HIGH PERFORMANCE
CENTRIFUGAL BLOWERS
FOR
RESPIRATORY DEVICES

www.airfan.fr
AIRFAN DESIGNS AND PRODUCES A FULL RANGE OF PRODUCTS COVERING ALL NEEDS OF THE RESPIRATORY APPLICATIONS

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

* 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 aeraulic 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.
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.

- **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**
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.