

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

# Dayton® Evaporative Coolers

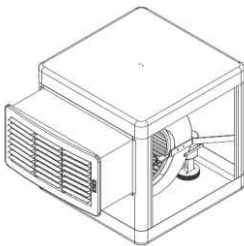
## Description

The Dayton® Evaporative Cooler is a natural way to condition the atmosphere. It cools by combining water evaporation with air movement, through carefully designed and manufactured equipment, providing maximum efficiency and safety. This air conditioning system, in addition to being economical, gives more benefits than other air conditioning systems for homes and businesses. The system does not use refrigerants or compressors; it cools by simply moving air through moist filters. Air temperature drops when a liquid, in this case water, transforms into gas. Humidity is not perceived, since the air in the room is renewed approximately every two minutes, providing a comfortable cooling effect. Continuous air circulation is a vital aspect of the cooling process in this equipment, and gives it a distinct advantage over air conditioning by refrigeration.

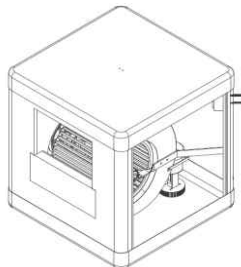
## Unpacking

Handle product carefully and check the packing list to account for all items. Visually inspect for shipping damage. If damaged, immediately file a claim with the carrier.

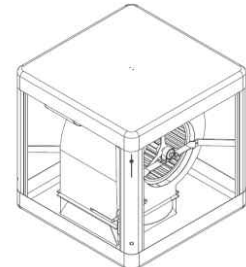
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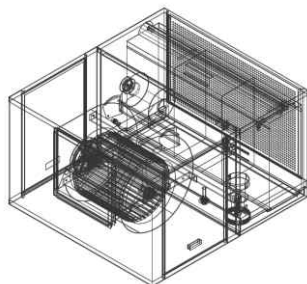
**Window Unit**  
4RNN8 / 4RNN7 / 4RNN6



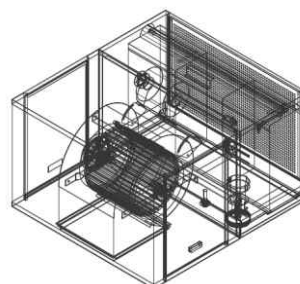
**Ducted Unit-Side Discharge**  
4RNP5 / 4RNP4 / 4RNP3



**Ducted Unit-Down Discharge**  
4RNP2 / 4RNP1 / 4RNN9



**Ducted Unit-Side Discharge (CELDEK)**  
4RNR4 / 4RNR2 / 4RNP9 / 4RNP7



**Ducted Unit-Down Discharge (CELDEK)**  
4RNR3 / 4RNR1 / 4RNP8 / 4RNP6

**Note:** Filters not shown (wet media)

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## Specifications:

	Motor hp (kw)	Volts (V)	Amperage	Frequency Hz	Phase	AWG Ga	Gross Weight Pounds (Kg)	Tank Capacity Gallons (liters)
4RNN8	1/8 (0.093)	120	2.6	60	1	16-18	56.2 (25.5)	6.3 (23.8)
4RNN7	1/3 (0.248)	120	6.5	60	1	16-18	81.6 (37)	10.4 (39.4)
4RNN6	1/2 (0.373)	120	8.5	60	1	16-18	126.1 (57.2)	15 (56.8)
4RNP5	1/3 (0.248)	120	6.5	60	1	16-18	79.4 (36)	10.4 (39.4)
4RNP2	1/3 (0.248)	120	6.5	60	1	16-18	88.6 (40.2)	7.7 (29.1)
4RNP4	1/2 (0.373)	120	8.5	60	1	16-18	123.5 (56)	15 (56.8)
4RNP1	1/2 (0.373)	120	8.5	60	1	16-18	134.9 (61.2)	11 (41.6)
4RNP3	3/4 (0.559)	120	10.5	60	1	16-18	170.2 (77.2)	17.8 (67.4)
4RNN9	3/4 (0.559)	120	10.5	60	1	16-18	181.2 (82.2)	12.7 (48.1)
4RNR4	3/4 (0.559)	120	10.5	60	1	16-18	143.3 (65)	9.3 (35.2)
4RNR3	3/4 (0.559)	120	10.5	60	1	16-18	143.3 (65)	9.3 (35.2)
4RNR2	1 (0.746)	120	12.3	60	1	16-18	169.8 (77)	9.3 (35.2)
4RNR1	1 (0.746)	120	12.3	60	1	16-18	169.8 (77)	9.3 (35.2)
4RNP9	3/4 (0.559)	120	10.5	60	1	16-18	143.3 (65)	9.3 (35.2)
4RNP8	3/4 (0.559)	120	10.5	60	1	16-18	143.3 (65)	9.3 (35.2)
4RNP7	1 (0.746)	120	12.3	60	1	16-18	169.8 (77)	9.3 (35.2)

## Dimensions Table in:

Model	Discharge	Transmission	Height (in)	Width (in)	Depth (in)	Cool Pad Type
4RNN8	Window	Direct	27	22	31	Aspen
4RNN7	Window	Belt drive	28 1/4	28 1/4	38 3/16	Aspen
4RNN6	Window	Belt drive	35 1/4	34	43 1/2	Aspen
4RNP5	Side	Belt drive	28 1/4	28	28	Dry
4RNP2	Down	Belt drive	28 1/4	28	28	Dry
4RNP4	Side	Belt drive	35 1/4	34	34	Dry
4RNP1	Down	Belt drive	35 1/4	34	34	Dry
4RNP3	Side	Belt drive	42 1/4	37	37	Dry
4RNN9	Down	Belt drive	42 1/4	37	37	Dry
4RNR4	Side	Belt drive	27 1/4	42	43	Celdek
4RNR3	Down	Belt drive	27 1/4	42	43	Celdek
4RNR2	Side	Belt drive	32 1/4	42	43	Celdek
4RNR1	Down	Belt drive	32 1/4	42	43	Celdek
4RNP9	Side	Belt drive	27 1/4	42	47	Celdek
4RNP8	Down	Belt drive	27 1/4	42	47	Celdek
4RNP7	Side	Belt drive	32 1/4	42	47	Celdek
4RNP6	Down	Belt drive	32 1/4	42	47	Celdek

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## General Safety Information

1. Read all instructions before operating, installing or fixing the evaporative air cooler.
2. This product operates at 110-120V AC, 60 Hz only.
3. Do not use with a damaged cord or plug, and keep the cord away from heated surfaces.

**⚠ WARNING** *If the power supply cord is damaged, it must be replaced by a qualified person in order to avoid a hazard.*

4. Do not insert any foreign objects into the air inlet or outlet, body injury or property damage may occur.
5. Do not operate this product near an open fire, it may ignite and cause fire, resulting in body injury or property damage.
6. Do not operate in areas where gasoline, paint or other flammable liquids are used or stored.

**⚠ WARNING** *Prior to cleaning or other maintenance, the air cooler must be unplugged.*

7. Always unplug the power cord from receptacle when the air cooler is not in use, before cleaning, replacing parts, or before moving to another location.
8. Do not plug the cord into electric outlet with wet hands, an electric shock may result.
9. Never attempt to disassemble or alter the product in any way not instructed by this manual. Shock, fire, or body injury may occur.
10. Use only on GFCI protected receptacle.

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

## Installation

Window Models: 4RNN6, 4RNN7 and 4RNN8

**NOTE:** To be installed by a licensed professional technician.

1. Take the measurements of the neck and open the wall or window accordingly.
2. Remove the front grill from the unit by unscrewing the bolts.

**NOTE:** Be careful not to unplug the front switches.

3. Install the unit through the wall or window opening.
4. Secure the unit to the wall or window and support the weight of the unit if above the ground.

**NOTE:** The weight of the unit is increased when water is added.

5. Level unit horizontally.
6. Install float and drain valve (see page 4).
7. Check all water connections.
8. Connect unit to 110-120V GFCI receptacle.

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**Ducted Models: 4RNN9, 4RNP1 through 4RNP9, 4RNR1 through 4RNR4**

**NOTE:** To be installed by a licensed professional technician.

**⚠ WARNING** *Disconnect all power to the evaporative air cooler*

1. Install evaporative air cooler in a well ventilated area. A common equation for air flow is for every open area of 1 x 1 feet there should be 500 CFM of injected air.
2. Assure the mounting surface is able to bear the weight of the evaporative air cooler.

**NOTE:** The weight of the unit is increased when water is added.

3. Confirm the electrical supply is adequate for the requirements of the unit.

**⚠ WARNING** *The evaporative air cooler must be installed according to all national and local electrical codes. The installation must be performed by a qualified technician.*

4. Assure that the mounting surface is level in all directions.

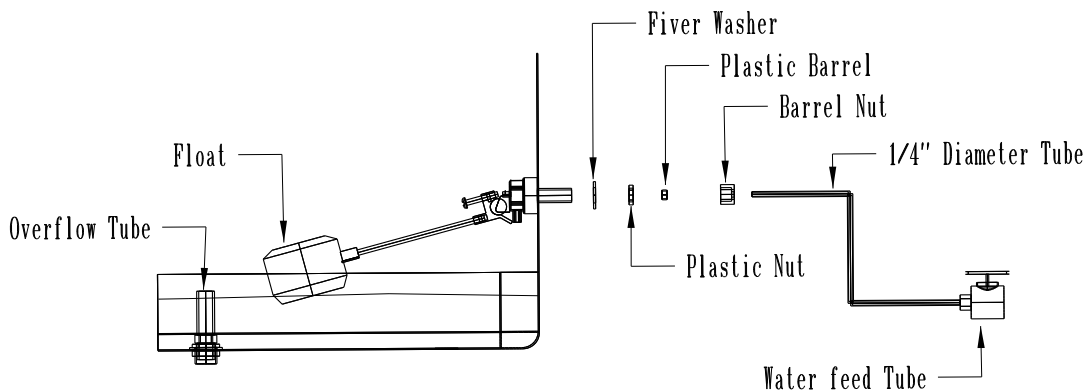
**Float Valve Assembly**

The following parts are included:

- Float Valve
- O-Ring
- Nut
- 1/4" hose oppressor
- Barrel Nut

1. Remove the float valve and parts (listed above) from inside the unit.
2. Push the plastic o-ring onto the threaded shaft of the float valve until snug against the back.
3. Pass the shaft of the float valve through the pre-drilled hole in the unit.

4. Secure with the plastic nut.
5. Insert 1/4" water hose into the barrel nut.
6. Insert the 1/4" plastic hose oppressor.
7. Countersink the hose edge that will be placed up against the float valve shaft.
8. Place the hose edge to the float valve shaft and tighten with the barrel nut.
9. Check for leaks.
10. Adjust the water level requirement for your unit.



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## Overflow Tube Assembly

1. Place the rubber washer on the bottom tray aligned with the drain hole.
2. Push the plastic drain piece through the rubber washer and out the drain hole.
3. Screw the overflow tube into the plastic drain piece.
4. Tighten to the unit with the plastic nut from the bottom of the unit.
5. Check for water leakage.

## Electrical Connection

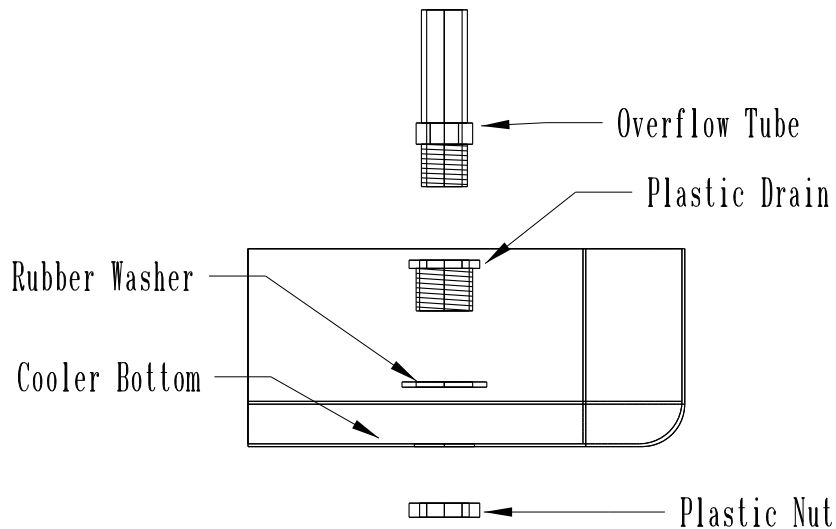
**⚠ WARNING** *All electrical connections must comply with federal and local safety regulations and be performed by a qualified professional technician.*

### Confirm before initial startup:

1. Cabinet is level.
2. Blower spins freely.
3. Electrical specifications meet the amperage of the unit.
4. Water supply is stable and no leaks.

Connect the unit to a 110-120V~ +/- 10% 60 Hz current (wiring diagram, page 9). The power supply for the cooler should be connected directly to the main switch box. Make sure that the power switches are in the off position before operating your cooler.

**⚠ WARNING** *If the power supply cord is damaged, it must be replaced by a qualified person in order to avoid a hazard.*



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## Maintenance

Maintenance is important for your cooler to have an effective and long service life. To avoid unnecessary part replacements, keep your unit in good condition. Do not add cleaners, additives or scents to the water, it may reduce the life of your equipment. Do not change the size of the pulleys, it may overload the motor and "burn out" the unit.

## Beginning of Season

1. Turn off power to the unit.
2. Change the aspen or Celdek® evaporative cool pad.

**NOTE:** Be sure the Celdek® cool pad arrows are in the same direction as the air flow.

3. Clean the tray, equipment and filters. (See Unit Cleaning)
4. Check the belt condition and tension. (See drawing page 8)
5. Lubricate bearings, as necessary. (Lithium base oil)
6. Open water valve.
7. Confirm the water distribution is working properly.
8. Adjust the water float valve if needed.
9. Start the unit.

## Middle of Season

1. Change aspen or Celdek® evaporative cool pad if necessary.

## End of Season

1. Turn off power to the unit.
2. Close the water valve
3. Remove V-belt.
4. Drain and dry the tray.
5. Lubricate bearings.
6. Cover the unit.

## UNIT CLEANING

### For units: 4RNN6 through 4RNN9 and 4RNP1 through 4RNP5

1. Be sure to turn off the power supply before performing maintenance.
2. Remove the side and back walls of the cabinet.
3. Completely drain the cabinet by removing the drain from the base.
4. Using a brush with soft plastic bristles, clean the water tank by removing the dust and accumulated mineral salts (only use water to clean the tank).
5. Put the drain back into its original position. Make sure there are no leaks.

6. If you are not going to use your unit for more than 30 days, turn off the main water and power supply.

### For units: 4RNP6 through 4RNP9 and 4RNR1 through 4RNR4

1. Turn off power to the unit.
2. Remove the bolts and open the cover 180°.
3. Remove the perforated plate.
4. Carefully remove the thermoformed pieces.
5. Remove the Celdek® toward the perforated plate and put aside to dry.
6. Clean the Celdek® with a smooth, plastic brush after the pad is dry.
7. Clean the bottom tray.
8. Confirm the float valve is installed properly.
9. Re-install the Celdek® by following the arrows on the pad.
10. Re-install the thermoformed pieces onto the Celdek® pad.
11. Re-install the perforated plate and the cover.

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## WATER PUMP

1. Turn off the power to the unit.
2. Remove shipping lock on pump body.
3. Remove the bottom base plate to clean pump cavity when clogged.
4. Clean pump filter when clogged by using a soft bristle brush to remove accumulated dust and scaling.

**NOTE:** Never remove the screen, as removal may cause contaminants to obstruct pump.

5. Re-install base plate by following sequence numbers on the bottom of the plate.
6. Remove water pump from cooler during the winter and store in a dry place.

## CHANGING THE FILTER/ WET MEDIA (ASPEN/ CELDEK)

1. Using pliers, unbend the points of the supports and remove them from the wall.

2. Remove the dirty filters.
3. Clean the wall body and the upper channel. Use water and a soft bristle brush only.
4. Place the new filters into the walls. Make sure that the filters are well moistened before putting them into place.
5. Place the supports into their original position once maintenance has been performed.

**NOTE:** Never operate the unit without these parts in place. Doing this could generate an overload and damage the motor.

## BELT ADJUSTMENT

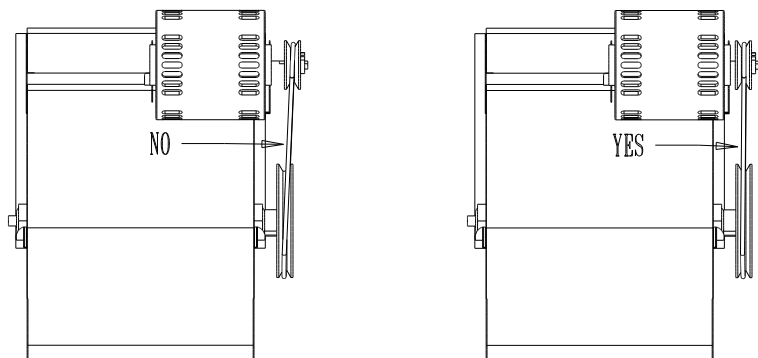
The adjustable belt and pulleys are factory set. Any alteration to the air flow system should be done by an authorized technician. Before any adjustment is made, unplug the cooling system.

The appropriate belt tension and alignment is an important factor for

the efficient operation of the unit. Do not adjust the belt tension by changing the pulleys diameter. Adjust the brackets that hold the motor to the motor base only. Due to wear and use, the belt tends to loosen, therefore, check for proper tension during maintenance.

To adjust the belt tension, loosen the screws on the motor brackets (use a 7/16 inch or an adjustable wrench). Once loosened the motor can then be repositioned to apply more tension to the belt. Belt tension should be adjusted to allow for 1.2 cm (1/2") to 2 cm (3/4") of flexing on each side of pulley. Once the required belt tension is reached, retighten set screws on the bracket. Align the belt in vertical position, and check the amperage of the motor.

## PULLEY ALIGNMENT



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## PULLEY ADJUSTMENT

Incorrect pulley adjustment and alignment will affect performance by reducing airflow, raising amperage, or causing motor to overheat.

**⚠ WARNING** Before make any adjustments de-energize your equipment to avoid personal risks.

To adjust pulleys loosen the set screws and align the motor pulley with the turbine pulley vertically by moving outwards or inwards on the shaft of the motor. A straight edge should be used when aligning pulleys. After adjustment retighten set screws. Turn the turbine pulley manually to make

sure it misses the turbine box and that the motor pulley does not make contact with the motor.

## Motor maintenance

**⚠ WARNING** Always de-energize your cooler before working near or in the motor.

- 1.The motor can require periodical maintenance to avoid overheating due to dust accumulation on the windings and frame.
- 2.Lubricate the motor annually after first year of use to extend bearings life.

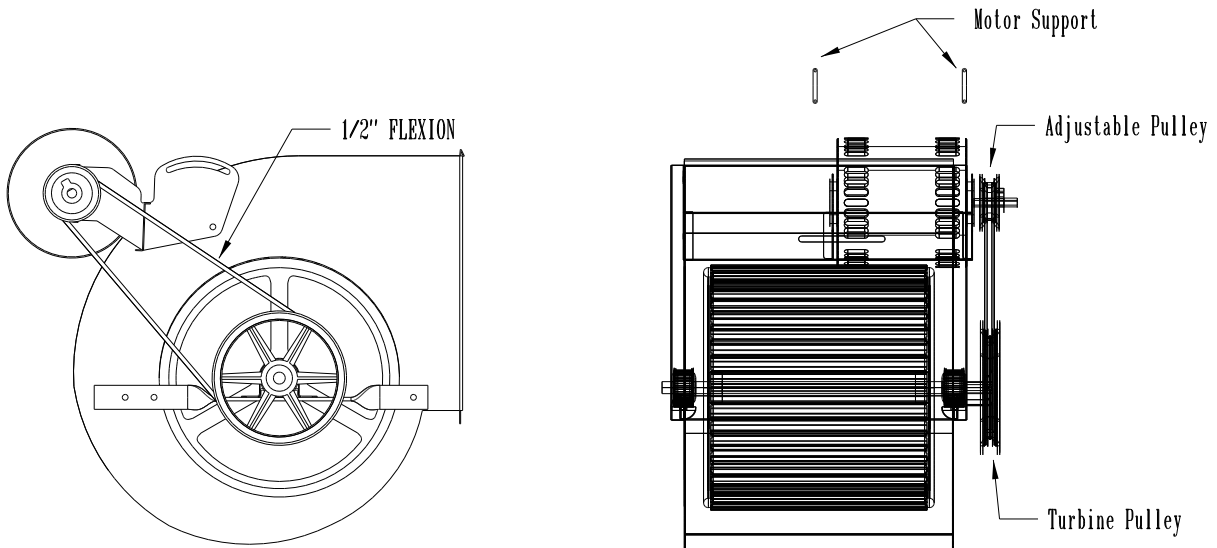
- 3.Add 15 to 20 oil drops for electric motor or SAE grade 10, and turn the shaft.

## Lubricating bearings

**⚠ WARNING** Always de-energize your cooler before any maintenance.

1. Add 6 drops of lithium oil or grease with lithium base.
- 2.Do this maintenance two times per year.

## PULLEY ADJUSTMENT



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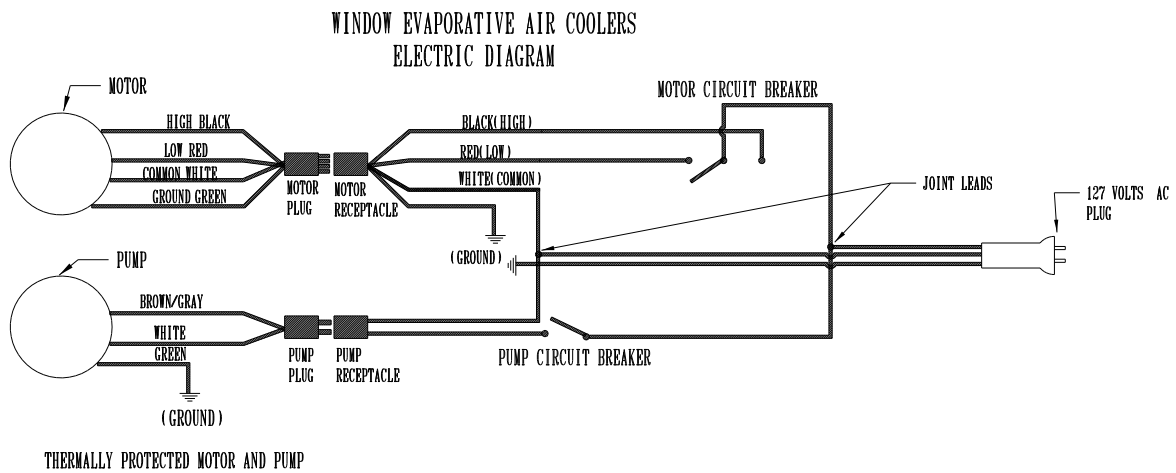


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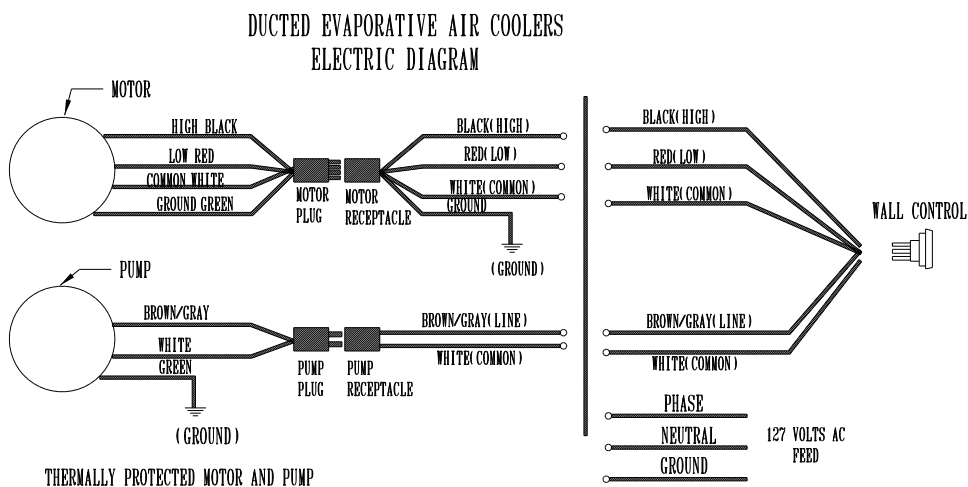
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## Electrical Diagram

Models 4RNN6, 4RNN7, 4RNN8 (window units)



**Models 4RNP3, 4RNP4, 4RNP5, 4RNP1, 4RNP2, 4RNN9, 4RNR4, 4RNR2, 4RNP9, 4RNP7, 4RNR3, 4RNR1, 4RNP8, 4RNP6 (ducted units, side and down discharge)**



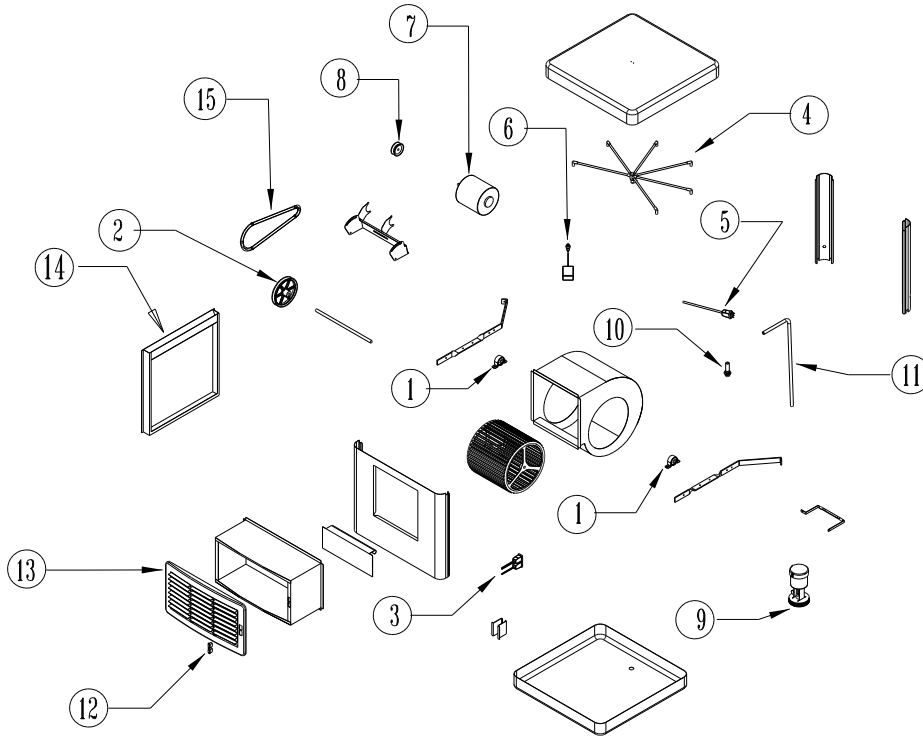
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Troubleshooting Chart		
Symptoms	Possible Cause	Corrective Action
Unit does not start	1. Unit does not have electricity.	1. Check the electrical.
	2. Blown fuse.	2. Change the fuse.
	3. Switch is disconnected.	3. Re-connect switch.
	4. Motor is overheated.	4. Call an authorized technician.
	5. Wiring failure/short circuit.	5. Consult with an electrician.
Insufficient Cooling/Excessive humidity	1. Front grill is not oriented correctly.	1. Correct the orientation of the grill.
	2. Filter is not wet.	2. Check water distribution hose and pump for leaks or bends.
	3. Filter is full of dust or mineral salts.	3. Clean or change filter.
	4. Water distributor clogged.	4. Change water distributor.
	5. Water pump is not working.	5. Clean pump filters, check filter, or replace pump.
	6. Motor overload.	6. Call an authorized technician.
Motor shuts off	1. Motor shaft is forced.	1. Call an authorized technician.
	2. Tight belt.	2. Adjust belt tension.
	3. Propeller not centered.	3. Call an authorized technician.
Water leaking from unit	1. Float valve adjusted incorrectly.	1. Correct position of valve and adjust float level.
	2. Drain not tightened.	2. Tighten the drain.
Inside Noises	1. Bearings do not have sufficient oi.	1. Lubricate bearings.
	2. Propeller is not aligned.	2. Call an authorized technician.
	3. Loose pulleys	3. Adjust and tighten pulleys.
Unpleasant smells	1. Stagnant water in tank.	1. Drain, wash and clean the tray.
	2. Filters are full of dust.	2. Clean or change filters.
Water leaving by the front grill	1. Filters too much wet (damp)	1. Restrict the water way to the filters, obstruct partially the internal water hose.

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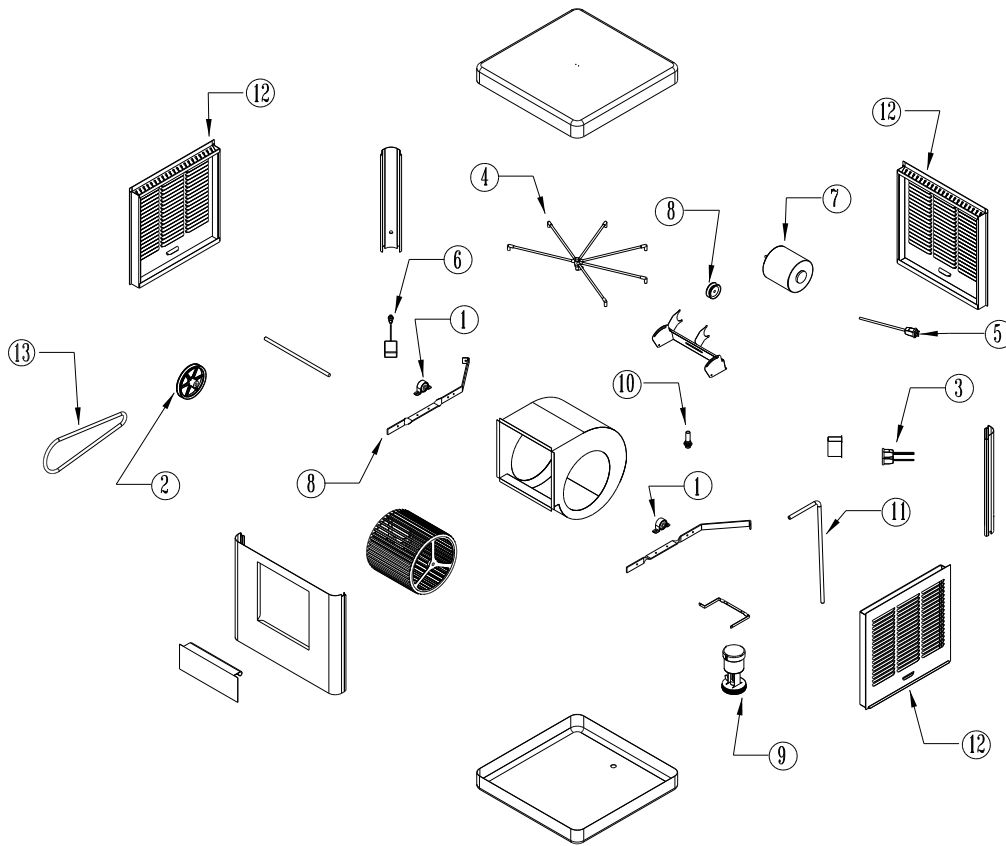


Repair Parts List for 4RNN6, 4RNN7 and 4RNN8

Ref No.	Description	4RNN6 Part No.	4RNN7 Part No.	4RNN8 Part No.	Qty
1	Bearings	2X529	2X529	N/A	2
2	Turbine Pulley	1L839	3X923	N/A	1
3	Motor & Pump Receptacles	HV120001G	HV120001G	HV120001G	1
4	Water Distributor	HV120003G	HV120003G	HV120002G	1
5	Motor Plug	HV120006G	HV120006G	HV120006G	1
6	Float	2X768	2X768	2X768	1
7	Motor	2HTK9	2HTK5	HV10007G	1
8	Adjustable Pulley	3X903	3X765	N/A	1
9	Water Pump	3CB58	3CB58	3CB58	1
10	Overflow Pipe	HV120009G	HV120009G	HV120009G	1
11	Water Hose	HV120010G	HV120010G	HV120010G	1
12	Motor & Pump Switches	HV120011G	HV120011G	HV120011G	1
13	Front Grill	HV120013G	HV120013G	HV120012G	1
14	Filter	HV120016G	HV120015G	HV120014G	1
15	V-Belt	6A148	3X699	N/A	1

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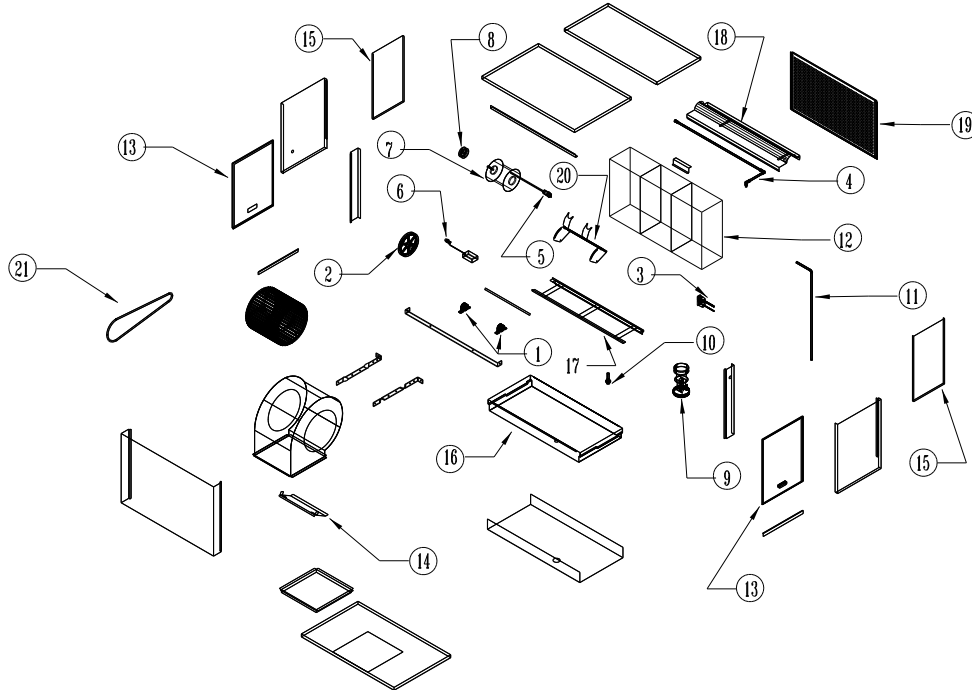


Repair Parts List for 4RNN9, 4RNP1, 4RNP2, 4RNP3, 4RNP4 and 4RNP5

Ref No.	Description	4RNN9 Part No.	4RNP1 Part No.	4RNP2 Part No.	4RNP3 Part No.	4RNP4 Part No.	4RNP5 Part No.	Qty
1	Bearings	2X531	2X529	2X529	2X531	2X529	2X529	2
2	Turbine Pulley	1L841	1L839	3X923	1L841	1L839	3X923	1
3	Motor & Pump Receptacles	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	1
4	Water Distributor	HV120004G	HV120004G	HV120004G	HV120003G	HV120003G	HV120003G	1
5	Motor Plug	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	1
6	Float	2X768	2X768	2X768	2X768	2X768	2X768	1
7	Motor	2HTL4	2HTK9	2HTK5	2HTL4	2HTK9	2HTK5	1
8	Adjustable Pulley	1X447	3X903	3X765	1X447	3X903	3X765	1
9	Water Pump	3CB58	3CB58	3CB58	3CB58	3CB58	3CB58	1
10	Overflow Pipe	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	1
11	Water Hose	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	1
12	Filter	HV120029G	HV120030G	HV120031G	HV120032G	HV120033G	HV120034G	1
13	V-Belt	3X547	3X704	3X621	3X547	6A148	3X699	1

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Repair Parts List for 4RNP6, 4RNP7, 4RNP8, 4RNP9, 4RNR1, 4RNR2, 4RNR3, 4RNR4

Ref No.	Description	4RNP6 Part No.	4RNP7 Part No.	4RNP8 Part No.	4RNP9 Part No.	4RNR1 Part No.	4RNR2 Part No.	4RNR3 Part No.	4RNR4 Part No.	Qty
1	Bearings	2X531	2X531	2X529	2X529	2X531	2X531	2X529	2X529	2
2	Turbine Pulley	1L841	1L841	1L839	1L839	1L841	1L841	1L839	1L839	1
3	Motor & Pump Receptacles	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	HV120001G	1
4	Water Distributor	HV120005G	HV120005G	HV120005G	HV120005G	HV120005G	HV120005G	HV120005G	HV120005G	1
5	Motor Plug	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	HV120006G	1
6	Float	2X768	2X768	2X768	2X768	2X768	2X768	2X768	2X768	1
7	Motor	4UE42	4UE42	2HTL4	2HTL4	4UE42	4UE42	2HTL4	2HTL4	1
8	Adjustable Pulley	3LC28	3LC28	3X274	3X274	3LC28	3LC28	3X274	3X274	1
9	Water Pump	3CB58	3CB58	3CB58	3CB58	3CB58	3CB58	3CB58	3CB58	1
10	Overflow Pipe	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	HV120009G	1
11	Water Hose	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	HV120010G	1
12	Celdek®	4YC18	4YC18	4YC17	4YC17	4YC32	4YC33	4YC43	4YC43	1
13	Doors	HV120035G	HV120035G	HV120036G	HV120036G	HV120035G	HV120035G	HV120036G	HV120036G	2
14	Cutter	HV120037G	HV120037G	HV120038G	HV120038G	HV120037G	HV120037G	HV120038G	HV120038G	1
15	Wet Module Sideways	HV120017G	HV120017G	HV120017G	HV120017G	HV120018G	HV120018G	HV120019G	HV120019G	2
16	Thermoformed Tray	HV120020G	HV120020G	HV120020G	HV120020G	HV120021G	HV120021G	HV120021G	HV120021G	1
17	Celdek® Base	HV120022G	HV120022G	HV120022G	HV120022G	HV120023G	HV120023G	HV120023G	HV120023G	1
18	Land Fill	HV120025G	HV120025G	HV120025G	HV120025G	HV120026G	HV120026G	HV120026G	HV120026G	1
19	Protective Mesh	HV120027G	HV120027G	HV120028G	HV120028G	HV120027G	HV120027G	HV120028G	HV120028G	1
20	Motor Base	HV120039G	HV120039G	HV120040G	HV120040G	HV120039G	HV120039G	HV120040G	HV120040G	1
21	V-Belt	6A148	6A149	3X702	6A148	6A148	6A149	3X702	6A148	1

# Dayton® Evaporative Coolers

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