GPS®

IDF-2™

GPS Air IDF-2™

The IDF-2 is a low-profile, quiet operation ceiling tile fan with NPBI™ technology directly integrated. The unit is designed to fit into commercial drop/suspended ceilings using a standard 24" x 24" tile footprint. With a high efficiency brushless fan motor in combination with a revolving diffuser, the IDF-2 ensures an even introduction of ions for optimal in-space concentration levels. The IDF-2 is easy to install and ideally suited to spaces such as conference rooms, classrooms, healthcare waiting rooms and open plan offices.

Learn More

IDF-2

Third-Party Validated Pathogen Reduction

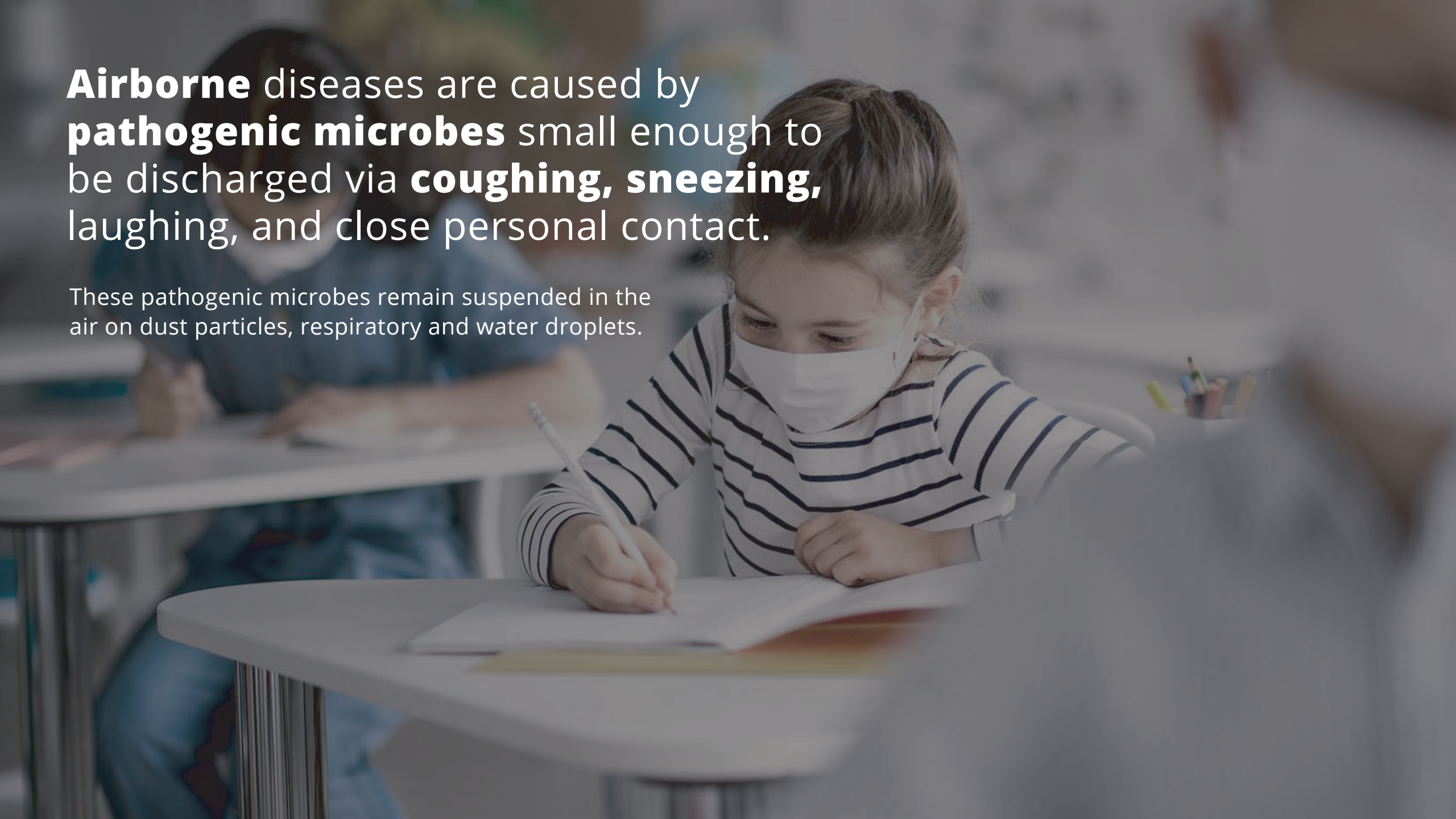
With GPS Air's NPBI™ soft ionization, the UL 2998 compliant IDF-2 effectively delivers ions into the space. Third Party testing results of the IDF-2 show pathogen reduction of SARS-CoV2 and Influenza A.

Quiet Operation

Avoid disruptive noise. The IDF-2 operates at low sound levels, avoiding disruptive noise that may otherwise impact productivity.

Optimized Ion Distribution

Independent of HVAC systems and ideally suited to large spaces, a drop ceiling mounted IDF-2 distributes ions over an area up to 1,500 sq ft.

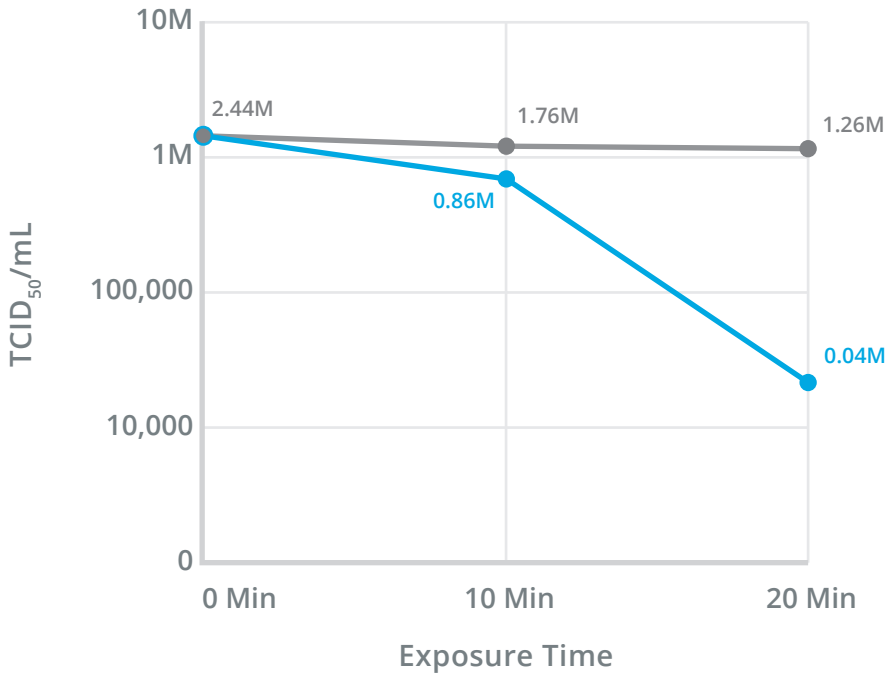


Airborne diseases are caused by **pathogenic microbes** small enough to be discharged via **coughing, sneezing,** laughing, and close personal contact.

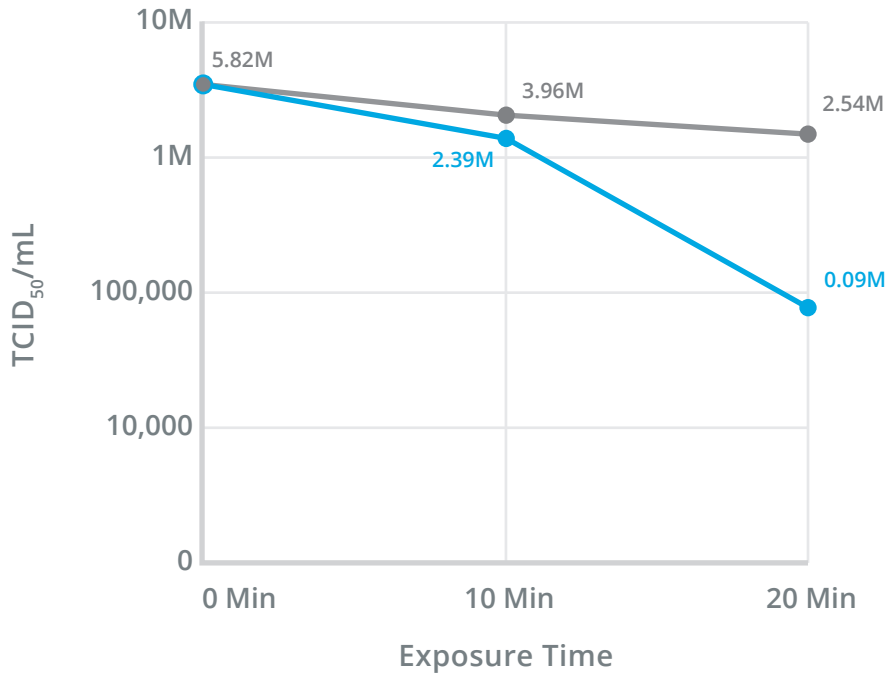
These pathogenic microbes remain suspended in the air on dust particles, respiratory and water droplets.

High Performance

SARS-CoV-2 Reduction
(High Speed)



Influenza A Reduction
(High Speed)



Control IDF-2 Experiment Avg.

96.71% Net Reduction in 20 Minutes

96.08% Net Reduction in 20 Minutes

*Visit gpsair.com/disclaimers for more information. For Third-Party test reports, visit gpsair.com/third-party-testing

Noise pollution in the workplace **impacts** the concentration and productivity of **69% of employees** globally.

Psychologist Nick Perham, who studies the effect of sound on how we think, has found that noise in the office impairs workers' ability to recall information, and even to do basic arithmetic.

Quiet Operation

Unlike typical in-room air cleaners, all IDF-2 modes operate at sound levels within, and in some cases even below stringent application standards. This means full functionality without the disruption.

Application Space Type	Acceptable Sound* Level (dB_A)
Offices	35-40
Conference Rooms	35-40
Lecture & Classrooms	35-40
Libraries	40-50
Hospitals & Clinics	35-50
Hotels & Motels	35-55

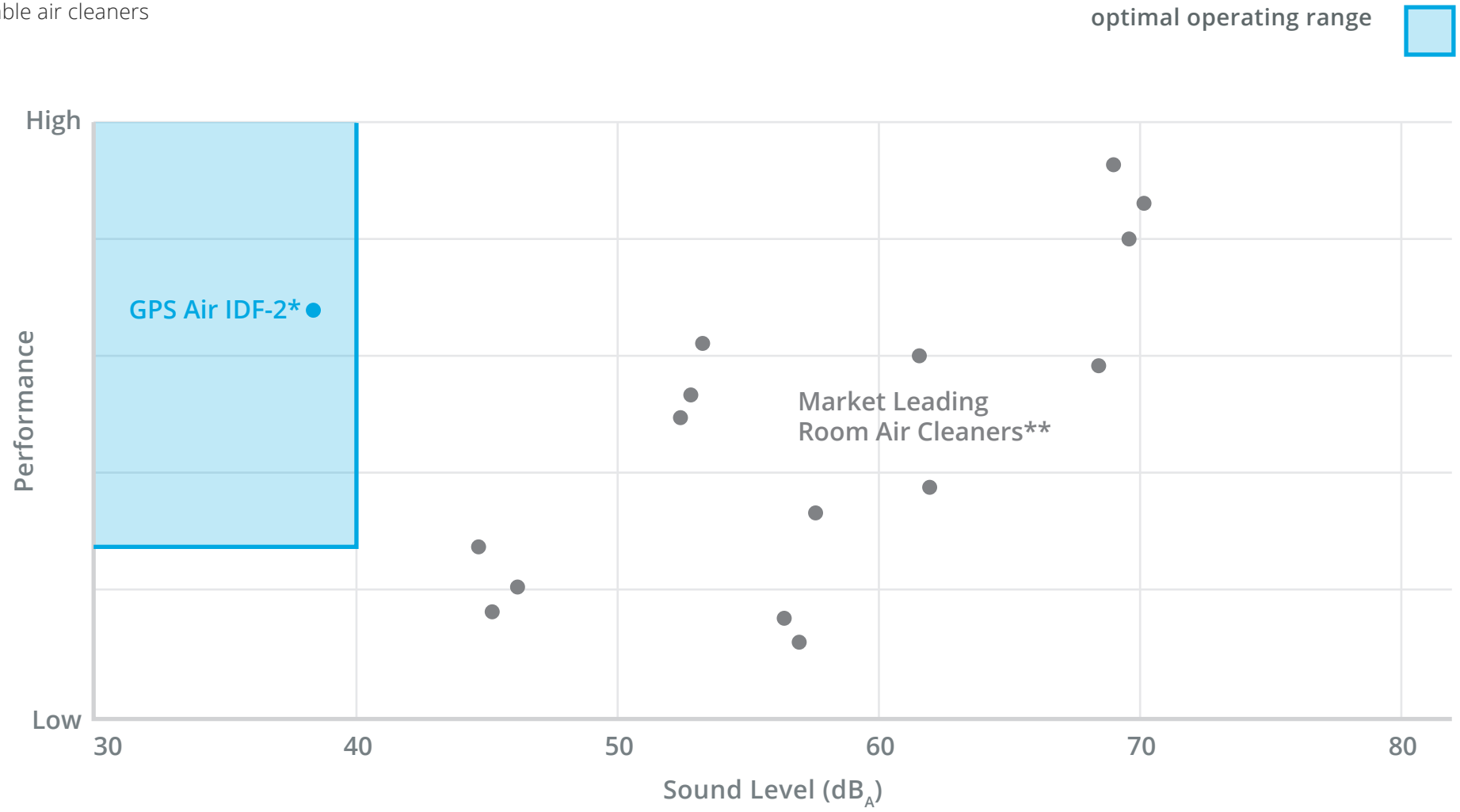
*Engineering ToolBox, (2004). NC - the Noise Criterion.
Available at: https://www.engineeringtoolbox.com/nc-noise-criterion-d_725.html

IDF-2 Operation Mode	Measured Sound ** Level (dB_A)
High	38
Medium	37
Low	34
Off (ambient/background noise in test room)	30.5

**IDF-2 sound levels measured at a distance 2 meters from the product

Performance and Sound

Better than portable air cleaners



*Relative performance based on eCADR rating (at high speed) established through SARS-CoV-2 third-party testing - reference data available upon request

**Based on portable room unit manufacturer CADR ratings for removal of cigarette smoke particles (i)

(i) https://cleanairstars.com/filters

NPBI™ Technology

Through our needlepoint bipolar ionization or NPBI technology within the IDF-2, we help clean indoor air while producing neither harmful levels of ozone nor other byproducts. This is done through our optimized soft ionization products with the following features.

Carbon Fiber Emitters

Maximize ion output across thousands of small radii needlepoints, without the production of ozone (certified UL2998 compliant).

Soft Ionization

A lower voltage is able to be applied to the carbon needles to promote soft ionization

Auto-Cleaning Products

Built-in emitter cleaners across our product line ensure consistent production of ions with zero maintenance required

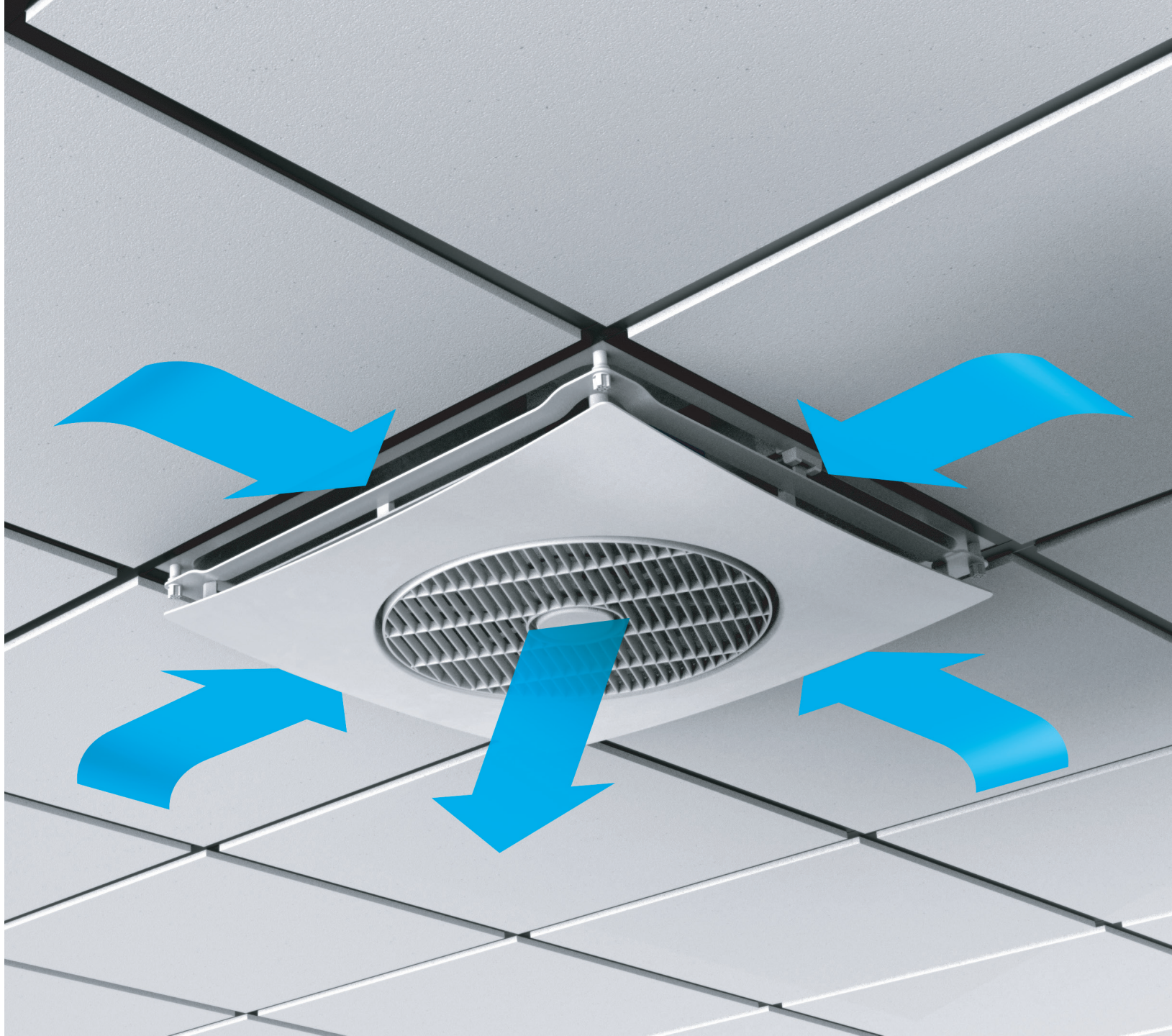
About NPBI

In-Space Ion Production

The IDF-2 produces average ion density levels greater than 20,000 combined ions/cc over an area of 1,500 sq ft. When mounted to the ceiling, the IDF-2 offers a number of potential benefits including:

- Even ion distribution when placed in a central location
- Avoiding physical spatial disruptions in the environment in comparison to floor units
- Multiple settings to optimize comfort
- Being independent from an HVAC system affords the opportunity to install in buildings with poor/no HVAC systems in a cost effective manner.
- Rotating diffuser circulates air, adding the benefit of destratification while evenly disributing ions.

View Manual



Input Voltage (Standard)	120–240 VAC
Power Consumption	12W (standard operation), 15W (cleaning cycle)
Frequency	50/60HZ
Coverage Area (installed on 9ft ceiling)	1,500 sqft
Average Ion Density in Coverage Area	>20,000 ions/cc (combined +/- ions)
Sound Level in dB(A) (L/M/H)	34 / 37/ 38 dB(A) at 2 meters
Noise Criterion (L/M/H)	NC-34

Temperature Range	32°F to 104°F
Humidity Range	20–90% RH (non-condensing)
Airflow Capacity	225 CFM (default med setting)
Unit Dimensions	23.75"L x 23.75"W x 7.1"H (3.2"H below ceiling)
Weight	11.5 lbs
Electric Approvals	UL, cUL
Compliance & Certifications	UL 867, UL 2998, CARB

*DISCLAIMER: GPS Air uses multiple data points to formulate performance validation statements. GPS Air technology is used in a wide range of applications across diverse environmental conditions. Since locations will vary, clients should evaluate their individual application and environmental conditions when making an assessment regarding the technology's potential benefits. The GPS Air products have not been evaluated by the FDA as medical devices and, therefore, are not intended to treat, cure, or prevent infections or diseases caused by certain viruses or bacteria.

The use of this technology is not intended to take the place of reasonable precautions to prevent the transmission of disease. It is important to comply with all applicable public health laws and guidelines issued by federal, state, and local governments and health authorities as well as official guidance published by the Centers for Disease Control and Prevention (CDC), including but not limited to social distancing, hand hygiene, cough etiquette, and the use of face mask