

BREEDING & MICROPROPAGATION

# Cultivation consumables

A person wearing a white lab coat, a blue hairnet, and a face mask is standing in a controlled growing system. The system consists of multiple shelves filled with small, pinkish-red plants. The lighting is a vibrant pink, creating a controlled environment. The person is reaching towards one of the shelves. The system is housed in a metal cabinet with a control panel on the side. The overall scene is a clean, professional laboratory or greenhouse setting.

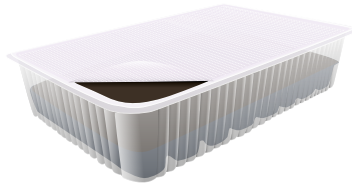
**Fully controlled**  
growing system

# Rooting & hardening

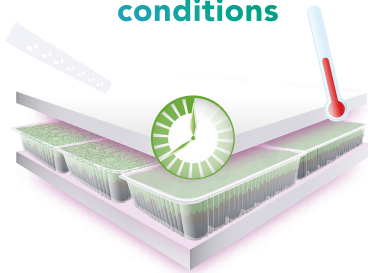
Fill it



Seal it



Optimum growing  
conditions



Great starting material



Viscon Plant Technology (VPT) produces excellent consumables which can be used for somatic embryos, multiplication and rooting of TC (tissue culture) plants, cuttings and young plants from seed. All products are produced from Polypropylene, which is highly suitable for TC. All our products can be provided Gamma irradiated.

## Growing method

Our growing method has captured most of its technology in the innovative semi-closed packaging in which the plants are grown: one tray sized. Our products are the greenhouses of the future: small, fully controlled greenhouses.

We offer a revolutionary method to root and harden all kind of plants. Reliable, local and in a sustainable way by reducing the risks associated with growing young plants in a conventional greenhouse. With our growing system, the future is here. A fully controlled growing system in which all focus can go out to selecting the best starting material and growing protocol.

## MULTIPLICATION CUPS

# ViCup

VPT offers quality growth containers for the first phases in TC that match your specific crop varieties, such as blueberries, raspberries, medicinal crops, sugar cane, banana and tobacco. The multiplication cup (known as the ViCup) ensures excellent sealing to protect young crops in their most critical growth stage and create optimal conditions for multiplication and rooting of plant material.

VPT can provide you with multiplication cups which vary in size and permeability. All provided materials are delivered in convenient packagings for optimal set-up. They are also suitable for automation purposes.

### Our expertise

- ✓ Guaranteed clean production
- ✓ Matches the crop and growing chamber in demensioning
- ✓ Attractive cost price



MULTIPLICATION CUPS

# ViCup round & rectangular

VPT offers multiplication cups which vary in size and permeability. The ViCup Round and the ViCup Rectangular are known for their easy automation capabilities. VPT provides the multiplication cups and accompanying lids in a number of different height and diameters.



**ViCup Round PP H87**

Ø110 0900 - 0014



**ViLid Round PP**

Ø110 0900 - 0015



**ViCup Round H75 S**

Ø95 0900 - 0001



**ViCup Round H100 S**

Ø95 0900 - 0002



**ViCup Round H122 S**

Ø95 0900 - 0003



**ViLid Round**

Ø95 0900 - 0004



**ViCup Rectangular**

L108 W82 H64 | 0900 - 0006



**ViCup Rectangular**

L108 W82 H96 | 0900 - 0007



**ViLid Rectangular**

L108 W82 | 0900 - 0011

## MULTIPLICATION CUPS

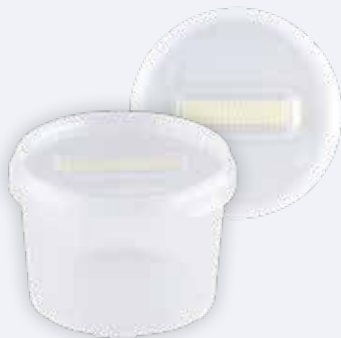
# ViCup with filter lid

Aside from our range of round and rectangular ViCups, VPT also provides ViCups with filter. ViCups with filter are recommended for plants which require more gas exchange. These cups are recommended for the growth of plants which tend to vitrify, or plants which are sensitive to ethylene build-up. Examples include orchids and anthurium.

VPT provides different types of ViCups with lids that contain filters. Each filter has its own level of gas exchange, which is required for a specific growing protocol of each plant type.

### Main advantages

- ✓ Adjustable gas exchange based on filter type
- ✓ Minimal danger of infection
- ✓ Transparent materials
- ✓ Temperature resistant



**ViCup 80 Filter XL**

0900 - 0018



**ViCup 80 Filter XXL**

0900 - 0019



**ViCup 80 Filter XXL + Filter**

0900 - 0020



## ROOTING & HARDENING TRAYS

# ViTray

The ViTray is the greenhouse of the future. The ViTray consist of 4 key elements which are the insert tray, substrate, outer box, and foil. This patented box enables rooting and hardening in the same tray. Which can be shipped to the greenhouse or to your customer in the packaging itself.

### Foil options

- ✓ Matches with all insert trays, substrate & outer box options
- ✓ Laser perforated 7 / 15 / 36 / 64 rows foil
- ✓ Full perforated hot needle foil



### Outer box options

- ✓ Matches with all insert trays and substrate options



# Insert Tray

## Flexible Options

- ✓ All insert trays are also available for purchase without substrate or rockwool.
- ✓ Non-sterile and 5 kGy options available.

The insert tray is available in a 24, 48 and 126 insert version and is universally applicable in 6 cm, 9 cm and 12 cm outer boxes. Different plugs can be used such as Preforma, Obturo and rockwool. Depending on the application and the plugs, they can be gamma irradiated or pasteurized.



**Insert Tray 24**

Obturo/ Height: 2cm  
Preforma Width: 3,1cm

Rockwool Width: 3,1cm bottom  
Width: 3,6cm top  
Height: 3,7cm



**Insert Tray 48**

Obturo/ Height: 2cm  
Preforma Width: 2cm

Rockwool Height: 2,6cm  
ø2cm



**Insert Tray 126**

Obturo Height: 2cm  
Width: 1,4cm

Preforma Height: 2cm  
Width: 1,4



**Outer box 12cm**



**Outer box 9cm**



**Outer box 6cm**

## ROOTING & HARDENING TRAYS

# Substrate

VPT provides clean substrate trays which are delivered in sealed containers or sleeves. After removing the transport container the plugs are saturated in the right nutrient solution and placed in one of the available outer boxes. After inoculation or sowing of planting material, the outer box will be sealed with a suitable foil type and placed in the growth chamber or your ViCabin. At the final stage of the growing process, the ViPlug will gradually dehydrate from top to bottom, which optimizes rooting stimulation.

Through multi-layer cultivation, the process of plant hardening will develop gradually. This results in firmly rooted plants.



### Rockwool

Rockwool 5kGy 24, 48  
Rockwool 10 kGy 24, 48



### Obturo

Obturo 04 24, 48, 126  
Obturo 08 24, 48, 126



### Preforma

Preforma JIF06 48, 126  
Preforma VECO1 48, 126  
Preforma VECO3 48, 126

## ROOTING & HARDENING TRAYS

# Outer box



The insert tray is available in three different versions: a 24, 48 and 126 insert version. These trays are universally applicable to outer boxes of 6 cm (2,4 inch) as 9 cm (3,6 inch) as 12 cm (4,8 inch).

The outer box can be filled with sterile water or a nutrient solution depending on the plants needs.



### Outer box 6cm

0901 - 0800	Non-sterile
0901 - 0805	5 kGy
0901 - 0810	10 kGy



### Outer box 9cm

0901 - 0900	Non-sterile
0901 - 0905	5 kGy
0901 - 0910	10 kGy



### Outer box 12cm

0901 - 1000	Non-sterile
0901 - 1005	5 kGy
0901 - 1010	10 kGy

## ROOTING & HARDENING TRAYS

# ViFoil

The ViFoil is a semi permeable barrier which regulates the gas exchange between the ViTray and the climate in the growth chamber. The micro openings in the ViFoil are laser perforated and regulate water evaporation and gas exchange to stimulate leaf and root growth. Due to the very small hole size and the constant distribution over the surface this regulation is very precise. Clean growth of plants is possible thanks to this.

VPT can provide closed foil, laser perforated foil and (hot needle) fully perforated foil. In general plant activity increases by choice of larger number of foil openings.

This evaporation will be extra activated due to a low relative humidity in the growth chamber, supplement of carbon dioxide in the growth chamber stimulates growth enormously.

VPT recommends you to use our patented double layered foil technique to harden your plants gradually in the ViTray. The ViFoil will be delivered gamma irradiated and can be sealed with the ViTable Sealer.



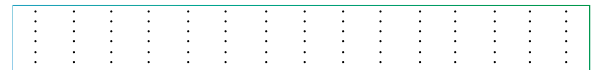
### Closed foil

Article No: 0908 - 0800



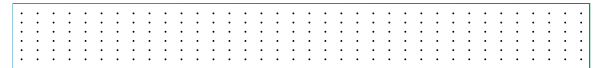
### Laser perforated 7-rows

Article No: 0908 - 0802



### Laser perforated 15-rows

Article No: 0908 - 0803



### Laser perforated 36-rows

Article No: 0908 - 0804



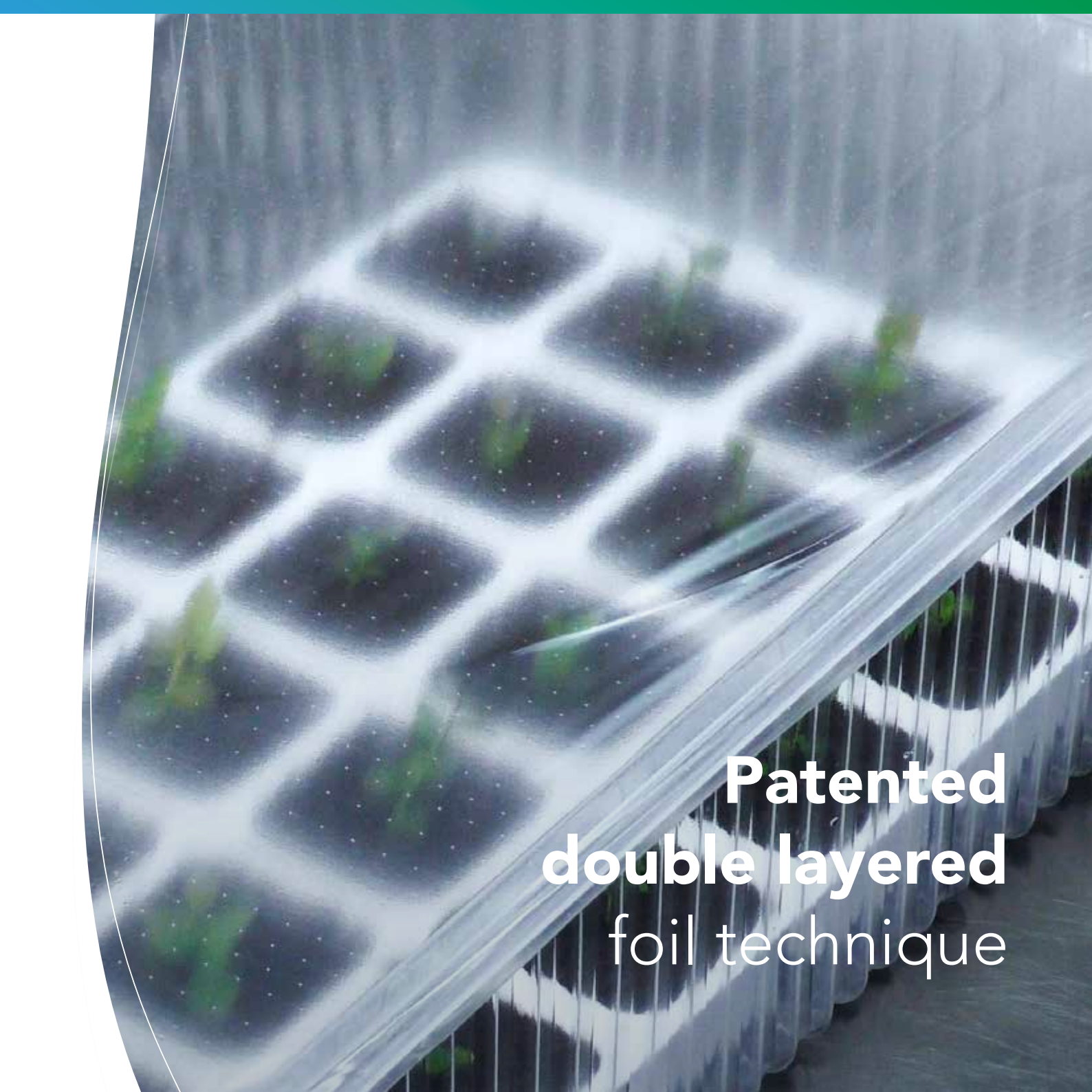
### Laser perforated 64-rows

Article No: 0908 - 0807



### Hot needle full perforated

Article No: 0908 - 0806



**Patented  
double layered  
foil technique**

VPT TOOLS

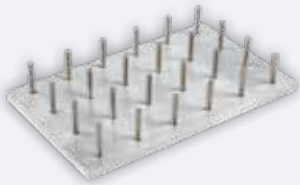
# ViTable Sealer

To complete our growing method, the ViTray is sealed with foil. The ViTable Sealer is a compact sealing machine which can be used to complete this process. Since different types of ViTrays are designed with equal outer sizes, the trays are suitable for processing in a standard laminar flow module and usage in the ViTable Sealer. The sealer can be used with peelable and nonpeelable foil.



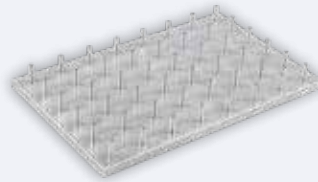
# ViPlug Ejector

The ViPlug Ejector is used as an easy way to push the plug out of the tray. The tool is available in 24, 48 & 126 pin versions.



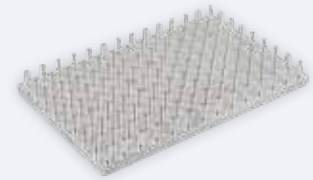
**Insert Tray 24**

0907 - 0100 ViPlug Ejector



**Insert Tray 48**

0907 - 0200 ViPlug Ejector



**Insert Tray 126**

0907 - 0300 ViPlug Ejector



## Carrier trays

The carrier tray is suited to use with all trays and cups. The compartment tray is developed to keep the outer boxes from moving so they always remain in the right position. The insert sheet enables the compartment tray so it can be used for cups as well.



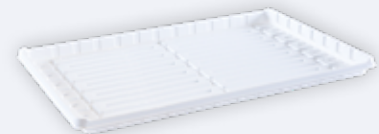
**Compartment tray**

0901 - 1100



**Compartment tray insert sheet**

0901 - 1101



**Carrier tray**

0901 - 1102

# Excellence in sustainable plant production



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