



Inline AC Duct Fans



Delta-T Systems

Inline AC Duct Fans



Models - 500-804XL, 500-805XL, 500-806XL, 500-808XL, 500-810XL, 500-812XL

Electrical Connection

1. Remove the screws securing the terminal box cover plate located on the side of the fan. All fan motor connections are pre-wired to an electrical terminal strip. A 3/4" romex type cable restraint connector will be needed to secure the wiring through the knockout provided on the side of the terminal box.
2. Bring incoming electrical service through the romex connector and the fan knockout. Be sure to place the connector nut over the wiring coming into the terminal box. There are two open ports on the terminal strip. Using a small regular screwdriver, tighten the neutral (white) wire of the incoming supply under the open terminal strip port labeled "N". Tighten the line (black) wire of the incoming supply under the open terminal strip port labeled "L". Since the fan motor is isolated within a plastic housing, grounding is not necessary.
3. Secure the romex connector. Secure the incoming supply with the romex connector. Replace the fan terminal box cover. All fan motor and capacitor connections have been pre-wired from the factory. No additional fan wiring is necessary.

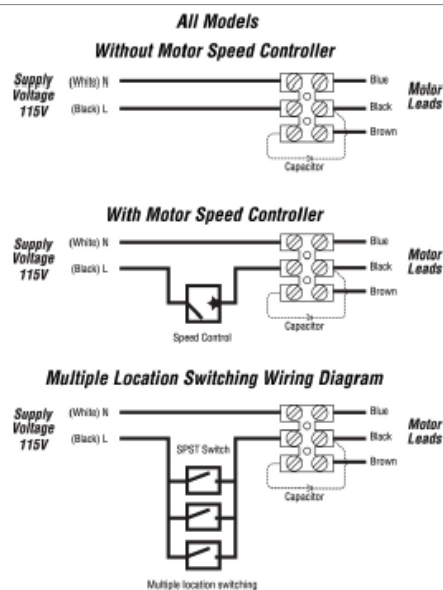


Liquid tight wiring – Top View
(For outside applications).



Romex wiring – Top View

Wiring Diagrams



Troubleshooting

If fan fails to operate, please check the following:

1. Consult wiring diagrams (see below) to insure proper connection.
2. Check motor lead wiring, capacitor leads and incoming supply leads to insure definite contact.
3. If possible, use a meter to test for continuity across the fan motor leads. In order to do this, the capacitor must be disconnected (do not test the capacitor - it will not meter continuity). If motor leads show continuity, consult factory for a replacement capacitor.

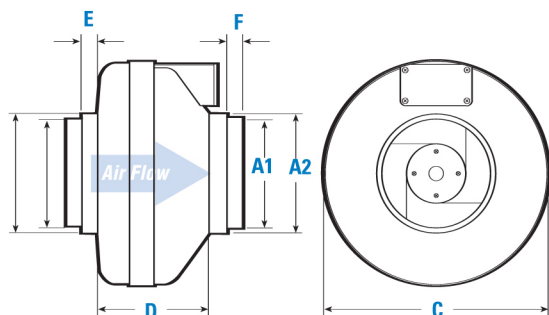
Maintenance Instructions

Since fan bearings are sealed and provided with an internal lubricating material, no additional lubrication is necessary.

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DIMENSIONAL DATA



Model	†A1	A2	C	D	E	F
500-804XL	4	5	9½	6⅞	⅞	⅞
500-806XL	6	6¼	11¼	5⅞	1	⅞
500-808XL	8	10	13¼	6¼	1½	1½
500-810XL	—	10	13¼	6¼	1½	—

All dimensions in inches.

† Duct connections are 1/8" smaller than duct size.



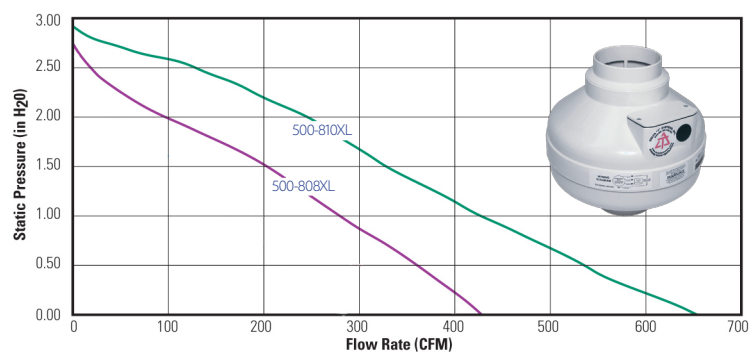
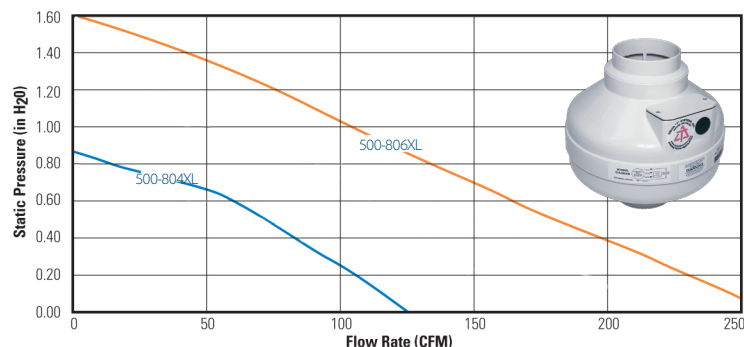
PERFORMANCE DATA

Fan Model	Energy Star	RPM	Voltage	Rated Watts	Wattage Range	Max. Amps	Static Pressure in Inches W.G.							Max. Ps	Duct Dia.
							0"	.2"	.4"	.6"	.8"	1.0"	1.5"		
500-804XL	✓	2900	115	19	13 – 19	0.18	122	100	78	55	15	—	—	0.87"	4"
500-806XL	✓	2750	120	71	54 – 72	0.67	263	230	198	167	136	106	17	1.58"	6"
500-808XL	✓	3100	115	137	111 – 152	1.35	429	400	366	332	297	260	168	2.48"	8"
500-810XL	—	2850	115	241	146 – 248	2.40	649	600	553	506	454	403	294	2.58"	10"

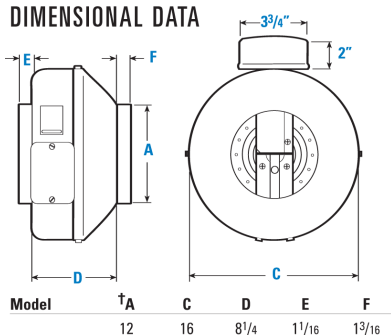
Performance shown is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Performance ratings do not include the effects of appurtenances in the airstream.

AIR PERFORMANCE GRAPHS



DIMENSIONAL DATA



Model	†A	C	D	E	F
500-812XL	12	16	8¼	1⅞	13/16

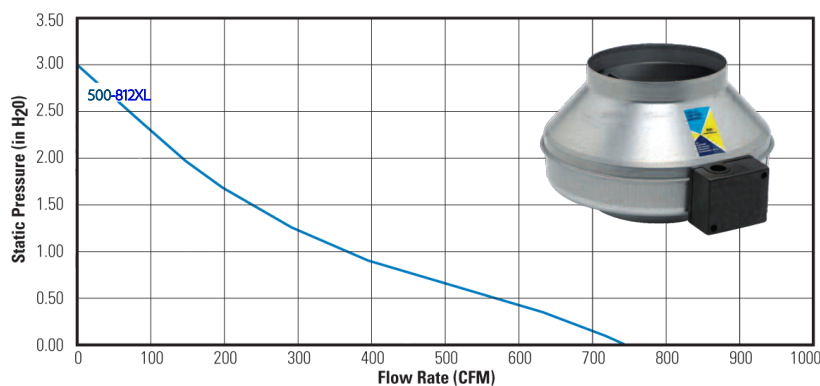
All dimensions in inches. † Duct connections are 1/8" smaller than duct size.

PERFORMANCE DATA

Fan Model	Energy Star	RPM	Voltage	Rated Watts	Max. Amps	Static Pressure in Inches W.G.										Max. Ps	Duct Dia.	
						0"	0.1"	0.2"	0.4"	0.6"	0.8"	1.0"	1.25"	1.5"	2.0"			2.5"
500-812XL	✓	2600	120	181	1.87	741	711	680	601	515	434	363	290	236	146	72	2.99	12"

Performance certified is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Performance ratings do not include the effects of appurtenances (accessories).





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