

**HIGH PERFORMANCE
CENTRIFUGAL BLOWERS
FOR
RESPIRATORY DEVICES**



AIRFAN DESIGNS AND PRODUCES A FULL RANGE OF PRODUCTS COVERING ALL NEEDS OF THE RESPIRATORY APPLICATIONS

Blower reference	Application	DP max (hPa) at 24VDC*	Q max (L/mn) at 24 VDC*	DP max (hPa) at Max Speed*	Q max (L/mn) at Max Speed*
MFA0500	Intensive, Critical and Home Care + O2 safe	116	380	126 (25V)	400 (25V)
MFA0300	Intensive, Critical and Home Care	98	320	134 (28V)	360 (28V)
MFA0110/114	Home Care Ventilations	85	280	120 (28V)	300 (28V)
MFA0290 (MFA0300 derived)	Home Care Ventilations	86	280	110 (28V)	320 (28V)
MFA0205	Home Care, Bi-Level	86	300	114 (28V)	350 (28V)
MFA0800	Cough Assistance	+/- 85	660	+/- 105 (28V)	750 (28V)

* Performance achieved with AIRFAN motor controller MFA0900.

INNOVATION

AIRFAN is at the origin of and owns many patents coming from its R&D Center which guarantees its customers the best performance available on the market:



- ▶ **Suspension** and soundproofing of centrifugal blowers for respiratory devices.
- ▶ **System** for cooling the electric motor driving the blower.
- ▶ **Separation** of the electrical parts from the patient circuit so that high FiO2 can be used in the respirator.

AIRFAN'S CENTRIFUGAL BLOWERS OFFERING RELIABILITY, HIGH EFFICIENCY, CALM

All of the aerodynamic parts are designed and sized by our team of experts highly experienced in turbo machines. The geometry of all the parts of the blower is optimized to meet the needs of each application. This results in:

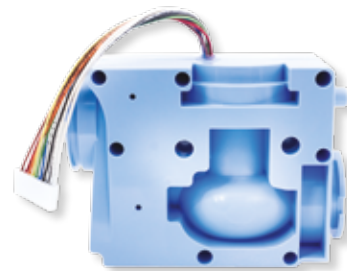
- ▶ **Soundproofed machines.**
- ▶ **Reduced** size of the batteries.
- ▶ **Greatly reduced** weight & dimensions.

Providing independence, mobility and better comfort for the patient.



SOUNDPROOFED CENTRIFUGAL BLOWERS FOR HOSPITAL, EMERGENCY, TRANSPORT AND HOME CARE VENTILATORS

- ▶ **Up to 100 hPa** at 120 l/mn.
- ▶ **Compatible and secure** with upstream oxygen use: absolute separation between the electrical parts and the patient circuit allowing use of oxygen at 100% FiO₂ for the MFA0500 model.
- ▶ Meets the requirements of IEC 60601.
- ▶ **Proven reliability** with patients being treated 24/7 and 365 days/year.
- ▶ **Totally soundproofed** solution.
- ▶ **Rise time** to support the patient's breathing cycles.



NEW - MFA0900 MOTOR CONTROLLER

Thanks to its innovative design the Inverter can drive high speed low inductance brushless motors with outstanding energy efficiency.



The MFA0900:

- ▶ **Increases** performance for AIRFAN blower such as rise and fall time as low as 25ms and 360 bpm.
- ▶ **Provides** energy savings.
- ▶ **Reduces** motor temperature.
- ▶ **Extends** blower life duration and facilitates for Ventilator manufacturers the integration of Pressure/Flow control loop ensuring that maximum blower capabilities are achieved.

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 24/7, 365 days/year at the heart of demanding health care respirators.



ZI En Jacca
9 Chemin de la Salvetat
31770 COLOMIERS
France
Tel : + 33 (0)5 34 50 45 50

CONTACT:

Serge Jardel
serge.jardel@airfan.fr