

# RESIDENTIAL EVAPORATIVE COOLERS

## THE MARK OF A CHAMPION



### WHOLE HOUSE MODELS SIDE (SD) & DOWN (DD) DISCHARGE

3000 SD & DD  
4001 SD & DD  
5000 SD & DD

### WINDOW MODELS

WCM28  
WC37  
WC44  
WC46  
WC50

### REMOTE UNITS:

RWC35  
RWC46  
RWC50



WHOLE-HOUSE  
DOWN  
DISCHARGE



WHOLE-HOUSE  
SIDE DISCHARGE



WINDOW COOLERS





American-Made Champion Coolers are built for high performance, easy installation and low maintenance. Before shipment, each Champion Cooler must pass performance tests and meet quality control standards to earn the MARK OF A CHAMPION.

High Quality Parts

High-perfomance and permanently-lubricated water pump ensures even water delivery.

Machine-balanced blower wheel provides quiet operation and maximum air flow.

Superior Construction

Cabinets made from heavy-gauge galvanized U.S. steel to resist weather and impact.

All metal surfaces treated for corrosion with electrostatically-applied UV-stabilized polyester powder finish.

Unique single-piece bottom pan with 8-year guarantee against leakage due to rust and corrosion.

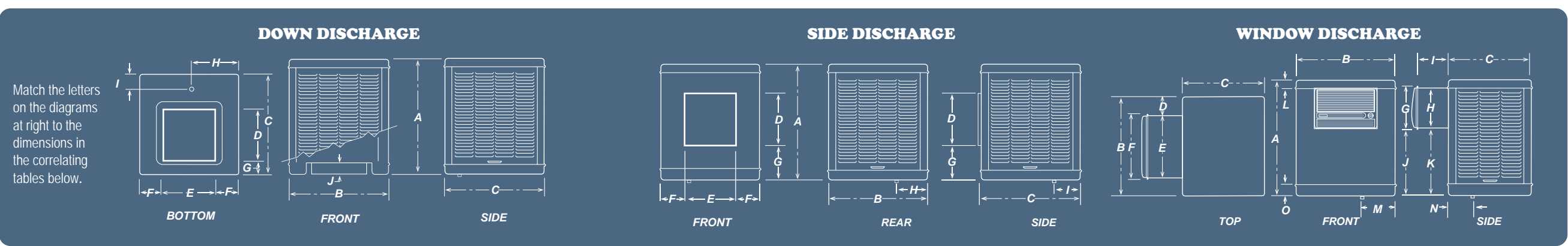
Innovative Design

Bolted construction for easy installation and access to replaceable parts.



Convertible grille on most Window units for installation between studs or in casement windows. Free kit upon request.

Handy remote control available on certain Window Units. Units marked with (R) at right.



SPECIFICATIONS & DIMENSIONS

DOWN DISCHARGE DIMENSIONS (IN INCHES)												
MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING				DRAIN		DUCT EXT.
	SHIP	OPERATE	A	B	C	D	E	F	G	H	I	J
3000DD	118	175	33 <sup>7</sup> / <sub>16</sub>	28 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	17 <sup>11</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>
4001DD	161	233	34 <sup>1</sup> / <sub>2</sub>	34 <sup>1</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>4</sub>	16 <sup>13</sup> / <sub>32</sub>	5	3 <sup>23</sup> / <sub>32</sub>
5000DD	220	309	42 <sup>7</sup> / <sub>16</sub>	39	39	19 <sup>3</sup> / <sub>4</sub>	19 <sup>3</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	25 <sup>13</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	4

DOWN DISCHARGE CFM‡										MOTOR , PARTS SPECIFICATIONS							
MODEL NO.	H.P.	INCHES OF STATIC PRESSURE						FILTER PAD DIMENSIONS (IN INCHES)			MOTOR** P/N	H.P.	SPEED	VOLTS	MOTOR PULLEY† P/N	ELECTRICAL CORD P/N	BELT SIZE
		0"	0.1"	0.2"	0.3"	0.4"	0.5"	NO. REQ'D.	HEIGHT	WIDTH							
3000DD	1/3	2175	2060	1970	1810	1650	1520	4	27	22	110444	1/3	1	115	110277	110364	4L-450
											110445	1/3	2	115			
4001DD	1/3	3077	2880	2565	2240	NR	NR	4	28	27	110444	1/3	1	115	110278	110364	4L-560
											110445	1/3	2	115			
	1/2	3654	3430	3230	3064	2498	2010	4	28	27	110446	1/2	1	115	110278	110364	4L-560
											110447	1/2	2	115			
5000DD	1/2	4334	4000	3620	3300	2610	2170	4	36	33	110446	1/2	1	115	110278	110364	4L-690
											110447	1/2	2	115			
	3/4	4983	4780	4530	4280	4020	3780	4	36	33	110448	3/4	1	115	110278	110364	4L-690
											110449	3/4	2	115			

SIDE DISCHARGE DIMENSIONS (IN INCHES)											
MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING				DRAIN	
	SHIP	OPERATE	A	B	C	D	E	F	G	H	I
3000SD	109	193	33 <sup>7</sup> / <sub>16</sub>	28 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>32</sub>	12 <sup>25</sup> / <sub>32</sub>	8 <sup>3</sup> / <sub>4</sub>
4001SD	150	269	34 <sup>1</sup> / <sub>2</sub>	34 <sup>1</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>16</sub>	10 <sup>21</sup> / <sub>32</sub>	8 <sup>3</sup> / <sub>4</sub>
5000SD	202	357	42 <sup>7</sup> / <sub>16</sub>	39	39	19 <sup>3</sup> / <sub>4</sub>	19 <sup>3</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	16 <sup>21</sup> / <sub>32</sub>	15 <sup>21</sup> / <sub>32</sub>	8 <sup>3</sup> / <sub>4</sub>

SIDE DISCHARGE CFM‡										MOTOR, PARTS SPECIFICATIONS							
MODEL NO.	H.P.	0"	0.1"	0.2"	0.3"	0.4"	0.5"	FILTER PAD DIMENSIONS (IN INCHES)			MOTOR** P/N	H.P.	SPEED	VOLTS	MOTOR PULLEY† P/N	ELECTRICAL CORD P/N	BELT SIZE
								NO. REQ'D.	HEIGHT	WIDTH							
3000SD	1/3	2077	1950	1760	1700	1550	NR	3	27	22	110444	1/3	1	115	110277	110364	4L-450
											110445	1/3	2	115			
4001SD	1/3	2973	2726	2550	2230	NR	NR	3	28	27	110444	1/3	1	115	110278	110364	4L-560
											110445	1/3	2	115			
	1/2	3432	3230	3000	2775	2140	1475	3	28	27	110446	1/2	1	115	110278	110364	4L-560
											110447	1/2	2	115			
5000SD	1/2	4190	3910	3650	3330	2900	NR	3	36	33	110446	1/2	1	115	110278	110364	4L-670
											110447	1/2	2	115			
	3/4	4734	4600	4320	4060	3810	3630	3	36	33	110448	3/4	1	115	110278	110364	4L-670
											110449	3/4	2	115			

WINDOW UNIT DIMENSIONS (IN INCHES)																	
MODEL NO.	WEIGHT LBS.		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	SHIP	OPER															
WCM28	75	105	27	24	17	1 <sup>19</sup> / <sub>32</sub>	20 <sup>13</sup> / <sub>16</sub>	22 <sup>1</sup> / <sub>8</sub>	11 <sup>29</sup> / <sub>32</sub>	10 <sup>19</sup> / <sub>32</sub>	11 <sup>5</sup> / <sub>32</sub>	13 <sup>9</sup> / <sub>16</sub>	14 <sup>7</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>
RWC35	126	190	30 <sup>1</sup> / <sub>2</sub>	31 <sup>1</sup> / <sub>2</sub>	21	5 <sup>1</sup> / <sub>16</sub>	21 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	13 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	13 <sup>5</sup> / <sub>16</sub>	14	2 <sup>1</sup> / <sub>2</sub>	15 <sup>3</sup> / <sub>4</sub>	17	3 <sup>1</sup> / <sub>2</sub>
WC37	139	202	33 <sup>1</sup> / <sub>2</sub>	28 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	13 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>4</sub>	16 <sup>15</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>
WC44	153	214	34 <sup>1</sup> / <sub>2</sub>	34 <sup>1</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	13 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>	18	2 <sup>13</sup> / <sub>16</sub>	17 <sup>1</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>
(R)WC46	168	246	34 <sup>1</sup> / <sub>2</sub>	34 <sup>1</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	13 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>	18	2 <sup>13</sup> / <sub>16</sub>	23 <sup>15</sup> / <sub>32</sub>	25 <sup>3</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>
(R)WC50	171	249	34 <sup>1</sup> / <sub>2</sub>	34 <sup>1</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>8</sub>	13 <sup>11</sup> / <sub>16</sub>	10 <sup>11</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>	18	2 <sup>13</sup> / <sub>16</sub>	23 <sup>15</sup> / <sub>32</sub>	25 <sup>3</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>

WINDOW UNIT RATINGS					MOTOR, PARTS SPECIFICATIONS				
MODEL NO.	INDUSTRY STANDARD RATING	FILTER PAD DIMENSIONS (IN INCHES)			MOTOR**		PULLEY† P/N		BELT SIZE
		NO. REQ'D.	HEIGHT	WIDTH	H.P.	SPEED	DRIVE	BLOWER	
WCM28	2800	2 1	21 21	13 20	DIRECT DRIVE	2	NA	NA	NONE
RWC35	3300	2 1	26 26	17 28	1/3	2	110271	110274	4L-450
WC37	3300	3	27	22	1/3	2	110271	110274	4L-450
WC44	4000	2 1	28 28	23 27	1/3	2	110272	110275	4L-560
(R)WC46	4500	3	28	27	1/3	2	110272	110275	4L-560
(R)WC50	5000	3	28	27	1/2	2	110273	110275	4L-560

(R) indicates Remote control available on that model

NOTES: (R) Indicates remote control on that model. ‡ CFM = Cubic Feet per Minute

\*\* Motors have automatic overload. † ½" Bore, adjustable.



## Qualities of a CHAMPION

- High Quality Components
- Best Warranty in the Industry
- Made in USA
- Low Installation Costs
- Low Operating Costs
- Low Maintenance Costs
- Easy Access for Maintenance

### Window Unit Features

- UL Listed • Shipped fully assembled
- Motor mounted and tested before shipment
- Installation kit included
- Convertible grille allows vertical or horizontal installation
- Remote Controls available on some units
- Leveling leg included for added support and ease of installation

### Whole-House Unit Features

- UL Classified
- Down and Side-Discharge units available
- Convenient junction box for easy motor and pump connection
- Unique bolted construction for easy access and maintenance
- Motor sold separately

### Accessories

(for Whole House units)

EZ-Stat slimline wall-mountable thermostat:

- Line voltage operation works with 115 or 230 V AC
- Compatible with standard wall-box mounting; simple 5 wire interface
- Rotary comfort level selector and LED indicators

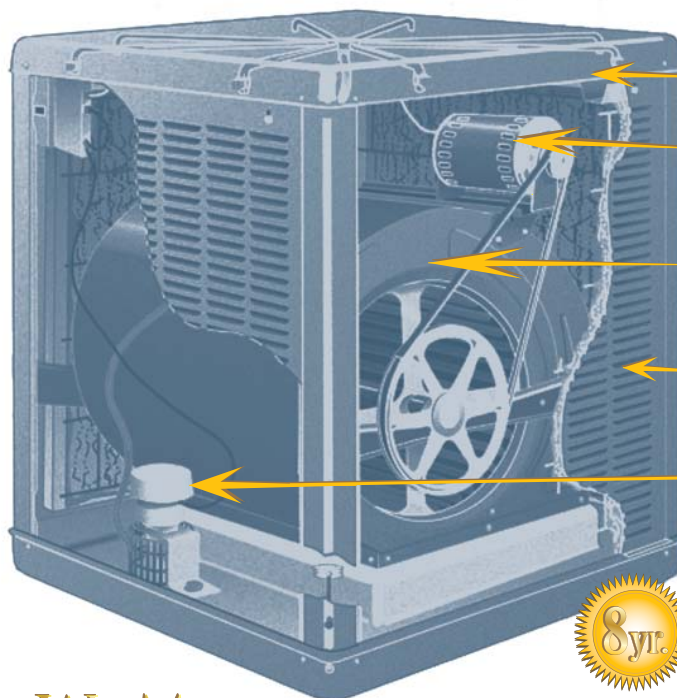


Visit our website to see other accessories.

Call us at  
1-800-643-8341

or visit our website at  
[www.championcooler.com](http://www.championcooler.com)

## OUR STANDARD FEATURES SET THE STANDARD



Adjustable Water Trough for even water distribution

Water Resistant Motor with thermal overload protection

Machine Balanced Blower for smooth, quiet operation and maximum air delivery

Heavy Gauge Steel Cabinet Galvanized and powder-coated for weather and impact resistance

Permanently Lubricated Pump for years of worry-free use.

8-Year Limited Warranty on bottom pan against leakage due to rust out

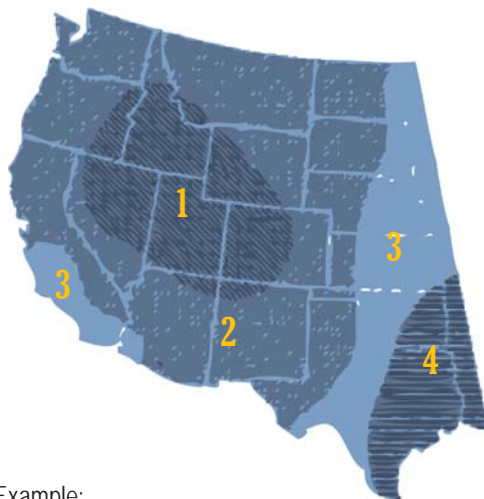


WE MAKE

CHOOSING YOUR CHAMPION

EASY...

1. Consult zone map to find your location.
2. Consult table below to find correct "minutes per air change" for your zone.
3. Determine area to be cooled in cubic feet (building height x length x width.)
4. Divide cubic feet from step three by minutes per air change (step 2) to determine CFM.
5. Select correct Champion Cooler model in the specifications table according to CFM and expected static pressure.



MINUTES PER AIR CHANGE

Interior Heat Load	Exterior Heat Load	Zone			
		1	2	3	4
HIGH	EXPOSED	2	1.5	1.3	.7
HIGH	INSULATED	3	2	1.5	1
NORMAL	EXPOSED	3	2	1.5	1
NORMAL	INSULATED	4	3	2	1.3

**Interior Heat Load:** High means places with unusual heat sources from hot equipment or processes, crowded conditions, etc.

**Normal** means no unusual heat sources - typical home or office.

**Exterior Heat Load:** Exposed means walls and/or roof exposed to sun, poor insulation, etc.

**Insulated** means walls and roof well insulated and/or shaded.

For Example:

A house in Phoenix AZ is 40' long by 30' wide with 8' ceilings and has standard insulation with no unusual heat sources.

1. Establish cubic feet:  $30 \times 40 \times 8 = 9,600$  cu. ft.
2. Determine Zone: Phoenix is in Zone 2
3. Use chart to discover Minutes Per Air Change: 3
4. Compute Cubic Feet per Minute (CFM):  $9,600 \div 3 = 3,200$  CFM
5. Review Specification Charts inside brochure to determine which unit meets the needs.

In this example, the 4001DD with 1/2 h. p. motor is indicated (assuming a typical static pressure of 0.2).



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