Jupitair:

Industrial Air Purifier datasheet

About

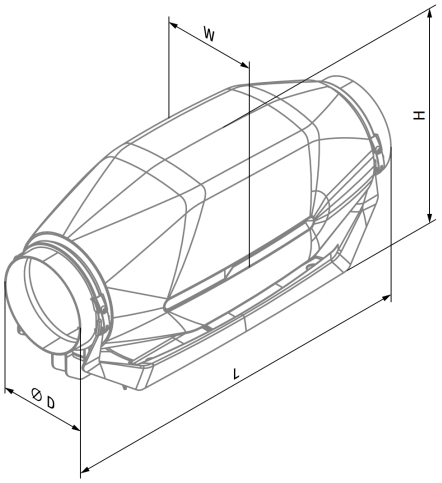
This document outlines the finalized specifications for Jupitair, an industrial air purification device developed by NanoSci. It provides an overview of the device's key parameters, serving as a basis for exploring applications beyond its primary intended use.

Features

- High efficiency in removing volatile organic compounds (VOCs), inorganic compounds, bacteria, viruses, and fungi from the air thanks to the use of photocatalytic engines with three patented layers of Nanosci Air Purify ECO White™.
- PZH certificate issued by the National Institute of Public Health – National Institute of Hygiene in Poland, confirming the safety of the Nanosci Air Purify ECO White™ layer.
- Compatible with air ducts of diameters ⌀ 100, 125, 150, and 160 mm.
- Mounting brackets on the fan housing for installation on the floor, wall, or ceiling.
- Housing made of high-quality, durable plastic.
- Single-phase high-performance motor with low energy consumption, equipped with ball bearings.
- Overheating protection via built-in thermal switch.

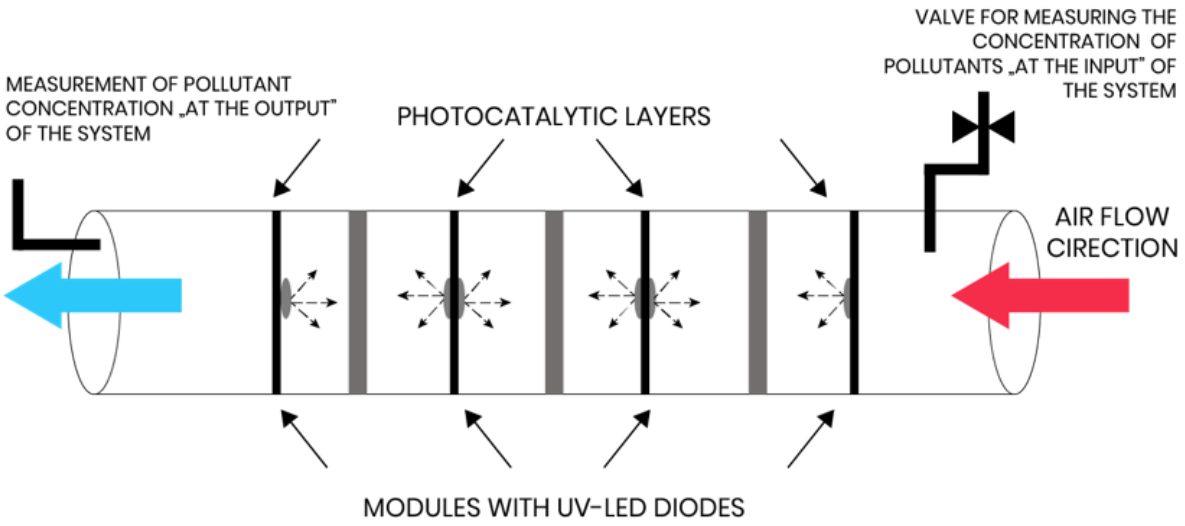
Applications

- Removal of VOCs (volatile organic compounds) and inorganic compounds in enclosed spaces.
- Air disinfection.
- Elimination of unpleasant odors (e.g., foul smells).



Specification:

PARAMETERS	Jupitair
SKU	NS-JR-001-UV-100
AIRFLOW	100 m^3/h
TYPE OF AIR PURIFIER	OPFE - One pass filtration for disinfection and atmospheric pollutants
POWER	92 W
VOLTAGE	230 [V, 50Hz]
PHOTOCATALYTIC ENGINE POWER	3 x 24W
PHOTOCATALYTIC LAYER EXTIATION WAVELENGTH	365 nm
LED MODULE LIFETIME	30 000 hours
PHOTOCATALYTIC LAYER LIFETIME	up to 5 years
DEVICE WARRANTY	2 years
IP RATING	IPX4
MAX. TRANSPORTED AIR TEMPERATURE ['	-25…+55 [°C]
IP RATING	IPX4
SPIGOT	150 mm
DIMENSIONS	D: ⌀149 H: 273 L: 606 W: 253 [mm]
WEIGHT	5,2 kg



Declaration of Conformity

Degradation/Reduction Efficiency by Air Velocity and Initial Concentration

AIR VELOCITY (M/S)	SUBSTANCE	INITIAL CONCENTRATION	DEGRADATION /REDUCTION EFFICIENCY
1.8	Toluene	0.3 ppm	100%
1.8	NO	1.2 ppm	100%
1.8	SO_2	0.1 ppm	100%
1.8	Formaldehyde	0.5 ppm	75%
1.8	Pseudomonas aeruginosa bacteria	10^9 CFU/ml	99%
1.5	Toluene	0.5 ppm	100%
1.5	NO	1.2 ppm	100%
1.5	SO_2	0.2 ppm	100%
1.5	Formaldehyde	0.5 ppm	100%
1.5	Pseudomonas aeruginosa bacteria	10^9 CFU/ml	99.99%
~0.9	Ethylene	0.5 ppm	40%
~0.9	Ethylene	0.3 ppm	100%