

MFA0296

Blower for Blended or 100% Oxygen

With its **patented motor cooling system independent** from the air inlet flow, this turbine guarantees a **fully homogeneous Air-Oxygen blend**.

The **MFA0296** is specifically designed for high acceleration up to **150 BPM** for **neonate applications**.



designed for high
BPM applications



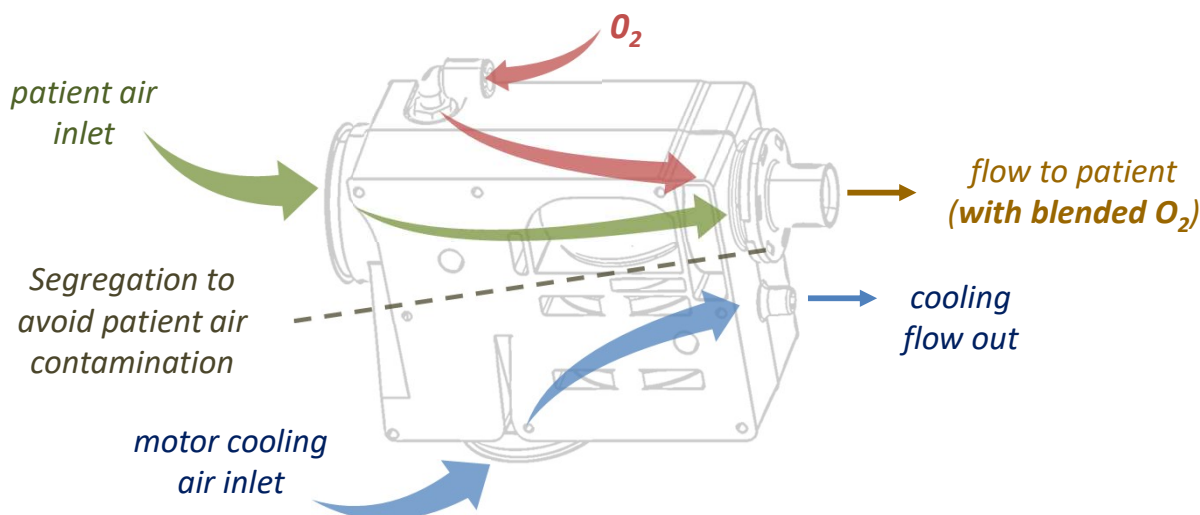
PERFORMANCES

ΔP max @24V		70 hPa	static pressure
Q max @24V		320 l/mn	freeflow
Typical w/p @30 l/mn		P = 10.7 (W)	@30 hPa
		P = 19.9 (W)	@60 hPa
LifeTime (L10)		> 40 000 hours*	
Type		Casing integration	

* LifeTime expectancy based on standard operating conditions

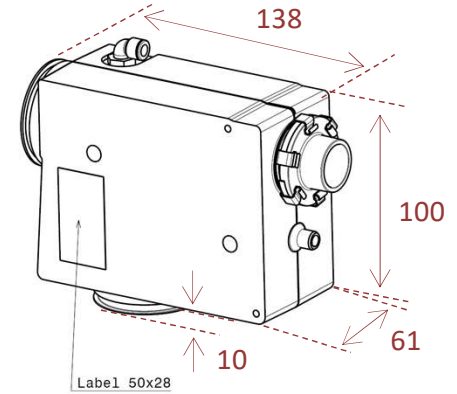
 Dynamic transient time*	< 97 ms	@3A max
	< 92 ms	@6A max
	< 86 ms	@10A max
* from 5 to 60 hPa @30 l/mn		
 Noise Level*	< 29 dBa	@10 hPa
	< 41 dBa	@50 hPa
	< 48 dBa	@100 hPa

* with Blower inlet @1m



TECHNICAL DATA

Voltage supply	24 VDC (nom) 28 VDC (max)
Motor type	Brushless with Hall-effect sensors
Dimensions (casing)	130 x 100 x 61 mm (5.3 x 3.9 x 2.4 in)
Weight	0.45 kg (~ 1.00 Lb)
Integration	works in any position/orientation
Temperature	+10 to +50°C ambient
Humidity	15 to 95% RH non-condensing
Atmospheric pressure	660 to 1060 hPa
Oxygen compatibility	100% O2 compatible

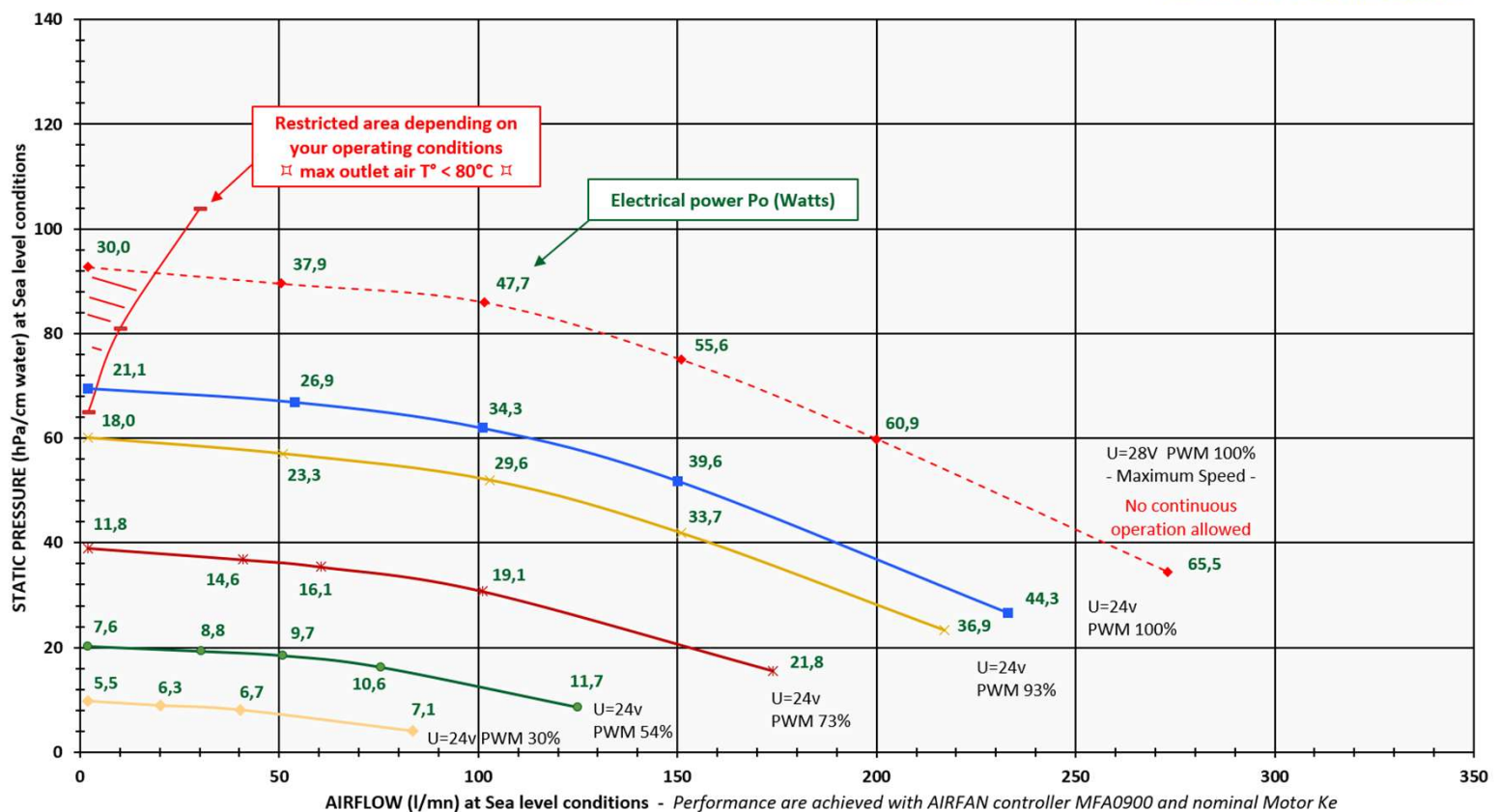


COMPRESSOR MAP

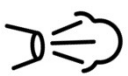
MFA0296 Turbine

Static ΔP vs Airflow at Constant PWM and Motor Voltage

PWM = Pulse Width Modulation



CUSTOMISATION



Outlet port

- ☒ Outlet port male or female connector (22 $\varnothing$ ISO5356-1) or additional auxiliary ports



- ☒ O-ring for air inlet
- ☒ Custom label



- ☒ Inlet filter for motor cooling
- ☒ Wire Length 150 or custom



CUSTOMISE TO YOUR SPECIFICATIONS



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

