

PHOENIX MANUFACTURING, INC.

SPECIFICATION DATA

RESIDENTIAL FRIGIKING models:

| | |
|------------|-----------------|
| FS/FD350 | (UL Classified) |
| UFS/UFD350 | (UL LISTED) |
| FS/FD450 | (UL Classified) |
| UFS/UFD450 | (UL LISTED) |
| FS/FD650 | (UL Classified) |
| UFS/UFD650 | (UL LISTED) |



Down Draft



Side Draft

- 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, Class 2
- Bearings have an L10 bearing life of 39,000 hours
- Electrical service knockouts are 1/2"
- Water supply line is 1/4" O.D. on both sides.
- Bottom pan drain is 3/4" male hose thread.
- 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
- All models ship with 120v pumps included Low Sump Pump. 240vt pumps are available.

PERFORMANCE

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.

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

CONSTRUCTION

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.



UL Classified Models

The FRIGIKING 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.

SUBMITTAL DATA

Project _____
Location _____
Architect _____
Engineer _____
Contractor _____
Submitted By _____
Date _____

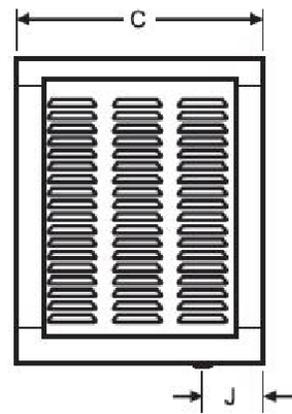
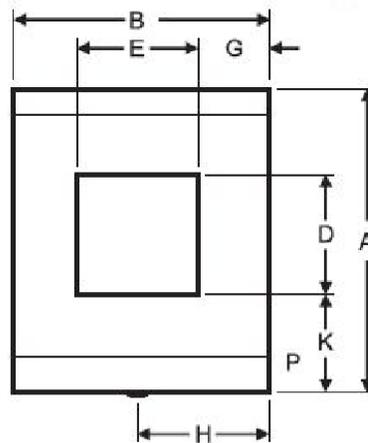
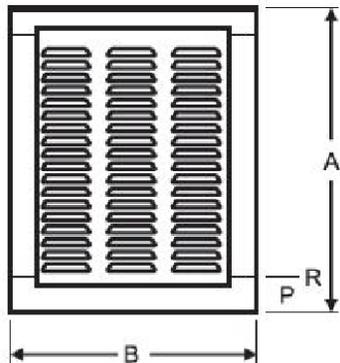
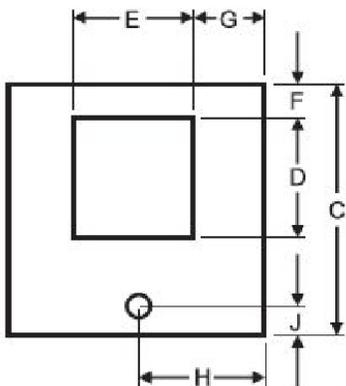
Notes _____

| CFM Specifications (Motors Ship Separately) | | | | | | | | | | | |
|---|---------------------|-----------------|------------------------|------|------|------|------|------|---------------------------|-------|---------|
| Model # | Cooling Capacity | | CFM at Static Pressure | | | | | | Electrical Specifications | | |
| | Industry Std Rating | Cubic Feet Area | 0.0" | 0.1" | 0.2" | 0.3" | 0.4" | 0.5" | HP | Speed | Volts |
| | | | | | | | | | | | |
| FD/FS 350 | 3000 | 6600 | 2180 | 2085 | 1980 | 1860 | 1685 | 1490 | 1/3 | 1 | 120 |
| FD/FS 350 | 3000/2000 | 6600 | 2180 | 2085 | 1980 | 1860 | 1685 | 1490 | 1/3 | 2 | 120 |
| FD/FS 450 | 4000 | 8000 | 3130 | 2922 | 2702 | 2478 | 2250 | 2010 | 1/3 | 1 | 120 |
| FD/FS 450 | 4000/2665 | 8000 | 3130 | 2922 | 2702 | 2478 | 2250 | 2010 | 1/3 | 2 | 120 |
| FD/FS 450 | 4500 | 9000 | 3660 | 3464 | 3268 | 3072 | 2876 | 2680 | 1/2 | 1 | 120/240 |
| FD/FS 450 | 4500/3000 | 9000 | 3660 | 3464 | 3268 | 3072 | 2876 | 2680 | 1/2 | 2 | 120/240 |
| FD/FS 650 | 5500 | 11000 | 4130 | 3966 | 3802 | 3636 | 3469 | 3305 | 1/2 | 1 | 120/240 |
| FD/FS 650 | 5500/3365 | 11000 | 4130 | 3966 | 3802 | 3636 | 3469 | 3305 | 1/2 | 2 | 120/240 |
| FD/FS 650 | 6500 | 13000 | 4710 | 4546 | 4382 | 4218 | 4052 | 3890 | 3/4 | 1 | 120/240 |
| FD/FS 650 | 6500/4330 | 13000 | 4710 | 4546 | 4382 | 4218 | 4052 | 3890 | 3/4 | 2 | 120/240 |

| Ref # | Cooler Model | QTY. | CFM | Static Pressure | HP | Voltage |
|-------|--------------|------|-----|-----------------|----|---------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |

Bottom Discharge

Side Discharge



Engineering Data

| Model Number | Cabinet | | | Dimensions | | | | | | | Blower Wheel | | Pad Frame | | Ship Weight | Opp. Weight |
|--------------|---------|----|----|------------|--------|-------|--------|--------|-------|--------|--------------|--------|-----------|-------|-------------|-------------|
| | A | B | C | D | E | F | G | H | J | K | Dia | Width | Height | Width | | |
| 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 | 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 | 138 | 215 |
| FD/FS 650 | 42 1/4 | 37 | 37 | 19 7/8 | 19 7/8 | 3 7/8 | 8 9/16 | 18 1/2 | 6 | 14 1/4 | 19 1/8 | 17 7/8 | 37 | 31 | 177 | 290 |

PHOENIX MANUFACTURING, INC.

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