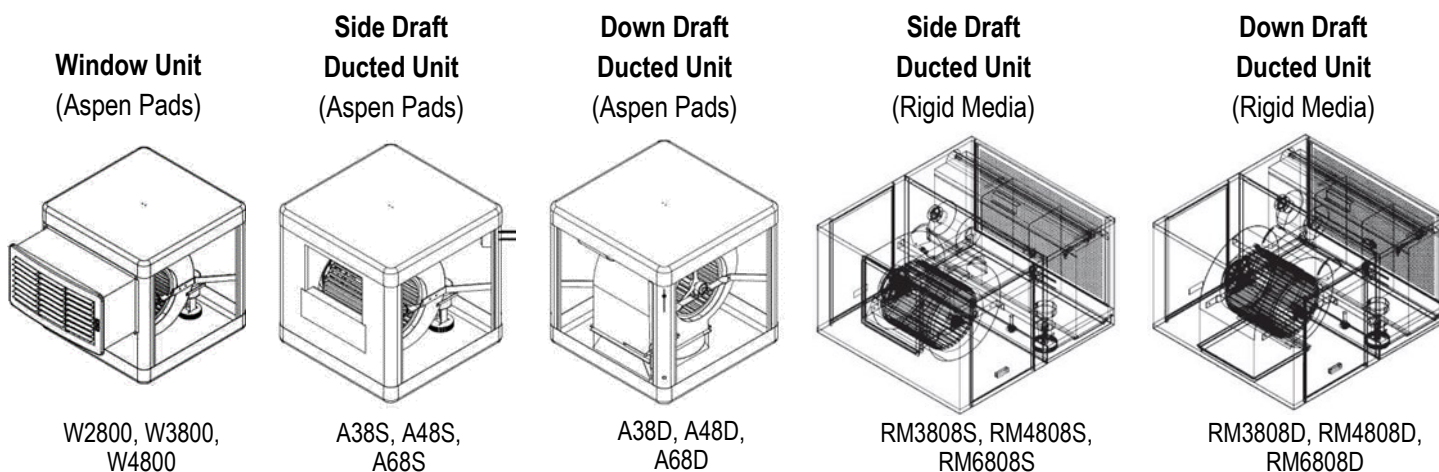


Operating Instructions & Parts Manual

Attn: Please read and save these instructions. Read carefully before attempting to assemble, install, operate or perform any maintenance on the cooler. Protect yourself and others by observing all safety information. Failure to comply with instructions, cautions or warnings could result in personal injury and/or property damage. Retain instructions for future reference.

Models Covered In This Manual



Note: Shown without aspen pads or rigid media

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Unpacking & Inspection

Carefully unpack product and verify all items are included per packing list. Visually inspect all items for damage that may have occurred during transit. Inspect for loose, damaged or missing parts. Do not attempt to use any parts that are damaged. If damage is observed, immediately file a freight claim with the carrier.

Safety Warnings



1. Read all instructions, warnings and cautions before operating, installing or performing maintenance on the evaporative cooler. Consult a qualified person for installing and performing maintenance.
2. Always disconnect power(window units should be unplugged) before performing any maintenance, cleaning, moving cooler or when the cooler is not in use.
3. Do not use with a damaged cord or plug. Keep cords away from heated surfaces or sharp objects. If the power cord is damaged, it must be replaced by a qualified person to prevent a hazard.
4. Do not plug the cord into an electric outlet with wet hands as a shock may occur.
5. Do not insert any foreign objects into the air inlet or outlet as this may result in bodily injury or property damage.
6. Do not disassemble or alter product from original factory condition as this may result in bodily injury or property damage..
7. To reduce the risk of fire or electrical shock, do not use this fan cooler with any solid-state speed control device.
8. Use only on GFCI protected receptacle.

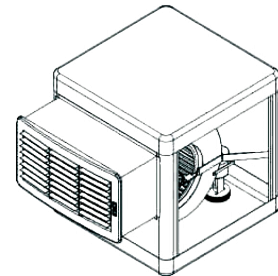
General Safety Information



1. This product operated on 115V AC, 60Hz only
2. Do not operate this product near an open fire as it may ignite causing bodily injury or property damage.
3. Do not operate in areas where gasoline, paint or other flammable liquids are used or stored.
4. Do not use this product in the immediate area of a bath, shower or swimming pool.

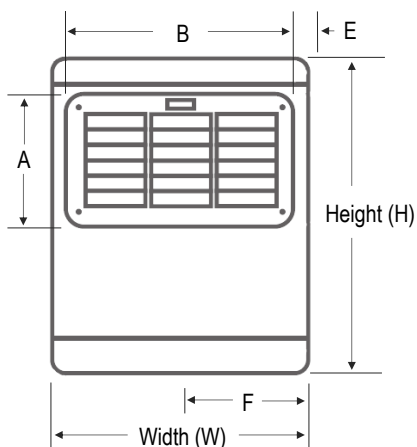
Specifications / Dimensions: Window Units

Model	Mount	Drive	Nominal CFM	Motor Electrical Specifications					Pump	Belt
				HP	Speeds	Volts	Hz	Amps		
W28	Window	Direct	2800	1/8	2	115	60	3.2	220	N/A
W38	Window	Belt	3800	1/3	2	115	60	5.5	220	A-43 (4L-450)
W48	Window	Belt	4800	1/2	2	115	60	7.5	380	A-57 (4L-590)

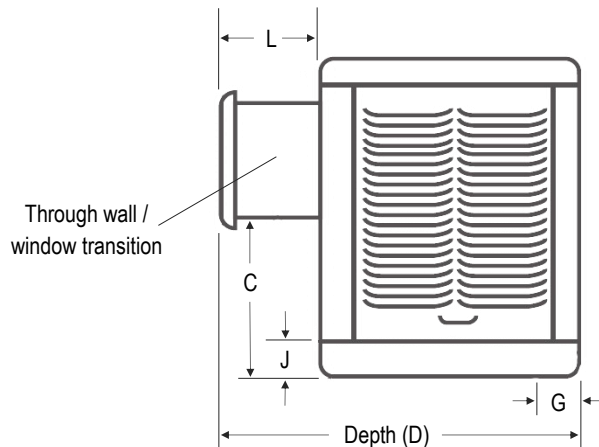


Model	Cabinet (In.)			Duct Location (In.)					Drain (In.)		Pan (In.)	Unit Weight (lbs)		Media Pad Dims (In.)			Blower Wheel Dims (In.)			Blower Pulley (In.)
	Height	Width	Depth	Opening		Position			Position			Ship	Operating	# Per Unit	Height	Width	Dia.	Width	Shaft Dia.	Outer Dia.
	H	W	D	A	B	C	E	L	F	G	J									Outer Dia.
W28	27	22	22	9 5/8	18 11/16	14 1/2	1 3/4	9	11	6 5/16	3	56	96	3	23	17 1/2	9	8	1/2	N/A
W38	28 1/4	28	28	10 3/4	22 1/3	13 3/16	3	10	14 1/8	5 1/4	3 1/2	80	181	3	22 7/16	22 3/4	12	12	5/8	7
W48	35 1/4	34	34	12 1/4	23 1/8	17 1/4	5 1/4	10	17 5/8	5 1/4	3 1/2	123	262	3	29 1/4	28 1/2	16	16	5/8	7

Face View



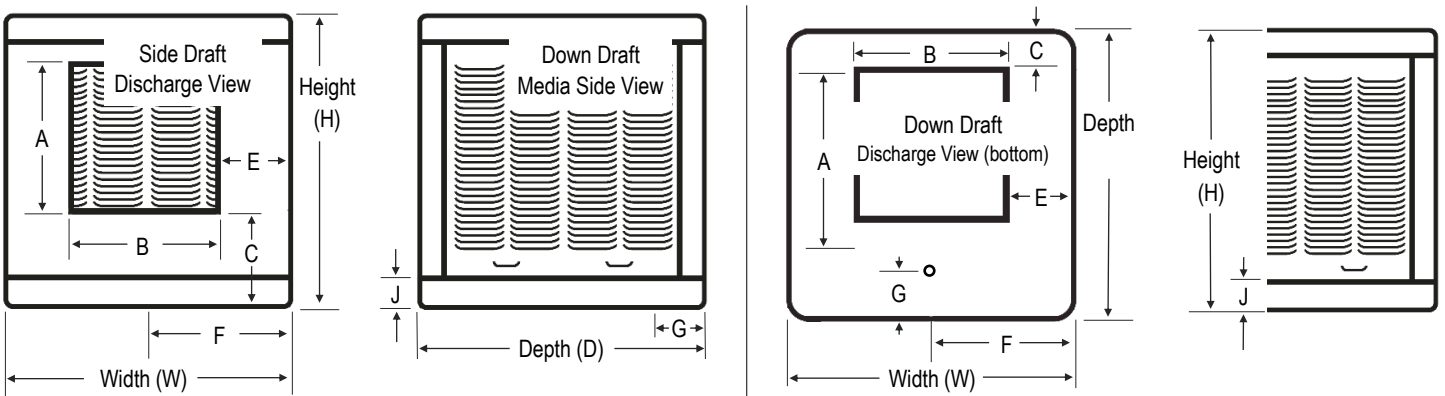
Side View



Specifications / Dimensions: Aspen Pad Rooftop Units

Model	Draft	Drive	Air Delivery VS Static Pressure							Motor Electrical Specifications					Pump	Belt
			Nominal CFM	Water Inch Column						HP	Speeds	Volts	Hz	Amps	GPH	Size
				0	0.1	0.2	0.3	0.4	0.5							
A38S	Side	Belt	3800	2300	2260	2210	2115	1965	1770	1/3	2	115	60	5.5	220	A-43 (4L-450)
A48S	Side	Belt	4800	3600	3530	3350	3120	2860	2565	1/2	2	115	60	7.5	220	A-57 (4L-590)
A68S	Side	Belt	6800	4900	4610	4350	4080	3920	2880	3/4	2	115	60	10.2	380	A-58 (4L-600)
A38D	Down	Belt	3800	2300	2260	2210	2115	1965	1770	1/3	2	115	60	5.5	220	A-42 (4L-440)
A48D	Down	Belt	4800	3600	3530	3350	3120	2860	2565	1/2	2	115	60	7.5	380	A-56 (4L-580)
A68D	Down	Belt	6800	4900	4610	4350	4080	3920	2880	3/4	2	115	60	10.2	380	A-59 (4L-610)

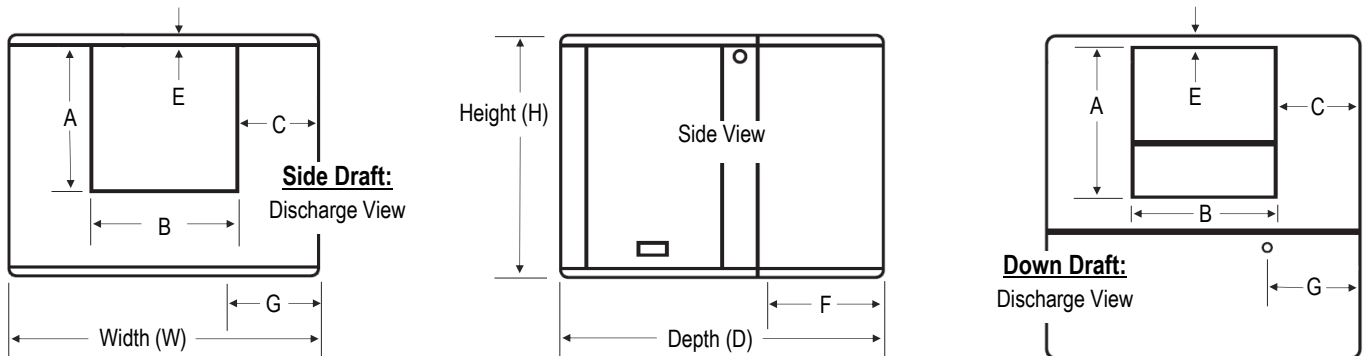
Model	Cabinet (In.)			Duct Location (In.)				Drain (In.)		Pan (In.)	Unit Weight (lbs)		Media Pad Dimensions (In.)			Blower Wheel (In.)		Blower Pulley (In.)	
	Height	Width	Depth	Opening		Position		Position		J	Ship	Operating	# Per Unit	Height	Width	Dia.	Width	Shaft Dia.	Outer Diameter
	H	W	D	A	B	C	E	F	G	J									
A38S	28 1/4	28	28	13 3/4	13 3/4	10	7 1/8	14	4 1/2	3 1/2	80	172	3	21 1/4	21 1/2	12	12	5/8	7
A48S	35 1/4	34	34	17 3/4	17 3/4	11 3/4	8 1/8	17	5 1/2	3 1/2	126	271	3	28 1/8	27 1/8	16	16	5/8	7
A68S	42 1/4	37	37	19 3/4	19 3/4	12 1/4	8 5/8	18 1/2	6	3 1/2	170	326	3	35 1/2	30 1/2	19	18	1	11
A38D	25 1/4	28	28	13 3/4	13 3/4	4	7 1/8	14	4 1/2	3 1/2	89	173	4	21 1/4	21 1/2	12	12	5/8	7
A48D	35 1/4	34	34	17 3/4	17 3/4	4 1/2	8 1/8	17	5 1/2	3 1/2	135	249	4	28 1/8	27 1/8	16	16	5/8	7
A68D	42 1/4	37	37	19 3/4	19 3/4	4 3/8	8 5/8	18 1/2	6	3 1/2	181	296	4	35 1/2	30 1/2	19	18	1	11



Specifications / Dimensions: Rigid Media Rooftop Units

Model	Draft	Drive	Air Delivery VS Static Pressure							Motor Electrical Specifications					Pump	Belt
			Nominal CFM	Water Inch Column						HP	Speeds	Volts	Hz	Amps	GPH	Size
				0	0.1	0.2	0.3	0.4	0.5							
RM3808S	Side	Belt	3800	2900	2700	2500	2300	2100	1900	1/2	2	115	60	8.7	220	A-40 (4L-420)
RM4808S	Side	Belt	4800	3600	3400	3200	3000	2800	2600	3/4	2	115	60	10.2	220	A-57 (4L-590)
RM6808S	Side	Belt	6800	4400	4200	4000	3800	3600	3400	1	2	115	60	12.7	380	A-59 (4L-610)
RM3808D	Down	Belt	3800	2900	2700	2500	2300	2100	1900	1/2	2	115	60	8.7	220	A-40 (4L-420)
RM4808D	Down	Belt	4800	3600	3400	3200	3000	2800	2600	3/4	2	115	60	10.2	220	A-52 (4L-540)
RM6808D	Down	Belt	6800	4400	4200	4000	3800	3600	3400	1	2	115	60	12.7	380	A-57 (4L-590)

Model	Cabinet (In.)			Duct Location (In.)				Drain (In.)		Unit Weight (lbs)		Media Pad Dimensions (In.)				Blower Wheel (In.)			Blower Pulley (In.)
	Height	Width	Depth	Opening		Position		Position				# Per Unit	Depth	Height	Width	Dia.	Width	Shaft Dia.	Outer Diameter
	H	W	D	A	B	C	E	F	G	Ship	Operating								
RM3808S	23 1/4	36	39	13 3/4	13 3/4	11 1/8	2	13 3/4	12	124	185	3	8	20	35	12	12	5/8	7
RM4808S	27 1/4	42	43	17 3/4	17 3/4	12 1/8	1 1/4	14	11	144	234	3	8	23	40	16	16	5/8	7
RM6808S	32 1/4	42	43	19 3/4	19 3/4	11 1/8	1 1/4	14	11	170	260	3	8	28	40	19	18	1	11
RM3808D	23 1/4	36	39	13 3/4	13 3/4	11 1/8	2	13 3/4	12	124	185	4	8	20	35	12	12	5/8	7
RM4808D	27 1/4	42	43	17 3/4	17 3/4	12 1/8	1 1/4	14	11	144	234	4	8	23	40	16	16	5/8	7
RM6808D	32 1/4	42	43	19 3/4	19 3/4	11 1/8	1 1/4	14	11	170	260	4	8	28	40	19	18	1	11



Installation: Window Units

⚠ CAUTION

Do not plug cooler in until cooler is adequately braced in place and installation is complete.

If mounting through the wall, measure “neck” dimensions of through the wall / window transition piece. Cut wall opening to accommodate transition piece dimensions.

Fit transition piece through wall and secure cooler in place using wall brackets under the cooler to support cooler weight. Braces need to adequately support operating weight of cooler. See page 2 for operating weight. A support chain or rod is recommended to hold top of cooler to outside wall. See Fig. 1 below.

Note: it may be necessary to loosen interior grill to fit transition through wall. Grill is removed by taking out screws. Use care to ensure front switches do not become unplugged when removing screws from front grill.

Once cooler is securely in place, attach indoor grill.

For window mount, fit cooler neck through window opening and close window down on top neck with grill on inside of wall. Brace and support as mentioned above.

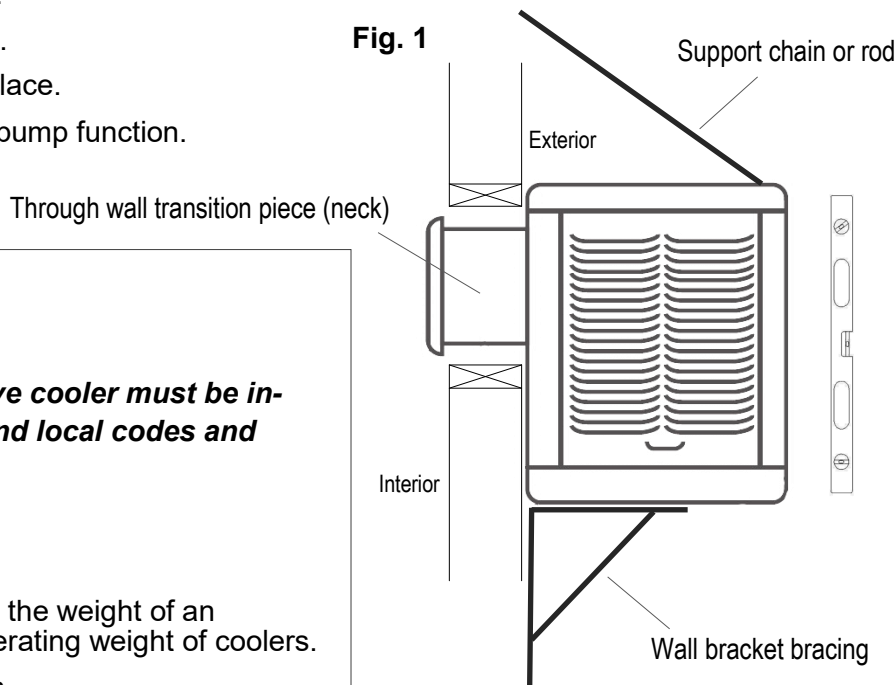
Ensure cooler is level when installed.

Connect water inlet line to float valve.

Ensure overflow tube is securely in place.

Plug cooler in and select speed and pump function.

Fig. 1



Installation: Rooftop Units

⚠ CAUTION

The evaporative cooler must be installed according to all national and local codes and by a qualified technician.

Notes:

Install in a well ventilated area.

Ensure mounting surface will sustain the weight of an operating cooler. See page 3 for operating weight of coolers.

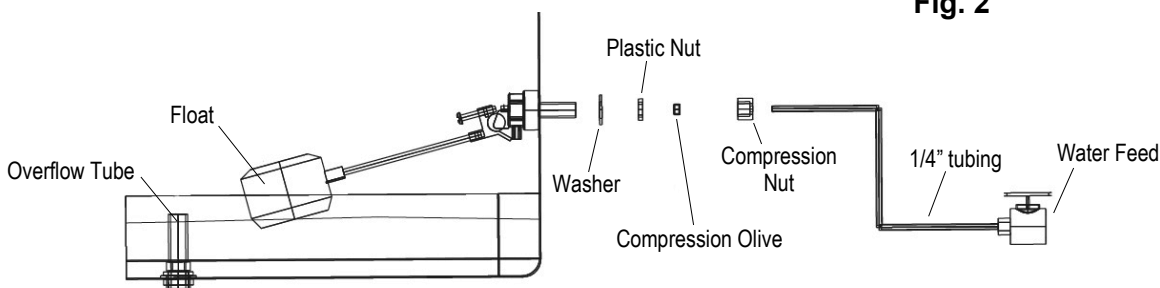
Ensure cooler is level in all directions.

See warnings on page 5 of this manual regarding electrical connections.

Float Valve Assembly

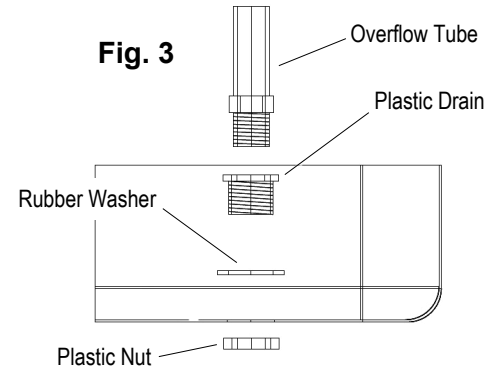
1. Remove parts from inside of unit.
2. Installation sequence example shown below. Fig. 2
3. Once securely connected, test for leaks.
4. Adjust water level requirements for your unit.

Fig. 2



Overflow Tube Assembly

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



Electrical Connection

⚠ WARNING The evaporative cooler must be installed according to all national and local electrical codes by a qualified technician. Power supply breaker must be off prior to making any electrical connections. Failure to do so can result in injury or damage to property.

Notes:

Electrical supply must be adequate for unit requirements. See page 3 for unit amp draws, voltage.

Connect unit to adequate power supply. Wiring diagrams shown on below. Fig. 4, 5.

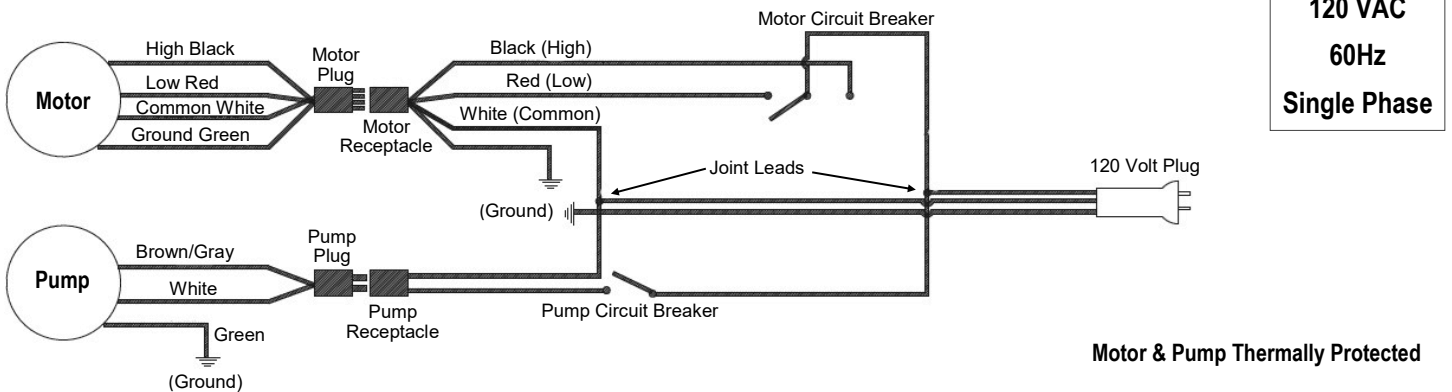
Inspect all power cords and wires to ensure there is no physical damage. Do not allow any wires to contact sharp edges.

Before initial start up, ensure cabinet is level, blower spins freely, and water supply is stable with no leaks.

Models: W2800, W3800, W4800

Fig. 4

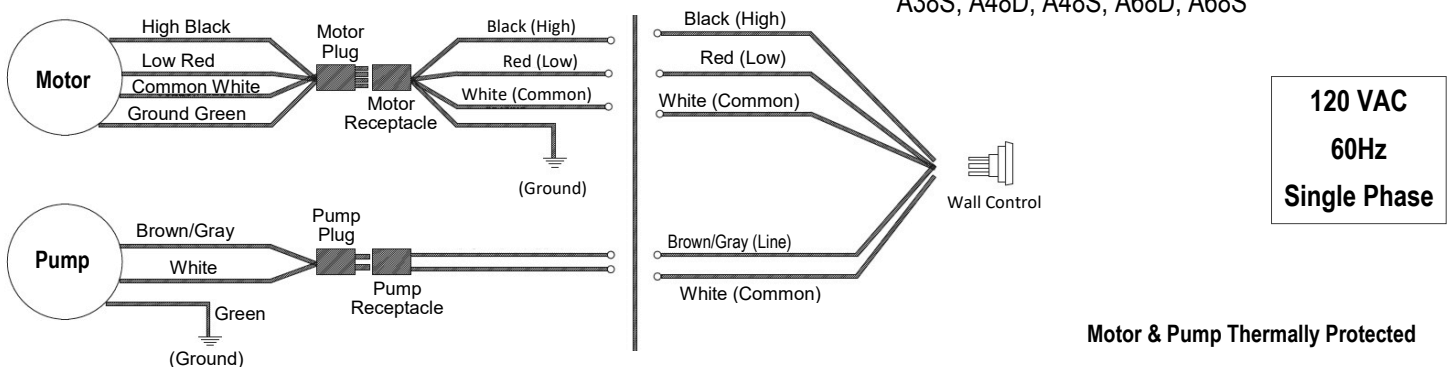
Wiring Diagrams: Window Coolers



Models: RM3808D, RM3808S, RM4808D, RM4808S, RM6808D, RM6808S, A38D, A38S, A48D, A48S, A68D, A68S

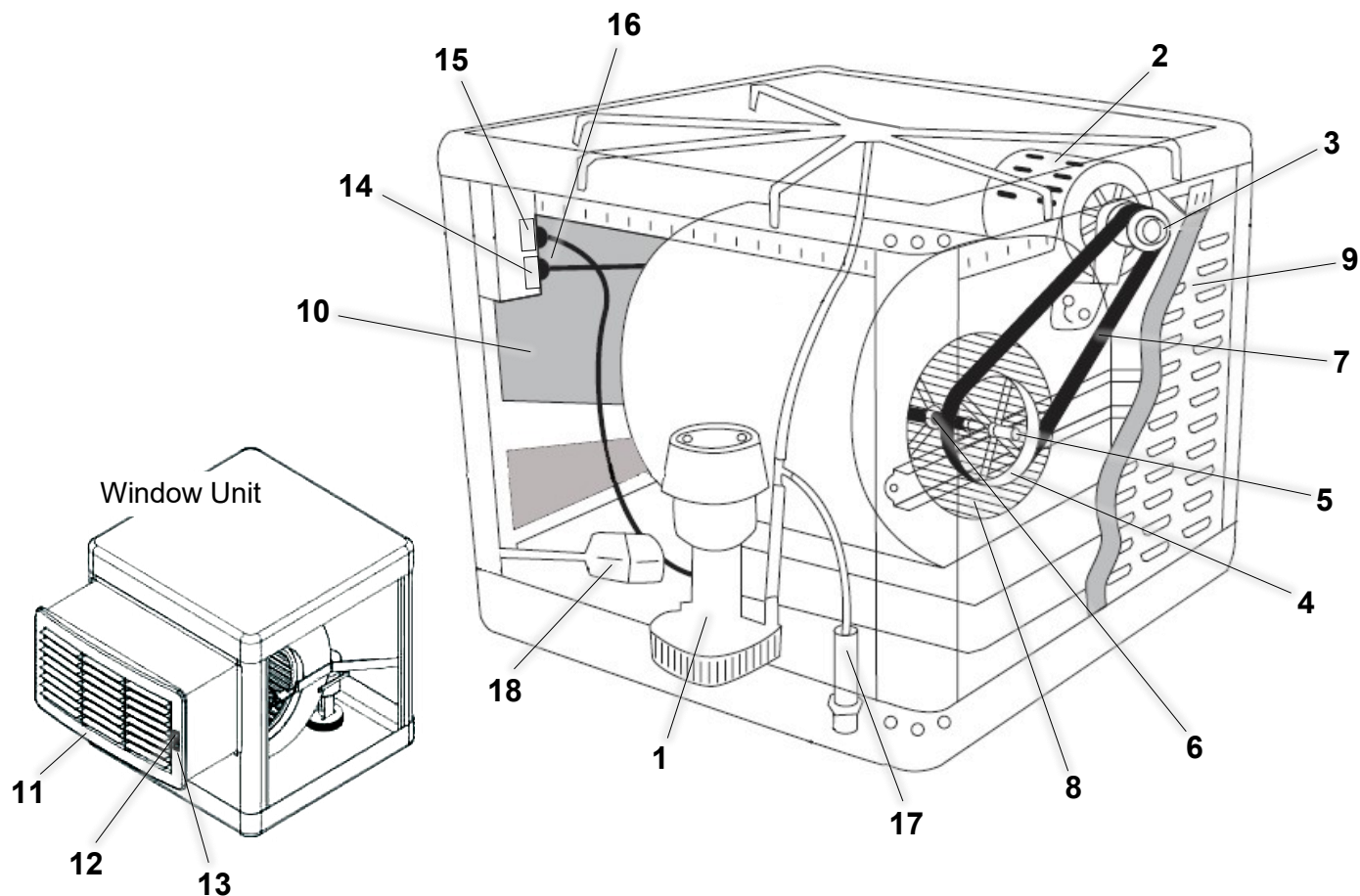
Fig. 5

Wiring Diagrams: Ducted Rooftop Coolers



Aspen Cooler Parts Breakdown

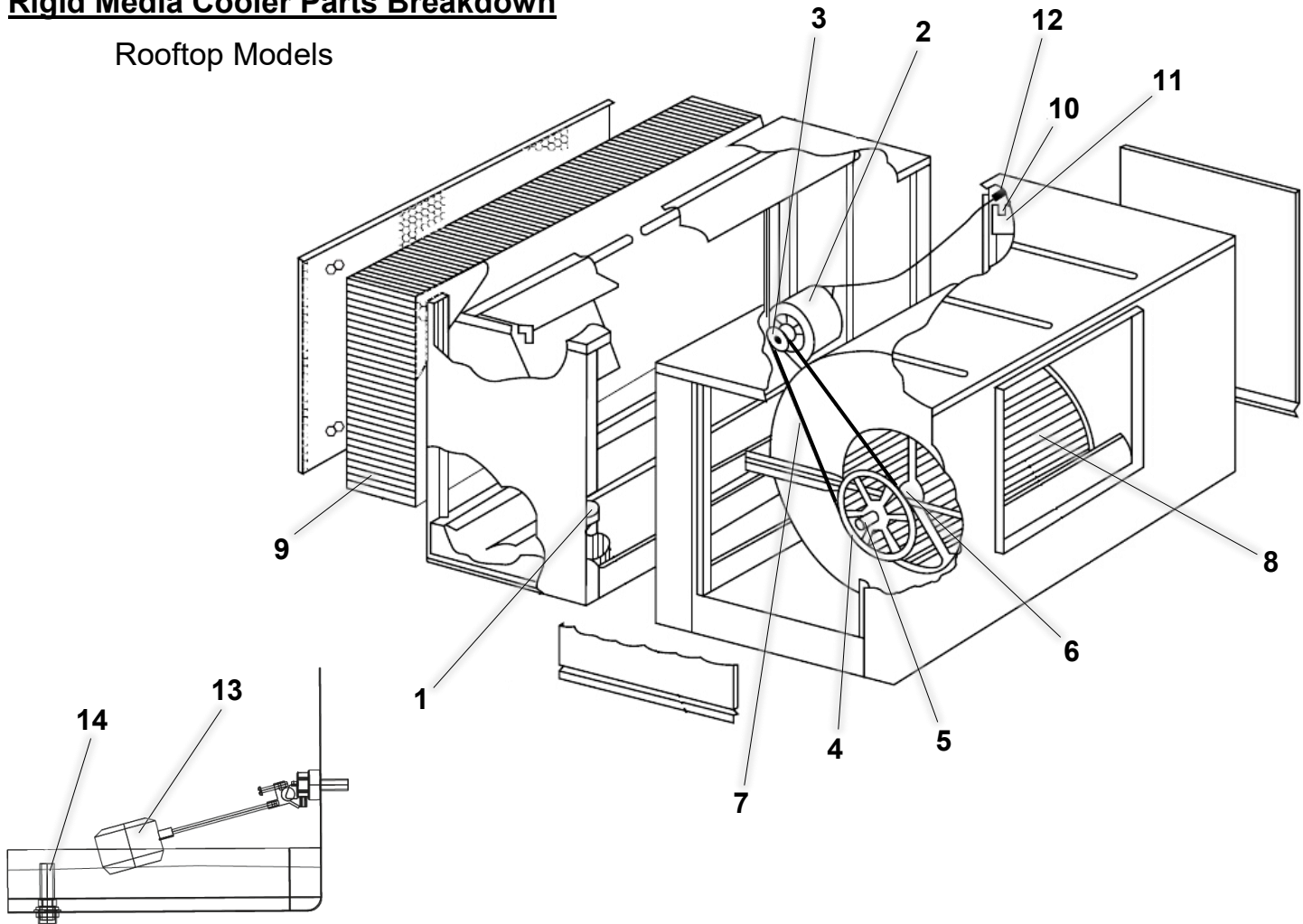
Rooftop & Window Models



Ref. No.	Part Description	W2800	W3800	A38S	A38D	W4800	A48S	A48D	A68D	A68S
		Window	Window	Side Draft	Down Draft	Window	Side Draft	Down Draft	Down Draft	Side Draft
		2800 CFM	3800 CFM			4800 CFM			6800 CFM	
1	Pump	EP5500	EP5500			EP7500			EP12000	
2	Motor: standard	B090-6	A250-4/6 (1/3HP 2-spd)			A370-4/6 (1/2HP 2-spd)			A550-4/6 (3/4HP 2-spd)	
3	Pulley (for motor)		1VL3412 (3.25" ADJ x 1/2" bore)			1VL3512 (3.5" ADJ x 1/2" bore)			1VL4012 (3.75" ADJ x 1/2" bore)	
4	Pulley (for blower)		AL7258 (7" DIA x 5/8" bore)			AL7258 (7" DIA x 5/8" bore)			AL11201 (11" DIA x 1" bore)	
5	Shaft		87161 (19" L x 5/8" Dia)			87161 (19" L x 5/8" Dia)			87163 (21" L x 1" Dia)	
6	Bearing		87401 (5/8")			87401 (5/8")			87171 (1")	
7	Belt		4L450 (A43)		4L440 (A42)	4L590 (A57)		4L580 (A56)	4L610 (A59)	4L600 (A58)
8	Blower Wheel	BW0912	BW1258 (12")			BW1658 (16")			BW1901 (19")	
9	Door Panel & Media	DPA28	DPA38			DPA48			DPA68	
10	Aspen Pad Only	ASP23X18	ASP22X22			ASP29X29			ASP32X36	
11	Grill	WGSM	WGLG	N/A		WGLG	N/A			
12	Motor Switch	WS-MTR	WS-MTR			WS-MTR				
13	Pump Switch	WS-PUMP	WS-PUMP			WS-PUMP				
14	Motor Receptacle	NA	81101							
15	Pump Receptacle	NA	81562							
16	Motor Cord	NA	81092							
17	Overflow Pipe	14216								
18	Float Valve	85023								

Rigid Media Cooler Parts Breakdown

Rooftop Models



Ref. No. Part Description		RM3808D	RM3808S	RM4808D	RM4808S	RM6808D	RM6808S
		Down Draft	Side Draft	Down Draft	Side Draft	Down Draft	Side Draft
		3800 CFM		4800 CFM		6800 CFM	
1	Pump	EP5500		EP7500		EP12000	
2	Motor: Standard	A370-4/6 (1/2HP 2-spd)		A550-4/6 (3/4HP 2-spd)		A750-4/6 (1HP 2-spd)	
3	Pulley (motor)	1VL3512 (3.5" ADJ x 1/2" bore)		1VL4012 (3.75" ADJ x 1/2" bore)		1VL4458 (4.15" ADJ x 5/8" bore)	
4	Pulley (blower wheel)	AL7258 (7" DIA x 5/8" bore)		AL7258 (7" DIA x 5/8" bore)		AL11201 (11" DIA x 1" bore)	
5	Shaft	87161 (19" L x 5/8" Dia)		87161 (19" L x 5/8" Dia)		87163 (21" L x 1" Dia)	
6	Bearing	87401 (5/8")		87401 (5/8")		87171 (1")	
7	Belt	4L420 (A40)		4L540 (A52)	4L590 (A57)	4L590 (A57)	4L610 (A59)
8	Blower Wheel	BW1258		BW1658		BW1901	
9	Media Pad	SCP050		SCP100		SCP200	
10	Motor Receptacle	81101					
11	Pump Receptacle	81562					
12	Motor Cord	81092					
13	Float Valve	85023					
14	Overflow Pipe (drain)	14216					

Warranty Information

Visit Hessaire.com for a current copy of the Hessaire warranty.

Maintenance



WARNING Disconnect power before performing any maintenance. Failure to do so could cause injury or damage to property.

Pump

Remove bracket. Remove bottom base plate to clean pump when clogged.

Clean a clogged pump filter with soft bristle brush.

Note: Never remove screen as contaminants may obstruct pump.

Re-install base plate.

Remove and store pump in a dry place during winter.

Changing Media

Slide sides up and pull bottom of panel out.

Note: Aspen media is held in place to the panel with retaining screens.

Remove existing media.

Note: Rigid media should be cleaned with a soft bristle brush and water.

Replace media pads and access panels.

Do not operate cooler without media pads in place.

Motor Maintenance

Motors feature permanently lubricated ball bearings. No further lubrication is needed.

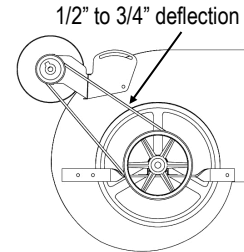
Belt Tension Adjustment

Loosen screws on motor bracket.

Reposition motor to apply correct tension on belt.

Proper tension is 1/2" - 3/4" deflection between pulleys.

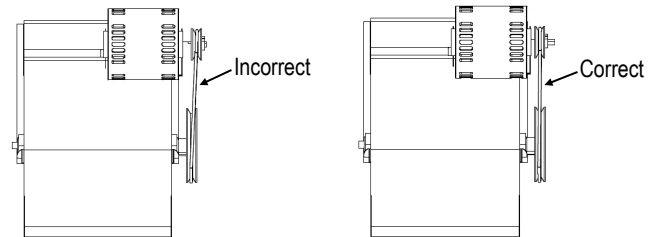
Tighten screws on motor bracket when properly tensioned.



Pulley Alignment

Ensure motor pulley and blower wheel pulley are aligned as shown below.

If adjustment is needed, loosen set screw on pulley and adjust until pulleys align. Check with a straight edge.



Troubleshooting

Issue	Possible Cause	Corrective Actions
Unit Does Not Start	Power supply is shut off.	Check electrical supply.
	Switch is disconnected.	Re-connect switch.
	Motor is overheated.	Consult an authorized technician.
	Wiring failure / short circuit.	Consult an electrician.
Insufficient Cooling	Media is not wetting.	Check water distribution and pump hoses for kinks or leaks. Remove kink or fix leak.
	Media is clogged / dirty.	Clean or change media.
	Water distributor is clogged.	Clean or change water distributor.
	Water pump is not working.	Clean pump filter. Replace pump.
	Motor is overheated.	Consult an authorized technician.
Motor Stops Working	Belt is too tight.	Adjust belt tension.
	Blower out of balance.	Consult an authorized technician.
Water Leaking	Float valve adjusted incorrectly.	Adjust float valve position.
	Drain not tightened.	Tighten drain.
Noisy During Operation	Bearings insufficiently lubricated.	Lubricate bearings.
	Blower wheel out of balance.	Consult an authorized technician.
	Loose pulleys.	Adjust and tighten pulleys.
Odors	Stagnant water in tank.	Drain and clean tank.
	Clogged / dirty media.	Clean or change filters.
Water leaking from grill.	Media over wetting.	Reduce water amounts to media.