

BREEDING & MICROPROPAGATION

Cultivation consumables



**Fully controlled
growing system**

PLANT TECHNOLOGY

Rooting & hardening

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

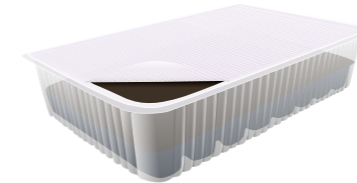
Our growing method has captured most of its technology in the innovative semi-closed packaging in which the plants are grown: one tray sized. Our products are the greenhouses of the future: small, fully controlled greenhouses.

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.

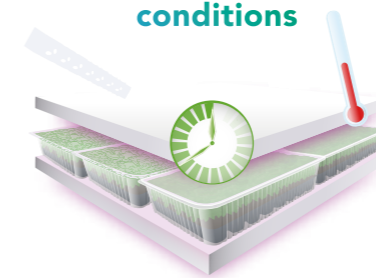
Fill it



Seal it



Optimum growing
conditions



Great starting material



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.



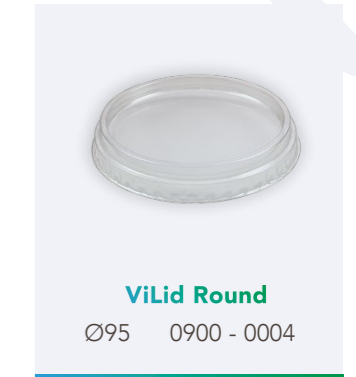
ViCup Round H75 S
Ø95 0900 - 0001



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

ROOTING & HARDENING TRAYS

Insert Tray

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.



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.



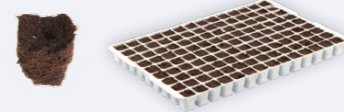
Rockwool

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



Obturo

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



Preforma

Preforma JIF04	48, 126
Preforma JIF06	48, 126
Preforma VECO1	48, 126
Preforma VECO3	48, 126



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.



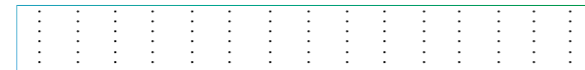
Closed foil

Article No: 0908 - 0800



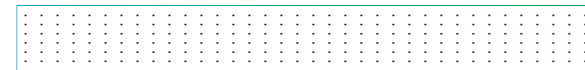
Laser perforated 7-rows

Article No: 0908 - 0802



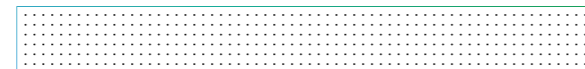
Laser perforated 15-rows

Article No: 0908 - 0803



Laser perforated 36-rows

Article No: 0908 - 0804



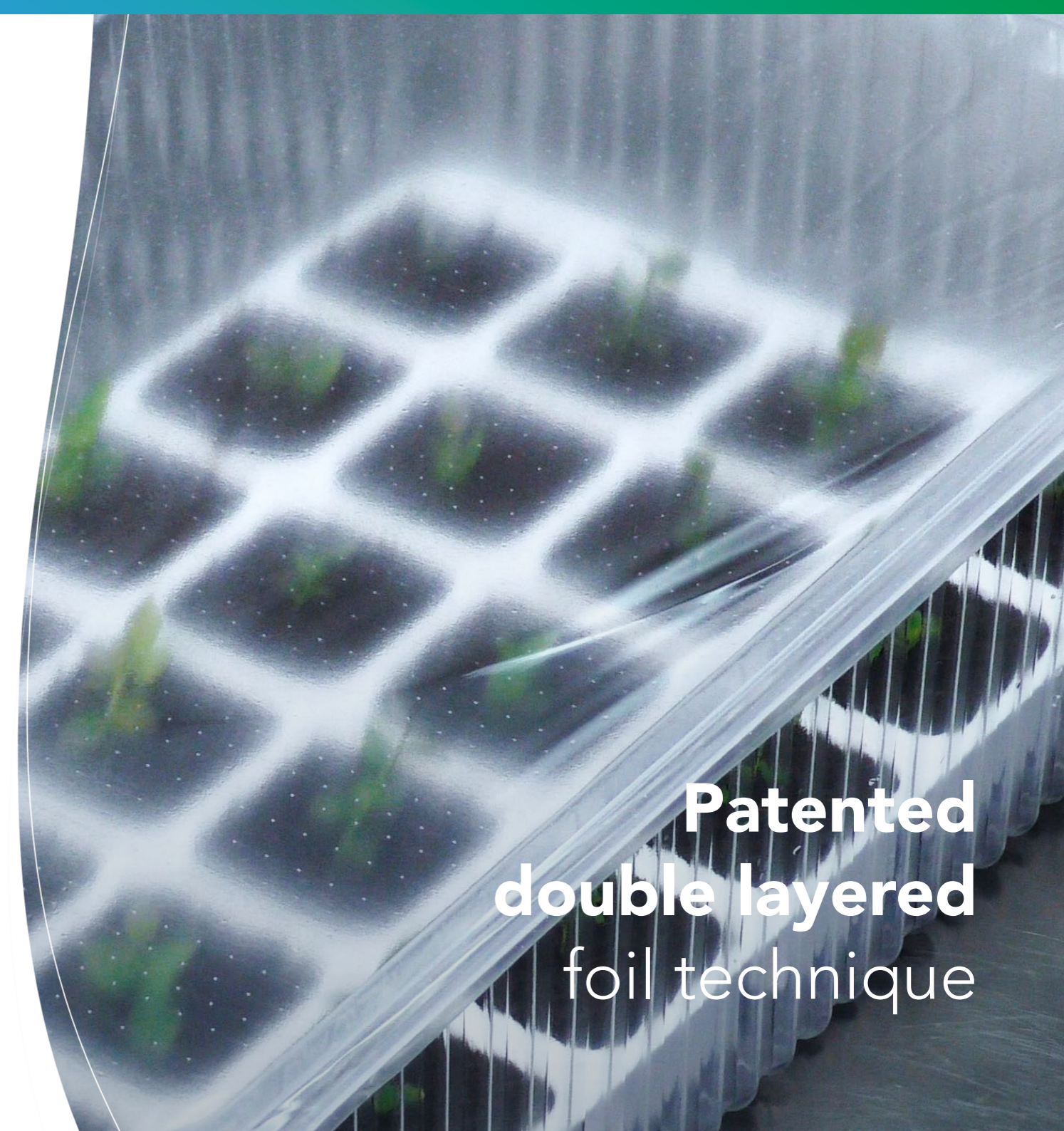
Laser perforated 64-rows

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.



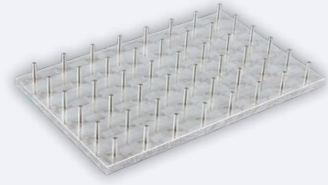
ViPlug Ejector

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.



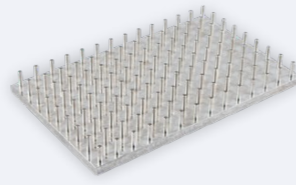
Insert Tray 24

0907 - 0100 ViPlug Ejector



Insert Tray 48

0907 - 0200 ViPlug Ejector



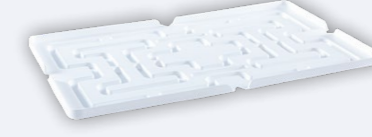
Insert Tray 126

0907 - 0300 ViPlug Ejector



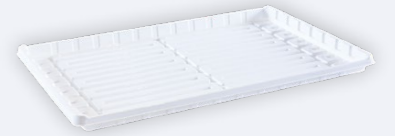
Compartment tray

0901 - 1100



Compartment tray insert sheet

0901 - 1101



Carrier tray

0901 - 1102

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.

Excellence in sustainable plant production



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