

ULTRACOOOL

MOBILE EVAPORATIVE COOLER

Manual Control Units

M201A

M301A

M401A

Remote Control Units

RM301A

RM401A



Circle the model of your cooler and record the serial number below.

Encierre con un circulo el modelo de su enfriador y escribe el número de serie abajo.

Serial #

Número De Serie _____

Read Carefully All Of This Manual Before Installing The Unit.

Lea Con Cuidado Todo Este Manual Antes De Instalar La Unidad.

Read And Save These Instructions

Vea el Español en el interior

Evaporative Cooling

Evaporative cooling is nature's way of cooling. When air is moved over a wet surface, water is evaporated and heat is absorbed. When stepping out of a swimming pool with the wind blowing, evaporative cooling makes you feel cool, even though the air may be warm. The human body itself is cooled primarily by the evaporation of perspiration.

This unit works on the same principle. Air is drawn across wet filter pads where the air is cooled by evaporation and then circulated throughout the building. It is this combination of cooled air and the movement of air over the skin which makes it feel cool.

Unlike refrigeration systems which recirculate the air, an evaporative cooler continually brings in fresh air while exhausting old air. You are completely replacing the air every 2 to 4 minutes by opening windows or doors or a combination of both. The air is always fresh, not stale, laden with smoke and odors as happens with refrigerated air conditioning.

Safety Rules

1. Read these instructions carefully.
2. Unit must be in the **Off Position** and **Unplugged** from power receptacle when installing or performing any maintenance.
3. This cooler will run on 120 volt A.C., 60 Hz (cycle) current only.
4. Motor and pump are grounded and have an automatic thermal overload switch which will shut motor off if it overheats. The motor will restart automatically when it cools down.
5. Pump receptacle is for grounded evaporative cooler pump only. Do not plug anything else into receptacle.

⚠WARNING: To reduce the risk of fire or electric shock, do not use this fan with any "solid-state fan speed control device."

Operation

Manual Control Units

- **Pump setting.** The rotary switch has 6 settings. The “Pump” setting will operate the pump without the blower. For best results turn the switch to “Pump” for a few minutes to wet the pads before operating the fan.
- **High and low cool settings.** The “High Cool” and “Low Cool” settings operate both the pump and the blower. Turn the unit to “Low Cool” when possible. This lower speed allows the air to stay longer in the wet pads and therefore increases its cooling efficiency.
- **High and low vent settings.** The “High Vent” and “Low Vent” settings operate the blower without the pump. This is useful on cool nights or at times when just a fan is desired.

Remote Control Units

These units may be controlled using the 3 buttons on the front panel of the cooler or with the remote control.

- **PUMP button.** Pressing this button toggles the pump on and off. When the LED is lit, the pump is running. For best results turn on the pump for a few minutes to wet the pads before operating the fan. The pump must be on while operating the fan for cooling. You may also want the pump turned off at times when just a fan is desired.
- **FAN button.** Pressing this button will cycle the fan through High Speed / Low Speed / Off. The LED’s on the front of the control indicate whether the fan is on high speed, low speed or off (no LED’s lit). **Note: There will be a 2 second delay between a button press and the operation of the fan.**
- **ON/OFF button.** Pressing this button while the pump or fan is on will turn everything off. Pressing it again while in the off state will return the fan and pump to their previous operating settings. When first plugging in the cooler or after power has been interrupted, pressing the On/Off button will start the cooler in the default state which is with the pump on and the fan on high.
- **Remote Control.** To operate the cooler with the remote you must be within 20 feet and in sight of the cooler. Aim the remote at the front panel. The buttons on the remote control have the same functions as the buttons on the front panel of the cooler. The remote uses two AAA alkaline batteries which are included. A holder for mounting on a wall is also included with the unit.

Exhaust Air

If the unit is used in an enclosed area, open windows or doors to ensure adequate exhaust. Without an outlet to exhaust the air, humidity will build up in the enclosed space and the unit will not cool adequately.

Cooler Installation

Installing Casters

Note: The installation kit includes (2) swivel casters with brake, (2) swivel casters without brake, (16) tinnerman nuts and (16) 1/4-20 x 1/2 screws.

- Place the unit on its side. Place the tinnerman nuts on the caster bracket on the bottom pan as shown in figure 1.
- Attach the casters to the brackets with the screws provided.

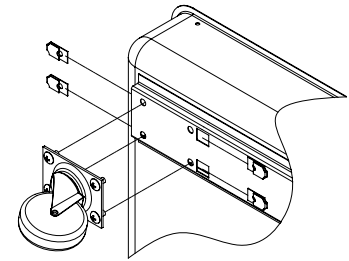


Fig. 1

Connecting Water

- **Install drain assembly.** Place the nipple through the hole in the pan, with the rubber washer between the pan and the head of the drain nipple (Fig. 2). Thread nut onto nipple and draw up tight against bottom of pan. Thread the drain cap to the nipple and tighten water tight.

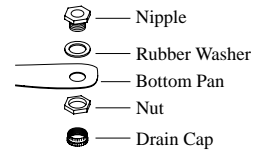
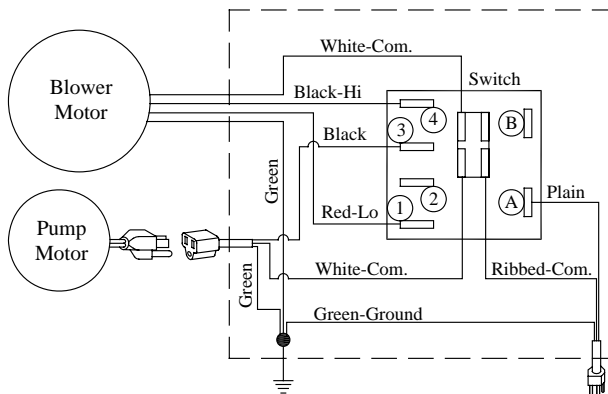


Fig. 2

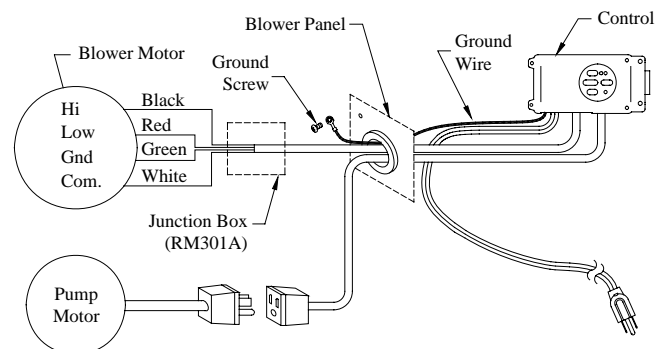
- **Install float valve.** Refer to figure 3. Install the valve in the provided hole in the corner post ((R)M301A, (R)M401A) or louvered side (M201A) using the provided washer and nut. Install the included garden hose adapter to the float as shown if attaching a garden hose to the unit. A 1/4 inch water line may also be used to supply a continuous amount of water to the unit.
- **Fill pan with water.** You may fill the pan manually for up to 3 hours of cooling. For automatic filling you may attach a garden hose to the garden hose adapter or a 1/4 inch water line to the float valve.

Wiring Diagrams

Manual Control



Remote Control



Note: Do Not Overfill. Fill water to a maximum height of 2 1/2 inches (approximately 1 inch from the top of the bottom pan). If using a garden hose, the float will need to be adjusted to maintain this water level. This can be accomplished by bending the float rod.

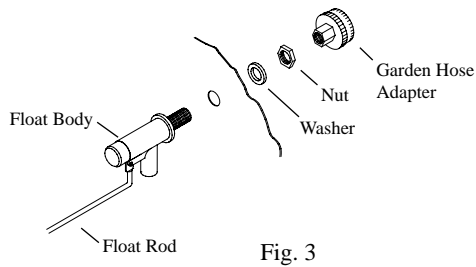


Fig. 3

Maintenance

⚠WARNING: Before doing any maintenance be sure power is off and unit is unplugged. This is for your safety.

Annual Maintenance

- **Oil bearings.** The blower bearings (M401A & RM401A only) and cooler motor in this unit should be oiled with a few drops of non-detergent 20/30 weight oil once each year. The motor does not need oil if it has no oil lines for oiling. Motors that have no oil lines are lifetime oiled at the factory and require no further oiling for the life of the unit.

⚠CAUTION: Do not over oil. Over oiling can cause motor burn out, due to excessive oil getting into motor winding.

- **Change Pads.** Pads should be replaced once or twice a season, depending upon the length of the season. At the beginning and at mid season a clean pad is more absorbent and efficient and will deliver substantially more cool air.

- **Check belt and belt tension.** This applies only to models (R)M401A which are belt driven. Models M201A and (R)M301A have direct drive motors. Check the belt for any cracks or wear and

replace if necessary. Check the tension on the belt. A 3 lb. force should deflect the belt 3/4 inches (see Fig. 4). Readjust belt if needed.

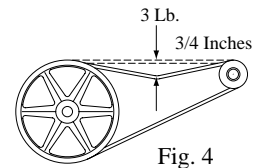


Fig. 4

- **Clean pump.** Cleaning the pump is necessary once a year at start-up. For your safety, turn unit off and unplug unit and pump. Remove the pump from the mount slot. Remove the base of the pump (Fig. 5). Clean the pump and turn the impeller to ensure free operation. Remove the pump spout and check for any blockage. After cleaning, reinstall the base onto the pump. Press firmly to make sure it is secure. Reattach the pump to the mount in the cooler using the plastic retainer to ensure that the pump will not overturn. Do not forget to replace the spout and water delivery tube onto the pump outlet.

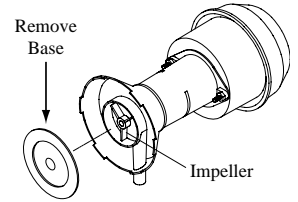


Fig. 5

Routine Maintenance

- **Drain water.** It is recommended to drain the water from the cooler at least once a week. Keeping fresh water in the pan will help prevent scale and mineral deposits accumulation on the pads. Always drain all of the water out of the cooler when not in use for prolonged periods, and particularly at the end of the season.

- **Unplug unit from power supply during extended periods of non-use.**

- **Cover unit or store inside when not in use.**

By following the operating, installation, and maintenance suggestions as outlined, you can get many years of efficient and satisfactory service from your cooler. In the event additional information is desired, your dealer will be more than glad to assist you in every possible way.

Register your product online at www.championcooler.com/eac/onlineregistration-eac.htm

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 through accident, neglect, or abuse by the owner. We do not authorize any person or representative to assume for us any other or different liability in connection with this product.

Terms And Conditions Of The Warranty

For Two Years from date of purchase, we will replace any original component provided by Champion Cooler which fails due to any defect in material or factory workmanship only.

Exclusions From The Warranty

We are not responsible for replacement of cooler pads. These are disposable components and should be replaced periodically. We are not responsible for any incidental or consequential damage resulting from any malfunction.

We are not responsible for any damage received from the use of water softeners, chemicals, descale material, plastic wrap, or if a motor of a higher horsepower than what is shown on the serial plate is used in the unit.

We are 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, contact the Customer Service Department: Champion Cooler, 5800 Murray Street, Little Rock, Arkansas 72209. 1-800-643-8341. info@championcooler.com.

This limited warranty applies to the original purchaser only.

Troubleshooting

<u>Problem</u>	<u>Possible Cause</u>	<u>Remedy</u>
Failure to start or no air delivery	<ol style="list-style-type: none"> No electrical power to unit <ul style="list-style-type: none"> Fuse blown Circuit breaker tripped Electric cord unplugged or damaged Belt too loose or tight Motor overheated <ul style="list-style-type: none"> Belt too tight Blower bearings dry Motor locked 	<ol style="list-style-type: none"> Check power <ul style="list-style-type: none"> Replace fuse Reset breaker Plug in cords or replace if damaged Adjust belt tension Determine cause of overheating <ul style="list-style-type: none"> Adjust belt tension Oil blower bearings Replace motor
Inadequate air delivery with cooler running	<ol style="list-style-type: none"> Insufficient air exhaust Belt too loose Pads plugged 	<ol style="list-style-type: none"> Open windows or doors to increase air flow Adjust belt tension or replace if needed Replace pads
Inadequate cooling	<ol style="list-style-type: none"> Inadequate exhaust in house Pads not wet <ul style="list-style-type: none"> Pads plugged Open spots in pads Trough holes clogged Pump not working properly 	<ol style="list-style-type: none"> Open windows or doors to increase air flow Check water distribution system <ul style="list-style-type: none"> Replace pads Repack pads Clean trough and unplug holes Replace or clean pump

<u>Problem</u>	<u>Possible Cause</u>	<u>Remedy</u>
Motor cycles on and off	<ol style="list-style-type: none"> Low voltage Excessive belt tension Blower shaft tight or locked Bearings dry 	<ol style="list-style-type: none"> Check voltage Adjust belt tension Oil or replace bearings Oil bearings
Noisy	<ol style="list-style-type: none"> Bearings dry Wheel rubbing blower housing Loose parts 	<ol style="list-style-type: none"> Oil bearings Inspect and realign Tighten loose parts
Excessive humidity in house	<ol style="list-style-type: none"> Inadequate exhaust 	<ol style="list-style-type: none"> Open doors or windows
Musty or unpleasant odor	<ol style="list-style-type: none"> Stale or stagnate water in cooler Pads mildewed or clogged Pads not wetting properly <ul style="list-style-type: none"> Trough holes clogged Pump not working properly 	<ol style="list-style-type: none"> Drain pan and clean pads Replace pads Check water distribution system <ul style="list-style-type: none"> Clean Replace or clean pump
Water draining from cooler	<ol style="list-style-type: none"> Float arm not adjusted properly Drain assembly leaking 	<ol style="list-style-type: none"> Adjust float Tighten nut and drain cap.

Specifications / Especificaciones

Model <i>Modelo</i>	Volts <i>Voltios</i>	Amperage <i>Ameraje</i>	Speed <i>Velocidad</i>	Water Capacity (gal) <i>Capacidad de Agua (galón)</i>	Weight (lbs.) <i>Peso (libras)</i>	
					Dry <i>Seco</i>	Operating <i>Lleno</i>
M201A	115	4.7	2	4.8	62	102
M301A / RM301A	115	7.9	2	9.2	107	184
M401A / RM401A	115	10.5	2	11.3	169	263

Replacement Parts List / *Lista De Piezas De Repuesto*

When ordering parts, please be sure to furnish the following information on all orders. Failure to do so may delay your order. /
Al pedir piezas, incluya toda la información siguiente con su pedido. El no proporcionar toda esta información resultará en una demora.

- | | |
|--|---|
| 1. Model number / <i>Modelo</i>
2. Serial number / <i>Número de serie</i> | 3. Description and part number / <i>Descripción y número de pieza</i>
4. Date of purchase / <i>Fecha de compra</i> |
|--|---|

No. N°	<u>Description / Descripción</u>	<u>M201A</u>	<u>M301A RM301A</u>	<u>M401A RM401A</u>
1.	Bottom Pan / <i>Base De La Caja</i>	322902-503	322904-504	322903-508
2.	Top Pan / <i>Tapa</i>	110844-1	110844-2	110844-3
3.	Blower Support Panel / <i>Panel De Soporte Para El Soplador</i>	222908-004	322908-005	322908-006
4.	Corner Post, With Float Hole / <i>Poste De Esquina, Con Agujero Para Flotador</i>	-	224003-022	224003-032
5.	Corner Post, For Pump Mount / <i>Poste De Esquina, Para Montar La Bomba</i>	-	224003-046	224003-047
6.	Top Support Bracket, Side / <i>Soporte De La Tapa, Lado</i>	-	218170-002 (3)	218170-002 (2)
7.	Top Support Bracket, Back / <i>Soporte De La Tapa, Posterior</i>	218170-001	-	218170-003
8.	Louvered Side, Right / <i>Reja Lateral, Derecha</i>	324102-112	-	-
9.	Louvered Side, Left / <i>Reja Lateral, Izquierda</i>	324102-212	-	-
10.	Louvered Side Assembly / <i>Montaje De Reja Lateral</i>	-	324006-403 (3)	324006-206 (2)
11.	Water Trough, Side / <i>Canal De Agua, Lateral</i>	-	226003-001 (3)	226003-001 (2)
12.	Filter, Side / <i>Filtro, Lateral</i>	110131-1 (2)	110131-3 (3)	110131-4 (2)
13.	Pad Retainer, Side / <i>Soporte Para El Filtro, Lateral</i>	3PW-1 (4)	3PW-3 (9)	3PW-3 (6)
14.	Louvered Back Assembly / <i>Montaje De Reja Posterior</i>	324102-303	-	324007-305
15.	Water Trough, Back / <i>Canal De Agua, Posterior</i>	-	-	226003-002
16.	Filter, Back / <i>Filtro, Posterior</i>	110131-2	-	110131-5
17.	Pad Retainer, Back / <i>Soporte Para El Filtro, Posterior</i>	3PW-2 (2)	-	3PW-5
18.	Blower Housing / <i>Caja De La Rueda</i>	324102-008	324120-001	324103-009
19.	Blower Wheel, Left / <i>Rueda, Izquierda</i>	110747	110764	15BW
19A.	Blower Wheel, Right / <i>Rueda, Derecha</i>	110748	-	-
20.	Shaft, Blower Wheel / <i>Eje De La Rueda</i>	-	-	110182
21.	Bearings, Blower Wheel Shaft / <i>Cojinetes Del Eje De La Rueda</i>	-	-	110351 (2)
22.	Pulley, Blower Wheel / <i>Polea De La Rueda</i>	-	-	110275
23.	Drive Belt / <i>Correa</i>	-	-	110212
24.	Pulley, Motor / <i>Polea Del Motor</i>	-	-	110273
25.	Motor Mount / <i>Montura Del Motor</i>	216002-001 (2)	218109-001 (2)	314003-025
26.	Motor Rail Grommet / <i>Arandela De Goma Para La Montura Del Motor</i>	-	110731 (4)	-
27.	Motor Mount Clips / <i>Seguros Para Montar Motor</i>	-	-	314005-001
28.	Motor / <i>Motor</i>	110441-C	110441-2	110447
29.	Pump / <i>Bomba</i>	110436	110436	110436
30.	Pump Screen / <i>Malla Para La Bomba</i>	281001-001	281001-001	281001-001
31.	Pump Mount / <i>Montura De La Bomba</i>	218001-032	218001-031	218001-031
32.	Pump Retainer / <i>Sujetador De La Bomba</i>	110714	110714	110714
33.	Tube, Water Delivery / <i>Tubo De Agua</i>	310716	310716	310716
34.	Water Distributor Assembly / <i>Sistema Del Distribuidor De Agua</i>	3D-1	3D-2	3D-3
35.	Retaining Clip, Water Distributor / <i>Retén Plástico Para El Distribuidor De Agua</i>	110723 (5)	110723 (6)	110723 (6)
36.	Drain Assembly / <i>Montaje De Desagüe</i>	3DA-1	3DA-1	3DA-1
37.	Float Valve / <i>Válvula Del Flotador</i>	FL-C	FL-C	FL-C
38.	Garden Hose Adapter / <i>Adaptador Para Manguera De Jardín</i>	110824	110824	110824
39.	Swivel Caster w/ Brake / <i>Rueda Giratoria Con Freno</i>	110822-5 (2)	110822-5 (2)	110822-5 (2)
40.	Swivel Caster w/o Brake / <i>Rueda Giratoria Sin Freno</i>	110822-2 (2)	110822-2 (2)	110822-2 (2)
41.	Tinnerman Nut / <i>Tuerca Tinnerman</i>	110916 (16)	110916 (16)	110916 (16)
42.	Lower Front Panel / <i>Panel Delantero Inferior</i>	110844-6	110844-5	110844-5
43.	Mounting Clip / <i>Sujetador De Panel Delantero</i>	-	110844-7 (2)	110844-7 (2)
44.	†Switch Box / <i>Caja Para El Interruptor</i>	222010-002	222010-002†	222010-002†
45.	†Switch / <i>Interruptor</i>	110425	110425†	110425†
46.	†Pump Receptacle / <i>Tomacorriente De La Bomba</i>	110395-1	110395-1†	110395-1†
47.	†Electrical Power Cord / <i>Cable Eléctrico</i>	110394	110394†	110394†
48.	†Electrical Motor Cord / <i>Cable Eléctrico Del Motor</i>	-	-	110366†
49.	†Bushing / <i>Pasacable</i>	110705	110705†	110705†
50.	†Knob, Switch / <i>Perilla Del Interruptor</i>	110839-006	110839-006†	110839-006†
51.	†Grill Assembly, Manual Units / <i>Rejilla Completa, Control Manual</i>	110844-41	110844-41†	110844-41†
51.	‡Grill Assembly, Remote Units / <i>Rejilla Completa, Control A Distancia</i>	-	110844-42‡	110844-42‡
52.	‡Electrical Control Assembly / <i>Montaje De Control Electrónico</i>	-	110400‡	110400‡
53.	‡Dress Ring / <i>Anillo Decorativo</i>	-	110403‡	110403‡
54.	‡Remote Control / <i>Mando A Distancia</i>	-	110401-1‡	110401-1‡
55.	‡Bushing / <i>Pasacable</i>	-	110733‡	110733‡
56.	‡Junction Box / <i>Caja De Conexiones</i>	-	281004-002‡	-
57.	‡Junction Block / <i>Bloque De Conexiones</i>	-	110404‡	-

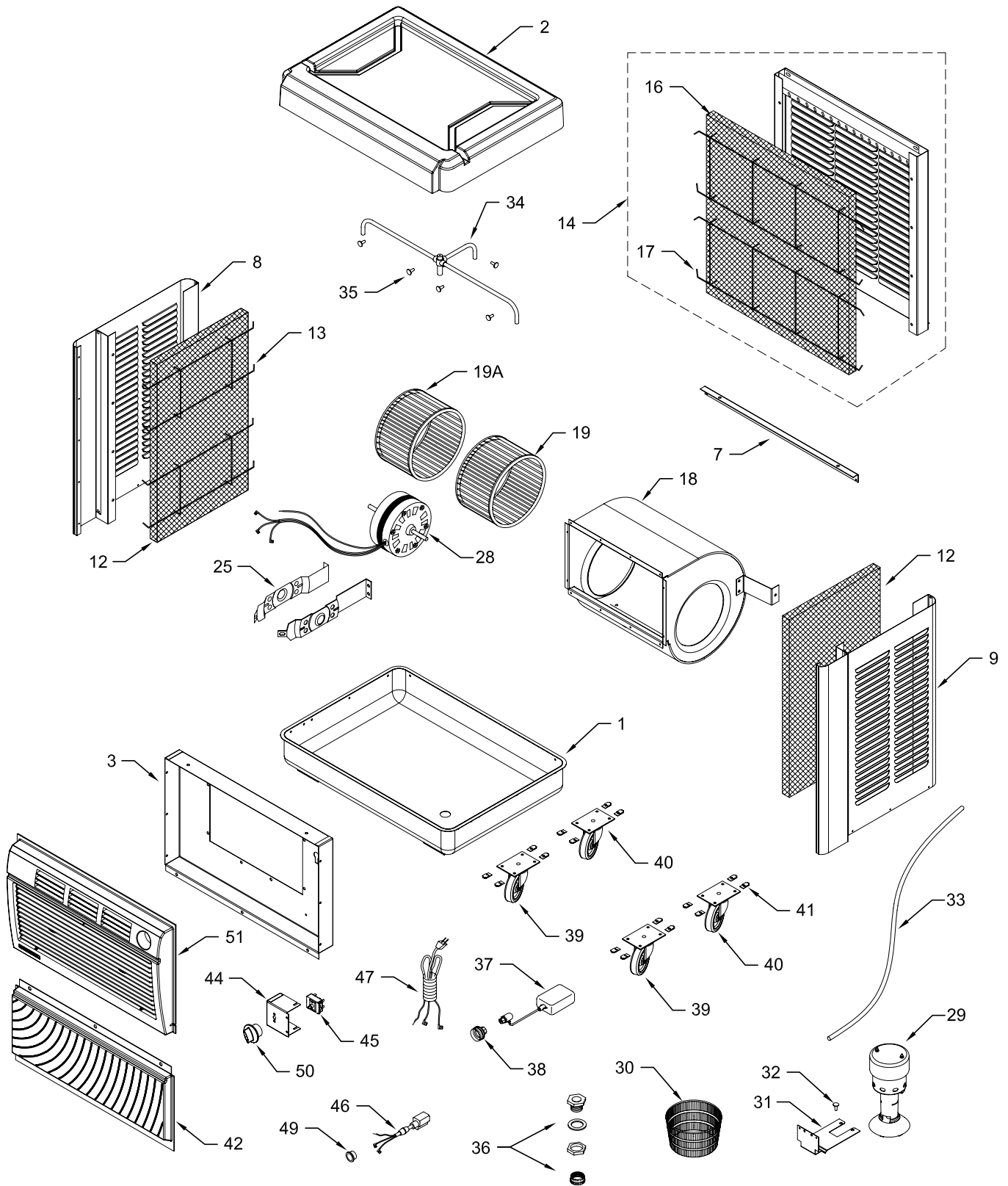
NOTE: Standard hardware items may be purchased from your local hardware store.
 NOTA: *Artículos de uso corriente pueden comprarse en la ferretería de su localidad.*

† For Manual Control units. / *Para las unidades de control manual.*

‡ For Remote Control units. / *Para las unidades de control a distancia.*

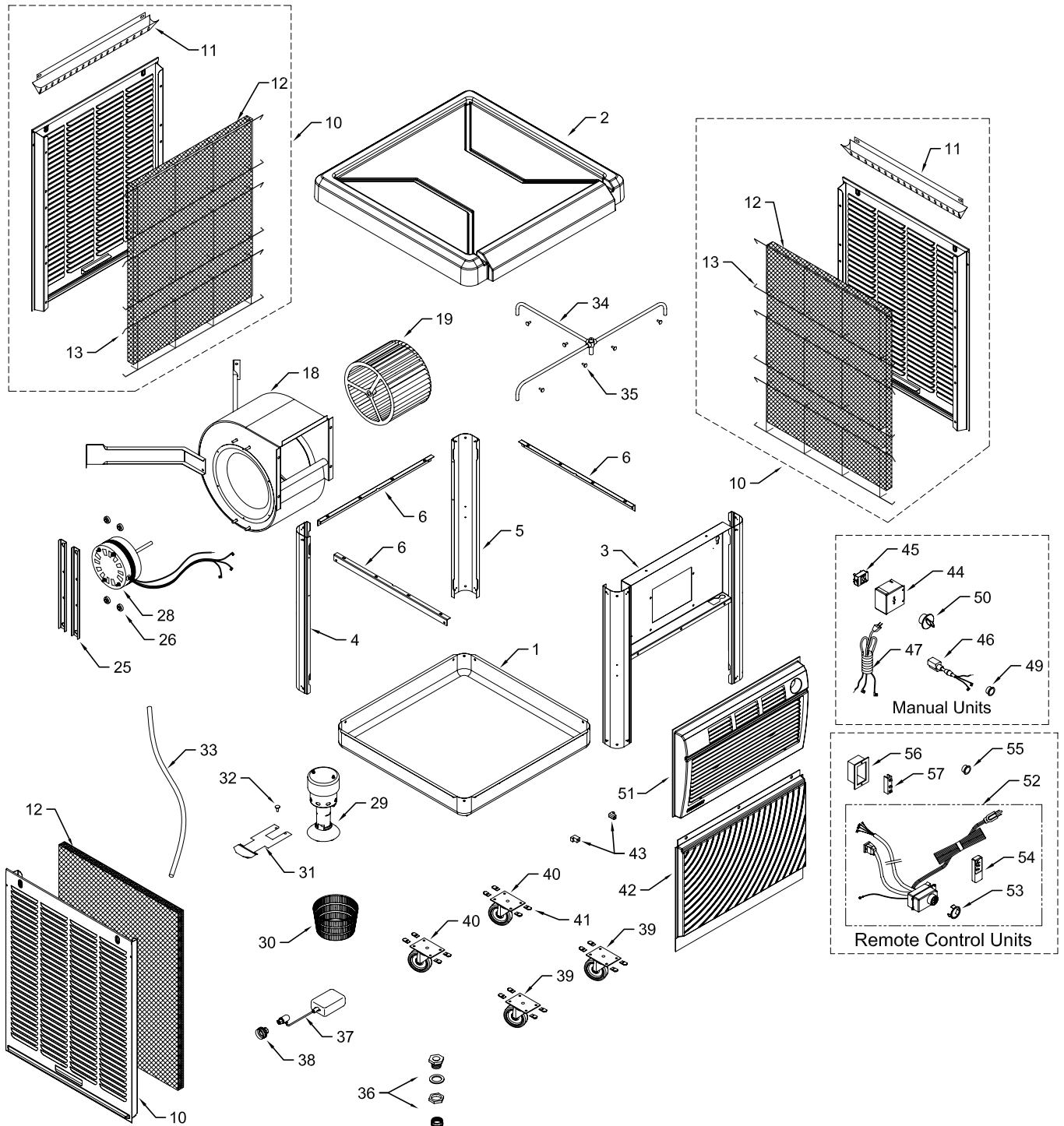
Parts Drawing / Dibujo De Piezas

M201A



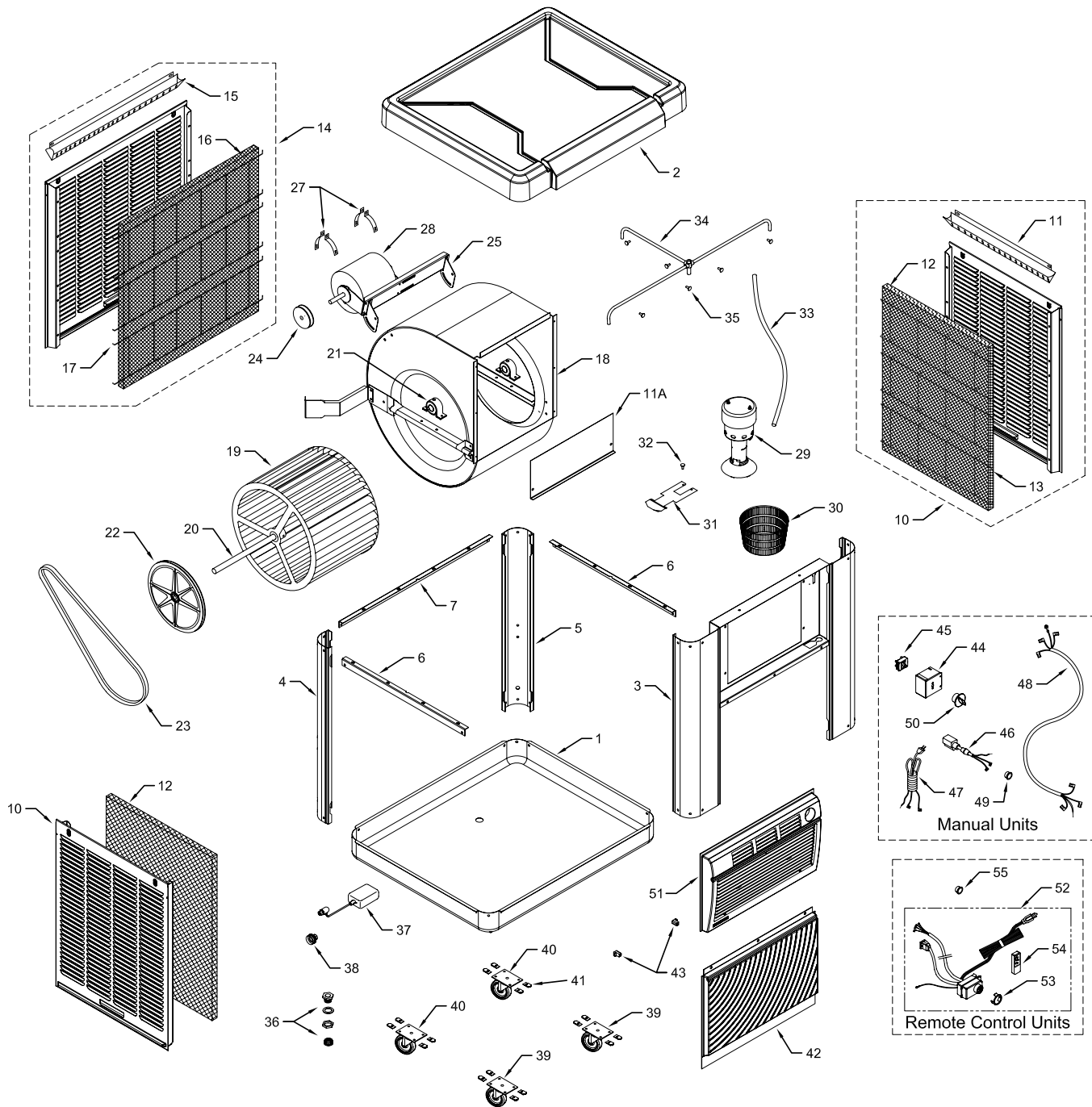
Parts Drawing / Dibujo De Piezas

M301A / RM301A



Parts Drawing / Dibujo De Piezas

M401A / RM401A



Lea y Conserve Estas Instrucciones

Reglas De Seguridad

1. Lea las instrucciones con cuidado.
 2. La unidad debe estar **Apagada y Desconectada** de la electricidad cuando se instale o haga cualquier mantenimiento.
 3. Su enfriador funciona sólo con corriente alterna de 120 voltios, 60 Hz. (ciclos).
 4. El motor y la bomba están conectados con la tierra, y se apagarán automáticamente en caso de sobrecalentamiento. Los motores volverán a funcionar cuando se enfrían.
 5. Enchufe una bomba del enfriador evaporativo solamente y nada más al receptáculo de la bomba.
- ⚠ADVERTENCIA:** Para reducir el riesgo de incendio o toques eléctricos, no use este ventilador con ningún "dispositivo de estado sólido para controlar la velocidad del ventilador."