



# CHAMPION • MARQUIS

## INDUSTRIAL/COMMERCIAL EVAPORATIVE COOLERS



75/85 DD

75/85 SD

95 DD

95 SD



10/12 DD

10/12 SD

14/21 DD

14/21 SD

MAKE YOUR MARK WITH A CHAMPION MARQUIS



**CHAMPION COOLER**  
 certifies that the evaporative air coolers shown here 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 Certified Ratings Program.



# S P E C I

## MARK INCREASED PRODUCTIVITY

If you want to make your mark in warm temperatures, start with the best evaporative air cooler on the market...Champion Marquis Industrial/Commercial evaporative air coolers. These heavy duty coolers are available in side- and down-discharge models and are designed to provide peak cooling performance for all types of commercial and industrial workplace settings. Champion Marquis coolers are a good match for industries where heat is intense. They provide the highest air performance in the industry, and a cost-effective way to raise employee comfort levels, increase work productivity and comply with government and union codes. They are economical to use even in large plant areas or areas previously considered too expensive to cool by refrigerated air.

As Champion Marquis coolers deliver high volumes of cool air, they also keep air circulating. Cool, clean fresh air is pumped in from the outside while warm air is forced out through open doors, windows and vents. This movement helps remove dust, pollen, smoke, odors and airborne contaminants from the environment. This is particularly beneficial in environments where contaminants reach irritating levels such as in welding, plating and cleaning areas.

## MARK LONG-LASTING DURABILITY

Champion Marquis Industrial/Commercial coolers are built to last. In fact, Champion cooler puts every cooler through a series of test before it leaves the manufacturing facility. All steel components (excluding the blower wheel, shaft, and pulley) are chemically treated and covered with an electrostatically-applied polyester finish at a thickness of 1 to 1.5 mil to protect the cooler from scratches and corrosion. This finish meets or exceeds requirements for the following tests:

- 1000-Hour Salt Spray Test-ASTM B117
- Abrasion Resistance Test-ASTM 4060-84
- Impact Resistance Test-ASTM D2794
- 2400-Hour Immersion Test-ASTM D870
- Adhesion Test-ASTM D3359

### DOWN DISCHARGE

MODEL NO.	BHP	MOTOR PART NO.	SPEED	PHASE	VOLTS	AMPS**	SHAFT DIA.	BELT PART NO.
75/85 DD*	3/4	110455	1	1	115/208-230	13.8/7.6-6.9	5/8	4L-830
		110456	2	1	230	6.9	5/8	
		110461	1	3	208-230/460	3.5-3.2/1.6	5/8	
Comment B	1	110457	1	1	115/230	16/8	5/8	4L-830
		110458	2	1	230	8	5/8	
		110462-9	1	3	208-230/460	4.6-4.2/2.1	7/8	
95 DD*	1 1/2	110459	1	1	115/208-230	20/11-10	7/8	4L-850
		110463-9	1	3	208-230/460	6.6-6/3	7/8	
	Comment B	2	110460	1	1	115/208-230	24/13.2-12	
110464-9			1	3	208-230/460	7.5-6.8/3.4	7/8	
10/12 DD	1 1/2	110457	1	1	115/230	16/8	5/8	4L-980
		110458	2	1	230	8	5/8	
	Comment D	2	110462-9	1	3	208-230/460	4.6-4.2/2.1	
110459			1	1	115/208-230	20/11-10	7/8	
14/21 DD	1 1/2	110463-9	1	3	208-230/460	6.6-6/3	7/8	B-108
		110460	1	1	115/208-230	24/13.2-12	7/8	
	Comment D	3	110464-9	1	3	208-230/460	7.5-6.8/3.4	
110465-9			1	3	208-230/460	10.6-9.6/4.8	1 1/8	
Comment D	5	110466-9	1	3	208-230/460	16.7-15.2/7.6	1 1/8	B-108

COMMENTS: A. MOTOR, PULLEY, BULT, PUMP SOLD SEPARATELY. C. MOTOR, PULLEY, BELT(S), & PUMP SOLD SEPARATELY. B. MOTOR, PULLEY, & PUMP SOLD SEPARATELY. D. MOTOR, PULLEY, PUMP, FLOAT, & BLEED OFF SOLD SEPARATELY.

### SIDE DISCHARGE

MODEL NO.	BHP	MOTOR PART NO.	SPEED	PHASE	VOLTS	AMPS**	SHAFT DIA.	BELT PART NO.
75/85 SD*	3/4	110455	1	1	115/208-230	13.8/7.6-6.9	5/8	4L-830
		110456	2	1	230	6.9	5/8	
		110461	1	3	208-230/46	3.5-3.2/1.6	5/8	
Comment B	1	110457	1	1	115/230	16/8	5/8	4L-830
		110458	2	1	230	8	5/8	
		110462-9	1	3	208-230/460	4.6-4.2/2.1	7/8	
95 SD*	1 1/2	110459	1	1	115/208-230	20/11-10	7/8	4L-850
		110463-9	1	3	208-230/460	6.6-6/3	7/8	
Comment B	2	110460	1	1	115/208-230	24/13.2-12	7/8	4L-850
		110464-9	1	3	208-230/460	7.5-6.8/3.4	7/8	
10/12 SD	1 1/2	110457	1	1	115/230	16/8	5/8	4L-980
		110458	2	1	230	8	5/8	
	Comment D	2	110462-9	1	3	208-230/460	4.6-4.2/2.1	
110459			1	1	115/208-230	20/11-10	7/8	
14/21 SD	1 1/2	110463-9	1	3	208-230/460	6.6-6/3	7/8	B-108
		110460	1	1	115/208-230	24/13.2-12	7/8	
	Comment D	3	110464-9	1	3	208-230/460	7.5-6.8/3.4	
110465-9			1	3	208-230/460	10.6-9.6/4.8	1 1/8	
Comment D	5	110466-9	1	3	208-230/460	16.7-15.2/7.6	1 1/8	B-108

\*Cabinets have float installed; belt included. Pump, motor, motor sheave are shipped separately.  
 \*\* Amperage shown is from National Electric Code. Use amperage on motor nameplate to determine motor protector.

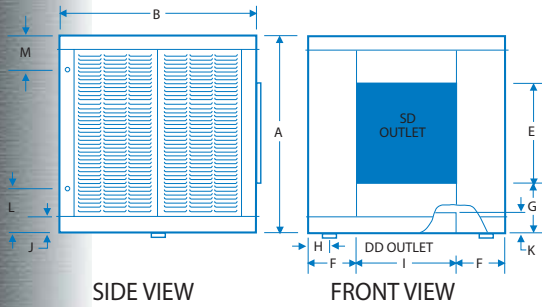
# F I C A T I O N S

DOWN DISCHARGE																							
		CFM INCHES STATIC PRESSURE																					
MODEL NO.	SHEAVE PART NO.	0		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
75/85 DD*	110308 110279-003	6074	300	5806	314	5479	330	5144	348	4812	364	4482	381	4132	399	3753	419						
	110279-003	6685	330	6449	342	6160	357	5854	373	5552	388	5255	403	4951	418	4638	434	4299	452				
	110306-1	6685	330	6449	342	6160	357	5854	373	5552	388	5255	403	4951	418	4638	434	4299	452	3935	473		
	† 110302 † 110299	6685	330	6449	342	6160	357	5854	373	5552	388	5255	403	4951	418	4638	434	4299	452	3935	473		
95 DD*	110302 110299	7653	378	7453	388	7212	400	6949	414	6683	428	6417	441	6158	454	5893	467	5629	481	5357	495	5068	510
	110299	8424	416	8247	425	8035	436	7802	448	7560	460	7320	473	7078	485	6840	497	6602	509	6363	521	6122	533
	110304 110300	9642	477	9493	484	9315	493	9121	503	8918	513	8706	524	8493	535	8283	546	8071	556	7864	567	7657	577
10/12 DD	110308 † 110309	9225	246	8673	258	8215	274	7607	286	7098	300	6581	314	6038	330								
	110302 110299	10575	282	10004	293	9680	306	9213	318	8822	329	8315	342	7906	354	7372	366	6847	380				
	110299	11625	310	11193	320	10793	331	10360	342	9986	354	9551	364	9186	376	8755	386	8386	398	7904	409	7434	423
14/21 DD	110290	13245	214	12690	224	11955	236	11121	248	10415	260	9789	272	9032	285	8016	300						
	110290 110289	14607	236	14106	245	13520	255	12692	266	12093	278	11388	288	10728	298	10042	310	9337	323	8694	339		
	110291	16711	270	16299	278	15726	285	15138	295	14557	306	13897	315	13379	325	12821	334	12246	343	11583	353	11002	363
	110291 110304-1	19806	320	19481	327	19043	333	18606	340	18088	348	17544	357	16983	365	16558	374	16079	382	15528	389	15110	397

SIDE DISCHARGE																							
		CFM INCHES STATIC PRESSURE																					
MODEL NO.	SHEAVE PART NO.	0		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
75/85 SD*	110308 110279-003	5905	317	5670	330	5405	342	5110	355	4795	369	4456	385	4089	403								
	110279-003	6498	349	6289	360	6054	372	5799	383	5523	395	5233	408	4922	422	4592	439	4245	458				
	110306-1	6498	349	6289	360	6054	372	5799	383	5523	395	5233	408	4922	422	4592	439	4245	458	3882	480		
	† 110302 † 110299	6498	349	6289	360	6054	372	5799	383	5523	395	5233	408	4922	422	4592	439	4245	458	3882	480		
95 SD*	110299	6868	420	6724	424	6572	429	6411	436	6246	443	6071	452	5885	463	5683	474	5464	487	5227	501	4965	516
	110299	7558	462	7429	466	7291	470	7148	475	7002	482	6850	489	6688	497	6522	507	6345	517	6156	528	5952	540
10/12 SD	110308 † 110309	8567	261	8052	275	7595	287	7140	299	6659	313	6132	328	5557	346								
	110302 110299	9807	299	9347	311	8939	322	8544	332	8144	343	7729	354	7282	367	6805	382	6274	399				
	110299 110307-1	10794	329	10374	340	9994	350	9630	360	9269	369	8908	379	8522	390	8130	401	7704	414	7250	429	6753	445
14/21 SD	110290	12386	226	11713	237	11083	247	10451	257	9785	267	9067	279	8284	294	7427	311						
	110290 110289	13633	249	13016	259	12439	268	11868	277	11281	286	10674	296	10025	307	9313	320	8557	334	7758	351		
	110291	15606	285	15063	294	14551	302	14050	310	13553	318	13042	325	12522	334	11969	343	11390	353	10777	364	10133	376
	110291 110304-1	18502	338	18044	346	17598	353	17167	360	16749	366	16334	372	15906	379	15478	386	15035	393	14581	400	14115	408

Performance shown in the Performance Data Tables above is for type B - free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.  
 † These sheaves have a 7/8 bore for use with motors with 7/8 shaft.

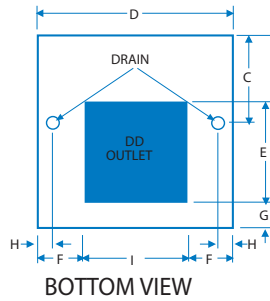
# GENERAL SPECIFICATIONS



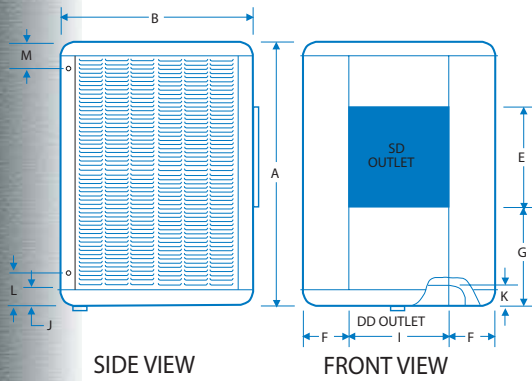
SIDE VIEW

FRONT VIEW

**INDUSTRIAL**  
 10/12 SD & DD  
 14/21 SD & DD



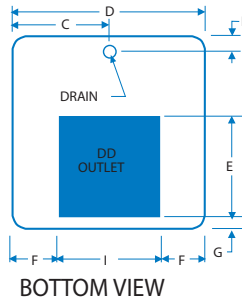
BOTTOM VIEW



SIDE VIEW

FRONT VIEW

**COMMERCIAL**  
 75/85 SD & DD  
 95 SD & DD



BOTTOM VIEW

## SIDE & DOWN UNITS

### CABINET SPECIFICATIONS\*

MODEL NO.	CABINET			ELECT.	DUCT				DRAIN		WATER SERVICE		
	A	B	D		OPENING		LOCATION		LOCATION		L	J	
75/85 DD	53 3/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	4 7/8	9 3/4	5 3/4	20 3/8	5 7/8	4	4 3/8
95 DD	53 3/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	4 7/8	9 3/4	5 3/4	20 3/8	5 7/8	4	4 3/8
10/12 DD	53 3/8	50	50	7 7/16	26 7/8	26 7/8	4	11 7/16	4	25	7 7/16	4	4 7/16
14/21 DD	61 1/4	62	62	7 7/16	31 3/4	31 3/4	7	15 1/8	4	31	7 7/16	4	4 7/16
75/85 SD	53 3/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	17	9 3/4	8 1/2	16 1/2	5 7/8	4	
95 SD	53 3/8	41 1/4	41 1/4	4 1/2	21 3/4	21 3/4	17	9 3/4	8 1/2	16 1/2	5 7/8	4	
10/12 SD	53 3/8	50	50	7 7/16	26 7/8	26 7/8	20 1/2	11 7/16	4	25	7 7/16	4	
14/21 SD	61 1/4	62	62	7 7/16	31 3/4	31 3/4	22 1/2	15 1/8	4	31	7 7/16	4	

\*All dimensions in inches.

## SIDE & DOWN UNITS

### GENERAL SPECIFICATIONS\*

MODEL NO.	ASPEN PADS	EFFECTIVE PAD AREA	BLOWER WHEEL			BLOWER PULLEY PITCH	WEIGHT	
			DIA.	WID.	SHAFT		SHIP <sup>1</sup>	OPERATING <sup>2</sup>
75/85 DD	(8)24X36	5,916	21 7/8	19 1/2	1	14	298	398/419
95 DD	(8)24X36	5,916	21 7/8	19 1/2	1	14	298	430/437/473
10/12 DD	(16)22X23 1/2	6,776	25 1/4	23	1 3/16	18	470	651/659/664
14/21 DD	(16)28X27	10,416	29 1/8	26 3/4	1 3/16	18.4 (2 Groove)	666	933/938/950/965
75/85 SD	(6)24X36	4,437	21 7/8	19 1/2	1	14	276	451/455
95 SD	(6)24X36	4,437	21 7/8	19 1/2	1	14	276	466/473
10/12 SD	(12)22X23 1/2	5,082	25 1/4	23	1 3/16	18	462	718/726/731
14/21 SD	(12)28X27	7,812	29 1/8	26 3/4	1 3/16	18.4 (2 Groove)	662	1037/1042/1054/1069

\*All dimensions in inches.

- Shipping weight is unit and packaging. (Motor shipped separately).
- Operating weight is with motor installed and water at proper level.

### TYPICAL WATER USAGE AT "0" STATIC\*\*

MODEL NO.	H.P.	GPH	MODEL NO.	H.P.	GPH	MODEL NO.	H.P.	GPH
75/85 DD	3/4	18	95 DD	3	29	14/21 DD	1 1/2	40
75/85 DD	1	20	10/12 DD	1	28	14/21 DD	2	44
95 DD	1 1/2	23	10/12 DD	1 1/2	32	14/21 DD	3	50
95 DD	2	25	10/12 DD	2	35	14/21 DD	5	60
75/85 SD	3/4	18	10/12 SD	1	26	14/21 SD	1 1/2	39
75/85 SD	1	19	10/12 SD	1 1/2	29	14/21 SD	2	43
95 SD	1 1/2	22	10/12 SD	2	32	14/21 SD	3	47
95 SD	2	25	10/12 SD	2	32	14/21 SD	5	58

\*\*Water usage varies as to the unit location and temperature.

### PUMP SPECIFICATIONS

MODEL NO.	UNIT	VOLTS	HZ	AMPS	WATTS	RPM	H.P.	PH	GPM	HEAD
110467-1	75/85 & 95	115	60	1.2	73	3000	1/50	1	3.8	5 FT.
110468-1	75/85 & 95	230	60	0.8	77	3000	1/50	1	3.8	5 FT.
110467	10/12 & 14/21	115	60	1.2	73	3000	1/40	1	4.6	5 FT.
110468	10/12 & 14/21	230	60	0.8	77	3000	1/40	1	4.6	5 FT.

Pump: High performance, thermally protected, UL and City of Los Angeles listed.



# CHAMPION • MARQUIS

Champion Cooler, 5800 Murray, Little Rock, AR 72209 800-643-8341 www.championcooler.com