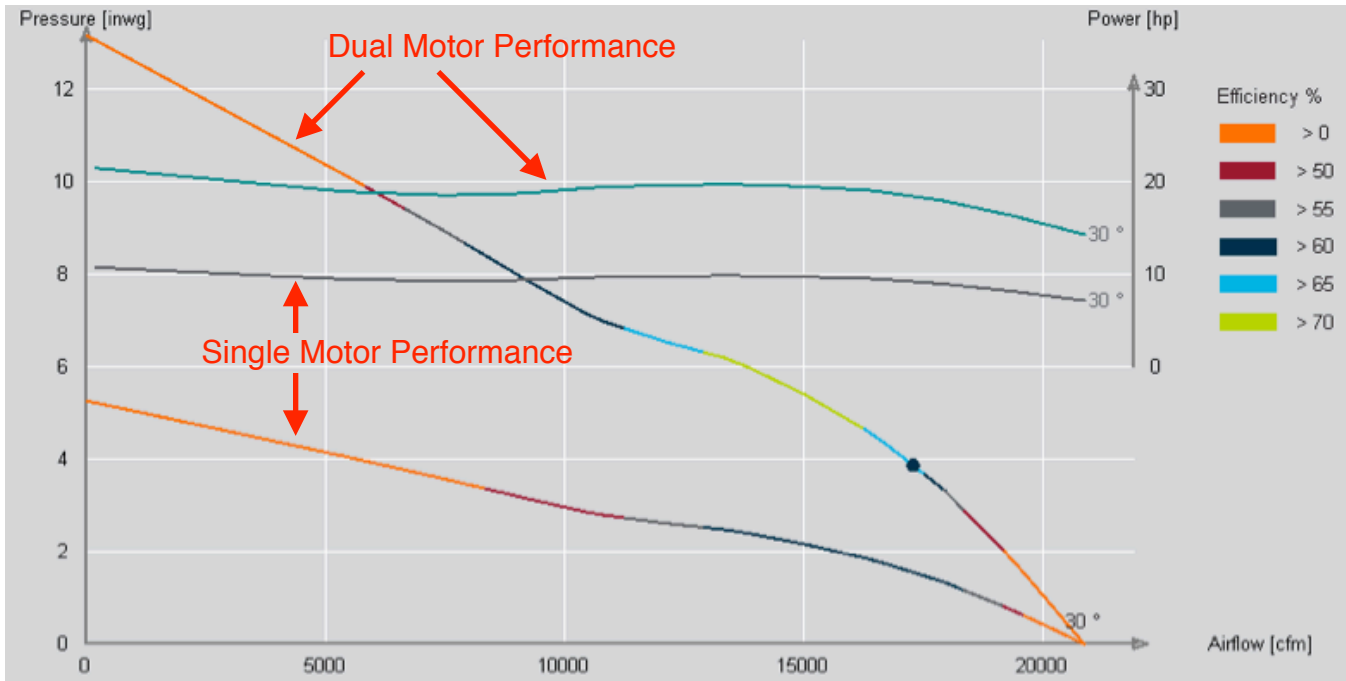




**INLINE DUAL MOTOR - CONTRA-ROTATING  
STANDARD AIR FOIL BLADE - 32"ID • DUAL 10 HP  
MODEL NO. FCRSB0032-3181230E2**

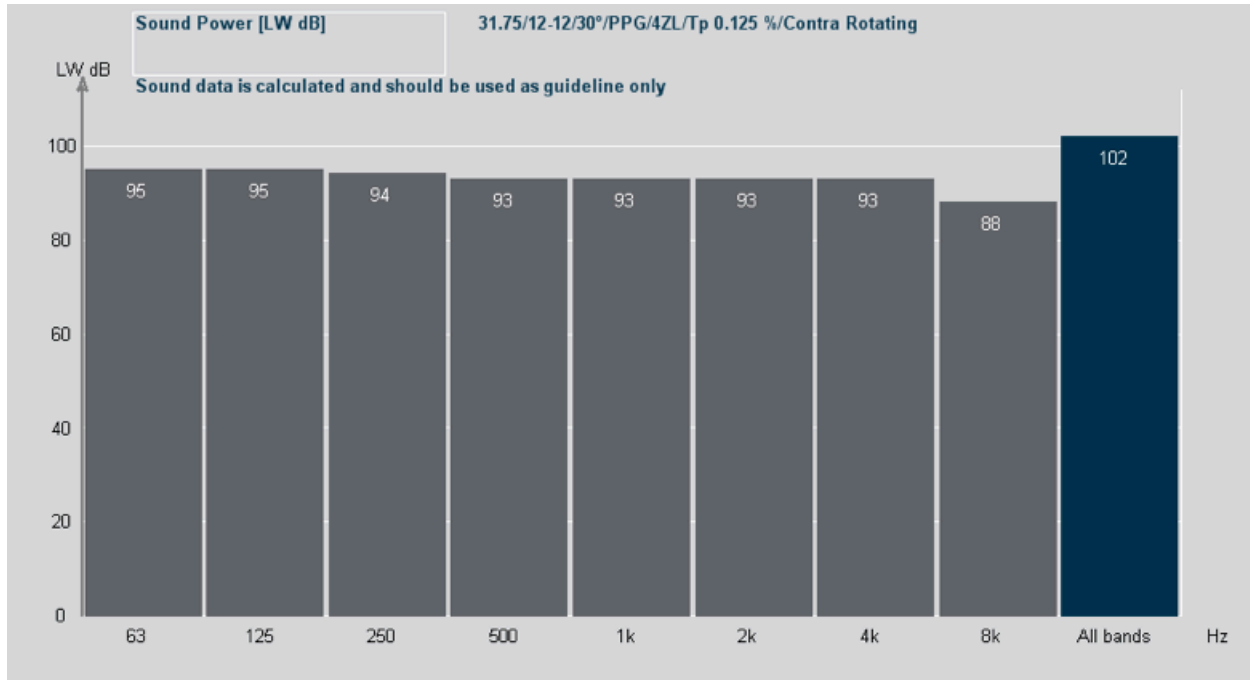


**PERFORMANCE**

Tip Speed	246 ft/s	Tip Speed	335 ft/s (2418 RPM)
Temperature	70 °F	Temperature	14°F - 184 °F
Air Velocity	52.4 ft/s	Diameter range	19.8 - 35.59 in
Torque	54.5 lbf ft	Blade, load factor	53.8 %
Axial Force	128 lbf	Hub, load factor	11.5 %
Axial-Radial deflection	N.A.	Power, load factor	N.A. %
<b>Current Working Point @ 1775 RPM 0.07489 lb/ft3</b>		<b>Static impeller data</b>	
Airflow	17300 cfm	Moment of Inertia	3.67 lb ft2
Dynamic Pressure	0.615 inwg	Blade Centrifugal force	325 lbf
Static Pres	3.86 inwg	Solidity factor	0.44
Total Pres	4.47 inwg	Mass with std. boss	10 lb
Power	18.4 hp	Motor Type	N.A.
Efficiency	66 %		
Sound	102.5 LW dB		
Density	0.07489 lb/ft3		



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**SOUND DATA**

Impeller Information	
Impeller Diameter	31.75 in
No of blades	12
Pitch	30 °
Blade Material	PPG
Blade Type	4Z
Impeller Rotation	L
Tip Speed	246 ft/s
Air Velocity	52.4 ft/s
Torque	54.5 lbf ft
Airflow	17300 cfm
Static Pres	3.86 inwg
Dynamic Pressure	0.615 inwg
Sound Power	Propagation: Spherical

	Application
Speed	1775 RPM
Tip Clearance	0.125%
Temperature	70 °F
Altitude	0 ft
Density	0.07489 lb/ft3
Moment of Inertia	3.67 lb ft2
Blade Centrifugal force	325 lbf
Axial Force	128 lbf
Total Pres	4.47 inwg
Power	18.4 hp
Efficiency	66%
Sound Power	102.5 LW dB

**Notes:** This Contra-Rotating Two-Stage Axial fan consists of two single stage opposite handed impellers rotating in opposed directions. Compared to a single stage system:

- The contra-rotating system develops approximately 2-3 times the static pressure of a single stage impeller system of the same diameter and speed.
- The two-stage system uses 5-10% less power and is quieter than a single stage system producing the same work at the same diameter.
- A two-stage system delivers a parallel non turbulent air stream, contrary to a single stage impeller which has a rotating turbulent air stream.

This fan is rated IEEE 45 for use at 65°C ambient air conditions, and is powered by 460/60/3.