

# 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](http://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.

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Project: \_\_\_\_\_ Location: \_\_\_\_\_

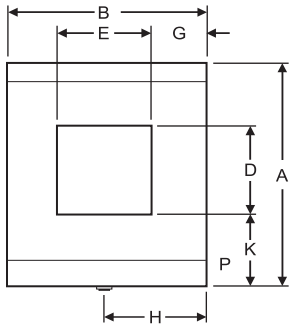
Architect: \_\_\_\_\_ Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_ Submitted by: \_\_\_\_\_

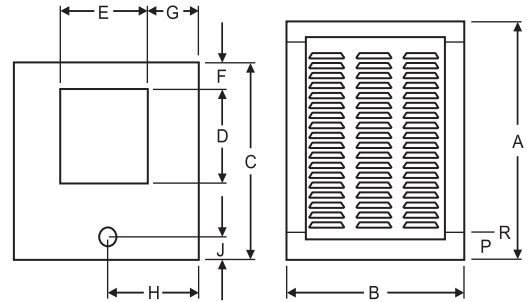
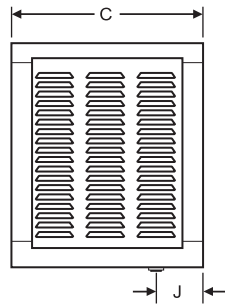
Notes: \_\_\_\_\_

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	3660	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	4710	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