

Phoenix Manufacturing, Inc.

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SPECIFICATION DATA

INDUSTRIAL EVAPORATIVE FAN COOLER

MODELS: RF42 & RF48 (UL listed)



FEATURES:

- Units are UL Listed to UL Standard 507
- High quality architectural grade Peblar XT® finish
- Galvanized sheet steel is zinc coated at weight rated G40 or G90
- Up to 21,600 CFM capacity (industry standard rating)
- Three Phase EISA motors are NEMA MG-1 table 12-12 compliant
- Motor, belt, pump & float included
- Bearings have an L10 bearing life of 39,600 hours
- Multi-layer bottom pan finish

PERFORMANCE

AIR DELIVERY - data published derived from tests conducted in accordance with A.M.C.A. (Air Movement and Control Assoc.) standard 210.

BEARING LIFE - L10 bearing life of 39,600 hours is based on ABMA standard 9/ISO standard 281.

MOTORS - recognized under UL component standard #1004 for motor certification.

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

THREE PHASE MOTORS - EISA motors are NEMA MG-1 table 12-12 construction.

PUMPS - recognized under the UL standard #778 for operating water pumps with thermal overload and locked rotor protection.

CONSTRUCTION

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

SEALANT - water immersion per ASTM D870.

FLEXIBILITY - per ASTM D756.

HOT DIPPED GALVANIZED SHEET STEEL - is ASTM A653, type CS, with zinc coating weights rated G40 or G90.

CORROSION RESISTANCE - per ASTM B117.

POLYMERIC MATERIALS - listed in accordance with UL 94 and 746C.

FAN

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.

PEBLAR XT® - is our one coat TGIC Polyester Powder Coating system that is applied over 5 stage zinc phosphate prepared sheet steel surfaces for protection against atmospheric corrosion. This coating system meets the requirements of UL 1332 - organic coatings for steel enclosures of outdoor use electrical equipment.



AMCA Certified

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



LISTED

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



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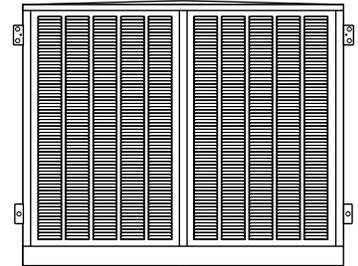
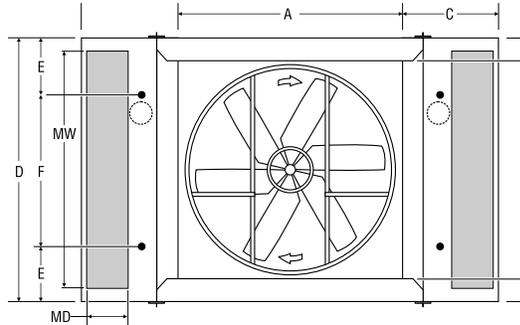
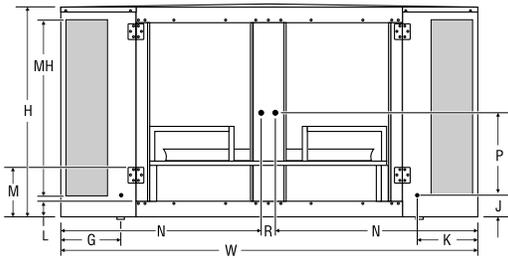
Date:

Project: _____ **Location:** _____

Architect: _____ **Engineer:** _____

Contractor: _____ **Submitted by:** _____

Notes: _____



Pump Specifications				
Pump Model	Volts	AMPS	Watts	GPM @ 5' Head
PK60LA	120	1.7	105	7.3

Performance shown is installation Type B - Free Inlet, duct outlet. Power Rating (B.H.P.) includes transmission losses. Performance ratings include the effects of evaporative media in the airstream.

Engineering Data																						
Model	Fan Dimensions O.D.	Media Dimensions			Cabinet Dimensions			Discharge Dimensions			Drain Location Male Hose Thread			Water Service Opening is 1/4" I.D.		Bottom Pan		Electrical Service access is 7/8" I.D.			Approximate Weight	
		MH	MW	MD	H	W	D	A	B	C	E	F	G	J	K	L	M	N	P	R	Ship	Oper.
RF42	42	34-1/2	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	3-1/4	725	925
RF48	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	24-1/2	3-1/4	800	1000

AMCA Certified Airflow & Electrical Data											
Model	Motor Specifications					Pump Volts/Amps	Motor Amps	AMCA Certified Air Flow (CFM) @ Specified Static Pressure (inches of water)			
	HP	BHP	Fan RPM	Voltage	Phase			0.0"	0.1"	0.2"	.25"
RF4221	2	2.3	592	120	1	120/3.4	18.8	17,800	16,200	13,800	12,400
RF4222	2	2.3	592	208-240	1	120/3.4	10.2 - 9.4	17,800	16,200	13,800	12,400
RF4223	2	2.3	592	208-240	3	120/3.4	6.2 - 5.8	17,800	16,200	13,800	12,400
RF4224	2	2.3	592	480	3	120/3.4	2.9	17,800	16,200	13,800	12,400
RF4821	2	2.3	506	120	1	120/3.4	18.8	21,600	19,600	15,600	13,500
RF4822	2	2.3	506	208-240	1	120/3.4	10.2 - 9.4	21,600	19,600	15,600	13,500
RF4823	2	2.3	506	208-240	3	120/3.4	6.2 - 5.8	21,600	19,600	15,600	13,500
RF4824	2	2.3	506	480	3	120/3.4	2.9	21,600	19,600	15,600	13,500

NOTE: 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. A separate 120 Volt, 60 hertz, single phase, GFCI protected pump circuit is required to maintain UL Listing of the cooler. Pump capacity shown is for 2 pumps per evaporative cooler.