Phoenix Manufacturing, Inc.

3655 E. Roeser Rd. • Phoenix, AZ 85040 • phoenixmanufacturing.com • 602-437-1034

SPECIFICATION DATA INDUSTRIAL EVAPORATIVE FAN COOLER

MODELS:

RF4221 RF4223 RF4222 RF4224 RF4821 RF4823 RF4833 RF4822 RF4824 RF4834 RF4853 RF4854



Units are UL Listed to UL Standard 507

Multi-layer bottom pan finish

RF42 Series

Galvanized sheet steel is zinc coated at weight rated G40 or G90





RF48 Series

RF4853/4854

- Up to 30,000 CFM capacity
- 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

PERFORMANCE

• High quality architectural grade Peblar XT[®] finish

AIR DELIVERY - data published and derived from test 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.

PENCIL HARDNESS - per ASTM D3363.

IMPACT RESISTANCE - per D2794.

FLEXIBILITY - per ASTM D522.

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 requirement of UL 1332 - organic coatings for steel enclosures of outdoor use electrical equipment.





All data, specifications and detail contained in this publication are intended as a general guide for using PHOENIX MANUFACTURING, INC. products. These products should not be used in design or construction without an independent evaluation by a qualified engineer or architect to verify the suitability of a particular product for use in a specific application. PHOENIX MANUFACTURING, INC. assumes no liability for failure resulting from the use or misapplication of computation, detail drawings and specifications contained herein. This publication contains the latest information available at the time of printing. PHOENIX MANUFACTURING, INC. reserves the right to make modifications and/or change materials of any of their products without prior notice or obligation. PHOENIX MANUFACTURING, INC. may not produce all of the products contained in this submittal. For product availability and the latest information regarding products contact PHOENIX MANUFACTURING, INC.

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.

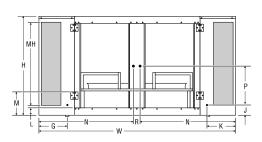
Electrical Data & Performance													
		Mo	tor Spec	ifications		Pump Volts/Amps	Motor Amps	Tested Air Flow (CFM) @ Specified Static Pressure (inches of water)					
Model	HP	BHP	Fan RPM	Voltage	Phase			0.0"	0.1"	0.2"	.25"		
RF4221A	2	2.3	592	120	1	120/3.4	18.8	17,800	16,200	13,800	12,400		
RF4222A	2	2.3	592	208-240	1	120/3.4	10.2 - 9.4	17,800	16,200	13,800	12,400		
RF4223A	2	2.3	592	208-240	3	120/3.4	6.2 - 5.8	17,800	16,200	13,800	12,400		
RF4224A	2	2.3	592	480	3	120/3.4	2.9	17,800	16,200	13,800	12,400		
RF4821A	2	2.3	506	120	1	120/3.4	18.8	21,600	19,600	15,600	13,500		
RF4822A	2	2.3	506	208-240	1	120/3.4	10.2 - 9.4	21,600	19,600	15,600	13,500		
RF4823A	2	2.3	506	208-240	3	120/3.4	6.2 - 5.8	21,600	19,600	15,600	13,500		
RF4824A	2	2.3	506	480	3	120/3.4	2.9	21,600	19,600	15,600	13,500		
RF4833A	3	3.33	578	240	3	120/3.4	8.7	22,600	20,600	18,200	16,500		
RF4834A	3	3.33	578	480	3	120/3.4	4.4	22,600	20,600	18,200	16,500		
RF4853A	5	4.85	680	240	3	120/5.1	12.6	30,000	28,600	26,700	26,100		
RF4854A	5	4.85	680	480	3	120/5.1	6.3	30,000	28,600	26,700	26,100		

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

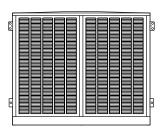
1 pump per wet section is required

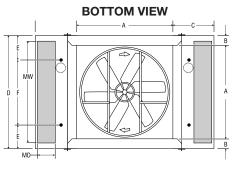
NOTE: All external wiring and components such as disconnects, motor starters, and over-current protection are to be field supplied and are not included as part of the evaporative cooler from the factory. A separate 120 Volt, 60 hertz, single phase, GFCI protected pump circuit is required to maintain UL Listing of the cooler.

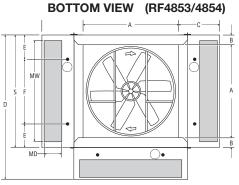












Engineering Data																							
	Fan Dimensions	Dimensions		[oinet nsion		Discharge Dimensions			Drain Location Male Hose Thread		Water Service Opening is 1/4" I.D.		Bottom Pan Depth Riser		Electrical Service access is 7/8" I.D.		Approx. Weight				
Model	O.D.	МН	MW	MD	н	w	D	S	Α	В	С	Е	F	G	J	К	L	М	Ν	Р	R	Ship	Oper.
RF422_	42	34-1/2	60	8	39	96	62	na	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
RF482_	48	44-1/2	60	8	49	96	62	na	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
RF483_	48	44-1/2	60	8	49	96	62	na	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

A **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



SUBMITTAL DATA

Project:

Location:

Architect:

Engineer:

Contractor:

Submitted by:

Ref. No.	Cooler Model No.	Quantity	CFM	Static Pressure	HP	Volts	Phase
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Notes:

Date: