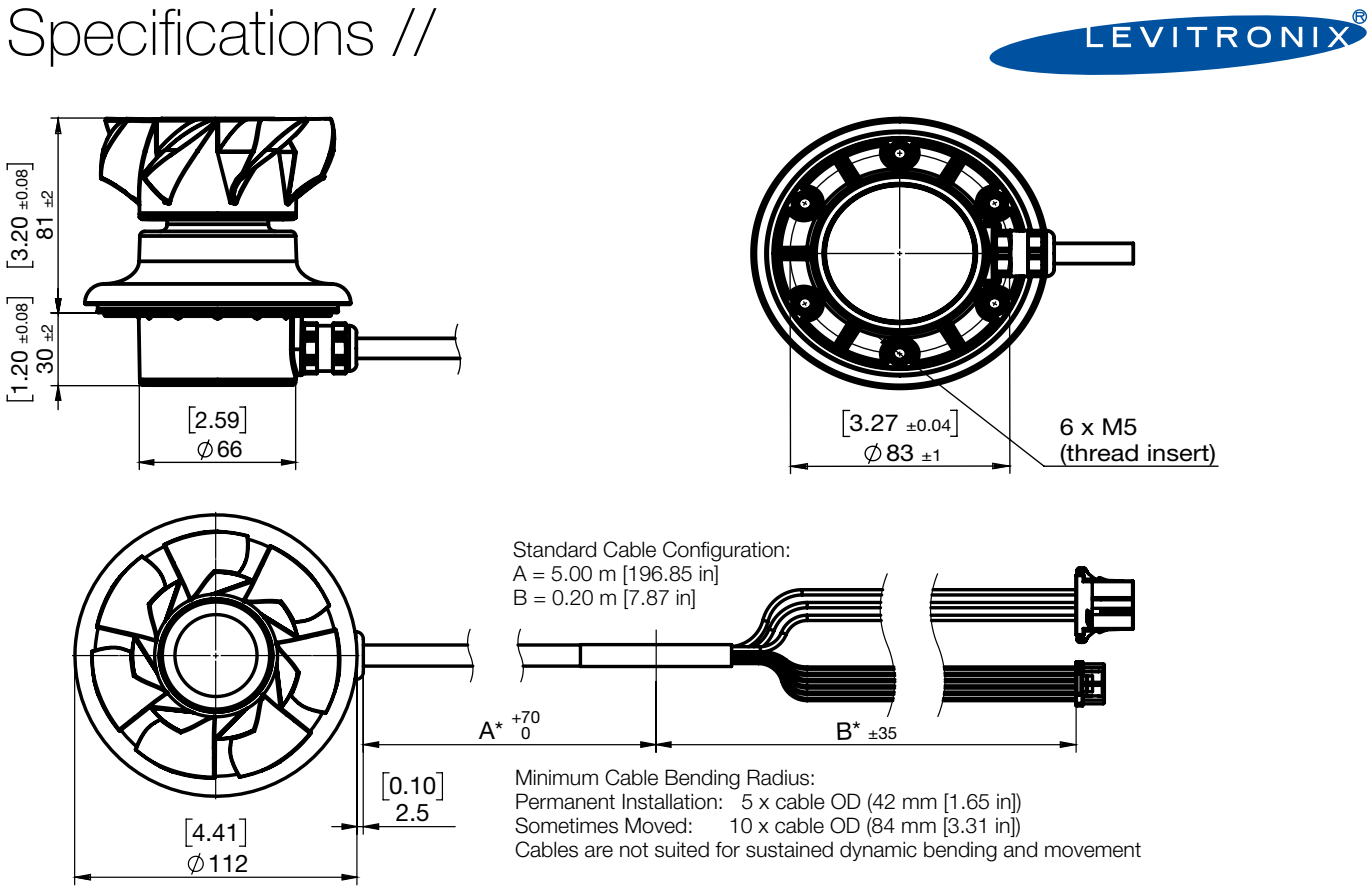


Specifications //



Technical Data //

Voltage, Power Input	48 V DC $\pm 10\%$, 240 W (Option: 24 V DC $\pm 5\%$, 75 W, with reduced max. speed of 8000 rpm)
Temperature Range	Ambient and gas temperature range 0 to 40° C
IP Rating	IP67
Electrical Interfaces	PLC with: 2 analog inputs 4--20 mA / 1 analog output 4-20 mA / 2 digital inputs 0-24 V (optocoupler) 2 digital outputs 0-24 V / 100 mA (open drain) RS485 interface, Modbus protocol (extended control or service through fieldbus or Levitronix Service Software)
Standard Firmware	V3.16x
Mechanical Interface	Mounting hole on bottom of motor, $\phi 96$ mm, mounting ring included
Cable Length	5 m + 0.2 m wires with TE connectors for power and PLC signals
Materials	Polypropylene, Cable: PVC jacket, PVDF bushing
Weight	1.3 kg, 2.9 lb (for 5 m version)

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Creation Date: 2025-02-11 | Last Update: 2025-02-18

LEVITRONIX®
PURO

ACTIVE
ASEPTIC
DISTRIBUTION
OF VHP

BOOST YOUR BIODECON- TAMINATION CYCLE

The Levitronix® PURO MagLev fan is designed for aseptic and powerful distribution of Vaporized Hydrogen Peroxide (VHP).

Based on active magnetic levitation, the fan impeller is suspended in the air and driven by the magnetic field of the motor. The constant gap between rotor and stator ensures that there is no wear and therefore virtually no particle contamination. Unlike conventional fans with a mechanical bearing, there are no lubricants or seals. This makes Levitronix® PURO the only fan technology to be installed in highly critical environments such as Isolators, pharma grad A clean rooms or other aseptic areas.



ADVANTAGES OF LEVITRONIX® PURO

No Particle Contamination //

certified for pharma grade A*

since there is no mechanical contact between fan rotor and motor, there is no wear and therefore no particle contamination

Extremely Powerful //

up to 10'000 rpm

since there is no mechanical bearing and thus no friction, the Levitronix® PURO can be operated at extremely high speeds

Ab- and Desorption Free //

100% high-performance plastic

There is no other material in contact with VHP than non-absorbing* high-performance plastic

No Lubricants or Sealings //

no risk of contamination

Unlike conventional fans with ball or slide bearings, a magnetic bearing does not require lubricants or sealings

Chemically Resistant //

robust against VHP*

There is no other material in contact with VHP than non-absorbing* high-performance plastic

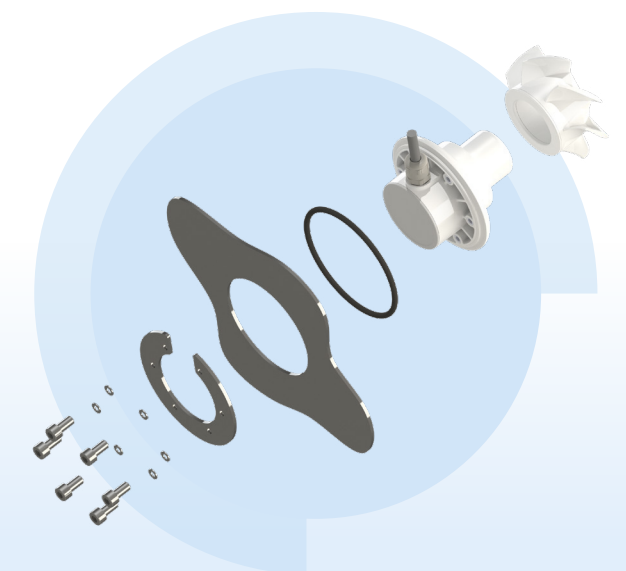
Maintenance-free //

Extremely high reliability

There is no bearing to fail or sealing to wear out which results in highest reliability

Since there is no mechanical bearing, the Levitronix® PURO can be operated at extremely high speeds to ensure VHP decontamination over a wide area and in hard-to-reach areas such as glove boxes or complex filling machines. The fan rotor can be operated at both positive and negative speeds, as well as in fast pulse mode to further increase turbulence. To clean the Levitronix® PURO, the rotor can simply be pulled out and placed back in.

Magnetic field

A 3D cutaway diagram of the Levitronix PURO MagLev fan. It shows a central motor assembly with a fan impeller suspended above it. Red dotted lines with arrows pointing upwards represent the magnetic field levitating the impeller. The entire unit is mounted on a grey base.

The Levitronix® PURO comes with a mounting ring and a screw set, allowing for easy installation into isolator walls