

Phoenix Manufacturing, Inc.

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SPECIFICATION DATA RESIDENTIAL FRIGIKING COOLERS



Side Discharge
(FS 350,450,650 Models)



Down Discharge
(FD 350,450,650 Models)

UL Classified / UL Listed

FD/FS 350
FD/FS 450
FD/FS 650

UFD/UFS 350
UFD/UFS 450
UFD/UFS 650

FEATURES:

- High quality architectural grade Peblar XT® finish
- Galvanized sheet steel is zinc coated at weights rated G40 or G90
- Evaporative media used in the UL Listed models is rated to UL900.
- Bottom pan drain is 3/4" male hose thread.
- Bearings have an L10 bearing life of 39,000 hours
- Electrical service knockouts are 1/2".
- Water supply line is 1/4" O.D. Knockout are on all 4 corners

- All models ship with 120 V. pumps included. 240 V. pumps are available.
- UL Classified Evaporative Air Cooler, in accordance with the Uniform Mechanical Code. UL Listed models are also available. To order a UL Listed model, add a "U" prefix to the part number. NOTE: in order to maintain the UL Classified or UL Listed designation, these models must be installed with PMI motor kits and pumps.



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

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.

BLOWER WHEEL - balanced in accordance with ISO 1940 and A.N.S.I. standard S2.19, quality grade G6.3.

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

CONSTRUCTION

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

SEALANT - water immersion per ASTM D870.

FLEXIBILITY - per ASTM D756

CORROSION RESISTANCE - per ASTM B117.

PENCIL HARDNESS - per ASTM D3363.

IMPACT RESISTANCE - per D2794.

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.

FRIGIKING Evaporative Coolers and components are designed and tested in accordance with one or more of the following standards or agencies:
Note: In order to maintain the UL Classified or UL Listed designation, these models must be installed with PMI supplied motor kits and pumps.



UL Classified Models

The Aerocool Trophy models are Classified by UL as Evaporative Air Coolers in accordance with the Uniform mechanical Code.



UL Listed Models

Listed to applicable UL Standards and requirements by UL.

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.

APRIL 2018



SUBMITTAL DATA

DATE: _____

Project: _____ Location: _____

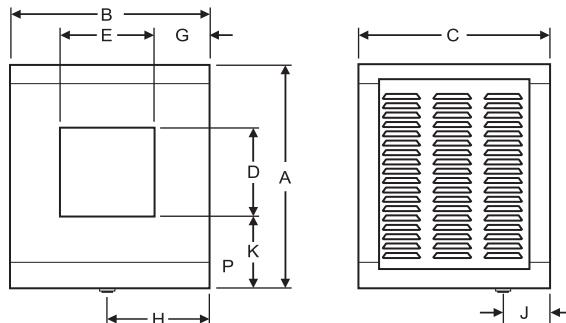
Architect: _____ Engineer: _____

Contractor: _____ Submitted by: _____

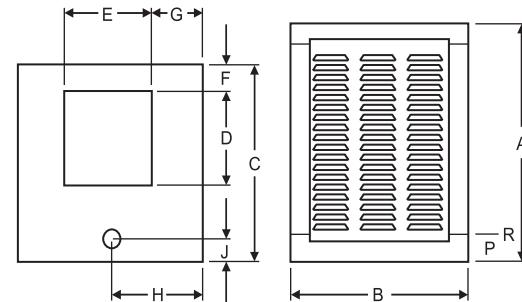
Notes: _____

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

Specifications							Motor sold separately							
Model Number	Cooling Capacity			Air Delivery CFM (Cubic Feet Per Minute)					Electrical Specifications					
	Industry Std. Rating	Cubic ft. Area		0.0"	0.1"	0.2"	0.3"	0.4"	0.5"	HP	Speed	Phase	Hz	Volts
FD/FS 350	3000		6600	2180	2085	1980	1860	1685	1490	1/3	1	1	60	120
	3000/2000		6600							1/3	2	1	60	120
FD/FS 450	4000		8000	3130	2922	2702	2478	2250	2010	1/3	1	1	60	120
	4000/2665		8000							1/3	2	1	60	120
	4500		9000		3464	3268	3072	2876	2680	1/2	1	1	60	120/240
	4500/3000		9000							1/2	2	1	60	120/240
FD/FS 650	5500		11000	4130	3966	3802	3636	3469	3305	1/2	1	1	60	120/240
	5500/3365		11000							1/2	2	1	60	120/240
	6500		13000		4546	4382	4218	4052	3890	3/4	1	1	60	120/240
	6500/4330		13000							3/4	2	1	60	120/240



SIDE DRAFT



DOWN DRAFT

Frigiking Engineering Data																					
Model Number	Cabinet			Dimensions								Blower Wheel		Pad Frame		Pad Filter Dimensions			Ship. Weight	Oper. Weight	
	A	B	C	D	E	F	G	H	J	K	P	R	Dia	Width	Height	Width	No.	Width	Height		
FD/FS 350	32	28	28	16	16	3 1/4	6	14	4 1/4	10 1/4	--	--	13 1/4	13	26	22	4/3	21	25	108	150
FD/FS 450	36	34	34	17 7/8	17 7/8	4 1/2	8 1/16	17	5 1/4	12 1/4	--	--	16 1/8	15 7/8	30	28	4/3	28	29	138	215
FD/FS 650	42 1/4	37	37	19 7/8	19 7/8	3 7/8	8 9/16	8 1/2	6	14 1/4	--	--	19 1/8	17 7/8	37	31	4/3	30	35	177	290