



# Better indoor air quality, better health, better safety of crew and passengers

In hot and/or humid conditions, marine HVAC systems and package AC units are the ideal breeding grounds for bacteria, Legionella and mould, which affects the cleanliness of vessel air-conditioning systems, and therefore the health of crews and passengers.

Many common moulds and yeast spores can produce allergenic effects and unpleasant odours. Repeated exposure to high concentrations of spores from any number of species (such as *Penicillium* and *Aspergillus*) can lead to crew sensitisation and can result in both acute (short term) and chronic (long term) health problems.

According to the Maritime Labour Convention (MLC), 2006 Guideline B3.1.2 - Ventilation 2b, it is required that all air conditioning systems are designed to facilitate easy cleaning and disinfection to prevent or control the spread of disease. Therefore, a proper duct air treatment system is crucial in maintaining a healthy air quality onboard the vessel.



Presence of mould, fungus and mildew in the air conditioning systems

## Unitor™ Duct Air Treatment (DAT)

The Unitor™ Duct Air Treatment (DAT) is a natural biodegradable, non-toxic gel block that contains pure Australian Tea Tree Oil with naturally occurring anti-fungal, anti-viral, anti-bacterial, anti-septic and anti-carcinogenic properties.

The DAT is suitable for use in air handling units, ducted systems and packaged units. Tea tree oil vapor will be evaporated into the supply air and diffused throughout the room, effectively disinfecting the entire air duct system.



Part No.	Product	Area Coverage
743466	DAT - 2 kg	Up to 250m2 or up to 15 pax
764417	DAT - 4 kg	Up to 500m2 or up to 30 pax

## Unitor™ A/C Unit Air Treatment (AAT)

The Unitor™ A/C Unit Air Treatment is specifically designed to be used in wall mounted and cassette type air-conditioned systems. The sachet can be easily installed into the air-conditioner filter with no additional equipment required.

Every sachet contains 100% pure Australian Tea Tree Oil, which is being released in a sustained and controlled manner. The natural properties in tea tree oil vapor will offer continuous protection against pollutants such as mould, bacteria and viruses.



Part No.	Product	Area Coverage
743460	AAT	1 piece per A/C unit

## Features

- Continuous protection from mould, bacteria and viruses
- Disinfect the entire air-conditioning supply air duct
- DAT and AAT cover a wide range of air conditioning systems
- Uses 100% pure Australian Tea Tree Oil

## Benefits

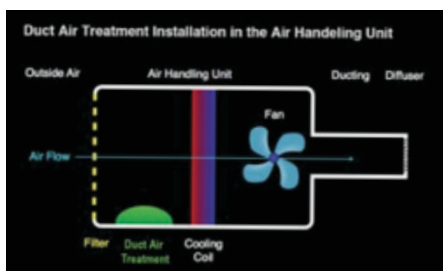
- Removes bad odor associated with mould and bacteria growth
- Ensure good indoor air quality for crew and passenger health
- Easy to use without additional energy required, saving cost



## Installation

**Duct Air Treatment:** We recommend placing the DAT block in the filter section of the Air Handling Unit (AHU) and packaged units. In case of space constraints, the DAT block can be placed in the fan section. For Ducted units we recommend placing the DAT block in the fan section or in the ducts if space is restricted.

**A/C Unit Air Treatment:** The AAT sachet can be placed in between the filter and the evaporator coil of the wall mounted unit.



Duct Air Treatment in Air Handling Unit



Duct Air Treatment in Ducted Unit



A/C Unit Air Treatment in Wall-mounted Unit

## Choose our Air Treatment Solutions for Enhanced Air Quality Onboard

Discover how Wilhelmsen Ships Service is enhancing onboard air quality with our innovative, costefficient solutions. By utilising our air duct solutions, you not only improving the health and well-being of the crew and passengers, but also aligning with global maritime labour standards. Explore our approach to better indoor air quality and how it can make a difference for your vessels.

### **Wilhelmsen Ships Service**

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