INNOVATIVE SOLUTIONS
FOR VENTILATORS

AirFan
the breath of performance

MFA0021

Blower Designed for Specific Integration

AIRFAN naked turbine architecture.

The **MFA0021** is designed for implementation in ventilators dedicated to **Home Care, Bi-Level** and **CPAP** using **O_2 injection before the turbine**.

Derived from the **MFA0020** without inner motor cooling system.

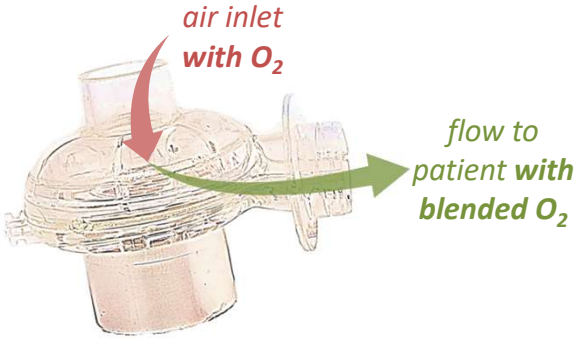
PERFORMANCES

ΔP max @24V	**80** hPa	**fully closed**
Q max @24V	**300** l/mn	**fully opened**
Typical w/p @30 l/mn	**P = 10.0** (W)	**@30** hPa
	P = 19.0 (W)	**@60** hPa
LifeTime (L10)	> 25 000 hours*	
Type	**Naked turbine**	

** LifeTime expectancy based on standard operating conditions*

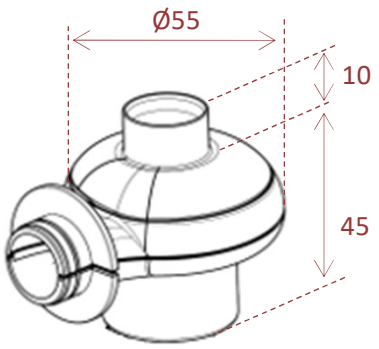
Noise Level*	**< 50 dBa**	@10 hPa
	< 61 dBa	@30 hPa
	< 66 dBa	@60 hPa

** with Blower inlet @1m*



TECHNICAL DATA

Voltage supply	**24 VDC** (nom) | **28 VDC** (max)
Motor type	Brushless without Hall-effect sensors
Dimensions (casing)	**Ø55 x 55 mm** (Ø2.2 x 2.2 in)
Weight	**0.08 kg** (~ 0.17 Lb)
Integration	works in any position/orientation
Temperature	-20 to +50°C ambient
Humidity	0 to 95% RH non condensing
Atmospheric pressure	700 to 1100 hPa
Oxygen compatibility	Yes

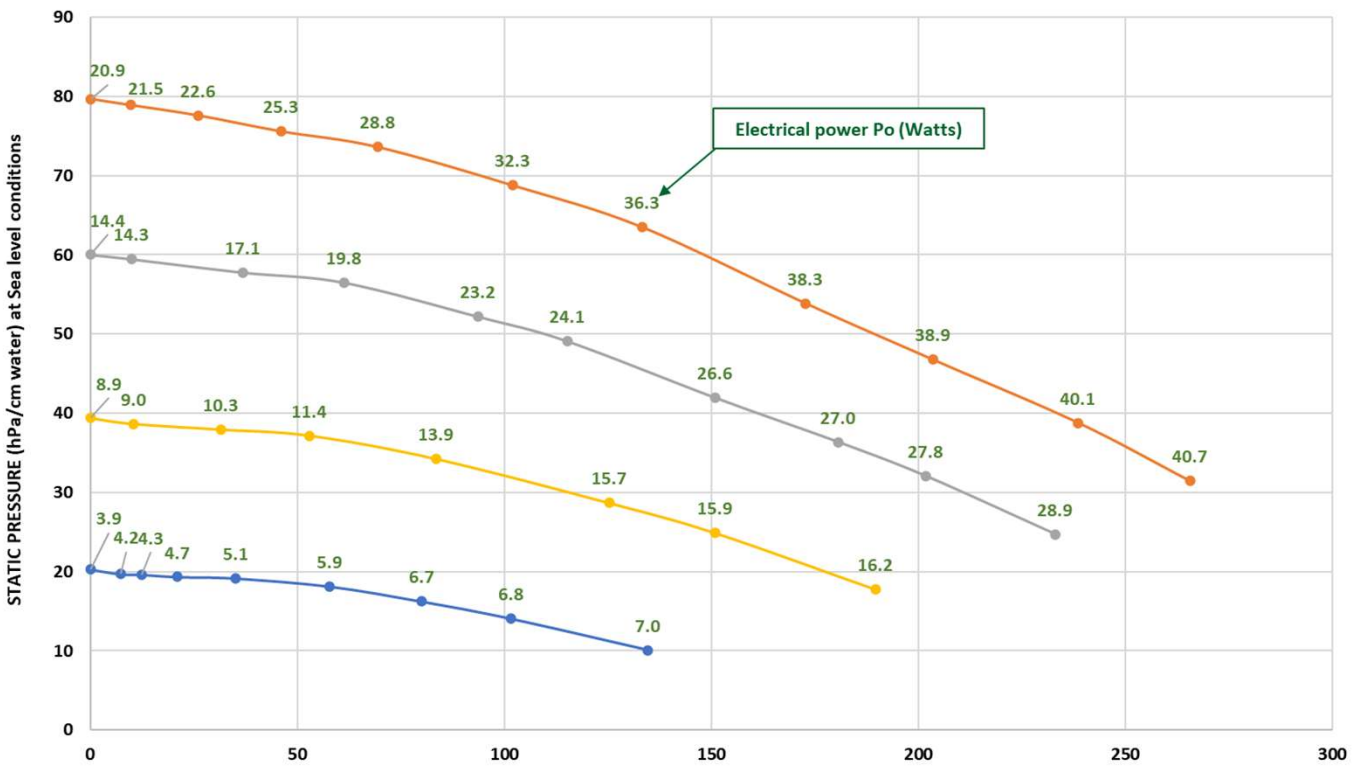


COMPRESSOR MAP

MFA0021 Turbine

Static ΔP vs Airflow at Constant PWM and 24Vdc

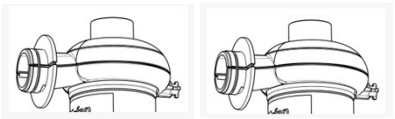
PWM = Pulse Width Modulation



Performance are achieved with AIRFAN sensorless controller and nominal Motor Ke

CUSTOMISATION

☑ with or without **inlet tube**



☑ **Optional wiring harness**

CUSTOMISE TO YOUR SPECIFICATIONS

All values listed are typical values with tolerance classification grade 4 according to standard ISO 13348