

# ASPEN MEDIA INDUSTRIAL COOLERS



### **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.









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.



DOWN DISCHARGE

- 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



SIDE DISCHARGE

4 | Figiking Commercial Coolers



### **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 ¾, 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.

#### **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.

D/H 8801



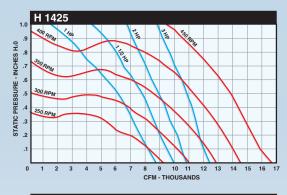
DOWN DISCHARGE

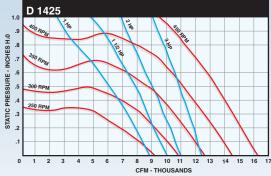


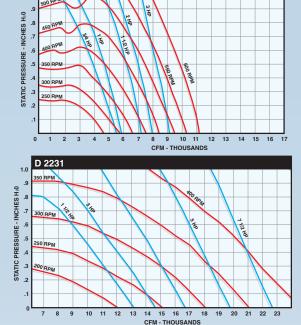
SIDE DISCHARGE

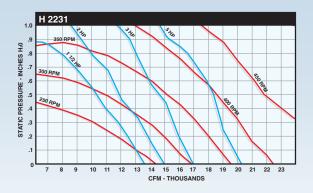
#### **ENERGY EFFICIENCY & PERFORMANCE**

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.





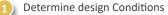




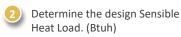
#### **SIZING INSTRUCTIONS**

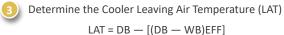
Use the performance tables below and the adjacent procedure to properly size these Commercial Cooler units. The performance or Sensible Heat Capacity of any evaporative cooler is a function of both the CFM and the efficiency (air discharge temperature). Both of these specifications should be considered to properly size the units.

Static pressure, or duct system resistance, also impacts air delivery. Once the model number, CFM air delivery required and static pressure are known, identify the blower wheel RPM in the column to the right of that CFM air delivery. This will ensure a properly sized sheave.



- Outside Dry-Bulb (DB)
- Outside Wet-Bulb (WB)
- Inside Dry-Bulb (TI)

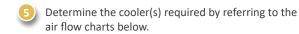




Where EFF ≈ .80 for Aspen media

4) Determine the CFM required

 $CFM = \frac{0.925 \times Sensible Heat Load}{1}$ (TI - LAT)



#### **SHEAVE SELECTION**

All sheaves listed are adjustable to meet the blower speed RPM requirements for your application. Using the model number combined with the motor horse power and blower RPM, use this chart to locate the corresponding part number in the far right column.

Motors of varying and identical horse power may have different motor shaft sizes. Be certain the motor shaft diameter and motor sheave bore size are the same size.



#### **U.L. CLASSIFIED MODELS**

The Commercial Cooler models are UL Classified. In order to maintain this U.L. Classified designation, these models must be used in conjunction with PMI supplied Motors, Sheaves, Pumps and Junction Box kits (JBK). See price sheets for details.

#### **U.L. Listed Models**

To specify and order a U.L. Listed model, add a "U" prefix to the front of the appropriate model number.

Example: UD2231

### **Technical Information**

Performance shown is installation Type B - free inlet, duct outlet. Power Rating (B.H.P.) does not include drive losses. Performance ratings include the effects of evaporative media in the airstream.

Certified Air Delivery at Various External Static											Pressures  - Blower RPM Values based on motor RPM 1725 - AMCA Licensed Ratings												
Static Pressure .0"				.1"		.2"		.3"		.4	.4"		.5"		.6"		,,,	.8"		.9	"	1.0	0"
Number	Max HP Required	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM								
D/H 8801	3/4	5480	303	5200	317	4950	332	4650	348	4350	366	4000	385	3631	406	3274	428	2790	457	2191	492	1617	521
D/H 8801	1	6030	332	5800	347	5550	360	5300	373	5020	388	4700	406	4400	425	4075	441	3770	461	3400	483	2909	512
D/H 8801	1 1/2	7230	384	6997	395	6769	408	6544	420	6316	432	6084	445	5849	458	5607	472	5354	486	5107	499	4883	513
D/H 8801	2	7958	384	7746	409	7538	444	7332	455	7127	466	6919	478	6708	489	6496	500	6279	513	6052	526	5822	538
D/H 8801	3	9110	483	8923	492	8741	502	8560	511	8381	522	8202	532	8021	541	7838	551	7654	561	7468	571	7280	582
D 1425	1	8675	240	8153	255	7679	267	7144	282	6636	297	6111	312	5505	332	4685	357	3774	394	3080	420	2552	439
D 1425	1 1/2	9930	275	9462	286	9053	299	8618	311	8146	323	7701	337	7257	350	6771	365	6218	383	5506	404	4777	434
D 1425	2	10930	302	10497	313	10120	324	9744	335	9329	347	8901	358	8499	370	8099	382	7671	394	7205	410	6666	427
D 1425	3	12511	346	12126	356	11785	365	11462	375	11131	384	10770	395	10393	404	10029	414	9681	425	9333	436	8966	446
H 1425	1	8616	235	8114	248	7662	263	7148	279	6614	295	6003	310	5498	333	4553	362	3506	395	2917	417	2635	437
H 1425	1 1/2	9862	269	9411	287	9021	294	8606	307	8152	320	7691	335	7164	347	6664	364	6221	384	5400	407	4386	441
H 1425	2	10855	296	10438	307	10077	318	9720	330	9322	342	8909	355	8490	367	8019	379	7535	391	7141	411	6677	426
H 1425	3	12426	339	12053	348	11727	357	11420	369	11104	378	10758	389	10396	399	10037	411	9666	422	9254	432	8822	442
D 2231	1 1/2	13131	219	12494	229	11804	241	11100	254	10382	266	9642	280	8908	294	8172	310	7049	332	5637	364	4762	386
D 2231	2	14453	241	13879	250	13261	260	12623	272	11982	283	11323	295	10651	307	9982	320	9328	334	8555	350	7340	374
D 2231	3	16545	276	16049	283	15520	292	14970	302	14411	312	13852	322	13283	332	12700	342	12112	353	11527	364	10952	375
D 2231	5	19616	327	19203	333	18767	340	18314	348	17850	356	17380	364	16909	373	16437	381	15959	390	15472	398	14978	407
D 2231	7 1/2	22454	374	22096	380	21722	386	21335	392	20937	399	20532	406	20122	413	19711	420	19300	428	18887	435	18471	443
H 2231	1 1/2	13466	239	12747	249	12361	262	11672	271	10769	281	10316	295	9637	308	8651	320	7902	336	6851	361	5664	392
H 2231	2	14821	263	14122	271	13756	284	13325	294	12514	301	11770	311	11376	324	10830	336	9931	346	9157	360	8462	376
H 2231	3	16966	301	16304	308	15927	318	15631	329	15216	337	14519	343	13766	350	13299	361	12976	373	12510	383	11762	392
H 2231	5	20115	357	19512	362	19114	369	18836	379	18590	388	18292	396	17854	402	17233	406	16573	412	16056	420	15722	430



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 shown is installation Type B - free inlet, duct outlet. Power Rating (B.H.P.) does not include transmission losses. Performance ratings include the effects of evaporative media in the airstream.

<b>Sheave S</b>	election			Blower RPM Values based on motor RPM 1725							
Model Number	Motor H.P.	I.D.		Blower	RPM - Sh	eave Turi	ns Open		DMI Dart	Browning	
woder Number	WOLOT TI.F.	1.0.	5	4	3	2	1	0	Fivil Fait	Browning	
D/H 8801	3/4, 1, 1 1/2, 2	5/8	234	259	283	308	333	357	S1	1VL 34	
D/H 8801	3/4, 1, 1 1/2, 2	7/8	234	259	283	308	333	357	S1A	1VL 34	
D/H 8801	3/4, 1, 1 1/2, 2	5/8	296	320	345	370	394	419	S2	1VP 40	
D/H 8801	3/4, 1, 1 1/2, 2	7/8	296	320	345	370	394	419	S2A	1VL 40	
D/H 8801	3/4, 1, 1 1/2, 2	5/8	345	370	394	419	444	468	S3	1VL 44	
D/H 8801	3/4, 1, 1 1/2, 2	7/8	345	370	394	419	444	468	S3A	1VL 44	
D/H 8801	3/4, 1, 1 1/2, 2	5/8	419	444	468	493	518	542	S4A	1VM 50	
D/H 8801	3/4, 1, 1 1/2, 2	7/8	419	444	468	493	518	542	S4	1VM 50	
D/H 8801	3	1 1/8	419	444	468	493	518	542	S4B	1VP 50	
D/H 8801	3	1 1/8	492	518	542	567	592	616	S11B	1VP 56	
D/H 1425	1, 1 1/2, 2	5/8	230	249	268	288	307	326	S2	1VP 40	
D/H 1425	1, 1 1/2, 2	7/8	230	249	268	288	307	326	S2A	1VL 40	
D/H 1425	1, 1 1/2, 2	5/8	268	288	307	326	345	364	S3	1VL 44	
D/H 1425	1, 1 1/2, 2	7/8	268	288	307	326	345	364	S3A	1VL 44	
D/H 1425	1, 1 1/2, 2	5/8	326	345	364	383	403	422	S4A	1VM 50	
D/H 1425	1, 1 1/2, 2	7/8	326	345	364	383	403	422	S4	1VM 50	
D/H 1425	1, 1 1/2, 2	5/8	383	403	422	441	460	479	S11	1VP 56	
D/H 1425	1, 1 1/2, 2	7/8	383	403	422	441	460	479	S11A	1VP 56	
D/H 1425	3	1 1/8	326	345	364	383	403	422	S4B	1VP 50	
D/H 1425	3	1 1/8	383	403	422	441	460	479	S11B	1VP 56	
D/H 2231	1 1/2, 2	5/8	192	211	230	249	268	288	S5A	2VP 36	
D/H 2231	1 1/2, 2	7/8	192	211	230	249	268	288	S5	2VP 36	
D/H 2231	1 1/2, 2	5/8	249	268	288	307	326	345	S6A	2VP 42	
D/H 2231	1 1/2, 2	7/8	249	268	288	307	326	345	S6	2VP 42	
D/H 2231	1 1/2, 2	5/8	326	345	364	383	403	422	S8A	2VP50	
D/H 2231	1 1/2, 2	7/8	326	345	364	383	403	422	S8B	2VP 50	
D/H 2231	3, 5	1 1/8	249	268	288	307	326	345	S7	2VP 42	
D/H 2231	3, 5	1 1/8	326	345	364	383	403	422	S8	2VP 50	
D/H 2231	5	1 1/8	403	422	441	460	479	498	S9	2VP 60	
D 2231	7 1/2	1 3/8	355	374	393	413	431	452	S8C	-	
D 2231	7 1/2	1 3/8	403	422	441	460	479	498	S9C	2VP68	

Wate	r Blee	d Off Rate	
Model	Motor H.P.	M A X ( G P H ) Usage including Bleed off	Bleed Off (GPH)
D/H 8801	3/4	25	3.8
D/H 8801	1	28	3.8
D/H 8801	1 1/2	34	6.2
D/H 8801	2	37	6.2
D/H 8801	3	43	6.2
D/H 1425	1	41	6.2
D/H 1425	1 1/2	47	6.2
D/H 1425	2	51	6.2
D/H 1425	3	59	6.2
D/H 2231	1 1/2	56	6.2
D/H 2231	2	61	6.2
D/H 2231	3	70	6.2
D/H 2231	5	82	6.2
D 2231	7 1/2	90	6.2

Pump	Speci	ficatio	ons	
Pump Model	Volts	Amps	Watts	GPM AT 5' HEAD
PK60LA	120	1.7	105	7.3
PK62LA	240	1.1	105	7.3

Required	Required Belt Change											
Model	Motor H.P.	Belt Size										
H 8801	3	A79										
D 8801	1 1/2 HP & UP	A76										
D/H 1425	3 HP w/ S11 sheave only	A96										
D 2231	7 1/2	A105										

Technical M	otor Specifi	cations						
Model Number	H.P.	Phase	Volt	Amperage	Weight/lbs.	Base	Frame	Shaft O.D.
*M180	3/4 - 2 spd.	1	120	10.5-5.8	32.3	Resilient	56	5/8
*M161	3/4	1	120 / 208-240	10.6 / 5.3	24.2	Resilient	56	5/8
M163B	3/4	3	208-240 / 480	2.7-2.8/1.4	22	Resilient	56	5/8
*M181A	1 - 2 spd.	1	120	11.8 / 6.1	32.3	Resilient	56	5/8
*M165	1	1	120 / 208-240	14.0 / 7.0	30.2	Resilient	56	5/8
M166C	1	3	208-240 / 480	3.3-3.1 / 1.6	40	Rigid	143T	7/8
M167B	1	3	200	3.6	40	Rigid	143T	7/8
*M168	1 - 2 spd.	1	240	7.2	32.4	Resilient	56	5/8
*M169A	1 1/2	1	120 / 208-240	18 / 9.3-9	41.7	Resilient	56H	5/8
M170C	1 1/2	3	208-240 / 480	4.6-4.4 / 2.2	40	Rigid	145T	7/8
M171B	1 1/2	3	200	5.1	40	Rigid	145T	7/8
*M172A	2	1	120 / 208-240	21 / 11.3-10	50	Resilient	56H	5/8
M173C	2	3	208-240 / 480	6.2-5.8 / 2.9	44	Rigid	145T	7/8
M174B	2	3	200	6.7 / 6.0	44	Rigid	145T	7/8
M176C	3	3	208-240 / 480	8.4-7.8 / 3.9	75	Rigid	182T	1 1/8
M177B	3	3	200	10.6 / 10.2	55	Rigid	182T	1 1/8
M178C	5	3	208-240 / 480	13.6-12.4 / 6.2	81	Rigid	184T	1 1/8
M179B	5	3	200	15.2-14.6	70	Rigid	184T	1 1/8
M182B	7 1/2	3	208-240 / 480	19.2-9.6	121	Rigid	213T	1 3/8

All 3 phase motors, 1 HP or greater, are high-efficiency motors. Their efficiency levels meet or exceed U.S. EPACT



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

<sup>\*</sup>Indicates the motor is thermally protected, eliminating the need for external starting devices.

## **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.

## 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.















#### **CSB** COMMERCIAL SWITCH BOX

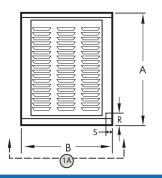
The CSB (Commercial Switch Box) by PMI is a factory wired solution that provides independent manual controls for both the pump and motor for your industrial air cooler

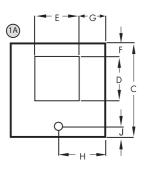


#### CTP COMMERCIAL THERMOSTAT PACKAGE

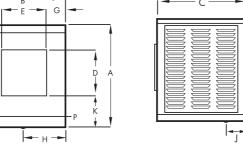
The CTP (Commercial Thermostat Package) is specifically designed to retrofit your existing industrial cooler with thermostatic control. The CTP includes a factory wired NEMA 4X rated junction box, and the SPCT "Green Stat" 7-Day Programmable thermostat.

#### **Bottom Discharge**





Side Discharge



#### **Commercial/Industrial Engineering Data** Cabinet Dimensions (Inches) Pad Filler Approx Model Pulley Approx. Wheel Number Pitch Opening Inlet Oper. Wt. D/H Diameter Dia Width С D E F G H J K \*P R Ht. Width Nο 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 4/3 45 D/H 8801 21 20 A74/A76 14 Single 280 35 D/H 1425 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 22 24 24 A94/A94 18 Single 52 52 415 8/6 45 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 8/6 54 550 26

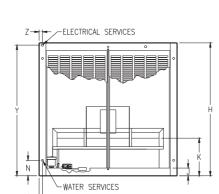
esigned and tested in accordance with one or more of the following standards or agencies: AIR DELIVERY - data published de Movement and Control Assoc.) standard 210. ASPEN PADS - built to federal specification PP-E-911 for Type 1, Class A, Grade 4, SEALANT - water immersion per ASTM D876. FLXIBILITY - per ASTM D766. CORROSION RESISTANCE - per ASTM B117. PENCIL HARDNESS - per ASTM D363. 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 #847 for locked rotor and heat rise protection. 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**

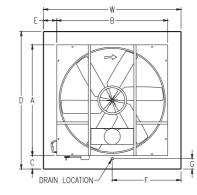
#### HIGH CFM COOLING FOR LOW STATIC APPLICATIONS

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.





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#### **FEATURES**

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

Enç	jine	erin	g D	ata																		
	–				charge I	Dimensi	ions		Drain Bottom Pan			Water		Electrical		Pad Frame			Pad Filler		Aprox. Weight	
Dii	mensio	ns	Ope	ning	Pos	ition	Loca	ation	Depth	Riser	Ser	vice	Ser	vice	Pad Frame  HT WIDTH QTY 54 1/3 27 1/2 8		Dime	nsions	Aprox. Weight			
н	W	D	Α	В	С	E	F	G	J	K	М	N	Υ	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	

Electr	Electrical Data and Certified Air Delivery													
Model			Motor	Specifications			Pump Voltage/	Static Pressure (Inches Water) And AMCA Certified Air Flow (CFM)						
Number	Nameplate HP	ВНр	Fan RPM	Voltage	Amperage	Phase	Amperage	0.0"	0.1"	0.2"	0.3"			
CF2301	1.0	1.15	458	120	13.2	1	120 / 1.7			11,000	7,300			
CF2302	1.0	1.15	458	240	6.6	1	120 / 1.7	16,100	14,200					
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		16,900	14,800	10,200			
CF2312	1.5	1.62	525	240	7.6	1	120 / 1.7	18,500						
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		19.000	17,200	14 000			
CF2324	2	2.2	579	208-240 / 480	6.0-5.8 / 2.9	3	120 / 1.7		19,000		14,800			



Phoenix Manufacturing, Inc. cer tifies 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, GFCl 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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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

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PMI - JUNE 2018