

Blue Star Pure Air

The purity of the hills. In your room.



Blue Star, India's leading airconditioning and refrigeration company for over 7 decades now, brings you more than just state-of-the-art, energy-efficient AC&R solutions.

A range of state-of-the-art accessories from Blue Star now also ensures that you are not only comfortable but that you breathe clean air too within your conditioned space.

Blue Star's Air Purifier, Pure Air, is one such cutting edge product that helps you, your family and your office colleagues breathe in only what nature intended – pure air – and not dust, pollutants, viruses and bacteria!

Purifying the air in a conditioned space by installing Blue Star Pure Air can remarkably improve the health of its inhabitants. And productivity in an office.

Why an Air Purifier

Most of us spend over 90% of our time indoors, either at home, at work or at entertainment centres. Indoor air is considered 5 times more polluted than outdoor air since the enclosed space captures and retains pollutants such as bacteria and viruses, besides smoke particles and stale air.

The WHO estimates that 30 percent of all buildings have poor Indoor Air Quality (IAQ).

Poor IAQ is a leading cause of respiratory ailments and diseases. Exposure to various components such as VOCs increases the likelihood of experiencing symptoms of the Sick Building Syndrome (SBS). Common symptoms of SBS are headache, fatigue, sinus congestion, cough, sneezing, skin irritation, dizziness, nausea, eye, nose and throat irritation.

Blue Star Pure Air helps maintain high IAQ by removing the impurities in the air, eventually improving the health of the occupants and increasing productivity at work.

Application areas

Blue Star Pure Air can be used in:

- Residences
- Offices
- Hotel rooms
- Restaurants
- Classrooms
- And all other public and private places



Blue Star Pure Air performs 3 functions

1. Purification
2. Refresh
3. Humidification



1. Purification: Pure Air has efficient filtration system which cleans polluted air in 4 stages.

Stage I: The pre-filter catches big particles like dust and hair. This filter also inhibits disease-causing germs.

Stage II: The electrostatic filter eliminates smoke quickly and efficiently.

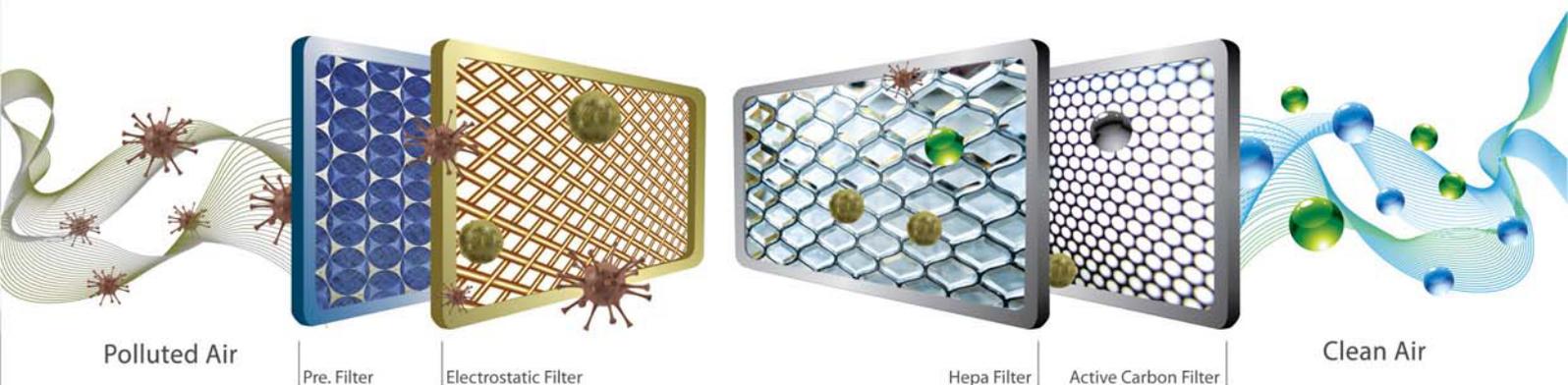
Stage III: The HEPA filter removes ultra-fine particles down to 0.3 microns ensuring refreshing indoor air.

Stage IV: The active carbon filter effectively removes ammonia, acetic acid, odours and harmful gases in the air.

2. Refresh:

The **Plasma** function in Pure Air releases clusters of ions to break down the bacteria, moulds, viruses and dust mites to get rid of them.

What's more, the **Negative Ion** function releases negative ions to refresh the room and make the air pure like nature intended it to be.



3. Humidification

Evaporative Humidifying technology maintains air humidity in the room at a comfortable level of between 55 to 65% RH (depending upon the temperature of the room). This not only adds to the comfort but also increases the efficiency of air purification since water particles bind to the plasma cluster ions.



Smart Operation

Fully Automatic Operation ensures smooth functioning. The in-built sensor measures air quality in the room and automatically selects fan speed for the best air quality.

Dirty Filter Alert LED ensures timely cleaning/replacing of filters.

4-speed Fan allows adjustment to suit any need – from 'Silent' when quiet maintenance operation is desired, to 'High' for quick purification of air.

Sleep Mode saves power and extends the life of filters by automatically adjusting negative ion generation, electrostatic dust removal and humidifying function based on sensed air quality and relative humidity. Fan speed switches automatically between silent and low-speed.

Smart Display

The unit displays all the following conditions:

- | | |
|--|---|
|  Automatic operation |  High speed mode |
|  Auto restart after power failure |  Humidity mode |
|  Off timer |  Plasma / Anion mode |
|  Sleep mode |  Electrostatic mode |
|  Child lock |  Remote operation |

Technical Specifications

Blue Star pure Air Model No GCC240BKNA

Parameter	UoM	Value
Power Supply		1 ph, 220-240 V, 50 Hz
Power input	W	60 W
Rated Current	amp	0.26
Airflow Volume	m3/hr	240
Recommended Area	M2	18
Sound Pressure Level	dB	H/L/M/S : 48/45/40
Humidifying Volume	m3/h	400
Outline Dimension	mm	385 x 278 x 608
Package Dimension	mm	433 x 318 x 667
Net Weight / Gross weight	Kg	11 / 13

Table 1-T-51: Guidelines for Concentration Limits of Selected Air Contaminants of Indoor Origin

Contaminant	Concentration	PPM	Exposure time
Carbon dioxide*	1.8 g/cu m	1000	Continuous
Carbon monoxide	55 mg/cu m	50	8 hr
Chlordane	55 mg/cu m	0.0003	Continuous
Ozone	100 mg/cu m	0.05	Continuous
Radon**	0.027/WL	-	Annual average
Nitrogen dioxide	9 mg/cu m	5	Continuous
Sulphur dioxide	13 mg/cu m	5	
Total suspended particulates = 100 µg/cu m, 1 hr			

* Threshold value -- 600 ppm (NIOSH)

** 3200 picocuries

Table 1-T-52: Sources, Possible Concentrations, and Indoor to Outdoor Concentration Ratios of some Indoor Pollutants

Pollutant	Source of Indoor Pollution	Possible Indoor Concentration*	I/O concentration Ratio	Location
Carbon monoxide	Combustion equipment engines, faulty heating systems	100 ppm	>>1	Skating rinks, offices, homes, cars, shops
Respirable particles	Stoves, fireplaces, cigarettes, condensation of volatiles, aerosol sprays, resuspension, cooking	100 to 500 microgram/m ³	>>1	Homes, offices, cars, public facilities, bars, restaurants
Organic vapours	Combustion, solvents, resin products, pesticides, aerosol sprays	NA	>1	Homes, restaurants, public facilities, offices, hospitals
Nitrogen dioxide	Combustion gas, stoves, water heaters, driers, cigarettes, engines	200 to 1000 micrograms/m ³	>1	Homes, skating rinks
Sulphur dioxide	Heating systems	20 micrograms/m ³	<1	Removal inside
Total suspended particles without smoking	Combustion, resuspension, heating systems	100 microgram/m ³	1	Homes, offices, transportation, restaurants
Sulphate	Matches, gas stoves	5 microgram/m ³	>1	Removal inside
Formaldehyde	Insulation, product binders, particle boards	0.05 to 1.0 ppm	>1	Homes, offices
Radon and Progeny	Building materials, ground water, soil	0.1 to 200 nCi/m ³	>>1	Homes, buildings
Asbestos	Fireproofing	<10 ⁶ fibres/m ³	1	Homes, schools, offices
Mineral and synthetic fibres	Products, cloth, rugs, wallboard	NA	-	Homes, schools, offices
Carbon dioxide	Combustion, humans, pets	3000 ppm	>>1	Homes, schools, offices
Viable organisms	Humans, pets, rodents, insects, plants, fungi, humidifiers, airconditioners	NA	>1	Home, hospitals, schools, offices, public
Ozone	Electric arcing	20 ppb	<1	Airplanes
	UV light sources	200 ppb	>1	Offices

*Concentrations listed are only those reported indoors. Both higher and lower concentrations have been measured. No averaging times are given. NA indicates it is not appropriate to list a concentration.



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