COMAIR ROTRON MILITARY GRADE FANS

COTS Fans Designed For Military Applications

- Rugged
- Reliable
- Extended Temperature Range
- Harsh Environments
- Extended Life













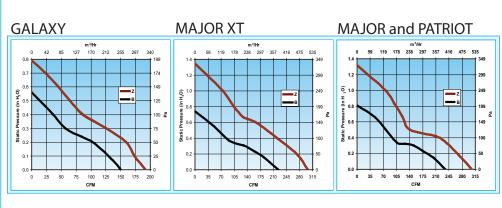


www.comairrotron.com

	MODEL NAME (PREFIX)		Galaxy (GLD) Major XT (MJD) Major & Patriot (JQD / PQD)	
	SIZES	Galaxy	127 x 38 mm (5" x 1.5")	
		Major XT	172 x 38 mm (6.75" x 1.5")	
		Major & Patriot	172 x 51 mm (6.75" x 2")	
	BEARING SYSTEM		Ball Bearing	
	NOMINAL VOLTAGE		24, 48 VDC	
	OPERATING TEMP		-40° to +85° C	
	STORAGE TEMP		-55° to + 90° C	
	WEIGHT	Galaxy	620 g (1.38 lbs)	
		Major XT	700 g (1.54 lbs)	
		Major & Patriot	840 g (1.84 lbs)	
	POWER	Galaxy	15 Watts (B Speed)	
			30 Watts (Z Speed)	
		Major XT	21 Watts (B Speed)	
			42 Watts (Z Speed)	
		Major & Patriot	24 Watts (B Speed)	
			32 Watts (Z Speed)	
	NOISE	Galaxy	54 dBA (B Speed)	
			66 dBA (Z Speed)	١
		Major XT	56 dBA (B Speed)	
			60 dBA (Z Speed)	

Major & Patriot 54 dBA (B Speed)

60 dBA (Z Speed)

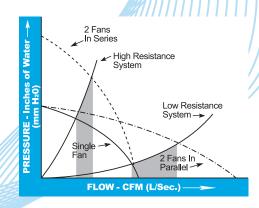




For military applications requiring performance and durability that can't be found in standard commercial air movers Comair Rotron has developed a line of rugged fans able to handle the punishment found in many harsher environments. The Galaxy (127 x 38 mm) as well as Major and Patriot (172 x 51 mm) fans have motor encasement that offers both environmental protection as well as improvement to shock and vibration capability. In addition, materials used in construction of these fans are highly resistant to chemicals and corosion. Further, to enhance the performance of these fans, the windings have been reconfigured to one continuous winding that can be energized with current flow in either direction. This means the motor is utilized to its full capacity when driving the fan. These fans also contain a microprocessor based driver circuit that allows for more precision in motor control. The result of all these improvements are fans with the durability and versatility needed for applications working under harsh conditions.

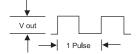
Application Tips

- Tube axial fans are designed to provide a large amount of airflow in applications where the system impedance is limited. To limit the system impedance, airflow path should include the fewest number of turns and size reductions as possible. If a 90 degree turn is required, ensure there is an adequate plenum at the location of the turn to limit losses. Further, the inlet and outlet should be sized so they are at least 1.5 times of that of the fan.
- When an application calls for more than one tube axial fan, it must be determined if the air movers should be used in series or parallel. Parallel operation, fans located side by side, will increase the flow capabilities of the system. Series operation, fans, location back to back, will increase the pressure building capabilities.



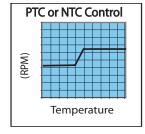
Standard Features

- Chemical and Corrosion Resistant Construction
- "Enviroshield" Environmental Protection
- Locked Rotor Protection
- Overcurrent Protection
- Open Collector Tachometer



Optional Features

- TTL Tachometer
- TTL or Open Collectors Rotation Alarms
- PTC or NTC Speed Control.



<u>Markets</u>

The ruggedized Galaxy, Major, and Patriot ruggedized fans are ideal for any number of applications which require large volume air delivery in a harsh environment. Applications for these fans can typically be found in the following areas:

- COTS
- Heat Exchangers
- Outdoor Communications
- Power Supplies
- Industrial Equipment
- Transportaion