

The “Complete Treatment System”  
developed by Essa  
for improved indoor air quality.



**ESSA**<sup>®</sup>

BETTER AIR TECHNOLOGY

## **How good is the air you breathe?**

Most air looks clean. Often it even smells clean. However, the reality is quite frightening. In 1998 a study by the World Health Organisation found that biological air contaminants in indoor air had been associated with half of all absenteeism and significantly reduced worker efficiency. It is well recognised that commercial, industrial and hospital air conditioning ducting can be a major source of infection and re-infection in public and private buildings.

Well managed air conditioning systems use HEPA (High Efficiency Particulate Air) filters to control bacterial contamination of airflow. When properly maintained, such filters are very efficient. However these filters do not control fungi, yeasts and moulds. Which is why Essa has developed the Safe T Air and Safe T Duct systems. Only a complete integrated system of air treatment ensures clean, healthy air is maintained to acceptable standards.

## **What is Tea Tree Oil?**

Tea Tree Oil is a completely natural product, obtained from a renewable resource. It has been widely used as a natural antiseptic and fungicide for decades in Australia. Clear, with a mild but pleasantly distinctive odour, it is the essential oil obtained by steam distillation of the leaves of *Melaleuca alternifolia* – a natural plant species native to Australia. Laboratory studies have shown that it is a proven broad spectrum fungicide/germicide/biocide which is very effective against a wide range of bacteria, yeasts, moulds and fungi at low minimum inhibitory concentrations (MICS).

*Please see opposite page for full details of some of the micro-organisms it effectively helps to combat.*

# **The complete treatment system**

## **One simple system to ensure the maintenance of clean and healthy air.**

Maintaining clean and healthy air for any space occupied by people or animals is a challenge. Temperature, humidity, air-borne contaminants, mould, mildew and gaseous substances are just some of the conditions that have to be controlled to ensure health and comfort is maintained.

To address all these problems ESSA has created "The Complete Treatment System". What it does, quite simply, is to bring a range of electrical and mechanical equipment that address each individual problem, into one unified and complete system. With "The Complete Treatment System" the maintenance of clean and healthy air is achieved through a combination of these components:

- Service and maintenance of heat/cool equipment and their controls to ensure correct year-round temperatures.
- Ensuring all ductwork is free of particulate build-up. If build-up occurs, have the debris removed by competent removalists.
- Provision of humidification and dehumidification as required.
- Installation of the patented H.E.L.P. (High Efficiency Low Pressure Drop) filtration system for sub-micronic particle removal.
- Installation of Safe T air system with Tea Tree Oil for control of mould.

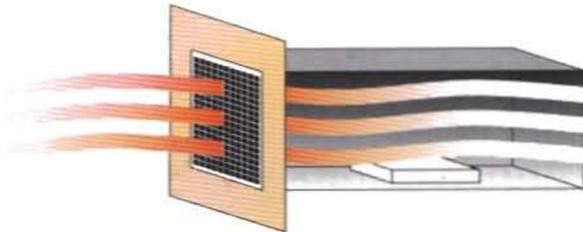
# Simple to install, easy to use and it works!

## Safe T duct

Safe T Duct is simply fitted into the return air system of your air conditioning or heating system. It assists in controlling mould, fungi and multiple disease breeding bacteria and assists in creating healthy, clean air to be re-circulated throughout the home or office. Installation is simple, remove the grill or covers and fix Safe T duct to the walls or base of the unit.



Return Air Grill



## Safe T air

Safe T air has been especially designed to fit into these and other Essa Air cleaners. The Essa filter traps microbial contaminants while Safe T air is designed to clean the air which is to be re-circulated through the air cleaner.

This results in the distribution of clean, healthy air throughout the home or office.



Bio Air Unit



Wall Mounted Unit



**Safe T air and Safe T duct have been designed and manufactured to exacting standards to combat these and other micro-organisms in indoor air:**

### Gram - ve

Legionella spp.

### Bacteria

Enerobacter

Eschericia coli

Klebsiella pneumonia

Proteus vulgaris

Pseudomonas putida

Serratia marcescens

### Gram +ve

Bacillus cereus

### Bacteria

Bacillus subtilus

Corynebacterium spp.

Micrococcus luteus

Propionibacterium acnes

Methicillin Resistant

Staphylococcus aureus

Staphylococcus epidermis

Enterococcus faecalis

### Fungi & Yeasts

Aspergillus niger

Aspergillus flavus

Candida albicans

Piryosporum ovales

Trychophyton

Mentagrophytes

**ESSA Pty Ltd**

ACN 093 057 348  
ABN 67 093 057 348

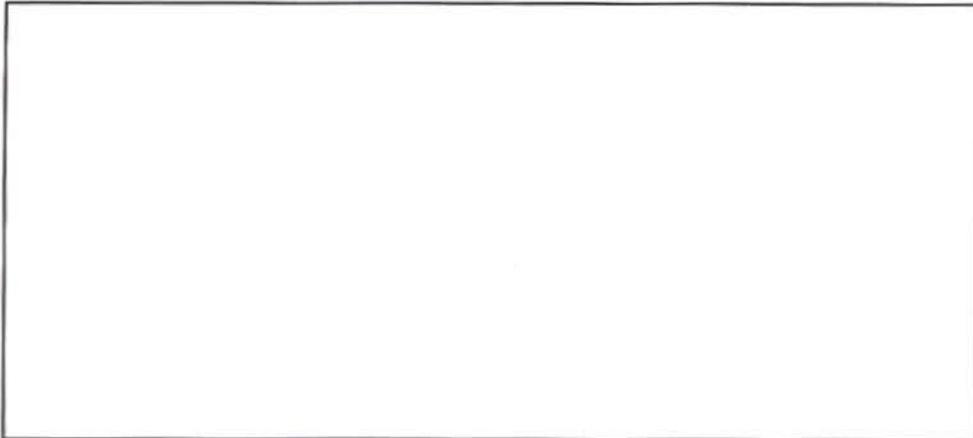
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**Safe-T-air and Safe-T-duct Made in Australia  
and exported to the world by:**

**ESSA<sup>®</sup>**

**BETTER AIR TECHNOLOGY**

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**MATERIAL DATA SHEETS AVAILABLE FROM YOUR DEALER**