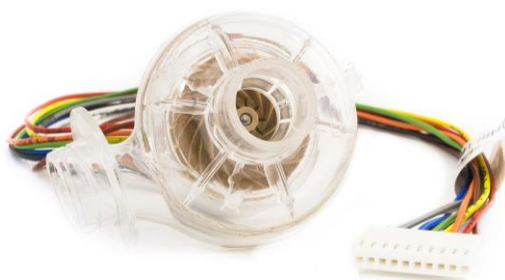# MFA0205

Blower designed for specific integration

A specific blower's architecture with **patented motor cooling system**.
The **MFA0205** is designed for implementation on ventilators dedicated to **Home Care** and **Bi-Level** with a high **dynamic** and **lifetime**.

PERFORMANCES

ΔP max @24V		**78** hPa	**fully closed**
Q max @24V		**280** l/mn	**fully opened**
Typical w/p @30 l/mn		**P = 11.0** (W) **@30** hPa	
		P = 21.3 (W) **@60** hPa	
LifeTime (L10)		**> 40 000** hours*	
Type		**Naked turbine**	

* LifeTime expectancy based on standard operating conditions

Dynamic transient time*	**< 95 ms**	@3A max
	< 88 ms	@6A max
	< 84 ms	@10A max

* from 5 to 60 hPa @30 l/mn

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

* with Blower inlet @1m

air inlet

flow to patient

cooling flow out
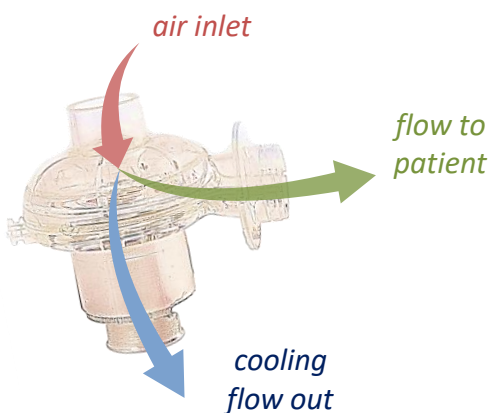
TECHNICAL DATA

Voltage supply	**24 VDC** (nom) | **28 VDC** (max)
Motor type	Brushless with Hall-effect sensors
Dimensions (casing)	**Ø55 x 65 mm** (Ø2.2 x 2.6 in)
Weight	**0.10 kg** ($\sim$ 0.22 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	no

Ø55
10
55
Ø22
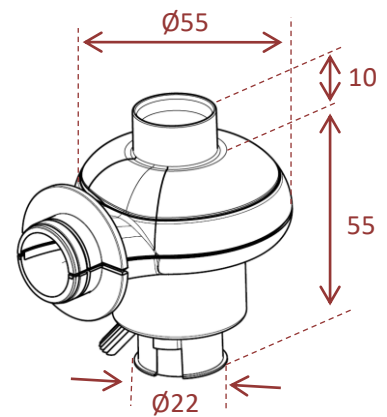
COMPRESSOR MAP

MFA0205 Turbine

Static ΔP vs Airflow at Constant PWM and Motor Voltage
PWM = Pulse Width Modulation

Restricted area depending on your operating conditions
¤ max outlet air T° < 80°C ¤

Electrical power Po (Watts)

34,8
42,7
52,9
59,7
65,0
68,6

24,1
30,6
35,8
40,0
43,4

U=28v PWM 100%
- Maximum Speed -
No continuous operation allowed

U=24v PWM 100%

17,3
22,3
27,0
30,2
31,7

11,3
14,0
15,4
17,8
19,6

U=24v PWM 81%
U=24v PWM 65%

6,4
7,5
8,1
8,8
9,7

4,2
4,6
4,9
5,3

U=24v PWM 44%
U=24v PWM 30%

STATIC PRESSURE (hPa/cm water) at Sea level conditions

AIRFLOW (l/mn) at Sea level conditions - *Performance are achieved with AIRFAN controller MFA0900 and nominal Motor Ke*

CUSTOMIZATION

☑ with or without **inlet tube**

☑ **external suspension** for vibration

☑ **Wire Length** 150mm or **custom**
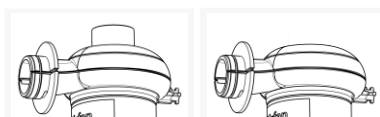
ASK FOR YOUR CUSTOMIZATION

ISO 13485:2016
RoHS COMPLIANT
REACH Compliant
Conflict Minerals
ISO 9001:2015

Airfan
the breath of performance

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