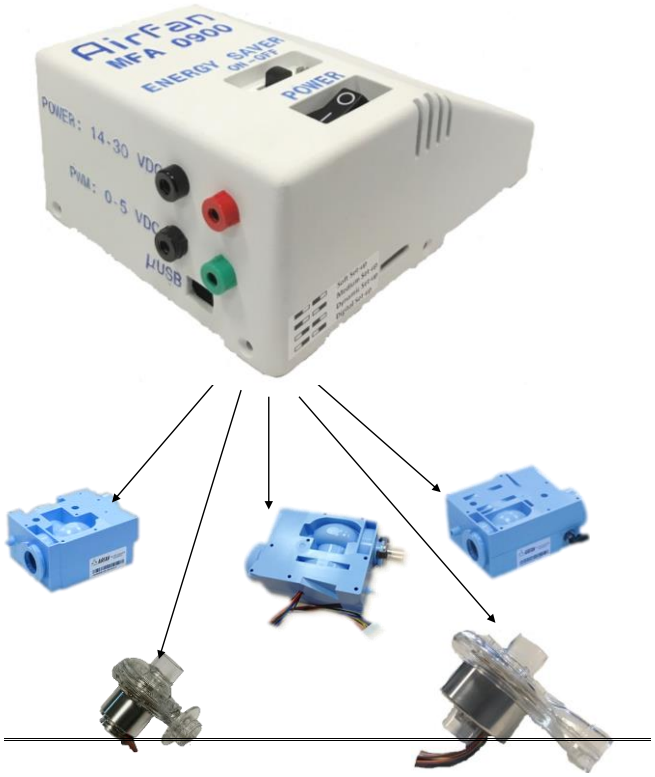
Airfan
the breath of performance

MFA 0900B



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High performance

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

The MFA0900B is a laboratory motor controller for our customers who want:

- Testing the Airfan's blowers in the best and easiest conditions through a 3 months free loan agreement.
- Using it if necessary as a development platform according to their needs through a transfer of technology agreement to be negociated.

The MFA0900B:

- Increases performance for AIRFAN blower such as rise time and fall time as low as **30ms** (*) and **200 bpm** (*)
- Brings energy savings
- Reduces motor temperature
- Extends blower life duration

and facilitates for customers the integration of Pressure/Flow control loop ensuring that maximum blower capabilities are achieved

ELECTRICAL

Parameter	Value	Remark
Std Power Supply	24 V DC	Driver : full range Min 18V Max 36V
Continuous current	3.5 A	
Peak Current	12 A (adjust. by 0.1A)	At 24V max duration 200 ms
Max Speed	120 000 rpm	(**)
Max bpm	200	(**)

(*) related to test conditions, i.e. pressure and flow, max current available and blower own capabilities.

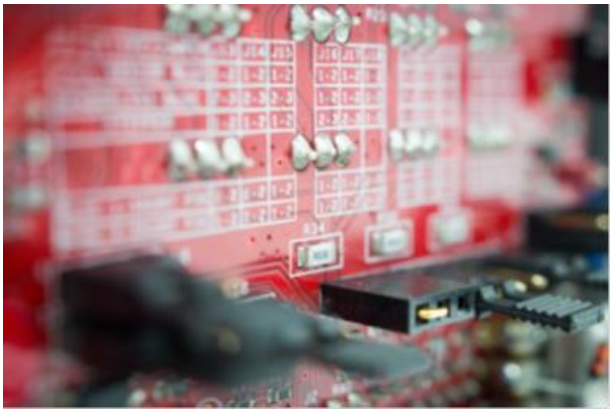
(**) All above Specs for Motor Inverter refer to Blower's characteristics for system performance.

INTERFACE

Parameter	Value	Remark
Protocol	Proprietary	Reduce customer Pressure/Flow control loop design
Analog	0-5 VDC	Analog Advance Mode available for Rise time and Fall time control (*)
Digital rotation Output	3.3V Pulse	1 pulse per rotation
Bite	Low VBus High VBus Sensor Overcurrent	

ENVIRONEMENTAL CONDITIONS

Parameter	Value	Remark
Temperature	-20/+75 °Celsius	Refer to blower characteristics for max temperature use
Relative Air humidity	5 - 95%	



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 hours/day, 365 days/year at the heart of demanding health care respirators.

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

Contact:
Serge Jardel
serge.jardel@airfan.fr