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Phoenix RF485 Owner's Manual

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----- Manual continues below part list -----

Available Replacement Parts for Phoenix RF485

5-6-1

FLOAT VALVE - ALL RESIDENTIAL EVAPORATIV



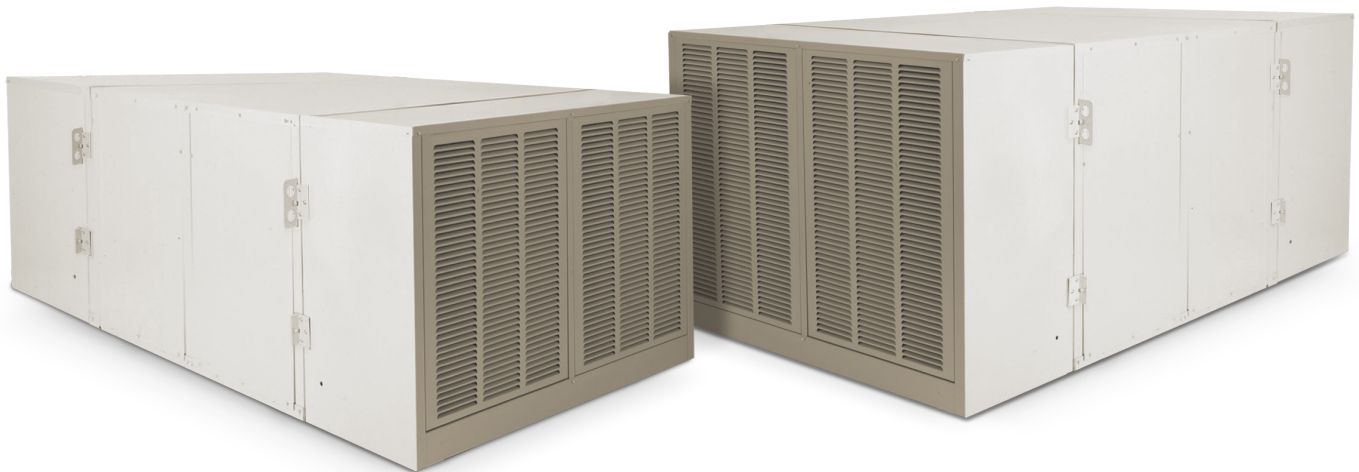
COMMERCIAL FAN COOLERS

ENERGY EFFICIENCY WITH EXCEPTIONAL PERFORMANCE

Rigid media commercial fan coolers, in the correct low static application, offer an energy efficient alternative to standard blower wheel units at a fraction of the operating cost.



COMMERCIAL RIGID MEDIA FAN COOLERS



U.L. Listed when used in non-ducted, single discharge applications as shown.

RIGID MEDIA COMMERCIAL FAN COOLERS

Rigid Media Commercial Fan Coolers, in the correct low static application, offer an energy efficient alternative to standard blower wheel units at a fraction of the operating cost. Designed for large areas with cooling needs to match, these units can save up to 70% in energy costs.

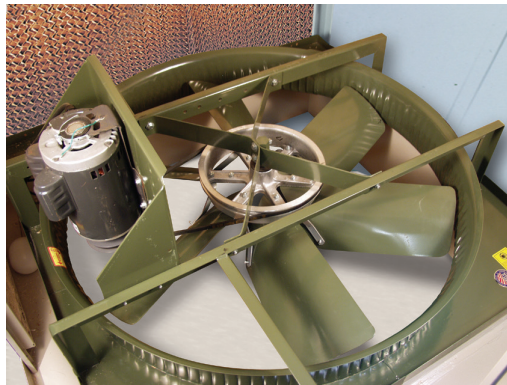


FEATURES

- High Quality Architectural Grade Peblar XT® Finish
- Heavy gauge galvanized steel construction
- Up to 26,000 CFM capacity
- Motors comply with US DOE Efficiency regulation 10 CFR Section 431 Subpart B or Subpart X
- Motor, belt, pump & float included
- Bearings have an L10 bearing life of 39,600 hours
- Multi-Layer bottom pan finish
- 70% Less Energy Costs than mechanical A/C
- Meets or Exceeds Most Local & National Codes
- U.L. Listed
- 8" Rigid Media

U.L. LISTED FOR SAFETY

These high capacity units are U.L. Listed for safety when used in non-ducted, single discharge applications, as shown to the right. All units are completely pre-wired with factory installed and tested motor and circulating pump systems. This Phoenix Manufacturing, Inc. unit will meet or exceed most local and national codes.

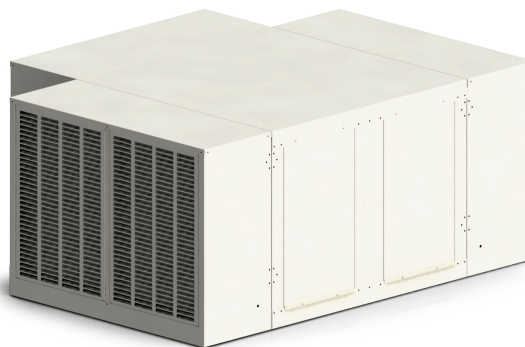


MORE AIR - LESS ENERGY

These highly efficient, commercial-grade blades deliver more air while using less horsepower than a comparable sized blower wheel model. Designed for open space applications such as warehouses, factories, manufacturing areas, laundries etc., this specially designed, six-blade fan provides optimum air delivery.



2 & 3 HP RF SERIES - TWO WET SECTIONS



5 HP RF SERIES - THREE WET SECTIONS



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ENGINEERING DATA

Technical information for the 3 & 5 Hp Aerocool Commercial Rigid Media Fan coolers

ELECTRICAL DATA AND AIRFLOW

MODEL NUMBER	MOTOR SPECIFICATIONS						PUMP VOLTS / AMPS	AIR FLOW (CFM) AT SPECIFIED STATIC PRESSURE (INCHES WATER)				
	NAMEPLATE HP	BHp	FAN RPM	VOLTAGE	PHASE	AMPERAGE		0.0"	0.1"	0.2"	0.25"	0.3"
RF4833A	3	3.2	562	208-240	3	8.3-7.6	120 / 3.4	22,100	20,100	17,600	16,200	15,000
RF4834A	3	3.2	562	480	3	3.8	120 / 3.4					
RF4853A	5	5.2	664	208-240	3	13.7-12.4	120 / 5.1	26,200	24,500	22,600	21,500	20,400
RF4854A	5	5.2	664	480	3	6.3	120 / 5.1					

Performance shown is Free Inlet, duct outlet. Power Rating (B.H.P.) includes transmission losses. Performance ratings include the effects of evaporative media in the airstream. Model and performance data not AMCA certified.

All external wiring and components such as disconnects, motor starters, and over-current protection are to be field supplied and are not included as part of the evaporative cooler from the factory.

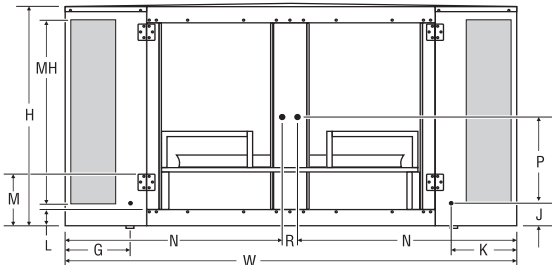
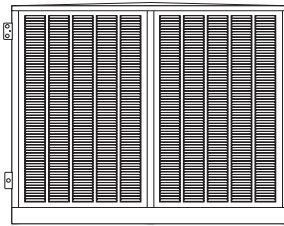
DIMENSIONAL DATA

MODEL	FAN DIMENSION O. D. INCHES	MEDIA DIMENSIONS			CABINET DIMENSIONS				DISCHARGE DIMENSIONS			DRAIN LOCATION DRAINS ARE 3/4" MALE HOSE THREAD			WATER SERVICE WATER SERVICE OPENINGS IS 1/4"		BOTTOM PAN DEPTH RISER		ELECTRICAL SERVICE ELECTRICAL SERVICE ACCESS 7/8" I.D.			APPROX. WEIGHT (LBS.)	
		MH	MW	MD	H	W	D	S	A	B	C	E	F	G	J	K	L	M	N	P	R	SHIP	OPER.
RF483-	48	44 1/2	60	8	49	96	62	---	52	5	22	13	36	13 1/2	5	13 1/2	3 1/2	12	46 3/8	26 1/2	3 1/4	825	1025
RF485-	48	44 1/2	60	8	49	96	91	62	52	5	22	13	36	13 1/2	5	13 1/2	3 1/2	12	46 3/8	26 1/2	3 1/4	970	1400

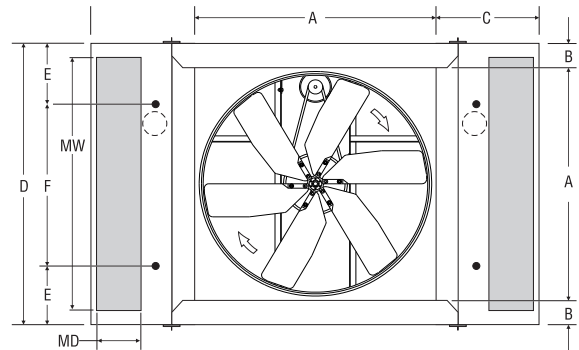
PUMP REQUIREMENTS

PUMP MODEL	VOLTS	AMPS	WATTS	GPM @ 5' HEAD
PK60LA	120	1.7	105	7.3

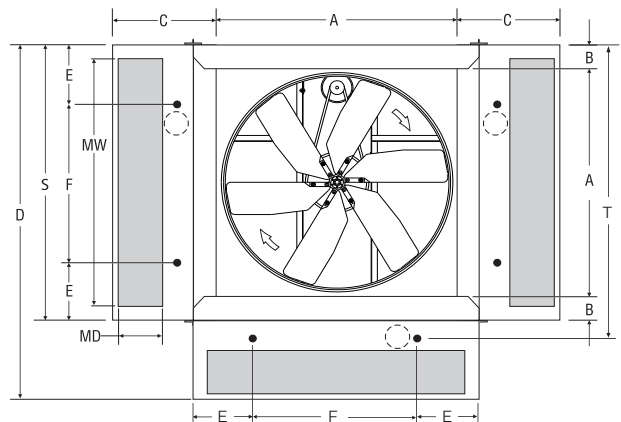
A separate 120 volt, 60 hertz, single phase, GFCI protected pump circuit is required to maintain the UL Listing of the evaporative cooler. 1 pump per wet section is included.



SIDE VIEW



BOTTOM VIEW RF483--



BOTTOM VIEW RF485--

AEROCOOL® Evaporative Coolers and components are designed and tested in accordance with one or more of the following standards or agencies:

AIR DELIVERY

Data published on this page is derived from tests conducted in accordance with Air Movement and Control Assoc. standard 210.

SEALANT - Water immersion per ASTM D870.

FLEXIBILITY - per ASTM D756.

CORROSION RESISTANCE - per ASTM B117.

PENCIL HARDNESS - per ASTM D3363.

IMPACT RESISTANCE - per D2794.

FLEXIBILITY - per ASTM D522.

SPECULAR GLOSS - per ASTM D523.

SURFACE BURNING CHARACTERISTICS of building materials (best rating) per UL 723 and ASTM E-84.

EVAPORATIVE MEDIA - Specially corrugated cellulose material, impregnated with insoluble anti-rot salts and rigidifying saturants.

PUMPS - Classified per UL 778 & UL507 for operating water pumps with thermal overload and locked rotor protection.

POLYMERIC MATERIALS - listed in accordance with UL 94 and UL746C.

MOTORS - Recognized under UL component standard #1004 for motor certification. Single phase motors tested under UL 507 standard for locked rotor and heat rise thermal protection.

ENGINEERING DATA

Technical information for the 2 Hp Aerocool Commercial Rigid Media Fan coolers



Phoenix Manufacturing, Inc. certifies that the evaporative coolers shown below are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

AMCA CERTIFIED AIR FLOW AND ELECTRICAL DATA

MODEL NUMBER	MOTOR SPECIFICATIONS						PUMP VOLTS / AMPS	AIR FLOW (CFM) AT SPECIFIED STATIC PRESSURE (INCHES WATER)				
	NAMEPLATE HP	BHp	FAN RPM	VOLTAGE	PHASE	AMPERAGE		0.0"	0.1"	0.2"	0.25"	0.3"
RF4221	2	2.2	592	120	1	17.0	120 / 3.4	15,800	14,500	12,500	11,300	10,600
RF4222	2	2.2	592	240	1	8.5	120 / 3.4					
RF4223	2	2.2	592	208 - 240	3	5.9 - 5.5	120 / 3.4					
RF4224	2	2.2	592	480	3	2.8	120 / 3.4					
RF4821	2	2.2	506	120	1	17.0	120 / 3.4	20,000	17,600	14,700	13,300	12,400
RF4822	2	2.2	506	240	1	8.5	120 / 3.4					
RF4823	2	2.2	506	208 - 240	3	5.9 - 5.5	120 / 3.4					
RF4824	2	2.2	506	480	3	2.8	120 / 3.4					

Performance certified is for installation Type B - free inlet, ducted outlet. Power Rating (B.H.P.) includes transmission losses. Performance ratings include the effects of evaporative media.

All external wiring and components such as disconnects, motor starters, and over-current protection are to be field supplied and are not included as part of the evaporative cooler from the factory.

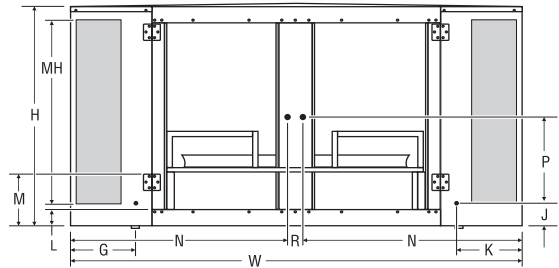
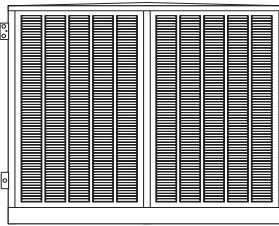
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		MH	MW	MD	H	W	D	A	B	C	E	F	G	J	K	L	M	N	P	R	SHIP	OPER.
RF422-	42	34.5	60	8	39	96	62	46	8	25	13	36	13 1/2	5	13 1/2	3 1/2	12	46 3/8	19 1/2	3 3/4	725	925
RF482-	48	44.5	60	8	49	96	62	52	5	22	13	13	13 1/2	5	13 1/2	3 1/2	12	46 3/8	24 1/2	3 3/4	800	1000

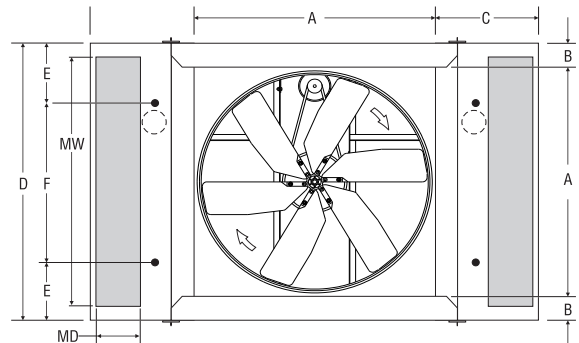
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FLEXIBILITY - per ASTM D522.

SURFACE BURNING CHARACTERISTICS of building materials (best rating) per UL 723 and ASTM E-84.

SINGLE PHASE MOTOR tested under UL standard 507 for locked rotor and heat rise protection.



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