

2024 COMMERCIAL



FAN COOLERS

ENERGY EFFICIENCY WITH EXCEPTIONAL PERFORMANCE

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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



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.

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.



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		МОТ	OR SPECIFICAT	TIONS			PUMP	AIR FLOW (CFM) AT SPECIFIED STATIC PRESSURE (INCHES WATER)						
NUMBER	NAMEPLATE HP	ВНр	FAN RPM	VOLTAGE	PHASE	AMPERAGE	VOLTS / AMPS	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	22100	20100	17.600	16,200	15,000		
RF4834A	3	3.2	562	480	3	3.8	120 / 3.4	22,100	20,100	17,600		15,000		
RF4853A	5	5.2	664	208-240	3	13.7-12.4	120 / 5.1	26.200	27.500	22.600	21.500	20.700		
RF4854A	5	5.2	664	480	3	6.3	120 / 5.1	26,200	24,500	22,600	21,500	20,400		

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

	FAN			WATER BOTTOM PAN			ELECTRICAL SERVICE			APROX.														
MODEL	DIMENSION O. D.		MENSIC			DIMEN				MENSIC			INS ARE HOSE TI		WATER	SERVICE WATER SERVICE OPENINGS IS 1/4"		DEPTH RISER		ELECTRICAL SERVICE ACCESS 7/8" I.D.			WEIGHT (LBS.)	
	INCHES	МН	MW	MD	Н	W	D	S	Α	В	С	Е	F	G	J	K	L	М	N	Р	R	SHIP	OPER.	
RF483-	48	44 ½	60	8	49	96	62		52	5	22	13	36	13 ½	5	13 ½	3 ½	12	46 3/8	26 ½	3 ⅓	825	1025	
RF485-	48	44 ½	60	8	49	96	91	62	52	5	22	13	36	13 ½	5	13 ½	3 ½	12	46 3/8	26 ½	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.

H H R N K T

PDP12-1 is not inculded, but is optional.

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.

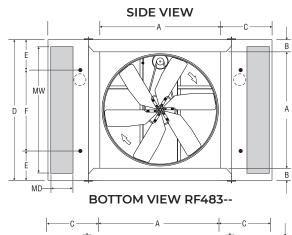
SURFACE BURNING CHARACTERISTICS - of building materials (best rating) per UL 723 and ASTM E-84.

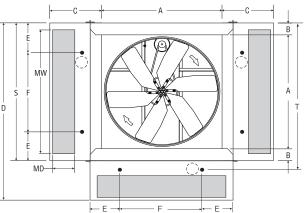
EVAPORATIVE MEDIA - Specially corrugated cellulose material, impregnated with insoluble anti-rot salts and rigidifying saturants.

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

PERFORMANCE AIR ROYERLET AND OGNETION AN

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						PUMP	AIR FLOW (CFM) AT SPECIFIED STATIC PRESSURE (INCHES WATER)						
NUMBER	NAMEPLATE HP	ВНр	FAN RPM	VOLTAGE	PHASE	AMPERAGE	VOLTS / AMPS	0.0"	0.1"	0.2"	0.25"	0.3"	
RF4221	2	2.2	592	120	1	17.0	120 / 3.4				11,300		
RF4222	2	2.2	592	240	1	8.5	120 / 3.4	15.000	14,500	12,500		10.000	
RF4223	2	2.2	592	208 - 240	3	5.9 - 5.5	120 / 3.4	15,800				10,600	
RF4224	2	2.2	592	480	3	2.8	120 / 3.4						
RF4821	2	2.2	498	120	1	17.0	120 / 3.4						
RF4822	2	2.2	498	240	1	8.5	120 / 3.4	10.577	17,356	15,129	13,028	10,889	
RF4823	2	2.2	506	208 - 240	3	5.9 - 5.5	120 / 3.4	19,533	17,330	15,129		10,009	
RF4824	2	2.2	498	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.

DIMENSIONAL DATA

	FAN		MEDIA			ABINE	т	DI	SCHAR	GF	DRAI	N LOCA	ATION		WATER		BOTTOM PAN		BOTTOM PAN		ELECTRICAL SERVICE			OX.
MODEL	DIMENSION	DII	MENSIC			MENSIC			MENSIC			INS ARE HOSE TH		SERVICE WATER SERVICE OPENINGS IS 1/4"		DEPTH	RISER	ELECTRICAL SERVICE ACCESS 7/8" I.D.		WEIGHT (LBS.)				
	INCHES	МН	MW	MD	Н	W	D	Α	В	С	Е	F	G	J	K	L	М	N	P	R	SHIP	OPER.		
RF422-	42	34.5	60	8	39	96	62	46	8	25	13	36	13 ½	5	13 ½	3 ½	12	46 3/8	19 ½	3 1/4	725	925		
RF482-	48	44.5	60	8	49	96	62	52	5	22	13	36	13 ½	5	13 ½	3 ½	12	46 3/8	24 ½	3 1/4	800	1000		

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.

PDP12-1 is not inculded, but is optional.

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

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

SEALANT - water immersion per ASTM D870.

FLEXIBILITY - per ASTM D756.

CORROSION RESISTANCE - per ASTM B117.

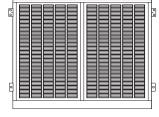
PENCIL HARDNESS - per ASTM D3363.

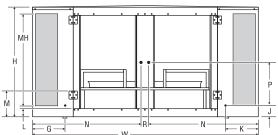
IMPACT RESISTANCE - per D2794.

FLEXIBILITY - per ASTM D522.

 $\begin{tabular}{ll} \textbf{SURFACE BURNING CHARACTERISTICS} of building materials (best rating) per UL 723 and ASTM E-84. \end{tabular}$

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







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