

Natural Infection Control

by Prana Monde (PTY) Ltd

Introduction

In times where synthetic products and medicines struggle to win the battle against the progressive occurrences of drug-resistant germs like bird-flu, SARS and the recent Swine-flu, the significance of using these effective natural essential oils becomes more apparent than ever before.

By using this natural infection control system you will benefit of the proven antimicrobial properties and in addition experience the energizing, uplifting and immune boosting properties of natural essential oils whilst replacing bad odours with the subtle fragrance of aromatic plants.

We are convinced that the information hereby will draw your attention on the huge potential and advantages of our infection control systems and stay at your disposal for any further information required.

Who is Prana Monde?

Prana Monde (PTY) Ltd is a Johannesburg based company specialized in Scientific Aromatherapy, founded in 2003 and run by Philippe Lismont.

Prana Monde is the sole distributor for Southern Africa of Pranarôm International Belgium, the most advanced company on the field of Scientific Aromatherapy, and sole distributor for the specialised cold air diffusing systems made by OMC BV Netherland.

We carry a broad range of complementary medicines and food supplements, based on natural Chemotyped Essential Oils, distributed to doctors, practitioners, pharmacies and health shops.

Most successful are our soft-gel capsules containing the essential oil of Moroccan Oregano with a broad spectrum anti-microbial action and therefore used as a natural substitute for antibiotics and as an extremely effective anti-fungal in cases of *Candida albicans*.

Prana Monde has an advisory service of practical and theoretical education and training courses and is specialized in consultancy and development of essential oils formulations for human and veterinary applications.

In contrary to the well known English aromatherapy where Essential Oils are used to massage, often combined with other manual therapies, scientific aromatherapy adheres to a strict scientific methodology, based on controlled research, that defines properties of the molecules present in the essential oils and their effect on human and animal, and where all roots of administration are used to take care of pathologies, their symptoms and origins.

One application in particular, efficiently used in infection control, is the diffusing of essential oils with proven antiseptic properties to effectively disinfect rooms, cut down airborne diseases, limit cross infections and simultaneously vitalizing the surrounding atmosphere and control odour.

Only Chemotyped Essential Oils (CTEO) are used by Prana Monde.

These oils are 100% natural, 100% pure, 100% integral and 100% unaltered, originating from certified botanical plants. They correspond in every respect with the Chemotyped Essential Oils quality criteria. By means of a biochemical breakdown, the aromatic molecules and thus the exact properties and medical values are identified. They are rare and their price is inevitably higher but it is fully justified by their quality and effectiveness.

These essential oils are the only ones that should be used for medical and therapeutic purposes and the only ones that are classified as food supplement. They are a guarantee for quality, efficiency and safety.

Infection control

Numerous essential oils have proven antiviral, antibacterial and antifungal properties. These properties were already discovered early 1930 by a French researcher, René-Maurice Gattefossé.

With the attention of various quarters of the scientific community, many scientific studies and research, by means of modern technology, have been performed, proving the effectiveness of Essential Oils.

Specific essential oils diffused in the atmosphere, drastically reduce air borne diseases and cross-infections and have a strong and broad antiseptic action, as proven by several controlled clinical trails, making it the most effective and natural method for infection control.

There is no resistance known towards essential oils up to this date.

In times where more and more drug-resistant bacteria and viruses occur and have initiated several pandemic infections in a progressive pace (bird flu, SARS, swine flu..), the medical world is becoming aware of the importance of the effectiveness of natural essential oils in preventive and curative procedures as no resistance towards these natural substances is known up to this date.

Attached you will find one of the latest (April 2009) and most complete publications on the effectiveness of the antibacterial, antiviral and antifungal properties of natural essential oils of aromatic plants documented by:

1. Institute of Pharmacy and Molecular Biotechnology, Department of Biology,
2. Hygiene Institute, Department of Virology, University of Heidelberg, Germany
3. Institute of Complementary Medicine, Department of Internal Medicine, University Hospital Zurich, Switzerland

Prevent viral infections (Like swine flu)

Prevention is better than healing. "Swine" flu is a very contagious disease of the respiratory tract caused by the influenza virus.

What precautions can we take to prevent Swine flu?

For the prevention of infection, personal protection as hand hygiene and extra disinfection protocols of the work environment can bring an important contribution to reduce the risk of contamination.

Good ventilation of closed areas is another preventive measure.

We can provide the environment air with essential oils, a 100% natural product with proven antiviral properties, to minimize the spread of the virus.

The essential oil is brought in the air by means of a cold diffusing system.

There are 2 different systems in our range:

The Aromcé

This portable unit produces an aerosol diffused in the environment air and is suitable for a surface area up to 75 M².

The OMC system

This system consists of a separate compressor connected to 3 to 5 wall mounted diffusing units, suitable for surface areas bigger than 75M² and work areas divided in different offices or rooms.

Only Chemotyped Essential Oils (CTEO) are used as they are the only ones that conform to the strict methodology used in Scientific Aromatherapy where every batch of essential oil is systematically controlled by GCMS to define all molecules present, detect unwanted foreign elements like pesticides and define the exact properties and conformity of the essential oils obtained.

Several CTEO's have extraordinary antiviral and anti-bacterial properties. A range of essential oils of which Lemon, Hyssop, Tea tree, Eucalyptus, Rosemary... were submitted to scientific research on their antiviral properties by in-vitro tests on HSV-1 and HSV-2 (herpes simplex virus), SARS and other viruses (see publication attached)

By diffusing the right essential oils we are able to make the environment less sensitive to viral contamination and cross-infections while the air inhaled is enriched with essential oils with strong antiviral properties.

Special antiviral & antibacterial formula

Pranarôm International Belgium, the Nr 1 in scientific aromatherapy, developed a special antiviral and antibacterial formula consisting of a synergy of 100% chemotyped essential oils, adapted to be used with the professional diffusing systems of OMC BV Netherland.

The formula created is based on published research results.
(See publications attached)

Aromaforce is a formula developed to minimize viral and bacterial infections and contamination (cross-infections) as it is in the case of Swine flu.

The well balanced combination of essential oil contains:

- Melaleuca alternifolia (Tea tree)
- Melaleuca quinquenervia ct cineole (Niaouli)
- Cinnamomum camphora ct cineole (Ravintsara)
- Rosmarinus Off. Ct cineole (Rosemary)
- Mentha x piperita (Peppermint)
- Lavandula x hybrida super (Lavandin)
- Eucalyptus globulus (Blue gum eucalyptus)
- Eucalyptus radiata ssp radiata (Eucalyptus radiata)
- Eugenia caryophyllus (Clove)

These CTEO's are used in the correct proportions and have a proven result to fight bacteria and viruses.

Aromaforce is classified as food supplement and is therefore completely safe to be inhaled when diffused.

Scientific research mentions the use of low dosages of essential oils used for inhalation or diffusing in the surrounding atmosphere to be extremely effective against viruses. Low concentrations are proven to be more effective than high concentrations.

The essential oils diffused must be on the level of barely being perceived.

The Aromcé and the OMC system can be set at a very precise dosage and can be adapted at any time when needed.

Sick Building Syndrome (SBS)

Cold diffusing of essential oils enrich the atmosphere with negative ions in a natural way. In areas with huge amounts of people, increased human traffic, poor ventilation with a lack of fresh air and the presence of plenty of electronic equipment, a huge loss of negative ions is experienced.

The deficiency of negative ions is one of the important causes of the "Sick Building Syndrome". Not to mention the opportunity created for airborne infections and cross infections.

The term SBS is used for a wide range of health complaints as headache, ear-, nose-, and throat irritations, a diminished concentration ability and chronic fatigue.

SBS reduces productivity, increases sick leave and creates a huge lack of job satisfaction.

By diffusing essential oils, the atmosphere is revitalized and a healthy healing environment is created.

Stress management

By the use of the correct combination of essential oils, stress, anguish, irritability and aggressiveness can be drastically reduced. Situations presenting low levels of concentration, alertness and fatigue can be transformed into an energetic, friendly environment.

The emotional uplifted mood increases the feeling of well-being, productivity and job satisfaction.

Odour control

By diffusing essential oils a deodorizing effect is obtained. Areas carrying typical hospital odours, odour of sick people, foul odours, food odours and all typical offensive odours are neutralized and replaced by the pleasant fragrance of natural plants and herbs.

The aerosol obtained after diffusing contains thousands of minuscule drops of EO. The negative charged particles attract the positive charged odour particles which are transported to the centre of the EO droplet and the pleasant fragrance of the EO remains.

The creation of the essential oil synergy is a specialization of its own. The fragrance must be subtle and pleasant for everybody that works, not only on the conscious level but also the subconscious.

The quality of work conditions for the local staff is drastically improved by smell control as well as the comfort for the public visiting their beloved family or friends.

Every 3 months the equipment is serviced, a different EO can be provided regarding the specific needs and in agreement with the local manager, staff.

Healing environment

It is an environment where people feel happy and safe. The healing environment has positive effects on the healing process, recovery and well-being of patients and staff members. This environment reduces stress and prevents sickness due to the work environment they work in. This is an environment where people feel happy and safe.

Characteristics of a healing environment are the use of natural light, fragrance, colour and natural elements. It gives the hospital, old age home and health centre, a warm, human character where well-being, safety & comfort, rest and healing, is the main focus.

An increase of the number of visitors is noticed in institutions where the factors for a healing environment are implemented.

How do the diffusing systems work?

OMC BV, is a Netherland based company, specialized in cold air diffusing systems for essential oils, used in professional environments.

The portable Aromcé and the OMC system are developed by OMC BV and work with this principle of cold diffusing.

This principle of cold air diffusing is imperative to keep the essential oil in their natural state, respecting their full potential and properties.

A slight air pressure is created, by a silent air compressor unit, in the container of essential oil that is hereby forced through a special developed diffusing component where it is transformed in tiny micro droplets. These tiny particles of 100% essential oil are brought into the air by the aerosol obtained.

A minor air circulation will transport the essential oil molecules through the air, through the room, the work area.



The air enriched with the essential oil synergy Aromaforce, the antiviral formula, minimises the chances of viral contamination like the Swine flu virus.

The Aromcé and OMC dosage control enables you to obtain a controlled amount of essential oils in the environment and can be lowered or increased any time, depending on the specific needs.

The Aromcé, the portable diffusing system

The Aromcé is the portable version of our professional diffusing systems and can be used practically everywhere up to a surface area of 75M².

It is solidly and aesthetically build and will fit in every interior.

It is very well adapted to be used in the office, waiting rooms, receptions, school classes, practice rooms, beauty salons, tanning studios, crèches, government buildings, libraries, hotel rooms, living rooms.., basically any area where you want to enrich the atmosphere with Chemotyped Essential Oils with their specific benefits.

Aromaforce, our anti-viral formula, can be used to minimize contamination of viral infections like Swine flu.

In some cases it is practical to have a movable system that can be applied in areas that need extra attention (Sick wards with bad odours, theatres for extra infection control, intensive care units, waiting rooms, doctors practices, receptions,...) or if you happen to have multiple locations to work from.

The portable system has a silent build-in air compressor, is solid, and extremely user-friendly. With the average settings of 10 seconds diffusing every 2 minutes, a consummation of 2 ml/day may be expected. 100 ml of essential oils will get you up to 50 days if the diffuser is used 8 hours daily. The Aromcé works on a 12 Volt power supply.

Maintenance of the portable Aromcé diffuser



The Aromcé needs a minimum of maintenance.

Simple wipe the demountable front with a dampened cloth weekly as well as the inner side of the cartridge connection every time you replace the essential oil cartridge.

Simple and easy!

The OMC system for companies and big surfaces

The OMC system is used for surface areas bigger than 75M² and work areas that consists of different offices or rooms. The OMC system is implemented per department whereby three to five diffuser units are connected to one central compressor/control unit. The air enriched with the essential oil synergy Aromaforce, the antiviral formula, minimizes the chances of bacterial and viral contamination, like the Swine flu virus.

The system exists out of 2 parts, the control unit and the diffusing units.

The central compressor/control unit



This unit supplies high air volume under low pressure to activate the diffusing units.

With each central control unit 3 to 5 wall mounted diffuser units are connected with a flexible air tube. The electronic timer of the central unit regulates the frequency of the diffusing times and is easy to set up. This enables us to keep a controlled and regular supply and circulation of EO in the air and area concerned.

The OMC system works on a 24 hour basis.

The diffusing units



These wall mounted units transform the essential oil by air pressure in tiny micro particles and are then released into the atmosphere (aerosol).

They are carried along through the air and divided into the room, office, ward, theatre or division, where they perform their proven antiseptic properties providing a healthy atmosphere.

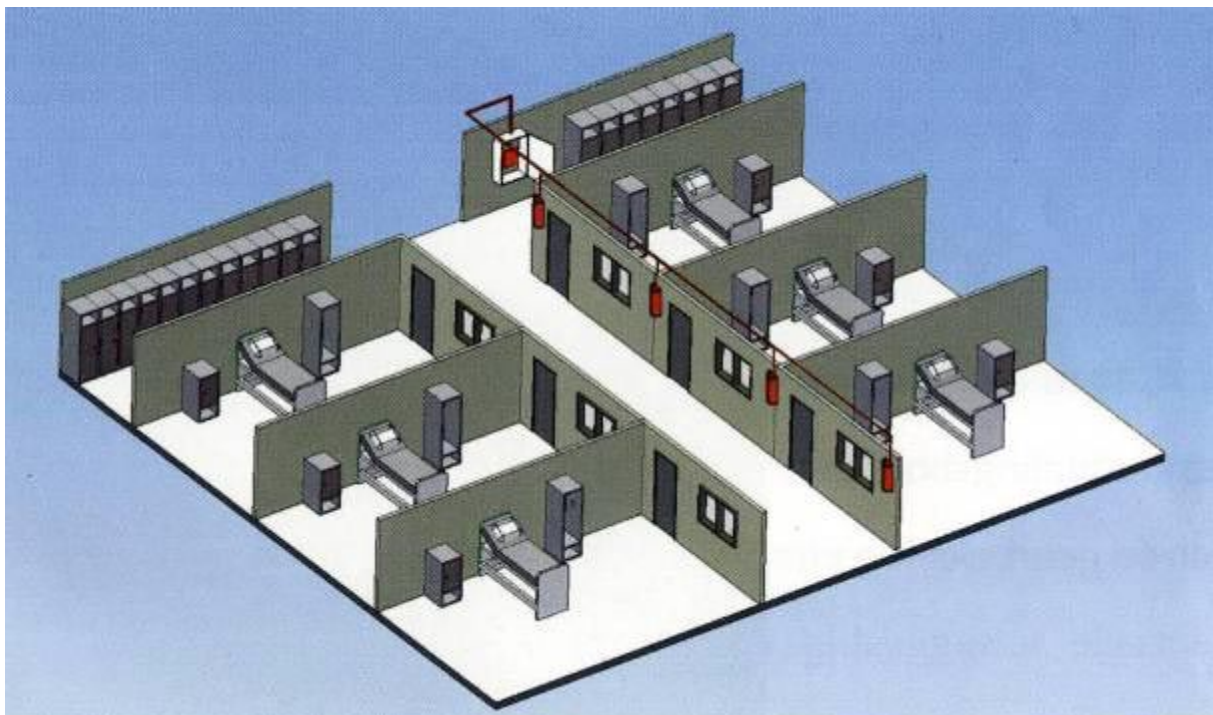
With average settings a consummation of 250 ml of essential oil may be expected per wall-mounted diffusing unit.

Installation of the OMC system

With each central compressor/control unit, 3 to 5 wall-mounted diffusing units can be connected with flexible air tubes. The system is modular expandable. We install 2 complete OMC systems per day.

All tubes are placed in the ceilings. If this is not viable, aesthetic cableways are used. The installation can be performed with minimal disturbance and minimum interferences.

Installation costs are quoted and billed separately.



Maintenance Agreement with the OMC system

Each OCM system comes mandatory with a Maintenance Agreement. The Agreement provides a full cover life guarantee on the OMC system including labour and spare-parts.

Service is provided every 3 months and comprehends a complete check-up and maintenance of the control unit and the diffusing units, the essential oil cartridge is replaced and the old (empty) cartridge taken back.

The consummation of essential oils is not included in the service contract and is invoiced separately.

An average 250 ml of EO is used per diffuser unit every 3 months.

Feedback on the effectiveness experienced is gathered from the local staff and division supervisor. An evaluation is made in conjunction with the supervisor and if needed, adjustments in the regulation and/or essential oils used are decided on.

Prices

Aromcé, portable diffuser R. 7200-00/each

OMC system:

Central compressor/control unit R. 12360-00/each

Diffuser unit for OMC System R. 3840-00/each

Installation costs are quoted and billed separately.

CTEO cartridges:

100 ml R. 450-00/each

250 ml R. 950-00/each

Maintenance agreement R. 4800-00/year/OMC system

Prices exclusive 14% VAT and are susceptible to exchange rates and transport costs and could change without preceding notice.

Delivery time: 2 to 4 weeks after receipt of written order and deposit.

Payment: 50% deposit when ordered.
Balance after delivery and/or installation of the ordered equipment.

For more information on prices, service contracts and installation costs, please contact Philippe Lismont on 082 565 9229 or send your request by email on info@pranamonde.com