



2021-2022

# COMMERCIAL



# FAN COOLERS

**ENERGY EFFICIENCY WITH EXCEPTIONAL PERFORMANCE**

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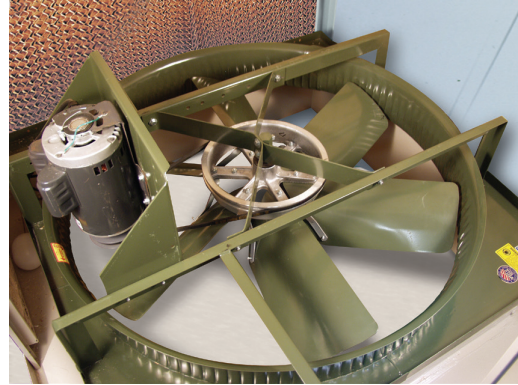


# RIGID MEDIA COMMERCIAL FAN COOLERS

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

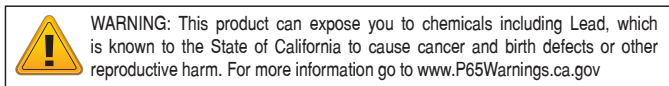
These high capacity units are U.L. Listed for safety when used in non-ducted, single discharge applications, as shown to the right. All units are completely pre-wired with factory installed and tested motor and circulating pump systems. This Phoenix Manufacturing, Inc. unit will meet or exceed most local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



**2 & 3 HP RF SERIES - TWO WET SECTIONS**



**5 HP RF SERIES - THREE WET SECTIONS**



# 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.

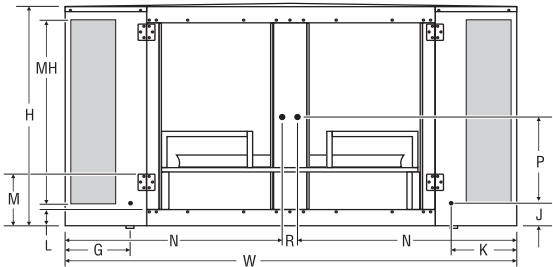
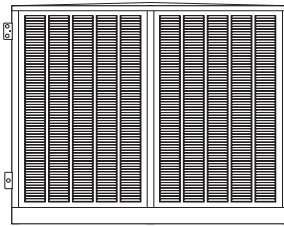
## DIMENSIONAL DATA

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

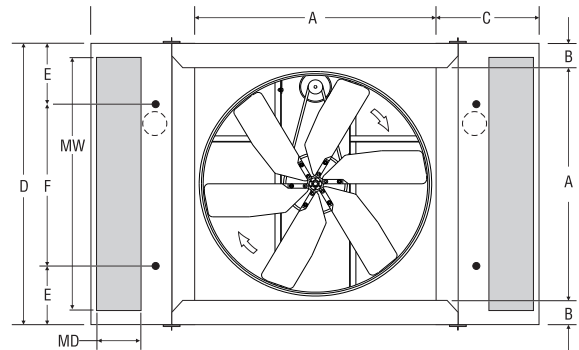
## PUMP REQUIREMENTS

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

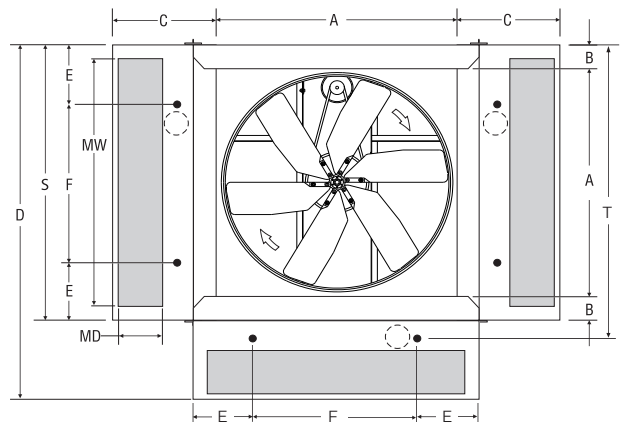
A separate 120 volt, 60 hertz, single phase, GFCI protected pump circuit is required to maintain the UL Listing of the evaporative cooler. 1 pump per wet section is included.



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.

