

# LOOK FOR THE MARK OF A CHAMPION

RESIDENTIAL  
EVAPORATIVE  
AIR COOLERS



Down  
Discharge Unit



**NEW!**

Window Unit  
with Convertible  
Grille

**NEW!**

Window Unit  
with Remote  
Control

## WHOLE HOUSE MODELS

3000DD&SD

4001DD&SD

5000DD&SD

## REMOTE WINDOW MODELS

RWC35

RWC46

RWC50

## WINDOW MODELS

WCM28

WC35

WC44

WC46

WC50



Side  
Discharge Unit



**CHAMPION**  
COOLER



# WHAT MAKES A CHAMPION?

Our complete line of window, side and down discharge evaporative coolers is built for high performance, easy installation and low maintenance. Before any cooler is shipped from our facility, it must pass performance tests and meet quality control standards to earn the mark of a Champion. Count on Champion coolers to provide these benefits:

## PERFORMANCE

- **Maximum Cooling Comfort**—The high performance water pump ensures even water delivery to the evaporative media. The pump's stainless steel shaft resists rust and corrosion.
- **Easy Access**—Versatile, bolted construction allows for easy access for parts replacement and provides greater resistance to rust since the need for welding is eliminated.
- **Easy-to-Access Components**—The easy-to-remove steel pad frame provides quick and easy access to the cooler interior.
- **Quiet Performance**—The machine-balanced blower wheel ensures quiet operation and maximum air flow even when your cooler is working its hardest.

## DEPENDABILITY

- **Unique Rust-Free Bottom Pan**—The one-piece bottom pan prevents corrosion and leakage since the need for seams, spot welding and sealing materials is eliminated.
- **Weather & Impact Resistant**—Heavy-gauge galvanized steel metal cabinets are built to last and are tough enough to resist weather and impact.
- **Protective Interior & Exterior Coating**—All metal surfaces are coated with an electrostatically-applied, UV-stabilized polyester powder finish for a beautiful appearance and protection from moisture, chalking and discoloration.

◀ Converted window cooler unit.

## CONVENIENCE

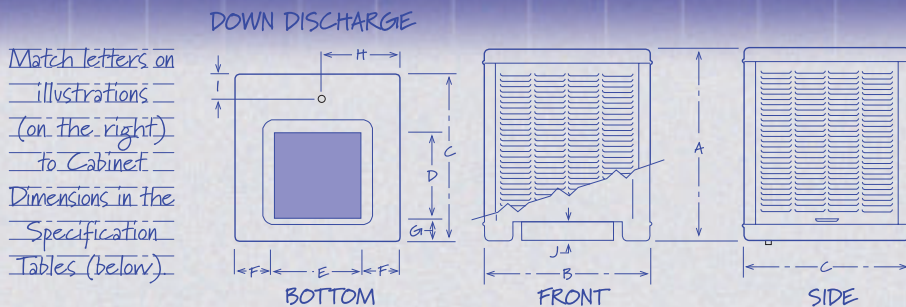
- **NEW! Window Unit Convertible Grille**—Fits casement windows and between wall studs for easy installation.

- **NEW! Remote Control Window Series**—Puts cooling convenience in your hands.

◀ Cooler Controls Remote Control ▼



# DIMENSIONS



### DOWN DISCHARGE / DIMENSIONS\*

MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING				DRAIN		DUCT EXT.
	SHIP	OPERATE	A	B	C	D	E	F	G	H	I	J
<b>3000DD</b>	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>3</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>
<b>4001DD</b>	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>
<b>5000DD</b>	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

\*All dimensions in inches.

### SIDE DISCHARGE / DIMENSIONS\*

MODEL NO.	WEIGHT LBS.		CABINET DIMENSIONS			DUCT OPENING				DRAIN		DUCT EXT.
	SHIP	OPERATE	A	B	C	D	E	F	G	H	I	J
<b>3000SD</b>	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>	1
<b>4001SD</b>	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>	1
<b>5000SD</b>	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>11</sup> / <sub>32</sub>	15 <sup>21</sup> / <sub>32</sub>	8 <sup>3</sup> / <sub>4</sub>	1

\*All dimensions in inches.

### WINDOW UNIT / DIMENSIONS\*

MODEL NO.	WEIGHT LBS.																		
	SHIP	OPER.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
<b>WCM28</b>	75	105	27	24	17	1 <sup>19</sup> / <sub>32</sub>	20 <sup>9</sup> / <sub>16</sub>	22 <sup>1</sup> / <sub>8</sub>	11 <sup>19</sup> / <sub>32</sub>	10 <sup>9</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>		
<b>(R)WC35</b>	139	202	33 <sup>7</sup> / <sub>16</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>4</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>	8 <sup>21</sup> / <sub>32</sub>	5	3 <sup>5</sup> / <sub>8</sub>		
<b>WC44</b>	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>4</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>		
<b>(R)WC46</b>	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>4</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>		
<b>(R)WC50</b>	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>4</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>		

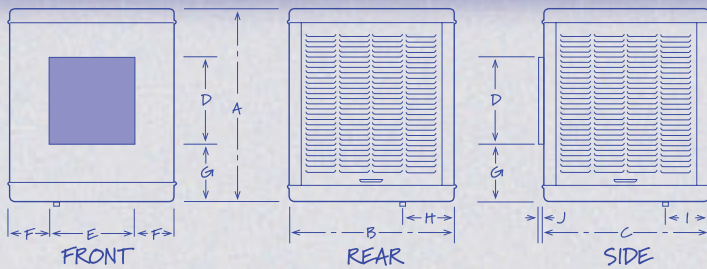
(R) included in Model Number indicates remote control availability. \* All Dimensions in inches.

DATA TABLE CONTINUED ON NEXT PAGE

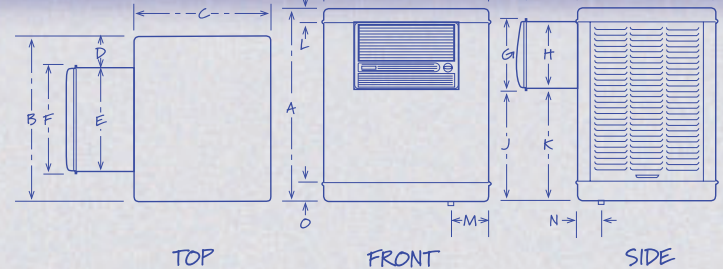


# & SPECIFICATIONS

SIDE DISCHARGE



WINDOW DISCHARGE



DOWN DISCHARGE / CFM**								DOWN DISCHARGE / MOTOR SPECIFICATIONS****									
MODEL NO.	H.P.	0*	0.1*	0.2*	0.3*	0.4*	0.5*	FILTER PAD DIMENSIONS*			MOTOR PART NO.	H.P.	SPEED	VOLTS	MOTOR PULLEY PART NO.***	ELECTRICAL CORD PART NO.	DRIVE BELT PART NO.
								NO. REQ'D.	HEIGHT	WIDTH							
3000DD	1/3	2175	2060	1970	1810	1650	1520	4	27	22	110444 110445	1/3 1/3	1 2	115 115	110277	110364	4L-450
4001DD	1/3	3077	2880	2565	2240	NR	NR	4	28	27	110444 110445	1/3 1/3	1 2	115 115	110278	110364	4L-560
	1/2	3654	3430	3230	3064	2998	2010	4	28	27	110446 110447	1/2 1/2	1 2	115 115	110278	110364	4L-560
	1/2	4334	4000	3620	3300	2610	2170	4	36	33	110446 110447	1/2 1/2	1 2	115 115	110278	110364	4L-690
5000DD	3/4	4983	4780	4530	4280	4020	3780	4	36	33	110448 110449	3/4 3/4	1 2	115 115	110278	110364	4L-690

\*All dimensions in inches. \*\*Cubic feet per minute. \*\*\*1/2" Bore, adjustable \*\*\*\*Motors have automatic overload.

CFM ratings are based on test data to AMCA (Air Movement and Control Association) standard 210 by an independent AMCA approved laboratory.

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

\*All dimensions in inches. \*\*Cubic feet per minute. \*\*\*1/2" Bore, adjustable \*\*\*\*Motors have automatic overload.

CFM ratings are based on test data to AMCA (Air Movement and Control Association) standard 210 by an independent AMCA approved laboratory.

WINDOW UNIT / RATING		WINDOW UNIT / MOTOR SPECIFICATIONS****							
MODEL NO.	INDUSTRY STANDARD RATING	FILTER PAD DIMENSIONS*			H.P.	SPEED	PULLEY PART NO.		BELT SIZE
		NO. REQ'D.	HEIGHT	WIDTH			DRIVE	BLOWER	
WCM28	2800	2	21	13	DIRECT DRIVE	2	DIRECT	DIRECT	NONE
(R)WC35	3300	3	27	22	1/3	2	110271	110274	4L-450
WC44	4000	2	28	23	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) included in Model Number indicates remote control availability. \* All Dimensions in inches. \*\*Cubic feet per minute. \*\*\*1/2" Bore

\*\*\*\*Motors have automatic overload.



## EZISTAT THERMOSTAT



- Line voltage operation- works with 115V or 230V
- Ultra-slim profile
- Compatible with standard wall-box mounting
- Simple 5-wire interface
- Automatic operation
- Rotary comfort level selector
- Soft-touch buttons and stylish LED indicators
- Manual control for Cool (fan and pump) and Fan only
- Timer functions

## EZISTAT DELUXE



- Thermostat controlled dump cycle
- Dump cycle control is compatible with any pump
- Large easy-to read LED readout
- Low voltage

- Durable rain-proof control box
- Two-stage operation
- Easy to use

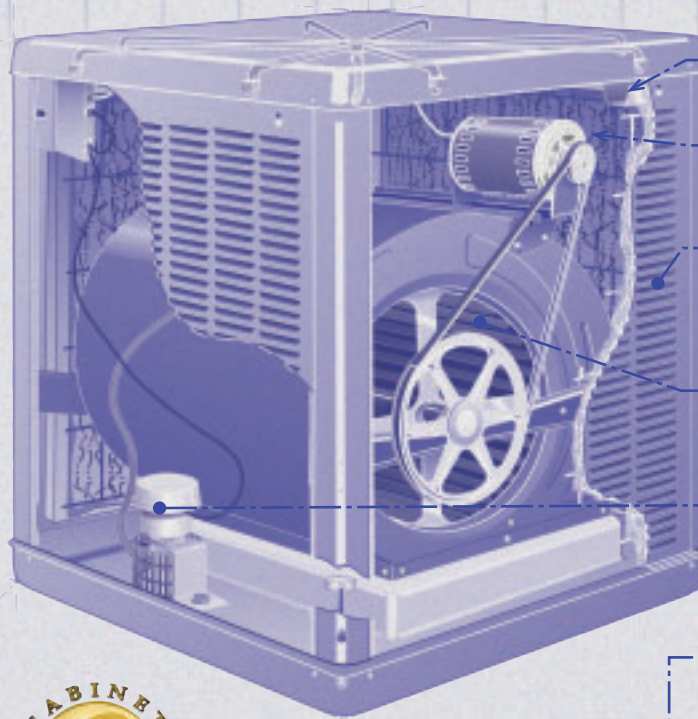
For information on these  
thermostats and other  
accessories such as  
grille covers or  
cooler covers, refer to  
your owner's  
manual, visit our web site  
[www.championcooler.com](http://www.championcooler.com),  
call 1-800-643-8341, or  
visit your local Champion  
dealer.



E & M Heating and Air Conditioning, Inc.  
South Lipan Street Denver, Colorado. 80223  
Telephone: (720) 377-0413 Facsimile: (720) 377-0472

## STANDARD FEATURES OF A CHAMPION COOLER

Simple, low cost installation • Low operating and maintenance costs • Provides 100% fresh, cool, filtered air



Water Trough - Adjustable for even water distribution

Motor - Water resistant with thermal overload protection

Cabinet - Heavy gauge galvanized steel; bolts together for easy access and rust/corrosion resistance

Blower - Machine-balanced for smooth, quiet operation and maximum air delivery

Pump - Permanently lubricated bearings can run without water without any damage

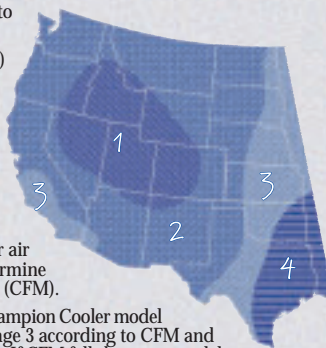
Window Unit House leg - (Window models only) Easily levels and supports unit



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

## SELECTING A CHAMPION COOLER

1. Consult zone map to find correct zone.
2. Consult table (right) to find correct "Minutes per Air Change" for your zone.
3. Determine area to be cooled in cubic feet (building length x width x height).
4. Divide cubic feet (step 3) by minutes per air change (step 2) to determine Cubic Feet per Minute (CFM).
5. Select the correct Champion Cooler model in the data tables on page 3 according to CFM and expected static pressure. If CFM falls between models, choose the larger model.



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, roof exposed to sun, poor insulations, etc. Insulated means walls and roof well insulated and/or shaded.

EXAMPLE - A house in Phoenix AZ, 40 feet long by 30 feet wide with 8-foot ceiling. Well insulated, no unusual heat sources.

1.  $30 \times 40 \times 8 = 9,600$  cubic feet
2. Zone 2
3. Minutes per Air Change = 3
4.  $9,600 \div 3 = 3,200$  CFM
5. Referring to CFM table inside this brochure, cooler model 4001DD with a 1/2 h.p. motor is indicated, assuming a typical static pressure of 0.2".

Designed with You in Mind!



# CHAMPION COOLER

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



Crafted With Pride In The USA

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