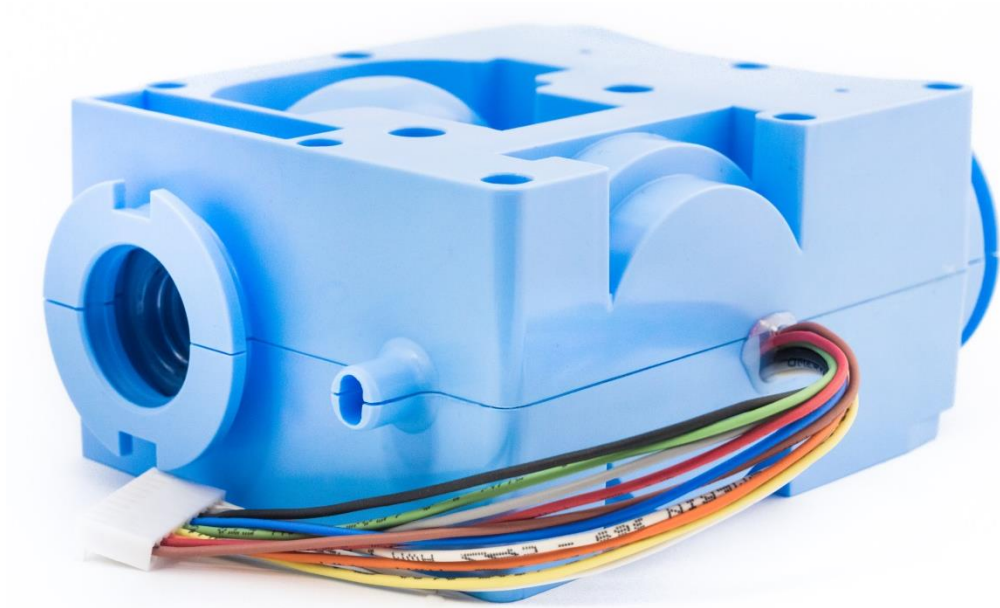


# MFA 0304

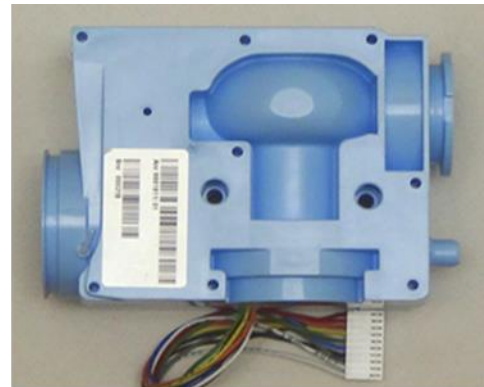
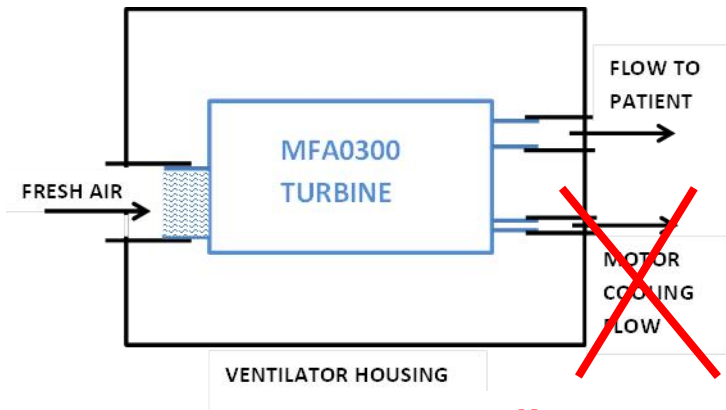


## High performance

A standard AIRFAN blower's architecture with its patented and its unique soundproofing housing.

The MFA0304 is perfectly suited for implementation in ventilators dedicated to Acute, Sub-Acute and Home Care.

The MFA0304 is derivate from MFA0300 with same BLDC Motor but without internal motor cooling.



No motor internal cooling flow

Voltage supply	24 VDC, can be customized
Motor type	Brushless with Hall-effect sensors
(*) Dynamic behaviour (3 A Max)	< 101 ms from 5 hPa to 60 hPa < 53 ms from 5 hPa to 30 hPa
(*) Dynamic behaviour (6 A Max)	< 78 ms from 5 hPa to 60 hPa < 37 ms from 5 hPa to 30 hPa
(*) Dynamic behaviour (10 A Max)	< 68 ms from 5 hPa to 60 hPa < 29 ms from 5 hPa to 30 hPa
Dimensions of casing (mm)	132 x 100 x 61 mm (5.2 x 3.9 x 2.4 Inch)
Weight	0.44 kg (~1.0 Lb)
Position in operation	Any position
Temperature in operation	-20°C to 50°C ambient
Humidity in operation	0 to 95% RH non condensing
Atmospheric pressure in operation	700 to 1100 hPa
Life Time (L10)	> 30 000 hours at Airfan standard conditions

(\*) Behaviour measured with AIRFAN Controller MFA0900

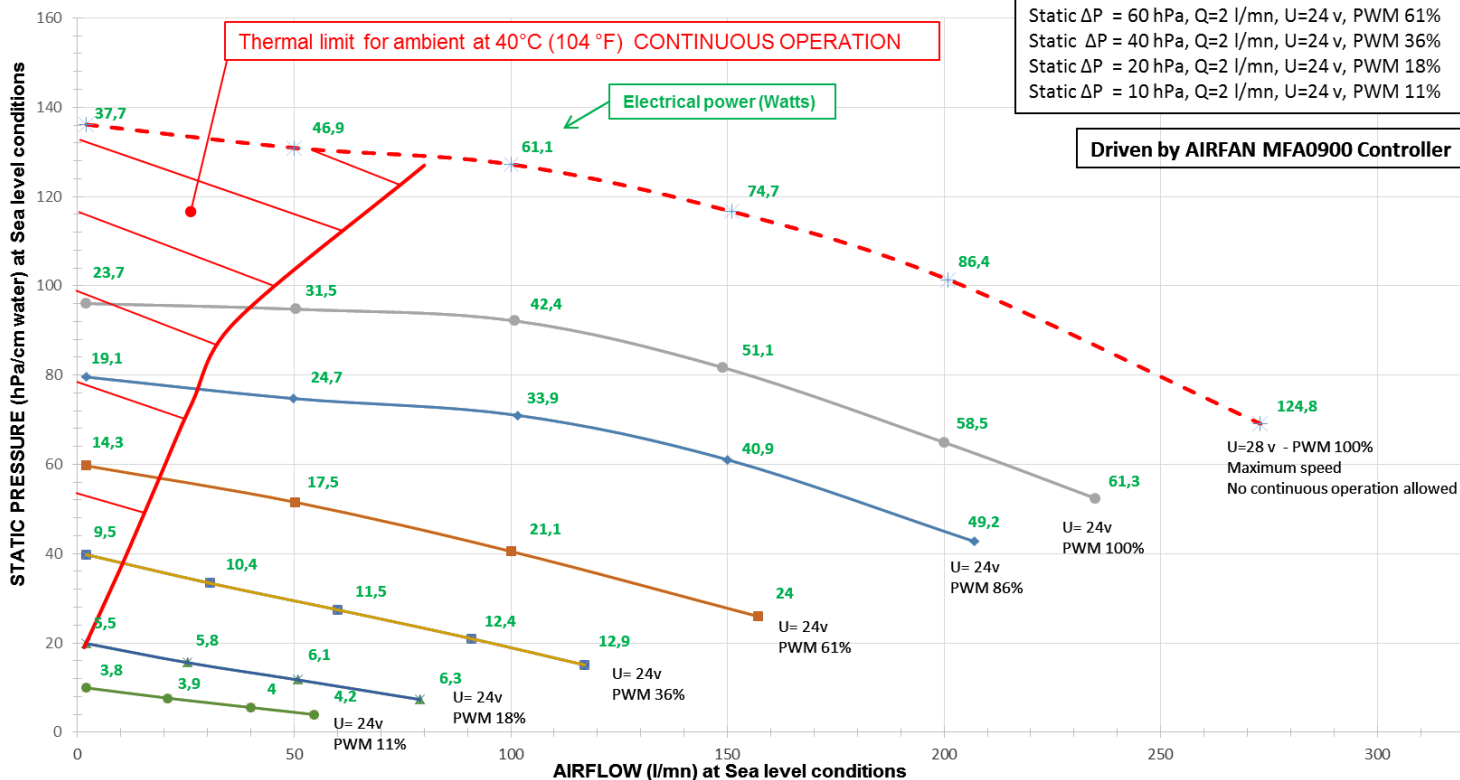
Static ΔP at Zero Flow	Vibration Level	Noise Level W/O Blower Housing at 1m
100 hPa	< 0.18 g	< 46 dBA
50 hPa	< 0.10 g	< 40 dBA
10 hPa	< 0.02 g	< 29 dBA

**MFA0304 Model**

**Static ΔP vs Airflow at Constant PWM and Motor Voltage**

Static ΔP = 136 hPa, Q=2 l/mn, U=28 v, PWM 100%,  
 Static ΔP = 96 hPa, Q=2 l/mn, U=24 v, PWM 100%  
 Static ΔP = 80 hPa, Q=2 l/mn, U=24v, PWM 86%  
 Static ΔP = 60 hPa, Q=2 l/mn, U=24 v, PWM 61%  
 Static ΔP = 40 hPa, Q=2 l/mn, U=24 v, PWM 36%  
 Static ΔP = 20 hPa, Q=2 l/mn, U=24 v, PWM 18%  
 Static ΔP = 10 hPa, Q=2 l/mn, U=24 v, PWM 11%

**Driven by AIRFAN MFA0900 Controller**

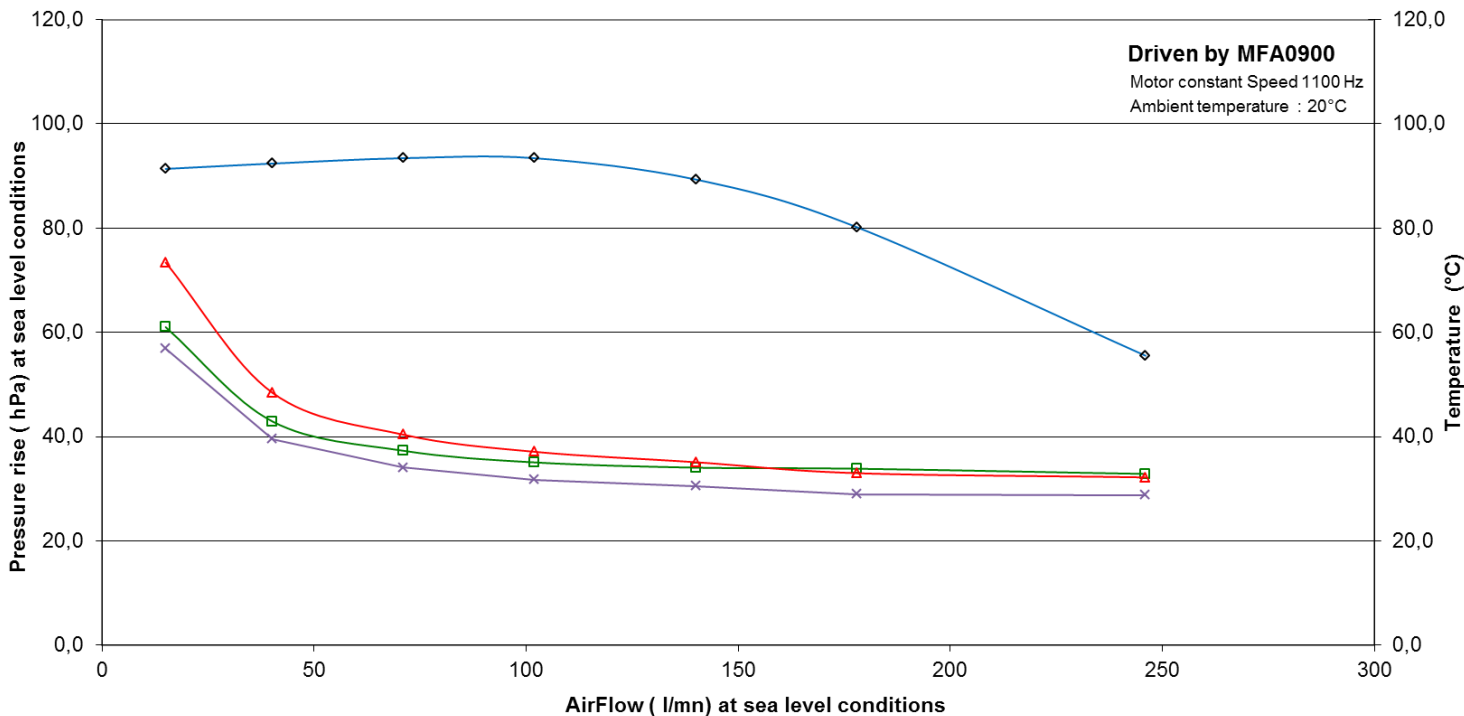


**MFA0304 Model**

**Bearings and PCB Temperature vs Patient Flow at Constant Speed Motor 1100 Hz**

—◆— Pressure rise —■— PCB °C —▲— Front ball bearing °C —×— Rear ball bearing °C

**Driven by MFA0900**  
 Motor constant Speed 1100 Hz  
 Ambient temperature : 20°C



**AIRFAN** is **ISO9001** and **ISO13485** certified and is perfectly suited to meet the quality and cost optimization requirements coming from manufacturers of medical equipment. Tens of thousands of our turbines operate 24 hours/day, 365 days/year at the heart of demanding health care respirators.



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