

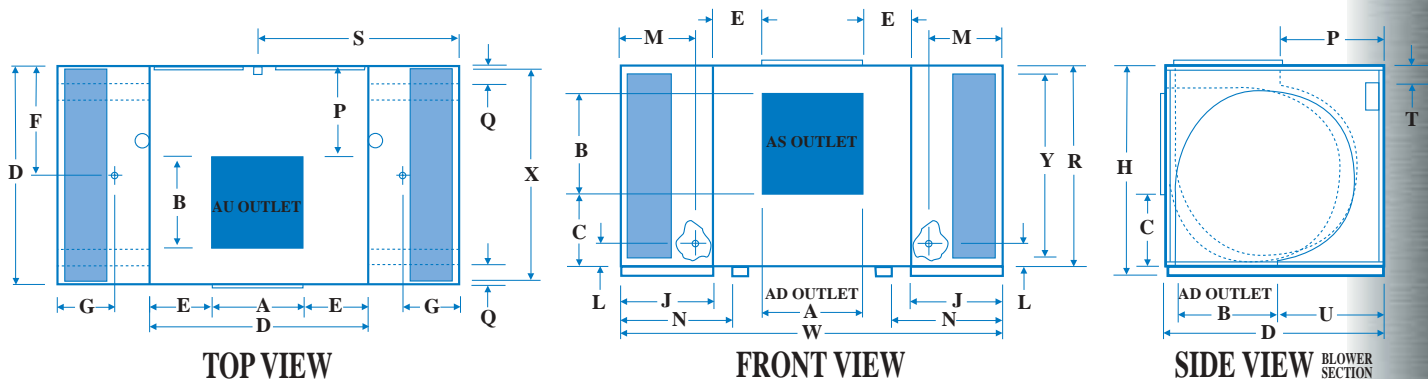


CHAMPION • MARQUIS

# ULTRACOOOL



SPECIFICATION *G*UIDE FOR COMMERCIAL MODELS



**DIMENSIONAL DATA\***

BLOWER MODEL NUMBER	WET MODULE NUMBER	CABINET			DUCT OPENING		DUCT LOCATION				DRAIN LOCATION		WET MODULE		MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS	
		H	W	D	A	B	C(AS)	U(AD)	P(AU)	E	F	G	J	X	Y	L	M	S	T	N	Q	R
AS/AD 100B	100W	44	82	45	21 3/4	21 3/4	13 19/32	21 11/32	N/A	11 5/8	22 1/2	12 1/2	18 1/2	44 3/4	36 5/8	5 7/8	14 5/8	39 7/8	5 5/32	23 1/4	4 3/4	42
AS/AD 10012B	10012W	44	90	45	21 3/4	21 3/4	13 19/32	21 11/32	N/A	11 5/8	22 1/2	16 1/2	22 1/2	44 3/4	36 5/8	5 7/8	18 5/8	43 7/8	5 5/32	27 1/4	4 3/4	42
AS/AD 150B	150W	54	85 1/4	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	N/A	10 11/16	24 1/8	12 1/2	18 1/2	48	46 3/8	5 7/8	14 5/8	41 1/2	5 5/32	23 1/4	4 3/4	52
AS/AD 15012B	15012W	54	93 1/4	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	N/A	10 11/16	24 1/8	16 1/2	22 1/2	48	46 3/8	5 7/8	18 5/8	45 1/2	5 5/32	27 1/4	4 3/4	52
AS/AD/AU 20012B	20012W	59 1/4	105 1/4	60 1/4	31 3/4	31 3/4	18 11/16	25 1/4	24 29/32	14 1/4	30 1/8	16 1/8	22 1/2	60	51 3/8	5 7/8	18 5/8	51 5/8	5 5/32	27 1/4	4 3/4	57 1/4

\* All measurements in inches.

**SPECIFICATIONS PERFORMANCE** Certified Air Delivery At 1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge)

MAX B.H.P.	OPER. WGT.	AD MODEL BELT	AS MODEL BELT	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
2	967	B90	B96	11375	303	10905	314	10482	324	10079	335	9678	346	9265	356	8830	368	8366	380	7867	394	7325	409	6753	426
3	980	B92	B100	13020	346	12604	356	12225	365	11865	375	11514	384	11165	393	10807	403	10440	413	10058	423	9651	433	9220	445
5	996	B93	B100	15438	410	15084	419	14749	427	14434	435	14133	443	13838	450	13540	458	13246	466	12899	474	12640	482	12328	490
7-1/2	1032	B95	B101	17672	470	17360	477	17060	484	16777	491	16505	498	16242	505	15983	512	15724	519	15463	526	15207	532	14947	539

Performance shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Models AS/AD 15012 include the affects of a 12 inch thick evaporative media on the inlet. When the Cooler Model No, Motor H.P., & Blower Speed are determined from the SPECIFICATION table above, use this information to select the proper pulley-belt kit from the SHEAVE SELECTION table below.

**MOTOR SPECIFICATIONS**

BLOWER MOTORS H.P.	OPER. SPEED	VOLTS	PHASE	MOTOR AMPS*	SHAFT DIA.	MOTOR WGT(LB)	MOTOR PART NO.	PUMP PART NO.	VOLTS	AMPS	WATTS	GPM (5 FT. HEAD)
								2	1	115/208-230	1	24/13.2-12
2	1	208-230/460	3	7.5-6.8/3.4	7/8	44	110464-9	110468	230	0.58	77	4.6
3	1	208-230/460	3	10.6-9.6/4.8	1 1/8	83	110465-9	Pumps - 2 Required.				
5	1	208-230/460	3	16.7-15.2/7.6	1 1/8	87	110466-9					
7 1/2	1	208-230/460	3	24.2-22/11	1 3/8	121	110470-9					

\* Amperage shown is from National Electrical Code. Use amperage shown on motor nameplate to determine motor protector.

**SHEAVE SELECTION**

MOTOR H.P.	MAUREY SHEAVE	SHEAVE BORE	AD MODEL BELT	AS MODEL BELT	BLOWER RPM/MOTOR SHEAVE 1/2 TURN DOWN											CHAMPION-AD PULLEY-BELT KIT NO.	CHAMPION-AS PULLEY-BELT KIT NO.	
					12	11	10	9	8	7	6	5	4	3	2			1
2	D8400	7/8	B90	B96	291	299	308	316	325	333	342	350	359	367	376	384	3DI-50	3DI-70
2	D8450	7/8	B90	B96	347	356	364	373	381	390	398	407	415	424	432	441	3DI-52	3DI-72
3	D8450	1 1/8	B92	B100	347	356	364	373	381	390	398	407	415	424	432	441	3DI-56	3DI-75
5	D8550	1 1/8	B93	B100	403	412	420	429	437	446	454	463	471	480	488	497	3DI-60	3DI-80
7-1/2	D8600	1 3/8	B95	B101	459	468	476	485	493	502	510	519	527	536	544	553	3DI-65	3DI-86

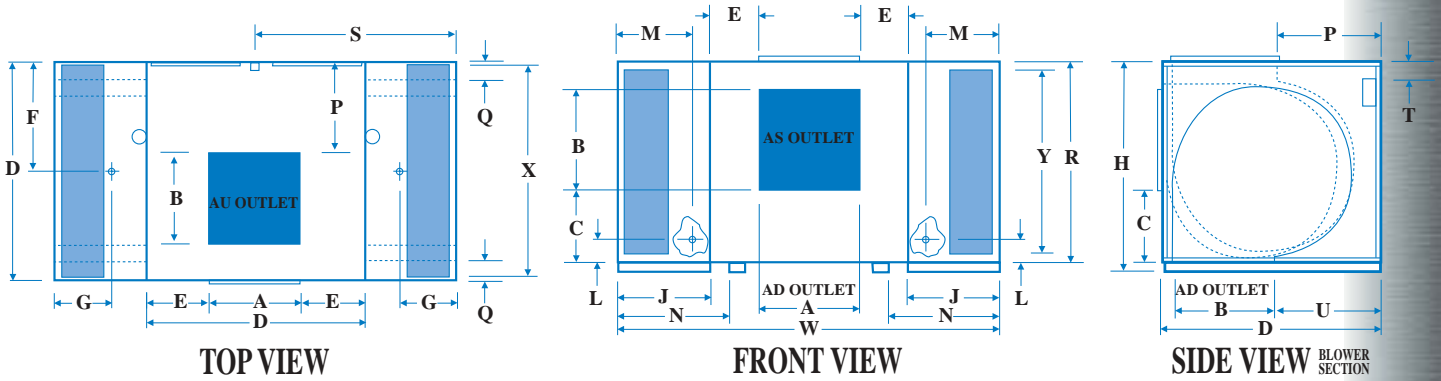
**SIZING TABLES**

OUTDOOR DRY BULB TEMP.	2 H.P. MOTOR / CFM-SP*		3 H.P. MOTOR / CFM-SP*		5 H.P. MOTOR / CFM-SP*		7-1/2 H.P. MOTOR / CFM-SP*					
	11375 / 0	9265 / .5	6753 / 1.0	13020 / 0	11165 / .5	9220 / 1.0	15438 / 0	13838 / .5	12328 / 1.0	17672 / 0	16242 / .5	14947 / 1.0
	OUTDOOR WET-BULB		OUTDOOR WET-BULB		OUTDOOR WET-BULB		OUTDOOR WET-BULB					
85	LAT	76 67 58	76 67 58	76 67 57	76 67 58	76 67 58	76 67 58	76 67 58	76 67 58	76 67 59	76 67 59	76 67 58
	GPH	12 25 37	10 20 30	8 15 23	14 28 42	12 24 36	10 20 30	16 33 49	15 30 45	13 27 40	17 33 50	17 35 52
95	LAT	77 68 59	77 68 59	77 67 58	77 68 59	77 68 59	77 68 59	77 68 60	77 68 59	77 68 59	77 69 60	77 68 60
	GPH	25 37 49	20 30 40	15 23 30	28 42 56	24 36 48	20 30 40	33 49 66	30 45 59	27 40 53	33 50 67	33 52 69
105	LAT	78 69 -	78 69 -	77 68 -	78 69 -	78 69 -	78 69 -	78 70 -	78 69 -	78 69 -	79 70 -	78 70 -
	GPH	37 49 -	30 40 -	23 30 -	42 56 -	36 48 -	30 40 -	49 66 -	45 59 -	40 53 -	50 67 -	52 69 -
115	LAT	79 70 -	79 70 -	78 69 -	79 70 -	79 70 -	79 70 -	80 71 -	79 70 -	79 70 -	80 71 -	80 71 -
	GPH	49 61 -	40 51 -	30 38 -	56 70 -	48 60 -	40 50 -	66 82 -	59 74 -	53 67 -	67 83 -	69 87 -

\* Static Pressure (inches of water). GPH = Water consumption at design conditions but does not include bleed-off amount. Amount of bleed-off will vary with different water sources, but an amount equal to 10% of water consumption at any design condition is considered sufficient for average water. LAT = Cooler Discharge Temperature.

AS/AD 15012





**DIMENSIONAL DATA\***

BLOWER MODEL NUMBER	WET MODULE NUMBER	CABINET			DUCT OPENING		DUCT LOCATION			DRAIN LOCATION		WET MODULE		MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS		
		H	W	D	A	B	C(AS)	U(AD)	P(AU)	E	F	G	J	X	Y	L	M	S	T	N	Q	R
AS/AD 100B	100W	44	82	45	21 3/4	21 3/4	13 19/32	21 11/32	N/A	11 5/8	22 1/2	12 1/2	18 1/2	44 3/4	36 5/8	5 7/8	14 5/8	39 7/8	5 5/32	23 1/4	4 3/4	42
AS/AD 10012B	10012W	44	90	45	21 3/4	21 3/4	13 19/32	21 11/32	N/A	11 5/8	22 1/2	16 1/2	22 1/2	44 3/4	36 5/8	5 7/8	18 5/8	43 7/8	5 5/32	27 1/4	4 3/4	42
AS/AD 150B	150W	54	85 1/4	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	N/A	10 11/16	24 1/8	12 1/2	18 1/2	48	46 3/8	5 7/8	14 5/8	41 1/2	5 5/32	23 1/4	4 3/4	52
AS/AD 15012B	15012W	54	93 1/4	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	N/A	10 11/16	24 1/8	16 1/2	22 1/2	48	46 3/8	5 7/8	18 5/8	45 1/2	5 5/32	27 1/4	4 3/4	52
AS/AD/AU 20012B	20012W	59 1/4	105 1/4	60 1/4	31 3/4	31 3/4	18 11/16	25 1/4	24 29/32	14 1/4	30 1/8	16 1/8	22 1/2	60	51 3/8	5 7/8	18 5/8	51 5/8	5 5/32	27 1/4	4 3/4	57 1/4

\* All measurements in inches.

**SPECIFICATIONS**

**PERFORMANCE** Certified Air Delivery At 1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge)

MAX B.H.P.	OPER. WGT.	AD BELT	AS BELT	AU BELT	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
3	1249	B100	B112	B92	16267	276	15716	284	15200	292	14696	300	14190	308	13665	317	13110	325	12521	335	11886	346	11194	358	10450	371
5	1264	B100	B112	B92	19286	327	18820	334	18371	341	17943	348	17518	355	17092	361	16661	368	16211	375	15752	383	15272	390	14760	399
7 1/2	1297	B103	B112	B93	22077	374	21670	380	21270	387	20888	393	20514	399	20142	405	19769	410	19395	416	19015	422	18629	428	18229	435
10	1326	B103	B112	B93	24301	412	23929	417	23562	423	23204	429	22866	434	22528	440	22190	445	21852	450	21510	456	21171	461	20823	467

Performance shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Models AS/AD/AU 20012 include the affects of a 12 inch thick evaporative media on the inlet. When the Cooler Model No, Motor H.P., & Blower Speed are determined from the SPECIFICATION table above, use this information to select the proper pulley-belt kit from the SHEAVE SELECTION table below.

**MOTOR SPECIFICATIONS**

BLOWER MOTORS	H.P.	SPEED	VOLTS	PHASE	MOTOR AMPS*	SHAFT DIA.	MOTOR WGT(LB)	MOTOR PART NO.	PUMP PART NO.	VOLTS	AMPS	WATTS	GPM (5 FT. HEAD)
5	1	230/460	3	15.2/7.6	1 1/8	87	110466-9	110468	230	0.58	77	4.6	
7 1/2	1	230/460	3	22/11	1 3/8	121	110470-9						
10	1	230/460	3	28/14	1 3/8	138	110482-9						

Pumps - 2 Required.

\*Amperage shown is from National Electrical Code. Use amperage shown on motor nameplate to determine motor protector.

**SHEAVE SELECTION**

MOTOR H.P.	MAUREY SHEAVE	SHEAVE BORE	AD MODEL BELT	AS MODEL BELT	AU MODEL BELT	BLOWER RPM/TURNS OPEN OF MOTOR SHEAVE												AD PULLEY-BELT KIT NO.	AS PULLEY-BELT KIT NO.	AU PULLEY-BELT KIT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						7	6 1/2	6	5 1/2	5	4 1/2	4	3 1/2	3	2 1/2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3	D8350	1 1/8	B100	B112	B92	253	262	272	281	291	300	309	319	328	338	347	356	365	375	384	393	403	412	422	431	441	450	459	469	478	488	497	3DI-195	3DI-210	3DI-225																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
5	D8400	1 1/8	B100	B112	B92	291	300	310	319	328	338	347	356	365	375	384	393	403	412	422	431	441	450	459	469	478	488	497	506	515	524	533	542	551	560	569	578	587	596	605	614	623	632	641	650	659	668	677	686	695	704	713	722	731	740	749	758	767	776	785	794	803	812	821	830	839	848	857	866	875	884	893	902	911	920	929	938	947	956	965	974	983	992	1001	1010	1019	1028	1037	1046	1055	1064	1073	1082	1091	1100	1109	1118	1127	1136	1145	1154	1163	1172	1181	1190	1199	1208	1217	1226	1235	1244	1253	1262	1271	1280	1289	1298	1307	1316	1325	1334	1343	1352	1361	1370	1379	1388	1397	1406	1415	1424	1433	1442	1451	1460	1469	1478	1487	1496	1505	1514	1523	1532	1541	1550	1559	1568	1577	1586	1595	1604	1613	1622	1631	1640	1649	1658	1667	1676	1685	1694	1703	1712	1721	1730	1739	1748	1757	1766	1775	1784	1793	1802	1811	1820	1829	1838	1847	1856	1865	1874	1883	1892	1901	1910	1919	1928	1937	1946	1955	1964	1973	1982	1991	2000	2009	2018	2027	2036	2045	2054	2063	2072	2081	2090	2099	2108	2117	2126	2135	2144	2153	2162	2171	2180	2189	2198	2207	2216	2225	2234	2243	2252	2261	2270	2279	2288	2297	2306	2315	2324	2333	2342	2351	2360	2369	2378	2387	2396	2405	2414	2423	2432	2441	2450	2459	2468	2477	2486	2495	2504	2513	2522	2531	2540	2549	2558	2567	2576	2585	2594	2603	2612	2621	2630	2639	2648	2657	2666	2675	2684	2693	2702	2711	2720	2729	2738	2747	2756	2765	2774	2783	2792	2801	2810	2819	2828	2837	2846	2855	2864	2873	2882	2891	2900	2909	2918	2927	2936	2945	2954	2963	2972	2981	2990	2999	3008	3017	3026	3035	3044	3053	3062	3071	3080	3089	3098	3107	3116	3125	3134	3143	3152	3161	3170	3179	3188	3197	3206	3215	3224	3233	3242	3251	3260	3269	3278	3287	3296	3305	3314	3323	3332	3341	3350	3359	3368	3377	3386	3395	3404	3413	3422	3431	3440	3449	3458	3467	3476	3485	3494	3503	3512	3521	3530	3539	3548	3557	3566	3575	3584	3593	3602	3611	3620	3629	3638	3647	3656	3665	3674	3683	3692	3701	3710	3719	3728	3737	3746	3755	3764	3773	3782	3791	3800	3809	3818	3827	3836	3845	3854	3863	3872	3881	3890	3899	3908	3917	3926	3935	3944	3953	3962	3971	3980	3989	3998	4007	4016	4025	4034	4043	4052	4061	4070	4079	4088	4097	4106	4115	4124	4133	4142	4151	4160	4169	4178	4187	4196	4205	4214	4223	4232	4241	4250	4259	4268	4277	4286	4295	4304	4313	4322	4331	4340	4349	4358	4367	4376	4385	4394	4403	4412	4421	4430	4439	4448	4457	4466	4475	4484	4493	4502	4511	4520	4529	4538	4547	4556	4565	4574	4583	4592	4601	4610	4619	4628	4637	4646	4655	4664	4673	4682	4691	4700	4709	4718	4727	4736	4745	4754	4763	4772	4781	4790	4799	4808	4817	4826	4835	4844	4853	4862	4871	4880	4889	4898	4907	4916	4925	4934	4943	4952	4961	4970	4979	4988	4997	5006	5015	5024	5033	5042	5051	5060	5069	5078	5087	5096	5105	5114	5123	5132	5141	5150	5159	5168	5177	5186	5195	5204	5213	5222	5231	5240	5249	5258	5267	5276	5285	5294	5303	5312	5321	5330	5339	5348	5357	5366	5375	5384	5393	5402	5411	5420	5429	5438	5447	5456	5465	5474	5483	5492	5501	5510	5519	5528	5537	5546	5555	5564	5573	5582	5591	5600	5609	5618	5627	5636	5645	5654	5663	5672	5681	5690	5699	5708	5717	5726	5735	5744	5753	5762	5771	5780	5789	5798	5807	5816	5825	5834	5843	5852	5861	5870	5879	5888	5897	5906	5915	5924	5933	5942	5951	5960	5969	5978	5987	5996	6005	6014	6023	6032	6041	6050	6059	6068	6077	6086	6095	6104	6113	6122	6131	6140	6149	6158	6167	6176	6185	6194	6203	6212	6221	6230	6239	6248	6257	6266	6275	6284	6293	6302	6311	6320	6329	6338	6347	6356	6365	6374	6383	6392	6401	6410	6419	6428	6437	6446	6455	6464	6473	6482	6491	6500	6509	6518	6527	6536	6545	6554	6563	6572	6581	6590	6599	6608	6617	6626	6635	6644	6653	6662	6671	6680	6689	6698

**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.



# LIMITED WARRANTY

This warranty is extended to the original purchaser of an evaporative cooler installed and used under normal conditions. It does not cover damages incurred from accident, neglect, or abuse by the owner. Champion Cooler does not authorize any person or representative to assume for the Corporation any other or different liability in connection with this product.

## TERMS & CONDITIONS OF WARRANTY

This warranty includes lifetime limited coverage on water reservoir against any leakage due to defects in material. From date of installation, if any original component part provided by Champion Cooler fails due to defect in material or factory workmanship only, Champion Cooler will provide the replacement parts as follows:

- Cabinet components for one year from date of installation
- Evaporative media for two years from date of installation

## EXCLUSIONS TO THIS WARRANTY

- Champion Cooler is not responsible for any incidental or consequential damage resulting from any malfunction.
- Champion Cooler is not responsible for any damage received from the use of water softeners, chemicals, descaling material, plastic wrap, or if a motor of a higher horsepower than what is shown on the serial plate is used in the unit.
- Champion Cooler is not responsible for the cost of service calls to diagnose cause of trouble, or labor charge to repair and/or replace parts.

## HOW TO OBTAIN SERVICE UNDER THIS WARRANTY

Contact the Dealer where you purchased the evaporative cooler. If for any reason you are not satisfied with the response from the Dealer, write or call: **Customer Service Department, Champion Cooler**, 5800 Murray Street, Little Rock, AR 72209, 501-562-1094, or e-mail Champion at: [info@championcooler.com](mailto:info@championcooler.com).

*This limited warranty applies to the original purchaser only.*



# CHAMPION • MARQUIS

Champion Cooler, 5800 Murray, Little Rock, AR 72209 800-643-8341 [www.championcooler.com](http://www.championcooler.com)



Crafted With Pride In The USA

Catalog No. CSGB-March 2005