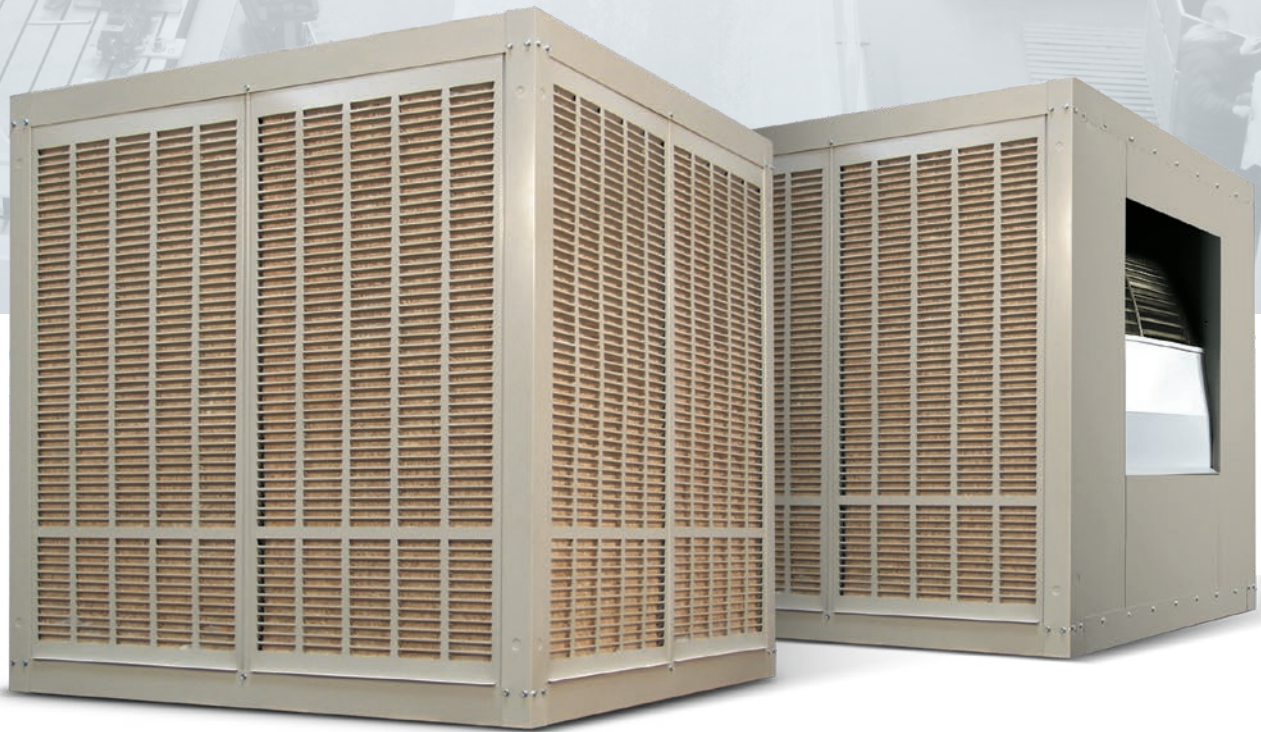




FRIGIKING[®]
EVAPORATIVE AIR COOLER



ECONOMICAL AND DEPENDABLE COOLING
Industrial Evaporative Air Cooling

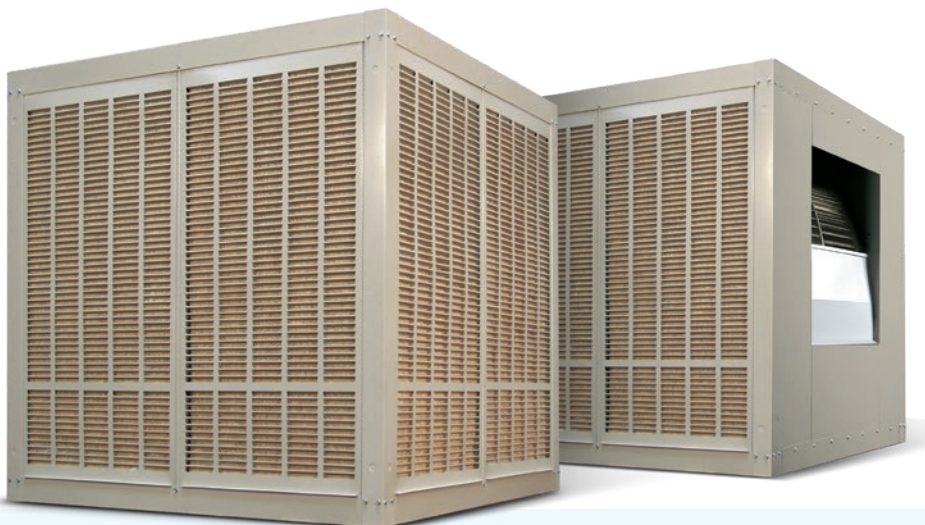


THE IMPORTANCE OF FRESH AIR

Induction of fresh air into the workplace is often a crucial requirement that must be met in order to comply with various federal, state and local codes. PMI coolers deliver the industry optimum fresh air with motor ranges from 3/4 to 7 1/2 HP to meet industry challenging requirements. Evaporative coolers provide an economic means of cooling diverse environments while substantially reducing

the associated operating and maintenance costs as compared to mechanical refrigeration.

These coolers can serve as a cost effective and energy efficient way to provide fresh make-up air to meet the requirements of work area environments such as restaurant kitchens, factory and manufacturing facilities, and the work areas typically found in the dry cleaning industries.





ENVIRONMENTALLY FRIENDLY

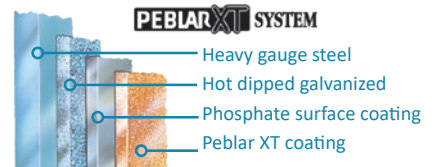
Evaporative coolers such as the Frigiking Commercial Aspen series utilize environmentally friendly aspen cooling pads which contain no ozone damaging CFC's typically found in mechanical refrigeration processes.

These units can also contribute to a substantial saving of as much as 75% of the cost incurred with air conditioning by reducing the electrical demand on utilities and ultimately reduce operating costs while raising efficiencies.



QUALITY AND DURABILITY

All stages of our manufacturing processes emphasize rigid quality and efficiency standards thereby maintaining quality products with subsequent performance. The cabinet is constructed of hot dipped galvanized steel and treated with our 5-stage, durable Peblar XT appliance type finishing process.

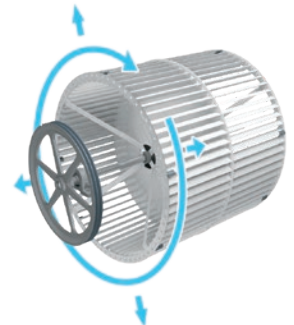


RELIABLE PERFORMANCE AND LONG LIFE

Our Blower models use plane separation technology. Computerized dynamic wheel balancing provides the smoothest running, vibration free wheel possible.

Our Fan model are designed for high CFM low static pressure environments and provide more fresh air for less cost.

Both styles are engineered and designed for reliable performance and long life. These commercial units will last through the years with minimum maintenance and optimum cooling capacity.



CHOOSING THE RIGHT MODEL

Choosing the right Frigiking Industrial Cooler model is important for proper operation. For maximum performance, choose the model with the proper rating and motor as well as the correct duct configuration.

Ask your qualified contractor to help you choose the correct Commercial Cooler Series model that best fits your needs.

FAN MODELS U.L. LISTED FOR SAFETY

These high capacity coolers are U.L. listed for safety when used in non-ducted, single discharge applications as shown. All units are completely pre-wired with factory installed and tested motor and circulating pump systems. This Phoenix Manufacturing, Inc. unit will meet or exceed most local and national codes.

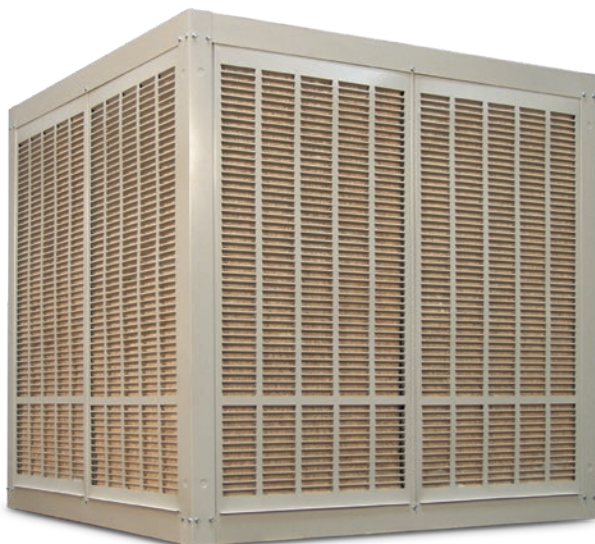
ALL MODELS INCLUDE

- AMCA licensed ratings
- 70% Less Energy Costs than AC
- All welded, hot dipped galvanized steel construction cabinet
- Multilayer bottom pan finish
- Peblar XT™ architectural finish

BLOWER MODELS

The simple concept of mixing air and water produces powerful, energy efficient cooling that is both economical and environmentally friendly. The Frigiking coolers are ideally suited for the rigorous demands of commercial / industrial applications as those found in warehouses, plants and factories. For engineers, contractors, and building owners who are addressing value engineering issues Frigiking coolers are the perfect cooling solution.

- Up to 22,000 CFM Capacity (Industry Standard Rating)*
- Solid shaft for strength & durability
- Dynamically balanced blower wheels
- Heavy duty UL Recognized motor & pump available
- Belt and bleed-off included
- Water knockout accommodates 3/8" incoming line.
- *5 Year cabinet warranty



DOWN DISCHARGE



SIDE DISCHARGE

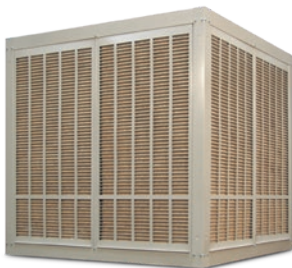


FAN MODELS

MORE AIR - LESS ENERGY

These highly efficient, commercial grade fan blades deliver more air while using less horsepower than a comparable sized blower wheel model. Designed for low static applications such as warehouses, factories, manufacturing areas, laundries, etc., this specially designed six-blade fan provides the maximum air delivery. Approximately 19,000 cfm at 0.0" static pressure can be obtained using only a 2 HP motor!

- 19,000 Cfm high capacity fan
- 70% Less energy costs than blower models
- Meets or exceeds most local & national codes
- All internal wiring factory installed and tested
- Motor, belt, pump, float and bleed-off included
- For static pressures at 3 in, or lower
- UL Listed



DOWN DISCHARGE / FAN

HIGH CFM FOR LOW STATIC APPLICATIONS

Our 2 Hp Commercial Fan unit delivers as much air as the 5 Hp blower model realizing a fraction of the energy consumption. These models are also available in ¼ , 1 and 1 ½ Hp single and three phase configurations.



SIZING BLOWER MODELS

Choosing the right Frigiking Industrial Cooler model is important for proper operation. For maximum performance, choose the model with the proper rating and motor as well as the correct duct configuration.

Ask your qualified contractor to help you choose the correct Commercial Cooler Series model that best fits your needs.



DOWN DISCHARGE



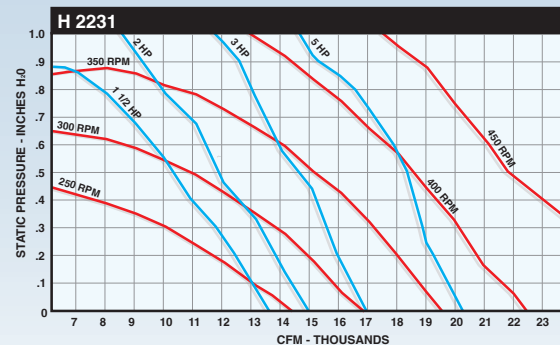
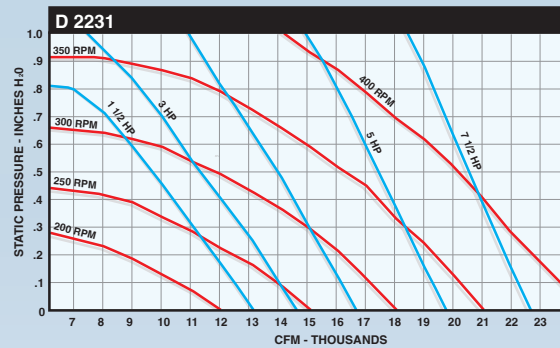
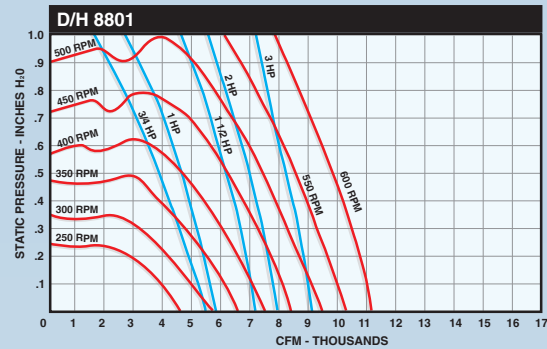
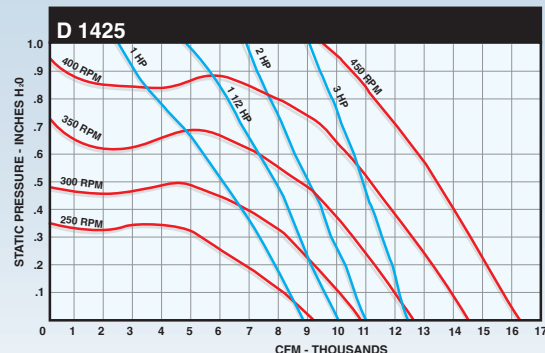
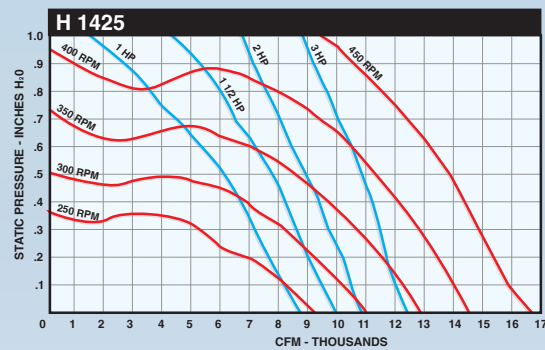
SIDE DISCHARGE

COMMERCIAL EVAPORATIVE COOLERS FEATURE:

- Up to 22,000 CFM Capacity (Industry Standard Rating)*
- AMCA licensed ratings
- Solid shaft for strength & durability
- All welded, hot dipped galvanized steel construction cabinet
- Heavy duty UL Recognized motor & pump available
- Multilayer bottom pan finish
- Peblar XT™ architectural finish, protects against rust
- Dynamically balanced blower wheels
- Belt and bleed-off included
- Water knockout accommodates 3/8" incoming line.

ENERGY EFFICIENCY & PERFORMANCE

Specification of critical components is vital in obtaining the required discharge. Motor horsepower, voltage, motor shaft outside diameter, motor sheave outside and inside diameter all directly relate to the revolutions per minute (RPM) of the blower wheel. Equally important is the reduction in electrical usage and water required for operation.



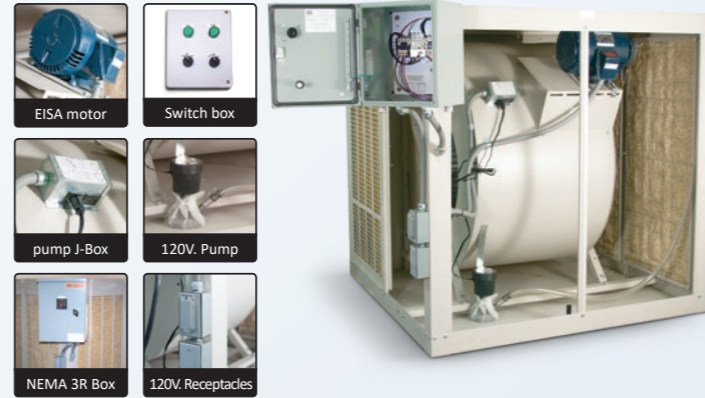
SPECIAL SERVICE SOLUTIONS

SPC/SVSPC

SINGLE POINT CONNECTION - A SMART WAY TO SAVE

Simplify and save on your next commercial evaporative cooler installation job with the PMI Factory Pre-wire service. The Single Point Connection (SPC) requires an electrical supply for the motor voltage as well as 120V. supply for the contacts, switch box & pump, which originate in the building space.

Factory Pre-wire includes installation and wiring of the motor, motor sheave, pump, float, control box and junction box. The Control box is ready for the 120V. line and motor voltage supply, greatly simplifying the installation and reducing time on the job. The Control Box for the SVSPC is wired specifically for the required motor voltage.



CSB COMMERCIAL SWITCH BOX

The CSB (Commercial Switch Box) by PMI is a factory wired solution that provides independent manual controls for both the pump and motor for your industrial air cooler.



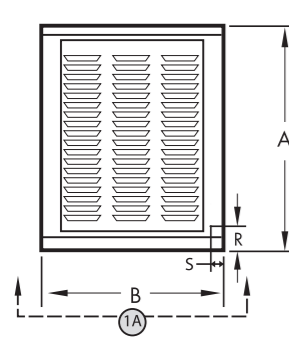
CTP COMMERCIAL THERMOSTAT PACKAGE

The CTP (Commercial Thermostat Package) is specifically designed to retrofit your existing industrial cooler with thermostatic control. The CTP includes a factory wired NEMA 4X rated junction box, and the SPCT "Green Stat" 7-Day Programmable thermostat.

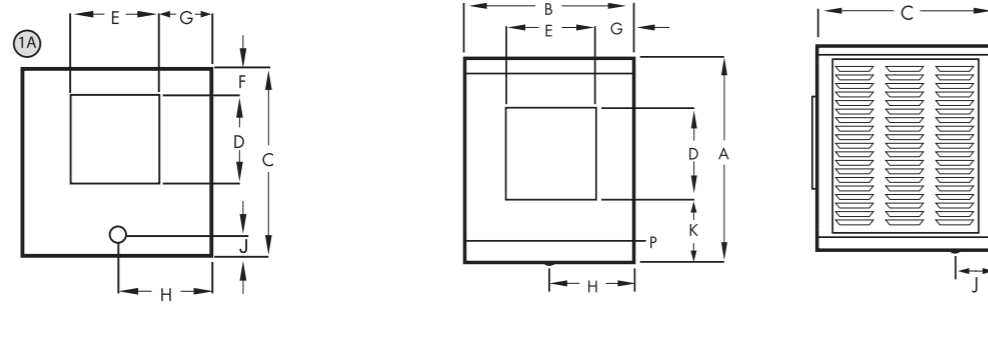
FAC FACTORY PRE-WIRE AND FACTORY ASSEMBLED

- The FAC option offers you the benefit of receiving your order fully assembled.
- Speed up your installation process by allowing our trained assembly team to do your work for you.
- This unit is ready to be installed and has been factory tested to ensure operational readiness.

Bottom Discharge



Side Discharge



Commercial/Industrial Engineering Data

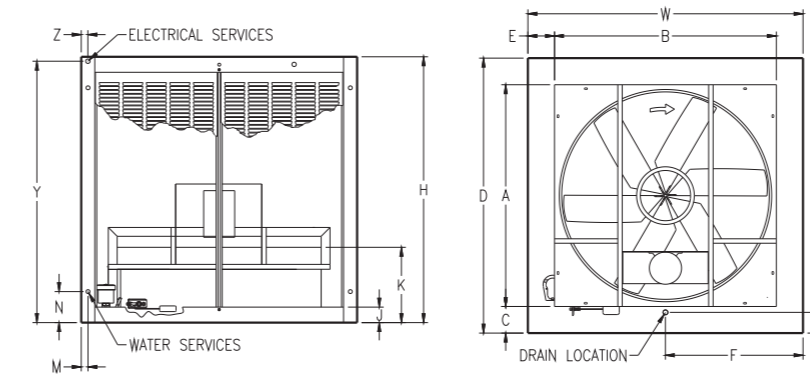
| Model Number | Blower Wheel | | Belt Size D/H | Blower Pulley Pitch Diameter | Cabinet Dimensions (Inches) | | | | | | | | | | | | | Approx. Oper. Wt. | Approx. Cabinet Ship Wt. | Pad Filler Dimensions | | |
|--------------|--------------|-------|---------------|------------------------------|-----------------------------|----|----|--------------|--------|-------|--------|--------|-------|-------------|-------|-------|-------|-------------------|--------------------------|-----------------------|-------|----|
| | Dia. | Width | | | Cabinet | | | Duct Opening | | | Drain | | | Water Inlet | | | No. | | | Ht. | Width | |
| | | | | | A | B | C | D | E | F | G | H | J | K | *P | R | | | | | | S |
| D/H 8801 | 21 | 20 | A74/A76 | 14 Single | 52 | 41 | 41 | 21 3/4 | 21 3/4 | 4 3/8 | 9 5/8 | 20 1/2 | 4 1/2 | 15 7/8 | 3 1/2 | 7 1/8 | 1 1/2 | 476 | 280 | 4/3 | 45 | 35 |
| D/H 1425 | 24 | 24 | A94/A94 | 18 Single | 52 | 52 | 52 | 26 3/4 | 26 3/4 | 4 1/2 | 12 5/8 | 26 | 4 1/2 | 21 1/4 | 3 1/2 | 7 1/8 | 1 1/2 | 721 | 415 | 8/6 | 45 | 22 |
| D/H 2231 | 28 | 28 | A102/A98 | 18 Dual | 60 | 62 | 62 | 31 3/4 | 31 3/4 | 8 1/8 | 15 1/8 | 31 | 4 1/2 | 23 3/4 | 3 1/2 | 7 1/8 | 1 1/2 | 1006 | 550 | 8/6 | 54 | 26 |

Phoenix Evaporative Coolers and components are designed and tested in accordance with one or more of the following standards or agencies: **AIR DELIVERY** - data published derived from tests conducted in accordance with A.M.C.A. (Air Movement and Control Assoc.) standard 210. **ASPEN PADS** - built to federal specification PP-E-911 for Type 1, Class A, Grade 4. **SEALANT** - water immersion per ASTM D870. **FLEXIBILITY** - per ASTM D756. **CORROSION RESISTANCE** - per ASTM B117. **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. **PUMPS** recognized under the UL standard #778 for operating water pumps with thermal overload and locked rotor protection. **POLYMERIC MATERIALS** listed in accordance with UL 94 and 746C. **MOTORS** recognized under UL component standard #1004 for motor certification. **MOTORS** tested under UL standard #547 for locked rotor and heat rise protection. **BLOWER WHEEL** - balanced in accordance with ISO 1940 and A.N.S.I. standard S2.19, quality grade G6.3. City of Los Angeles (C.O.L.A.), RR8075 Mechanical, RR930159 Electrical (11/2 HP Maximum, Single Phase).

SIZING FAN MODELS

HIGH CFM COOLING FOR LOW STATIC APPLICATIONS

Our 2 Hp Commercial Fan unit delivers as much air as the 5 Hp blower model realizing a fraction of the energy consumption. These models are also available in 3/4 , 1 and 1 1/2 HP single and three phase configurations.



FEATURES

- 19,000 CFM High Capacity Fan
- 70% Less Energy Costs
- Meets or Exceeds Most Local & National Codes
- U.L. Listed

Engineering Data

| Cabinet Dimensions | | | Discharge Dimensions | | | | Drain Location | | Bottom Pan | | Water Service | | Electrical Service | | Pad Frame | | | Pad Filler Dimensions | | Approx. Weight | |
|--------------------|----|----|----------------------|----------|---|---|----------------|-------|------------|-------|---------------|---|--------------------|-------|-----------|--------|-----|-----------------------|-------|----------------|-------|
| | | | Opening | Position | | | | | Depth | Riser | M | N | Y | Z | HT | WIDTH | QTY | HT. | WIDTH | SHIP | OPER. |
| H | W | D | A | B | C | E | F | G | J | K | M | N | Y | Z | HT | WIDTH | QTY | HT. | WIDTH | SHIP | OPER. |
| 60 | 62 | 62 | 46 | 46 | 8 | 8 | 31 | 4 2/3 | 3 1/2 | 17 | 1 1/2 | 7 | 59 | 1 1/2 | 54 1/3 | 27 1/2 | 8 | 54 | 28 | 560 | 800 |

Electrical Data and Certified Air Delivery

| Model Number | Motor Specifications | | | | | | Pump Voltage/ Amperage | Static Pressure (Inches Water) And AMCA Certified Air Flow (CFM) | | | |
|--------------|----------------------|------|---------|---------------|---------------|-------|------------------------|--|--------|--------|--------|
| | Nameplate HP | BHp | Fan RPM | Voltage | Amperage | Phase | | 0.0" | 0.1" | 0.2" | 0.3" |
| | | | | | | | | 16,100 | 14,200 | 11,000 | 7,300 |
| CF2301 | 1.0 | 1.15 | 458 | 120 | 13.2 | 1 | 120 / 1.7 | 18,500 | 16,900 | 14,800 | 10,200 |
| CF2302 | 1.0 | 1.15 | 458 | 240 | 6.6 | 1 | 120 / 1.7 | | | | |
| CF2304 | 1.0 | 1.15 | 458 | 208-240 / 480 | 3.2-3.1 / 1.6 | 3 | 120 / 1.7 | | | | |
| CF2315 | 1.5 | 1.62 | 525 | 120 | 15.1 | 1 | 120 / 1.7 | | | | |
| CF2312 | 1.5 | 1.62 | 525 | 240 | 7.6 | 1 | 120 / 1.7 | 19,000 | 17,200 | 14,800 | |
| CF2314 | 1.5 | 1.62 | 525 | 208-240 / 480 | 4.6-4.8 / 2.4 | 3 | 120 / 1.7 | | | | |
| CF2322 | 2 | 2.2 | 579 | 240 | 8.5 | 1 | 120 / 1.7 | | | | |
| CF2324 | 2 | 2.2 | 579 | 208-240 / 480 | 6.0-5.8 / 2.9 | 3 | 120 / 1.7 | | | | |



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

- Performance certified is for installation type B: free inlet, ducted outlet.
- Performance ratings include the effect of evaporative media.
- Power (BHP) includes transmission losses.

1. 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.
2. A separate 120 volt, 60 hertz, single phase, GFCI protected pump circuit is required to maintain the UL Listing of the evaporative cooler. Pump capacity shown is total for 2 pumps per evaporative cooler.

Phoenix Evaporative Coolers and components are designed and tested in accordance with one or more of the following standards or agencies: **AIR DELIVERY** - data published derived from tests conducted in accordance with A.M.C.A. (Air Movement and Control Assoc.) standard 210. **ASPEN PADS** - built to federal specification PP-E-911 for Type 1, Class A, Grade 4. **SEALANT** - water immersion per ASTM D870. **FLEXIBILITY** - per ASTM D756. **CORROSION RESISTANCE** - per ASTM B117. **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. **PUMPS** recognized under the UL standard #778 for operating water pumps with thermal overload and locked rotor protection. **POLYMERIC MATERIALS** listed in accordance with UL 94 and 746C. **MOTORS** recognized under UL component standard #1004 for motor certification. **MOTORS** tested under UL standard #547 for locked rotor and heat rise protection.



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

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Fax: 602-437-4833



Phoenix Manufacturing, Inc. produces this equipment, with pride and craftsmanship, in the U.S.A. As a leader in our country's evaporative cooler production, we continuously strive to offer product improvements and reserve the right to change specifications and designs without notice.