



**Combination of Air
Sanitiser / Steriliser,
and Purifier**



**Kills Airborne Viruses & Bacteria
Pollen, Mold & Fungi Spores**



Removes Allergens

**Eliminates VOCs, Toxic
& Obnoxious Gases**



Traps Ultra Fine Dust Particles,



Strong Oxidizer



Reduces Odour



Inhale 100% Pure and Disinfected Air



Pulire Biosystems Private Limited is an ISO 14001 and 9001 certified company involved in formulating a complete solution for the Air Sterilisation and Purification.

Why Air Purifier is ineffective in Today's Scenario

The indoor air pollution can be 10 times more than the outdoor pollution. This is because contained areas enable potential pollutants to build up more than open spaces. Common indoor pollutants include excessive moisture, volatile organic compounds (VOCs), combustion products, obnoxious gases, ultra fine dust particles, allergens, radon, pesticides, mold, pollen, viruses, bacteria, etc.

Sources of indoor air pollution

The principal sources of indoor air pollution are: Combustion, Building Material, Asbestos, Heavily Trafficked Roads, Air Fresheners, Pesticides, Paints, Chemical Sanitizer, Bioaerosols, etc.

Air pollution is one of the world's largest killers, responsible for 6.4 million deaths per year (1 in 9 deaths), of which 600,000 are children.

It can cause a wide range of health problems like eye irritation, headaches, nose and throat irritation, fatigue, asthma, heart problems, respiratory sickness, and even cancer.

For Safe & Healthy Environment: Proper eradication of bacteria and removal of Toxic and Obnoxious gases and ultra fine dust particles are necessary for safe & healthy indoor environment

Air Purifiers are just Dust Collector or Separators — We are not one of them The air purifier only consists of filters which traps the dust particles and do not remove VOC, air borne viruses and bacteria, smoke etc which are more harmful than the dust particles and can cause number of diseases like asthma, skin diseases, wheezing, coughing, allergies and even cancer.

Our brand “Pulire” which is GMP and CE Certified is a combination of Air Steriliser and Purifier having a complex filtration system and a Sterilisation Reactor Chamber.

The main aim of Pulire is to provide a completely safe environment and healthy disinfected air. Pulire will help you to eliminate VOCs, foul odour and toxic gases with the removal rate achieved at SO₂:99% and NO₂:98% respectively , Ultra Fine Particles (Reduces even PM 1.0) and most importantly Airborne Deadly Bacteria and Viruses.

It kills influenza virus, corona virus, polio virus , etc. It sterilises the respiratory viruses as well as fungus which is difficult to disinfect.

Pulire works on the principle of most widely accepted technology of Photo Catalytic Oxidation (PCO)

GMP & CE approved

Dual Fan Speed

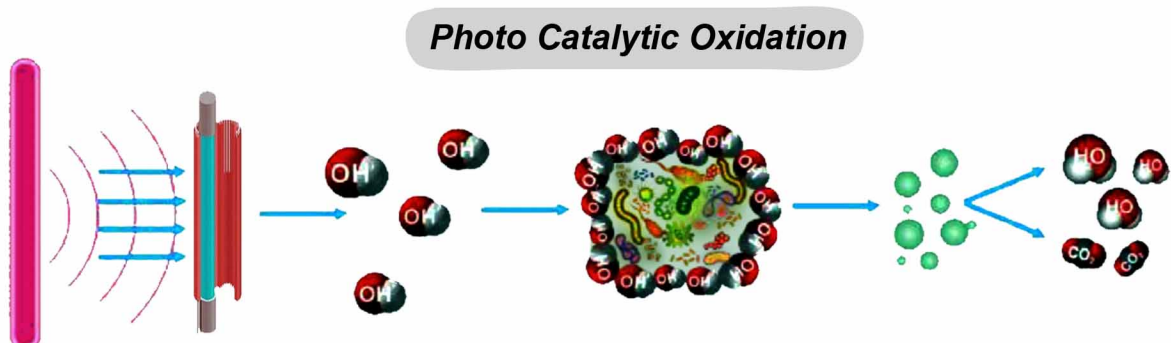
Longer Filter Replacement Period

Made in Glass Reinforced Plastics\ Powdered Coated Steel which gives it far greater strength

Activated Charcoal Filter has double the absorbant capacity compared to ordinary Activated Filter

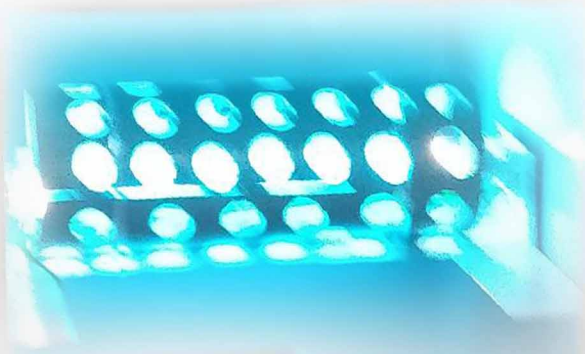
What is Photo Catalytic Oxidation

Photo Catalytic Oxidation uses short-wave ultraviolet light (UVC), commonly used for sterilization, to energize the catalyst (usually titanium dioxide (TiO₂)) which results in a reaction that oxidizes the bacteria and viruses into water and carbon dioxide. Photo Catalytic Oxidation generates Hydroxyl Radicals which is much more stronger than other disinfectants. The Oxidation Potential (electron-volt) of Hydroxyl Radicals is 2.85 while that of Hydrogen Peroxide is 1.77 and Ozone is 2.07



How do we get results...

The air is passed through the complex filters starting from Washable Aluminium Filter, Pre Woven Filter, Thickest HEPA Filter, Activated Carbon Filter and finally through Activated Charcoal Granule Filter (impregnated with Nano Particles of Silver)



The air then enters the Reactor Chamber which have optimum number of short-wave ultraviolet (UVC and UVA) lamps, which is contained in tubes coated with Nano particles of TiO_2 and its effectiveness multiplied by parallel mirrors

When UV light shines on the titanium dioxide, electrons (the tiny, negatively charged particles inside atoms) are released at its surface.

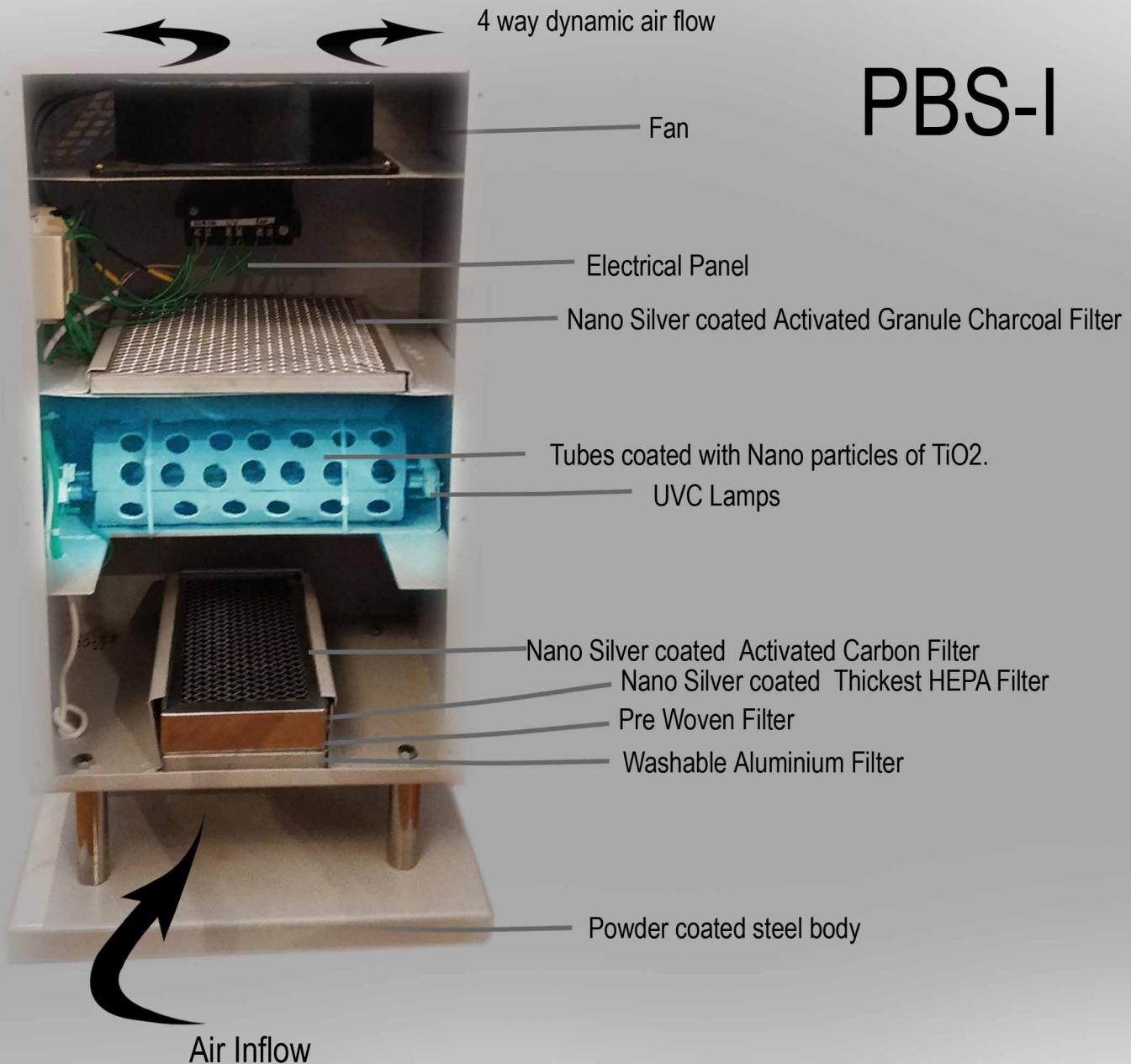
The electrons interact with water molecules (H_2O) in the air, breaking them up into hydroxyl radicals (OH), which are highly reactive, short-lived, uncharged forms of hydroxide ions (OH^-).

These small, agile hydroxyl radicals then attack bigger organic (carbon-based) pollutant molecules, breaking apart their chemical bonds, breaking their cellular structure apart and destroying both the intracellular mass and DNA/HNA/RNA chromosomes and turning them into harmless substances such as carbon dioxide and water.

How do we get results...



The air is then passed through the Activated Granule Charcoal Filter (impregnated with Nano Particles of Silver) which will absorb the gases and odour





Website : www.newconlab.in

TEST CERTIFICATE

WORK ZONE MONITORING AND ANALYSIS REPORT

TEST REPORT NO : NCL/PULI/5032/003/11/01-2020 DATE OF REPORT : 15-01-2020 Page 1 Of 1

Name And Address Of Customer
PULIRE BIOSYSTEM PVT.LTD
PRADHAN CHOWK,COMMERCIAL SHOP NO.02,BALGIRI
ROAD,SADARPUR,SECTOR-45,NOIDA , G B NAGAR,UTTAR PRADESH,

Analysis Start Date : 11-01-2020 Analysis End Date : 15-01-2020
Date Of Sampling : 10-01-2020 Sampling Done By : NCL
Time Of Sampling : 10:30 To 18:30
Equipments Used : Handy Sampler (APM-820),

Sampling Location : WORK SHOP AREA (GROUND FLOOR)-Before Pulite(Sanitiser/Steriliser & Purifier)
Sample Duration : 8-Hrs Sample Flow Rate : 2.0 LPM
Sampling Protocol : IS:5182(Part-5) As Per CPCB Ambient Temperature : INSIDE 22°C

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Permissible Limit Of Exposure As Per Factory Act
1	Sulphur Dioxide (SO ₂)	mg/m ³	IS:5182(Part 2)	0.038	5.0
2	Nitrogen Dioxides (NO ₂)	mg/m ³	IS:5182 (P-6)	0.057	6.0
3	Hydrogen Sulphide	µg/m ³	Vol.Method	N D (D.L=0.1)	14

N.D=NOT DETECTED ,D.L=DETECTION LIMIT
Remark : * Limit For Particulate Matters, Size Less Than 10µm(PM₁₀) =100µg/h (For 24 Hrs.) As Per CPCB in Ambient Air Quality **** End Of Report****

FOR NEWCON CONSULTANTS & LABORATORIES
INTEKHAB KHAN M.Sc.(Env. Science)
CHECKED BY
PREPARED BY
AUTHORIZED SIGNATORY

NOTE : 1. The Results reported above pertains to the Tested parameters only. Endorsement of the same is neither inferred nor implied. 2. All disputes subject to GHAZIABAD JURISDICTION. 3. The Report shall not be reproduced except in full without the permission of CHIEF ANALYST. 4. Our liability is limited to invoiced value only.
Laboratory : 8th K.M. Stone, NH-58, Delhi Meerut Road, Mota (Opp. Manan Dham Mandir) GHAZIABAD - 201 003 (U.P.) Telefax : (0120) 2675225, Mobile : 9810430345
E-mail : info@newconlab.in, newconlab@gmail.com



Website : www.newconlab.in

TEST CERTIFICATE

WORK ZONE MONITORING AND ANALYSIS REPORT

TEST REPORT NO : NCL/PULI/5032/018/13/01-2020 DATE OF REPORT : 16-01-2020 Page 1 Of 1

Name And Address Of Customer
PULIRE BIOSYSTEM PVT.LTD
PRADHAN CHOWK,COMMERCIAL SHOP NO.02,BALGIRI
ROAD,SADARPUR,SECTOR-45,NOIDA , G B NAGAR,UTTAR PRADESH,

Analysis Start Date : 13-01-2020 Analysis End Date : 16-01-2020
Date Of Sampling : 12-01-2020 Sampling Done By : NCL
Time Of Sampling : 10:40 To 18:40
Equipments Used : Handy Sampler (APM-821),

Sampling Location : WORK SHOP AREA (GROUND FLOOR)-After Pulite(Sanitiser/Steriliser & Purifier)
Sample Duration : 8-Hrs Sample Flow Rate : 2.0 LPM
Sampling Protocol : IS:5182(Part-5) As Per CPCB Ambient Temperature : INSIDE 21°C

TEST RESULT

S.No.	Parameter	Unit	Protocol	Result	Permissible Limit Of Exposure As Per Factory Act
1	Sulphur Dioxide (SO ₂)	mg/m ³	IS:5182(Part 2)	0.005	5.0
2	Nitrogen Dioxides (NO ₂)	mg/m ³	IS:5182 (P-6)	0.008	6.0
3	Hydrogen Sulphide	µg/m ³	Vol.Method	N D (D.L=0.1)	14

N.D=NOT DETECTED ,D.L=DETECTION LIMIT
Remark : * Limit For Particulate Matters, Size Less Than 10µm(PM₁₀) =100µg/h (For 24 Hrs.) As Per CPCB in Ambient Air Quality **** End Of Report****

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E-mail : info@newconlab.in, newconlab@gmail.com



TEST CERTIFICATE

MICROBIOLOGY SAMPLE ANALYSIS REPORT

TEST REPORT NO. NCL/WHN/5033/073/27/12/2019 DATE OF REPORT: 02/01/2020

Name and Address of Customer
WALIA NURSING HOME,
G-60, MAIN VIKASH MARG , LAXMI NAGAR ,NEW DELHI-110092

Analysis Start Date : 27/12/2019 Analysis End Date : 02/01/2020
Sampling Date : 27/12/2019 Sampling Duration : 60 Minute
Sampling Method : ISO:14698 (Plate Exposure Method) Sample Description : Indoor Air Quality After Pulite (Sanitizer/Sterilizer & Purifier)
Sampling Done BY : NCL

TEST RESULT

Sl.No.	Parameter	Unit	Protocol	Result
1	Total plate count	Cfu/plate	IS:5402	11
2	Coliform Count	Cfu/plate	IS: 5401	Absent
3	E.coli	Cfu/plate	IS:5887 (1)	Absent
4	Yeast & Mould count	Cfu/plate	IS:5403	Absent

*** End of Report ***

FOR NEWCON CONSULTANTS & LABORATORIES
INTEKHAB KHAN M.Sc.(Env. Science)
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E-mail : info@newconlab.in, newconlab@gmail.com



TEST CERTIFICATE

MICROBIOLOGY SAMPLE ANALYSIS REPORT

TEST REPORT NO. NCL/WHN/5033/020/25/12/2019 DATE OF REPORT: 30/12/2019

Name and Address of Customer
WALIA NURSING HOME,
G-60, MAIN VIKASH MARG , LAXMI NAGAR ,NEW DELHI-110092

Analysis Start Date : 25/12/2019 Analysis End Date : 30/12/2019
Sampling Date : 25/12/2019 Sampling Duration : 60 Minute
Sampling Method : ISO:14698 (Plate Exposure Method) Sample Description : Indoor Air Quality Before Pulite(Sanitizer/Sterilizer & Purifier)
Sampling Done BY : NCL

TEST RESULT

Sl.No.	Parameter	Unit	Protocol	Result
1	Total plate count	Cfu/plate	IS:5402	60
2	Coliform Count	Cfu/plate	IS: 5401	5
3	E.coli	Cfu/plate	IS:5887 (1)	Absent
4	Yeast & Mould count	Cfu/plate	IS:5403	8

*** End of Report ***

FOR NEWCON CONSULTANTS & LABORATORIES
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E-mail : info@newconlab.in, newconlab@gmail.com

BENEFITS OF OUR STERILISATION SYSTEM

Airborne pathogens can be deadly for immunocompromised individuals, so air/room sterilization systems play an important preventive role and that can be achieved with the help of our sterilisation system.

Pulire will eliminate Airborne Viruses, Bacteria, Fungi and Bacterial Spores, Mold , Pollen etc.

99.99% Sterilisation of Fungus

Pulire kills influenza virus, corona virus, polio virus , etc. It sterilises the respiratory viruses as well as fungus which is difficult to disinfect.

99% removal of Toxic and Obnoxious Gases

By using Hydroxyl Radicals and the Activated Charcoal Filter, impregnated with Nano Particles of Silver, Pulire removes foul odour and toxic gases with the removal rate achieved at **SO₂:99% and NO₂:98% respectively**

99.9% removal of Ultra Fine Dust Particles

Pulire traps ultrafine particles which causes pulmonary disease bring PM 2.5 and PM 1.0 to 40 and 5 micrograms per cubic meter in a short period of time. Further removal is also possible if run for longer period of time. HEPA Filters used has 99.9% removal capacity of fine dust.

Strongest Oxidising Agent: Our system generates Hydroxyl Radicals which is much more stronger than other disinfectants. For instance the Oxidation Potential (electron-volt) of Hydroxyl Radical is 2.85 while that of Hydrogen Peroxide is 1.77 and Ozone is 2.07

COMPARISON WITH OTHER SYSTEMS

- A much superior system in comparison to Ionisers which do not remove the pathogens and dust particles. They simply make them settle on surfaces
- The Hydroxyl Radicals have a life of nano seconds and are not released into the air
- The Pulire Equipment can be customised as per the need of the Healthcare Facility depending upon the level of contamination and area coverage.
- It is light weight , durable and energy efficient
- Longer lifespan of filters
- Highly Cost effective both in terms of capital cost and operating cost

***WE CARE FOR
INDIA'S HEALTH***



Fitness Centre



Medical



Kindergarten



Hospitality



Offices



Educational



Residence



Server Rooms

Manufactured by: Pulire Biosystems Pvt Ltd

**Phone: +91 7291847711, 7838450300
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+91 120 4324613, 4562629**

email id: pulirebiosystems@gmail.com

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website: www.pulire.in

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