How much space do you have available?
- Which vegetables and herbs would you like to grow?
- Do you only want to produce for your household, or would you like to sell produce later?
- Do you have access to water and safe electricity?
- Do you require backup power?
- Would you like to start with a Single or Double system?
- Would you like to expand later?
- Do you require a protective roof and shade-net enclosure?
- Would you like to install the system yourself, or would you prefer Grow Machines to assist?
- A protected structure is not always required for an NFT Home Grower System, but may be recommended for future expansion.



How the process works



You do not need to be an experienced gardener to get started

With the correct guidance and regular attention, the NFT Home Grower System can provide a practical and enjoyable way to grow fresh produce at home.





CONTACT DETAILS



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SCAN HERE



SCAN HERE

**START SMALL. GROW SMART.
HARVEST FRESH.**

*Tell us what you would like to
grow and how much space you
have—we will help you select
the right NFT Home Grower
System.*



**GROW
MACHINES**