TECNICOMAR MARINE SYSTEMS

Air Purifiers
Tecnicomar Marine Systems: **AIR PURIFIERS**

- WHY DO YOU NEED THEM?
- HOW THEY WORK
- RANGE OF PRODUCTS
- WHERE TO USE THEM
Breathing contaminated air puts the health of you and your family at risk.

- People spend more than 90% of their time indoors
- Each person inhales over 3,500 gallons of air each day
- Polluted air causes 94% of all respiratory problems

Most people don’t know that the indoor air may be 100 times more polluted than the air outdoor.

**Indoor Air Pollutants:**

<table>
<thead>
<tr>
<th>Particulates</th>
<th>Microbials</th>
<th>Gases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollen</td>
<td>Staphylococcus</td>
<td>Smoke</td>
</tr>
<tr>
<td>Acari</td>
<td>Escherichia coli</td>
<td>Garbage</td>
</tr>
</tbody>
</table>
The indoor air problems of a home or office building are miniscule compared to the indoor air problems of a yacht.

**Sick Yacht Syndrome**

- Keep the environment safe and healthy
- Take control of the indoor air quality
- Use Advanced Air Purification Systems
Main application areas

The **TECNICOMAR Air Purifiers** are installed inside of ventilation systems and allow to purify the environment by killing the pollutants and constantly sterilizing the air.

- Kill 99% of Bacteria, Viruses and Mold
- 85% reduction of Gases and Odors
- Approved by EPA/TUV/ETL/CSA/CE
- Used by the US Government

Why do you need them?

% Odor Reduction

<table>
<thead>
<tr>
<th>Hours</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
<th>100</th>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
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Main application areas
The TECNICOMAR Air Purifiers are based on an Advanced Oxidation Process that produces safe low level of “CLEANERS” such as Hydroxyl Radicals, Superoxide Ions and Hydro Peroxides. After oxidizing the organics, bacteria, odors and gases, they revert back to oxygen and hydrogen.

**BENEFITS**

- Versatile and compact
- Very low cost
- Low maintenance
- Low energy consumption
- No block into the blower
- Easy to install and use
- Total protection against all kind of pollutants

An example of a PHI Cell application inside of a ventilation system

**Photo Hydro Ionization Technology (PHI)**

- Hydroxyl Radicals
- Superoxide Ions
- Hydro Peroxides

AC Duct

Aggressive Advanced Oxidation Purifiers
The Guardian Air is designed to eliminate sick yacht syndrome risks by reducing odors, air pollutants, VOCs (chemical odors), smoke, mold bacteria and viruses. The HVAC-PHI Cell is easily mounted into air conditioning and heating systems air ducts where most sick building problems start.

**Guardian Air HVAC Cell**

2,400 - 130,000 m³/h

**REME HVAC Cell**

2,000 - 20,000 m³/h

**PIP - Plug In Plus**

50 W (energy consumption)

270 m³/h

**Mini PHI Cell**

The Plug In Plus Purification System is a small, light and easy to use unit that provides bacteria, mold, odor and VOCs (chemical odors) reduction.

The advantage of the Plug In Plus is its ability to be used in any room and be completely inconspicuous.

**Installation**

*Inside*
- AC ducts
- On desks, tables or shelves
- AC ducts
- AC ducts
- Locker room
- Bins

**Installation**

*Outside*
- Locker room
- Bins

**Installation**

*Inside*
- AC ducts
- Locker room
- Bins

**Installation**

*Inside*
- AC ducts
- Locker room
- Bins

**Installation**

*Inside*
- AC ducts
- Locker room
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**Installation**

*Inside*
- AC ducts
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**Installation**

*Inside*
- AC ducts
- Locker room
- Bins
The AUV Stick Light+(PCO) will provide you with years of safe, economical UV light disinfection and protection of your AC coil surfaces from bacteria, virus, mold growth and odors resulting in a cleaner, more efficient energy-saving system. UV treatment systems is installed in an air conditioner coil with a standard UV-C 254 nm wavelength bulb and is used for medical, food and industrial applications.

**Installation**

**(inside)**
- Food containers

**(outside)**
- On desks, tables or shelves

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These units are suitable not only for destroying air pollutants and odors, but even for reducing FOG (Fats, Oils and Grease), Mercury and VOC (Volatile Organic Compounds). Ideal for offices, restaurants, dental offices, beauty centers, SPA, fitness facilities.

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The Guardian Air ICE is designed not to cover up odors, air pollutants, mold, viruses and bacteria, but to destroy them thanks to the advanced oxidation process. Ideal for ventilation systems and onboard yacht applications.

**Installation**

**(outside)**
- On collecting tanks for grey/black water and bilge water

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Ideal for hotels, resorts, restaurants, apartments, yachts, boats.

Once the unit is activated, it will quickly and efficiently clean your duct in as little as 30 minutes for an average size home.

The treatment of your ducts includes a bacteriostatic and mycostatic action.

**Installation**

**(portable use)**
- Cars, Coaches, Trains, Aircrafts

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<table>
<thead>
<tr>
<th>Product</th>
<th>Energy Consumption</th>
<th>Capabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUV Stick Light</td>
<td>7 A (24 V)</td>
<td>Suitable for destroying air pollutants and odors, medical, food and industrial applications.</td>
</tr>
<tr>
<td>CAPS Mini / REME Mariner</td>
<td>1.000 m³/h, 13.000 m³/h</td>
<td>Suitable for reducing FOG, air pollutants, mold, viruses and bacteria.</td>
</tr>
<tr>
<td>Guardian Air ICE</td>
<td>90 m³/h</td>
<td>Advanced oxidation process to destroy odors, air pollutants, mold, viruses and bacteria.</td>
</tr>
<tr>
<td>Rapid Recovery</td>
<td>2.400 - 130.000 m³/h</td>
<td>Suitable for hotels, restaurants, apartments, yachts, boats.</td>
</tr>
</tbody>
</table>

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7 A  (24 V)

1.000 m³/h

90 m³/h

2.400 - 130.000 m³/h
Where to use them

RESIDENTIAL Application

Living room

Bed room

Bathroom

Kitchen
Where to use them

RESIDENTIAL Application

AIR PURIFIERS – RESIDENTIAL DIVERSIFICATION PROGRAM
Where to use them

ON BOARD Application

Living room
Bed room
Kitchen
Bathroom
Engine room
Where to use them

**COMMERCIAL Application**

- **Dental offices**
- **Hospitals**
- **Fitness facilities**
- **Schools/Universities**
- **Offices**
- **Restaurants**
Where to use them

COMMERCIAL Application

Beauty centers/ SPA

Cinema/Theatre

Subways/Rail stations

Airports
Where to use them

COMMERCIAL Application

Cruise ships

Coaches

Cars

Aircrafts

Trains
CONTACTS

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