

KR PRODUCTS

Industrial/Commercial Evaporative Coolers Specification Guide



SPECIFICATION GUIDE FOR MODELS:

SAS/SAD 100

AS/AD 150

SAS/SAD 150

AS/AD/AU 20012

Advantage Points

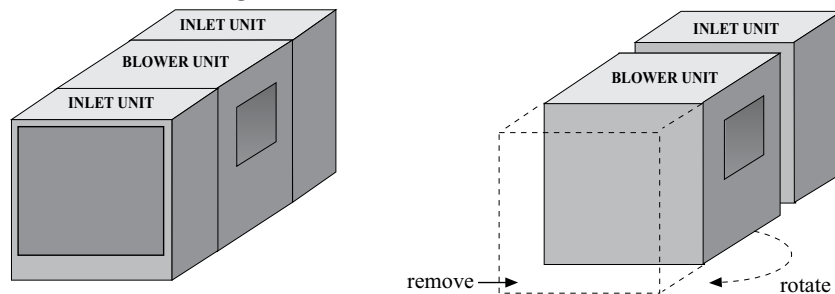
- 1. CONSTRUCTION** Heavy gauge galvanized steel is used for cabinet panels and other load bearing components. Vacuum-formed ABS plastic water reservoirs and thick polystyrene evaporative media shields keep water from coming into contact with the steel cabinet for long-lasting durability.
- 2. EVAPORATIVE MEDIA** The cellulose paper of the evaporative media is treated to ensure a high water absorption rate and to resist biological degradation.
- 3. FINISH** 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

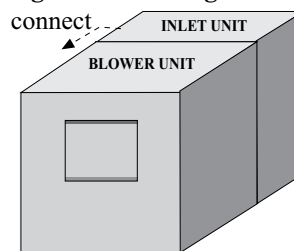
MODULAR CONFIGURATIONS

The unique modular design of the dual inlet side- and down-draft models are easy to reconfigure for difficult or customized installations.

Double Inlet Configuration

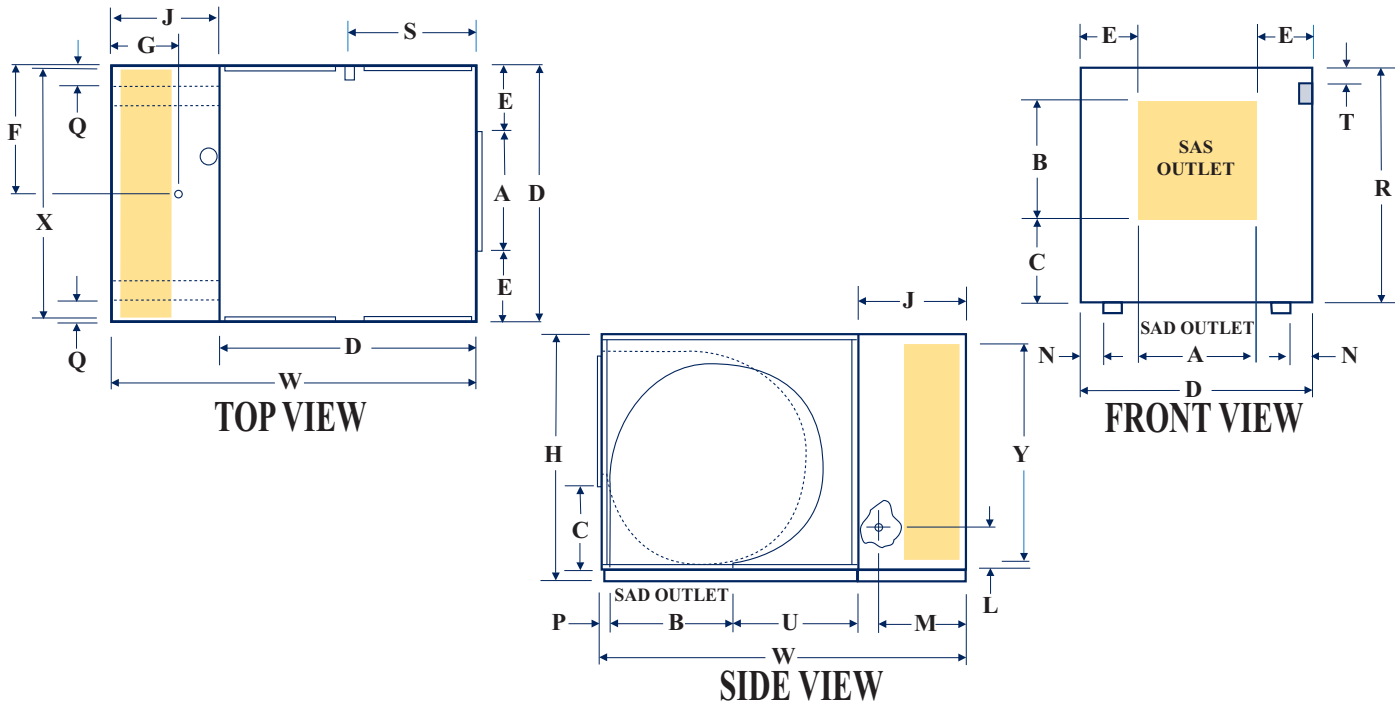


Single Inlet Configuration



INDEX TABLE		PERFORMANCE Certified Air Delivery At Various Increments Of Static Pressure (Inches Static Pressure Water Gauge)													
MODEL & PAGE NO.	PAGE			0.2"			0.4"			0.6"			0.8"	0.9"	1.0"
		CFM		CFM		CFM		CFM		CFM	CFM	CFM			
SAS/SAD 100	3			6366		5956		5537		5095		4613			
AS/AD 150	4	13057	12600	12204	11844	11497	11153	10815	10467	10113	9741	9361			
		15480	15082	14735	14410	14106	13810	13520	13234	12948	12659	12361			
		17719	17364	17050	16756	16479	16214	15947	15694	15440	15188	14937			
SAS/SAD 150	5	8910	8548	8205	7870	7533	7182	6812	6416	5993	5537	5067			
		N/A	9476	9159	8855	8555	8244	7924	7592	7236	6866	6470			
AS/AD/AU 20012	6	19286	18820	18371	17943	17518	17092	16661	16211	15752	15272	14760			
		22077	21670	21270	20888	20514	20142	19769	19395	19015	18629	18229			

Performance shown is for installation 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.



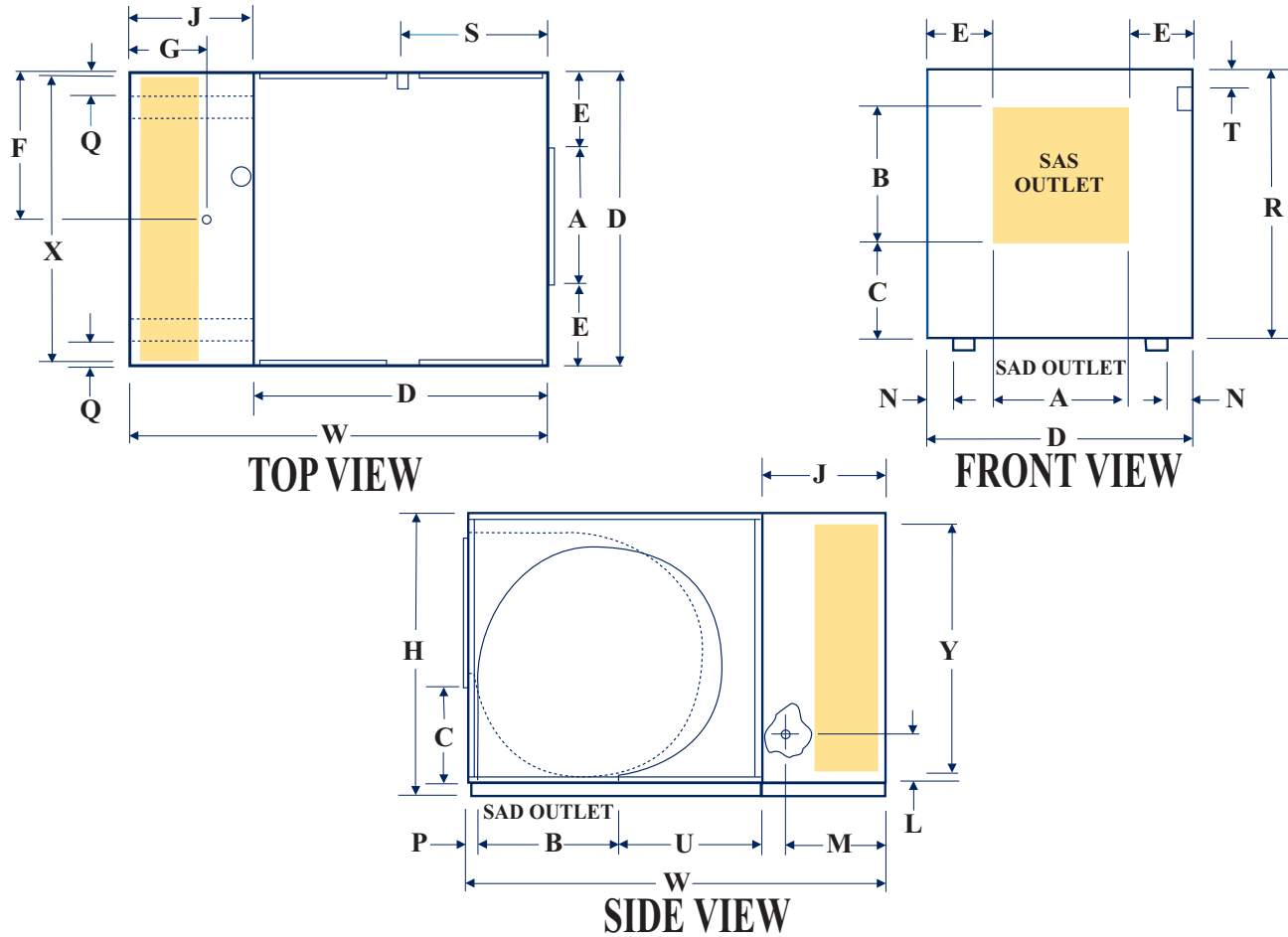
KR DIMENSIONAL DATA*

BLOWER MODEL NUMBER	WET MODULE NUMBER	CABINET			DUCT OPENING		DUCT LOCATION				DRAIN LOCATION		WET MODULE J	MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS		
		H	W	D	A	B	C(SAS)	U(SAD)	P(SAD)	E	F	G		X	Y	L	M	S	T	N	Q	R
SAS/SAD 100B	100W	44	63 3/8	45	21 3/4	21 3/4	13 19/32	21 11/32	1 29/32	11 5/8	22 1/2	12 1/2	18 1/2	44 3/4	36 5/8	5 7/8	14 5/8	21 1/2	5 5/32	4 3/4	4 3/4	42
SAS/SAD 10012B	10012W	44	67 3/8	45	21 3/4	21 3/4	13 19/32	21 11/32	1 29/32	11 5/8	22 1/2	16 1/2	22 1/2	44 3/4	36 5/8	5 7/8	18 5/8	21 1/2	5 5/32	4 3/4	4 3/4	42
SAS/SAD 150B	150W	54	66 5/8	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	2 7/32	10 11/16	24 1/8	12 1/2	18 1/2	48	46 3/8	5 7/8	14 5/8	23 1/8	5 5/32	4 3/4	4 3/4	52
SAS/SAD 15012B	15012W	54	70 5/8	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	2 7/32	10 11/16	24 1/8	16 1/2	22 1/2	48	46 3/8	5 7/8	18 5/8	23 1/8	5 5/32	4 3/4	4 3/4	52

* All measurements in inches.

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INDEX TABLE



SAS/SAD100

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(SAS)	U(SAD)	P(SAD)	E	F	G	J	X	Y	L	M	S	T	N	Q	R			
SAS/SAD 100B		100W	44	63 3/8	45	21 3/4	21 3/4	13 19/32	21 11/32	1 29/32	11 5/8	22 1/2	12 1/2	18 1/2	44 3/4	36 5/8	5 7/8	14 5/8	21 1/2	5 5/32	4 3/4	4 3/4	42

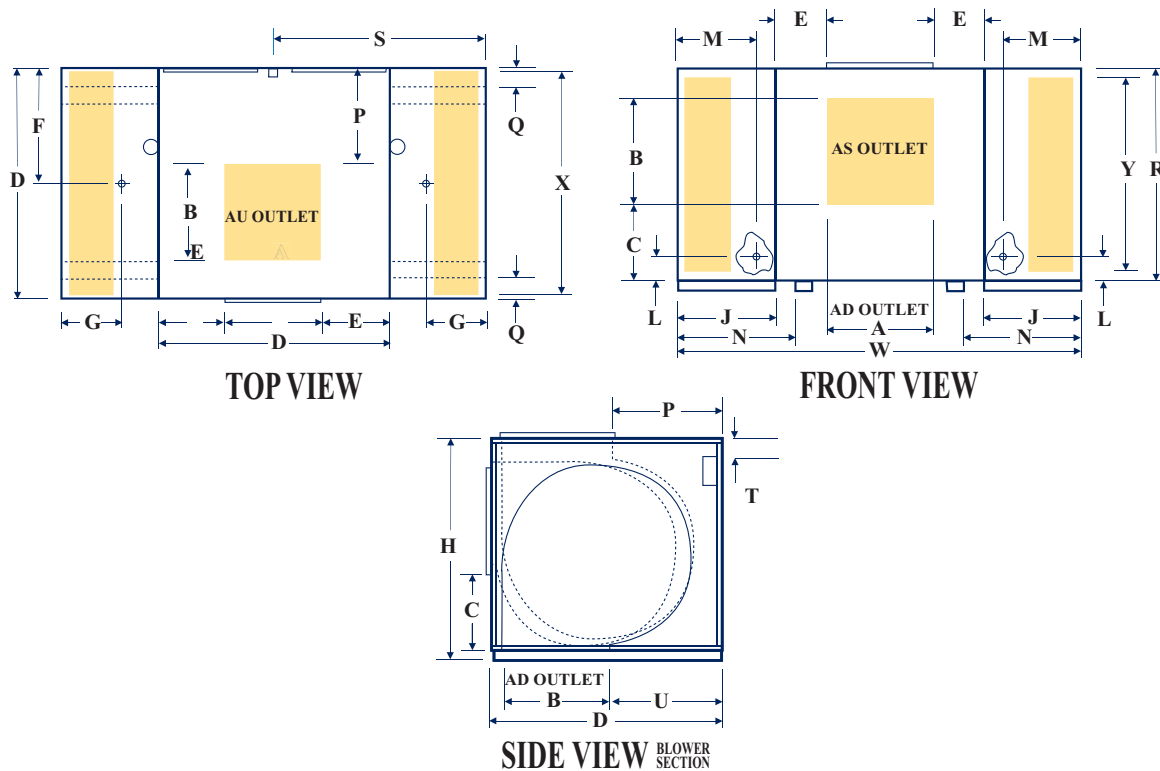
* All measurements in inches.

SPECIFICATIONS		PERFORMANCE		Certified Air Delivery At .1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge)																					
MAX B.H.P.	OPER. WGT.	SAD MODEL BELT	SAS 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
1 1/2	498	B77	B83	6774	444	6574	453	6366	463	6164	472	5956	482	5751	492	5537	502	5320	513	5095	524	4859	536	4613	548

Performance shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Models SAS/SAD 100 include the affects of an 8 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.

SPECIFICATIONS		PERFORMANCE		and MOTOR SPECIFICATIONS													
P/N	Style	OPER. WGT.	0.2"		0.4"		0.6"		.08"		1.0"		HP	Speed	Volts	AMP *	PH
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM					
005079	Down	498	6366	463	5956	482	5537	502	5097	524	4613	548	1.5	1	115/230	20/ 11-10	1
005080	Side	498	6366	463	5956	482	5537	502	5097	524	4613	548	1.5	1	115/230	20/ 11-10	1
004948	Down	498	6366	463	5956	482	5537	502	5097	524	4613	548	1.5	1	230/460	6.6-6/ 3	3
004937	Side	498	6366	463	5956	482	5537	502	5097	524	4613	548	1.5	1	230/460	6.6-6/ 3	3

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AS/AD 150

KR DIMENSIONAL DATA*																						
BLOWER MODEL NUMBER	WET MODULE NUMBER	CABINET			DUCT OPENING		DUCT LOCATION				DRAIN LOCATION		WET MODULE J	MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS		
		H	W	D	A	B	C(AS)	U(AD)	P(AU)	E	F	G		X	Y	L	M	S	T	N	Q	R
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 3/32	23 1/4	4 3/4	52

* All measurements in inches.

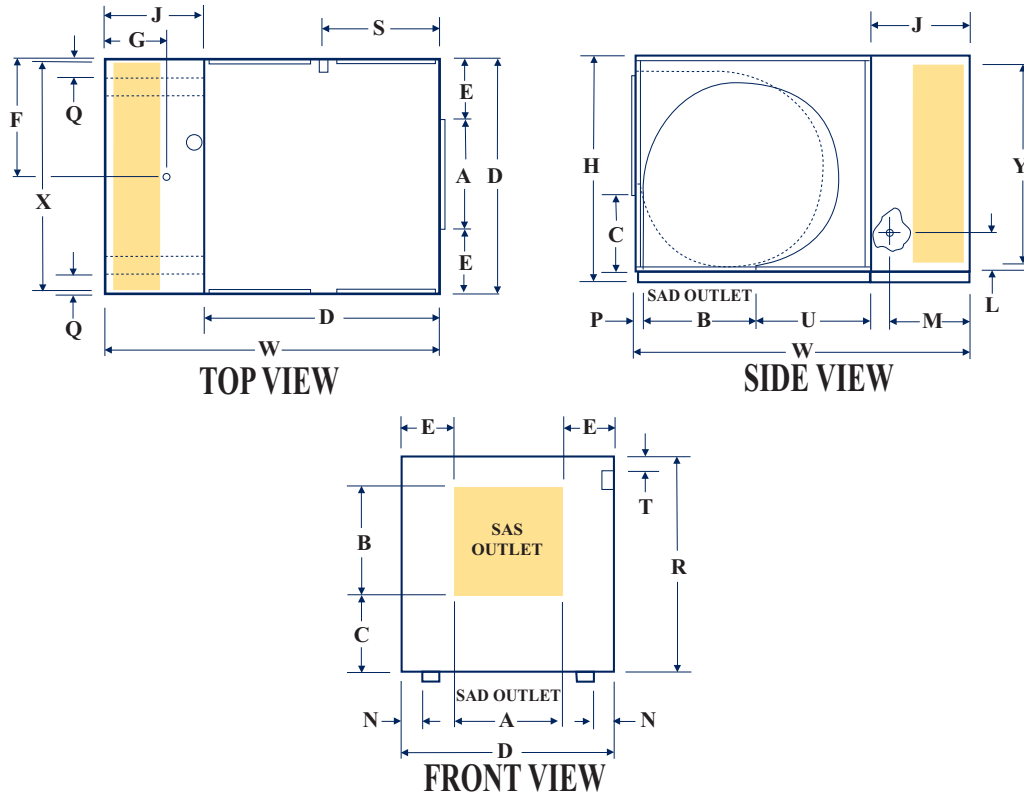
KR SPECIFICATIONS		PERFORMANCE Certified Air Delivery At .1" Increments Of External Static Pressure (Inches Static Pressure Water Gauge)																							
MAX B.H.P.	OPER. WGT.	AD MODEL BELT	AS MODEL BELT	0"		0.1"		0.2"		0.3"		0.4"		0.5"		0.6"		0.7"		0.8"		0.9"		1.0"	
				CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
3	867	B92	B100	13057	363	12600	373	12204	381	11844	390	11497	398	11153	406	10815	415	10467	424	10113	434	9741	444	9361	456
5	883	B93	B100	15480	430	15082	439	14735	446	14410	454	14106	461	13810	468	13520	475	13234	482	12948	489	12659	496	12361	504
7 1/2	919	B95	B101	17719	492	17364	500	17050	507	16756	513	16479	520	16214	526	15947	532	15694	538	15440	544	15188	550	14937	557

Performance shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Models AS/AD 150 include the affects of an 8 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.

KR SPECIFICATIONS PERFORMANCE and MOTOR SPECIFICATIONS																	
P/N	Style	OPER. WGT.	0.2"		0.4"		0.6"		.08"		1.0"		HP	Speed	Volts	AMP *	PH
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM					
005101	Down	867	12,204	381	11,497	398	10,815	415	10,113	434	9,361	456	3	1	230/460	10.6-9.6 4.8	3
005102	Side	867	12,204	381	11,497	398	10,815	415	10,113	434	9,361	456	3	1	230/460	10.6-9.6 4.8	3
005103	Down	883	14,735	446	14,410	461	13,520	475	12,948	489	12,361	504	5	1	230/460	16.7-15.2 7.6	3
005104	Side	883	14,735	446	14,410	461	13,520	475	12,948	489	12,361	504	5	1	230/460	16.7-15.2 7.6	3
005105	Down	919	17,050	507	16,479	520	15,947	532	15,440	544	14,937	557	7.5	1	230/460	24.2-22 11	3
005106	Side	919	17,050	507	16,479	520	15,947	532	15,440	544	14,937	557	7.5	1	230/460	24.2-22 11	3

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SAS/SAD 150B



SAS/SAD 150B

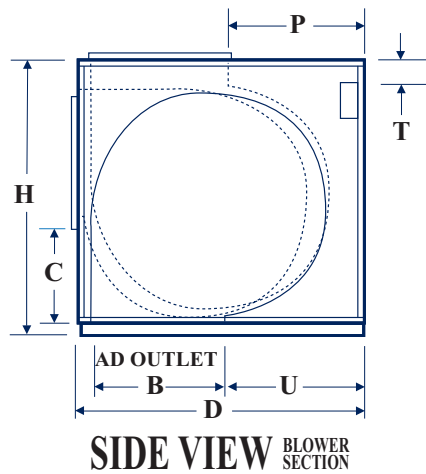
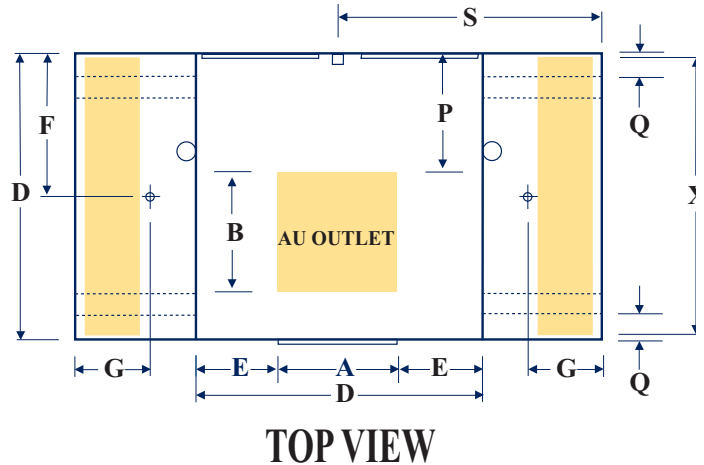
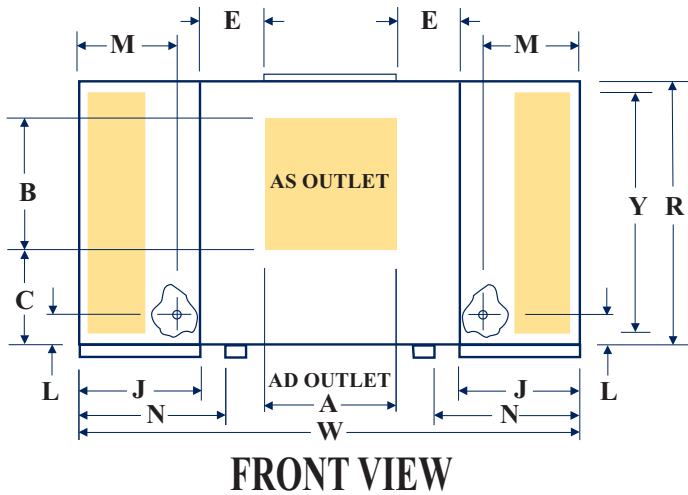
KR DIMENSIONAL DATA*																						
BLOWER MODEL NUMBER	WET MODULE NUMBER	CABINET			DUCT OPENING		DUCT LOCATION				DRAIN LOCATION		WET MODULE J	MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS		
		H	W	D	A	B	C(SAS)	U(SAD)	P(SAD)	E	F	G		X	Y	L	M	S	T	N	Q	R
SAS/SAD 150B	150W	54	66 7/8	48 1/4	26 7/8	26 7/8	16 13/16	19 5/32	2 7/32	10 11/16	24 1/8	12 1/2	18 1/2	48	46 3/8	5 7/8	14 5/8	23 1/8	5 5/32	4 3/4	4 3/4	52

* All measurements in inches.

KR SPECIFICATIONS PERFORMANCE and MOTOR SPECIFICATIONS																	
P/N	Style	OPER. WGT.	0.2"		0.4"		0.6"		.08"		1.0"		HP	Speed	Volts	AMP *	PH
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM					
004938	Down	608	8,205	365	7,533	382	6,812	401	5,993	424	5,067	456	1.5	1	115/230	20 11-10	1
004949	Side	608	8,205	365	7,533	382	6,812	401	5,993	424	5,067	456	1.5	1	115/230	20 11-10	1
005095	Down	608	8,205	365	7,533	382	6,812	401	5,993	424	5,067	456	1.5	1	230/460	6.6-6 3	3
005096	Side	608	8,205	365	7,533	382	6,812	401	5,993	424	5,067	456	1.5	1	230/460	6.6-6 3	3
005097	Down	612	9,159	399	8,555	414	7,924	430	7,236	448	6,866	471	2	1	115/230	24 13.2-12	1
005098	Side	612	9,159	399	8,555	414	7,924	430	7,236	448	6,866	471	2	1	115/230	24 13.2-12	1
005099	Down	612	9,159	399	8,555	414	7,924	430	7,236	448	6,866	471	2	1	230/460	7.5-6.8 3.4	3
005100	Side	612	9,159	399	8,555	414	7,924	430	7,236	448	6,866	471	2	1	230/460	7.5-6.8 3.4	3

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AS/AD/AU 20012



AS/AD/AU 20012

BLOWER MODEL NUMBER		CABINET			DUCT OPENING		DUCT LOCATION				DRAIN LOCATION		WET MODULE		MEDIA DIMENSION		WATER SERVICE		ELECTRIC SERVICE		SKID LOCATIONS		
AS/AD/AU 20012B		H	W	D	A	B	C(AS)	U(AD)	P(AU)	E	F	G	J	X	Y	L	M	S	T	N	Q	R	
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 5/8	5 7/8	18 5/8	51 5/8	5 5/32	27 1/4	4 3/4	57 1/2	

* All measurements in inches.

P/N	Style	OPER. WGT.	0.2"		0.4"		0.6"		.08"		1.0"		HP	Speed	Volts	AMP *	PH
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM					
005107	Down	1,264	18,371	341	17,518	355	16,661	368	15,752	383	14,760	399	5	1	230/460	15.2	3
005108	Side	1,264	18,371	341	17,518	355	16,661	368	15,752	383	14,760	399	5	1	230/460	15.2	3
005109	Down	1,297	21,170	387	20,514	399	19,769	410	19,015	422	18,229	435	7.5	1	230/460	22	11
005110	Side	1,297	21,170	387	20,514	399	19,769	410	19,015	422	18,229	435	7.5	1	230/460	22	11

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KR PRODUCTS certifies that the evaporative air coolers shown here are licensed to bear 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 the 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 Coolers 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 call to diagnose cause of trouble, or labor charger to repair and/or replace parts.

KR Products, Inc.
4444 Gustine Ave., St. Louis, MO 63116
(314) 353-1712 • fax (314) 353-5340
krproductsinc.com • sales@krproductsinc.com