



## Hessaire Rooftop Evaporative Coolers

### **Assembly Instructions**

**DX4800, DX6800**

#### **Box 1 of 2**

##### **Contents: Main Box**

(Box Dims DX4800: 32.5"x32.5"x12")

(Box Dims DX6800: 37"x35.5"x13")

Components Main Box	Qty	Components Main Box	Qty
Hardware Packets	6	Top Cover Diag. Braces	2
Assembly Manual	1	Side Discharge Venturi	1
Owners Manual	1	Float Valve Assembly	1
Top Cover Lid	1	Pump Hose	1
Motor	1	Corner Columns	2
Motor Bracket Arms	4	Water Tank	1
Pump	1	Top Cover	1
Propeller	1	Overflow Tube & Nut	1
Propeller Ring	1	Drain Plug	1
Junction Box	1	Water Diverter (attached)	3
Panel Cover	1	Water Distributor	1
Diagonal Braces DX4800	2	Water Distribution Tubes	3
Diagonal Braces DX6800	4		

#### **Box 2 of 2**

##### **Contents: Media Panel Box**

(Box Dims DX4800: 26.5"x20.5"x11")

(Box Dims DX6800: 30.5"x26"x12")

Components Media Box	Qty
Media Side Panels	3

**HESSAIRE**  
EVAPORATIVE COOLING

## Tools Recommended



Cordless Drill With #2 Phillips Bit or #2 Phillips Screwdriver



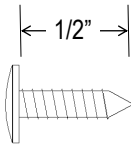
Utility Knife



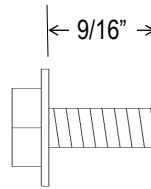
Ratchet / Metric Sockets

## Hardware Identification

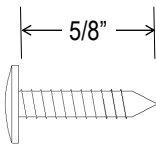
ST3.9X13



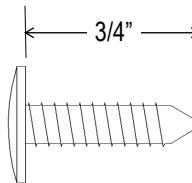
M6X14



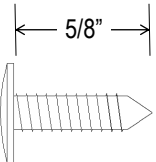
ST3.9X16



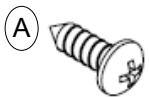
ST6.3X19



ST4.8X16



## Hardware Bag List / Where Used: DX4800



Steps: 1, 3

ST4.8X16 (Screw)  
Qty: 20

Attach Corner Columns(2) To Top & Tank: 4 screws ea.  
Attach Side Venturi Panel To Top Cap: 6 screws  
Attach Side Venturi Panel To Water Tank: 6 screws



ST3.9X13 (Screw)  
Qty: 12

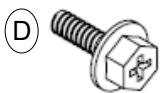
**\*Not Used In DX4800**



Steps: 1, 2, 3, 6, 8

ST3.9X16 (Screw—Black)  
Qty: 27

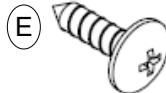
Install Water Pump: 2 screws  
Install Water Distributor: 2 screws  
Install Junction Box: 2 screws  
Attach Top To Front Panel: 3 screws  
Attach Pad Panels(3) To Top & Bottom: 6 screws ea.



Step: 4

M6X14 (Screw)  
Qty: 8

Attach Motor Brackets(4) To Motor: 2 screws ea.



Steps: 5A, 5B, 7

ST6.3X19 (Screw)  
Qty: 14

Attach Diagonal Top Cover Braces(2): 2 screws ea.  
Attach Motor Brackets / Ring To Venturi: 8 screws



Steps: 6, 7

Cable Ties  
Qty: 8

Tie Pump Cord To Brace  
Tie Pump Hose To Brace  
Tie Motor Wires To Bracket

## Hardware Bag List / Where Used: DX6800



Steps: 1, 3

ST4.8X16 (Screw)

Qty: 20

Attach Corner Columns(2) To Top & Tank: 4 screws ea.

Attach Side Venturi Panel To Top Cap: 6 screws

Attach Side Venturi Panel To Water Tank: 6 screws



Step: 5B

ST3.9X13 (Screw)

Qty: 12

Attach Cover Panel(1) : 12 screws



Steps: 1, 2, 3, 6, 8

ST3.9X16 (Screw—Black)

Qty: 27

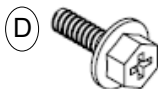
Install Water Pump: 2 screws

Install Water Distributor: 2 screws

Install Junction Box: 2 screws

Attach Top To Front Panel: 3 screws

Attach Pad Panels(3) To Top & Bottom: 6 screws ea.

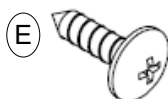


Step: 4

M6X14 (Screw)

Qty: 8

Attach Motor Brackets(4) To Motor: 2 screws ea.



Steps: 5A, 5B, 7

ST6.3X19 (Screw)

Qty: 14

Attach Diagonal Side Braces(2): 2 screws ea.

Attach Diagonal Top Cover Braces(2): 1 screw ea.

Attach Motor Brackets / Ring To Venturi: 8 screws



Steps: 6, 7

Cable Ties

Qty: 8

Tie Pump Cord To Brace

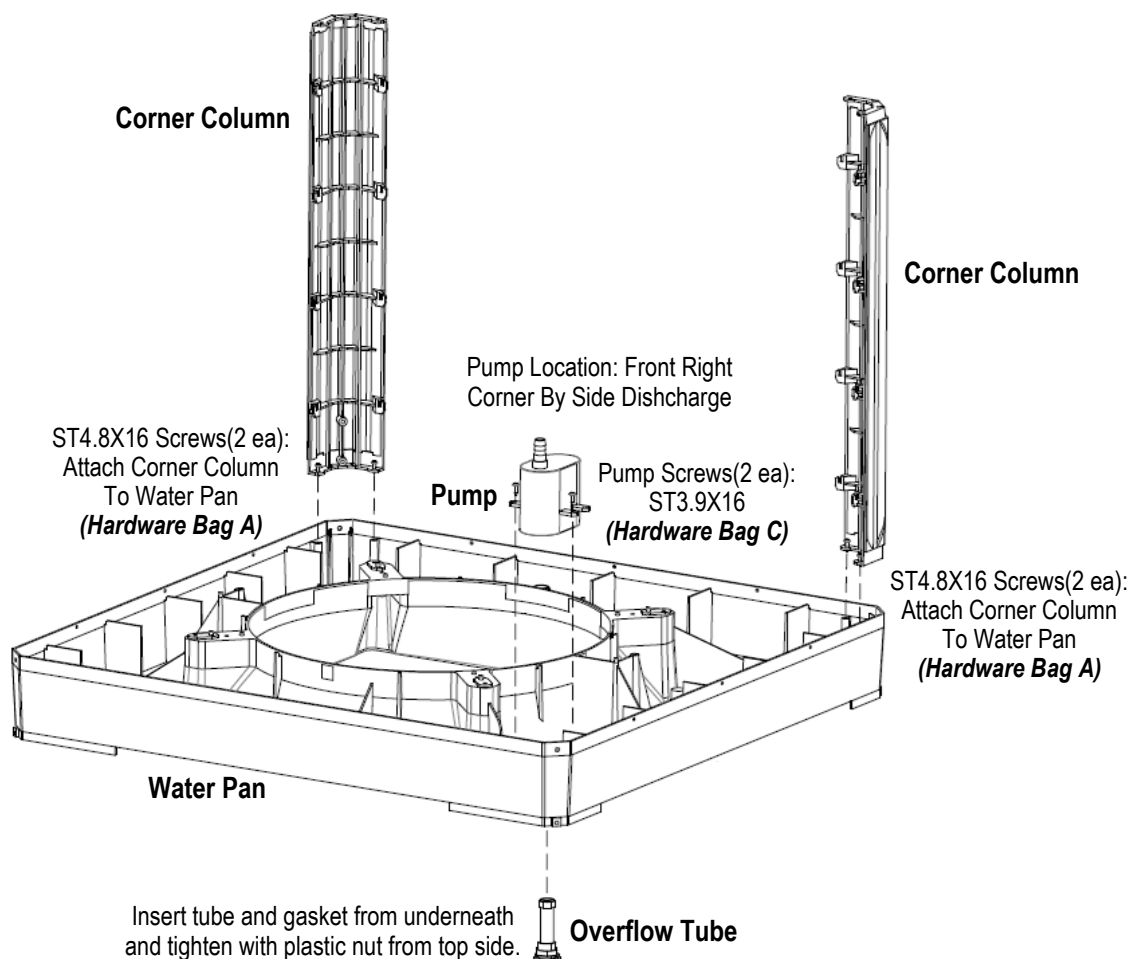
Tie Pump Hose To Brace

Tie Motor Wires To Bracket

### STEP #1

## Attach Components To Bottom Water Pan

(pump, overflow tube, drain plug, corner columns)



## STEP #2

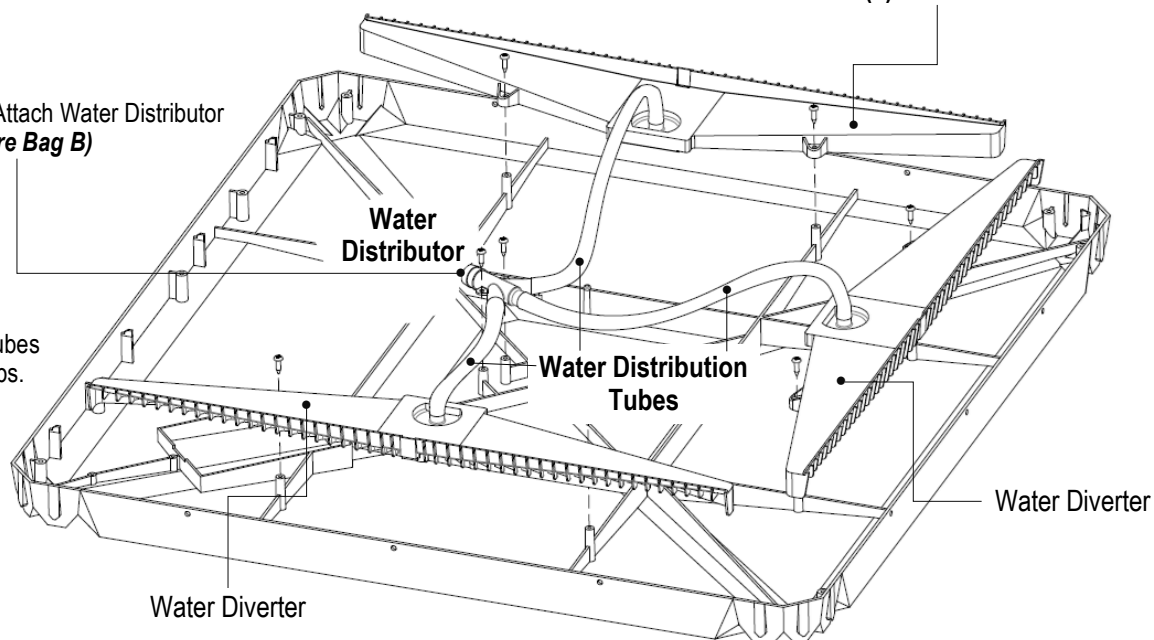
### Attach Components To Underside Of Top

(water distributor / tubes assembly)

Water Diverters(3): Pre-installed At Factory

ST3.9X13 Screws(2): Attach Water Distributor  
(Hardware Bag B)

Push water distribution tubes  
securely onto hose barbs.



## STEP #3

### Assemble Framework

(side discharge venturi, top lid, corner columns, tank assembly)

ST4.8X16 Screws(6 ea):  
Attach Side Venturi To  
Cover Lid

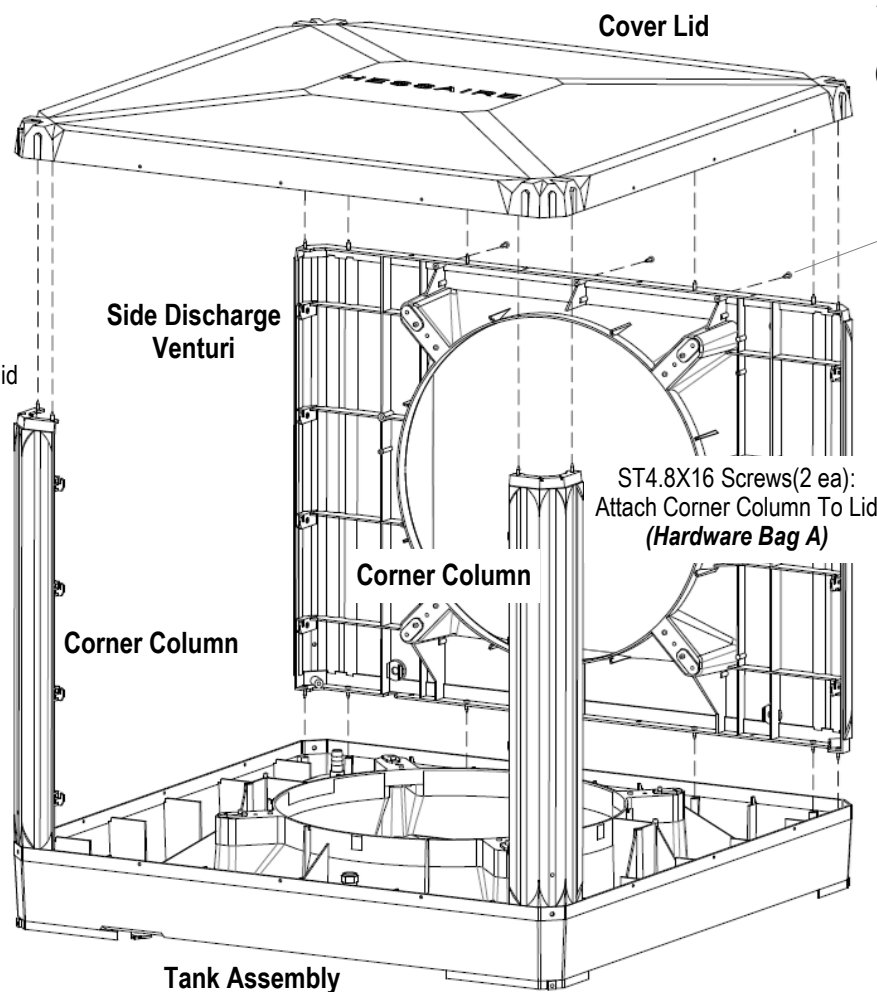
(DAX4800 may require  
less screws)  
(Hardware Bag A)

ST3.9X16 Screws(3 ea):  
Attach Top Lid Face  
To Side Venturi  
(Hardware Bag C)

ST4.8X16 Screws(2 ea):  
Attach Corner Column To Lid  
(Hardware Bag A)

ST4.8X16 Screws(2 ea):  
Attach Corner Column To Lid  
(Hardware Bag A)

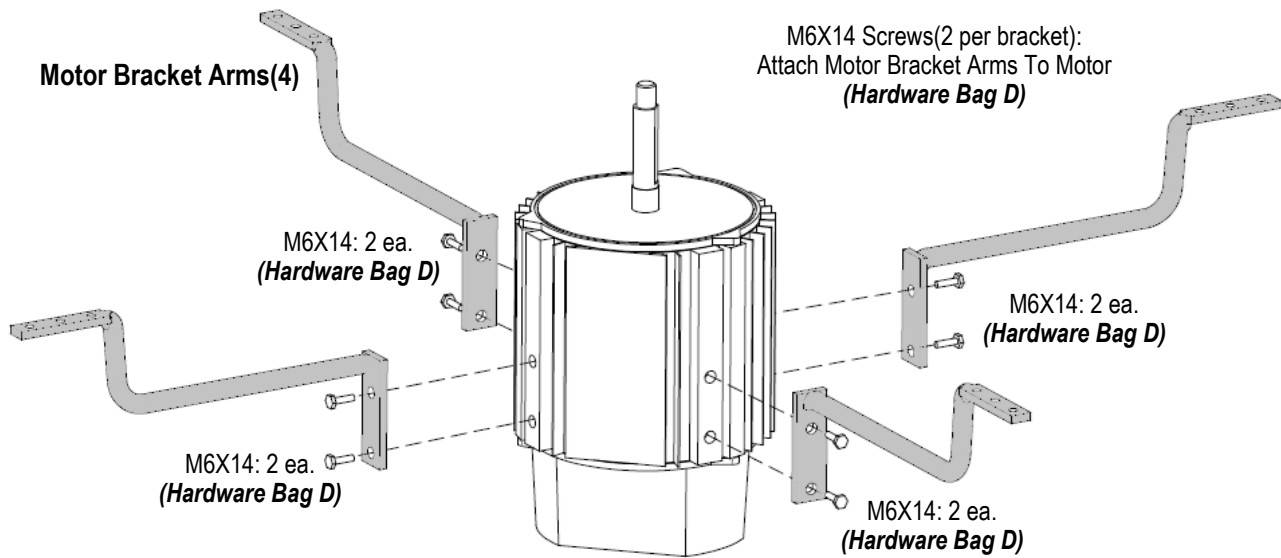
ST4.8X16 Screws(6 ea):  
Attach Side Venturi To  
Tank Assembly  
(DAX4800 may require  
less screws)  
(Hardware Bag A)



## STEP #4

### Attach Motor Arm Brackets To Motor

(motor, motor arm brackets)



## STEP #5A

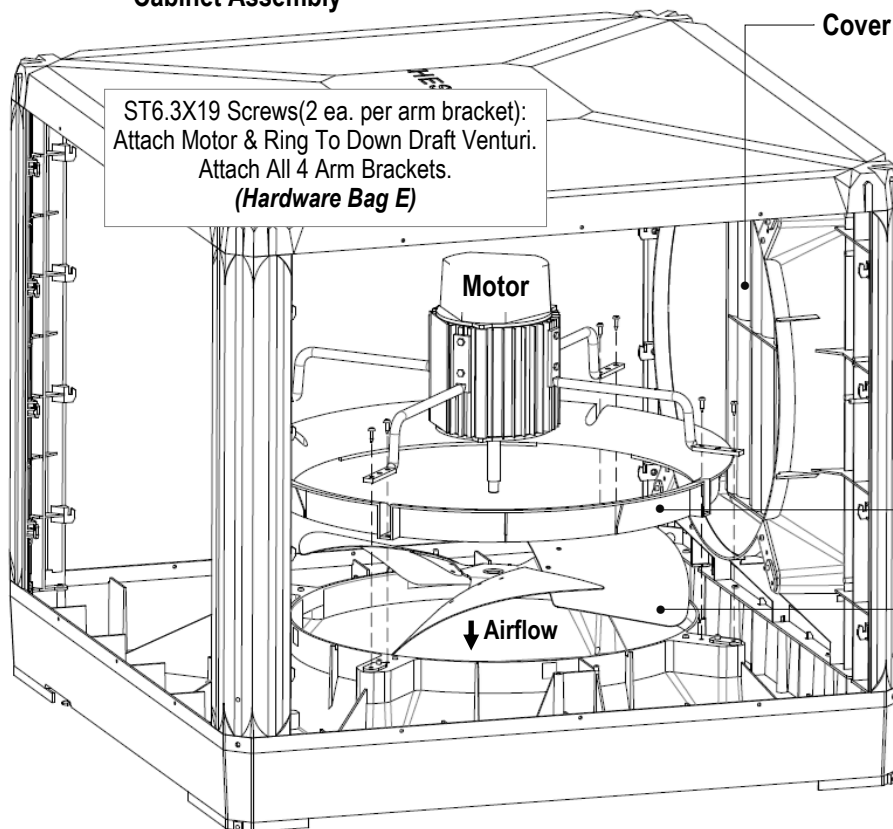
### Assemble Down Draft Position

(cabinet assembly, motor / motor bracket arms assembly, propeller, cover panel)

#### Cabinet Assembly

Cover Panel: Attaches From Outside Of Unit

ST6.3X19 Screws(2 ea. per arm bracket):  
Attach Motor & Ring To Down Draft Venturi.  
Attach All 4 Arm Brackets.  
(Hardware Bag E)



#### Assembly Notes:

Set ring down on bottom venturi—lining up holes in all 4 corners.

Place motor / motor arms assembly on top of ring and bolt both motor assembly and ring in place using the same bolts.

Tip entire unit on side and install propeller.

Tighten prop securely and set unit down so prop is facing downward over roof opening.

**Model DX4800:** Attach cover panel to open venturi side using 4 screws (ST6.3X19) to attach cover panel.

**Model DX6800:** Attach cover panel to open venturi side using 12 screws (ST3.9X13) to attach cover panel.

## STEP #5B

### Assemble Side Draft Position

(cabinet assembly, motor / motor bracket arms assembly, propeller, cover panel)

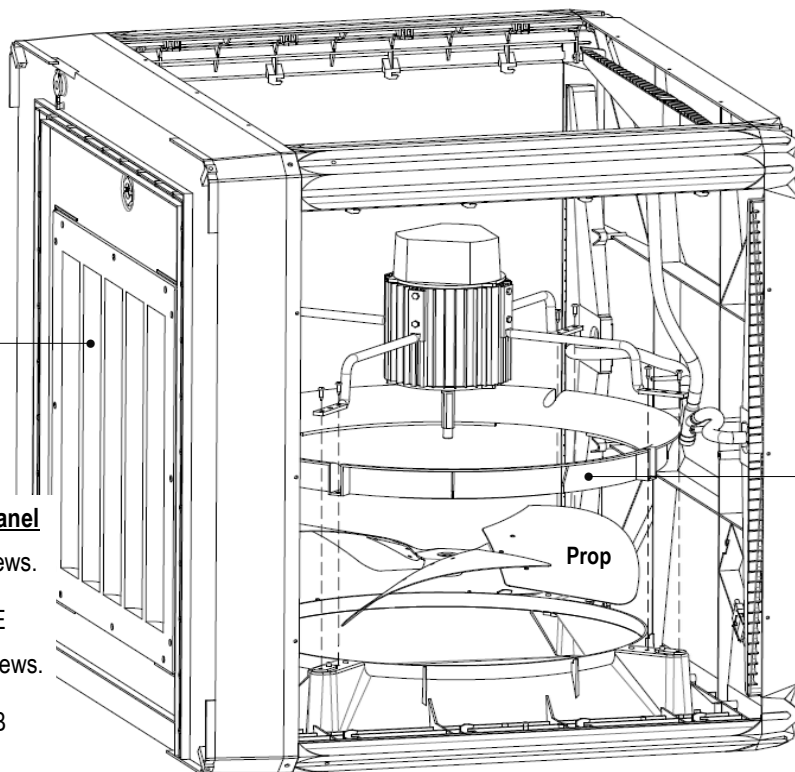
Tip back over to install prop once bottom cover panel is securely in place.

Cover Panel

#### Attaching Cover Panel

**DX4800:** Use 4 screws.  
(ST6.3X19)  
Hardware Bag: E

**DX6800:** Use 12 screws.  
(ST3.9X13)  
Hardware Bag: B



#### Assembly Notes:

Tip unit on side with side discharge venturi panel facing down to make installation of motor assembly easier.

Set ring down on venturi—lining up holes in all 4 corners.

Place motor / motor arms assembly on top of ring and bolt both motor assembly and ring in place using the same screws as down draft position assembly shown above.

Attach cover panel to bottom side.

**Model DX4800:** Attach cover panel to open venturi side using 4 screws (ST6.3X19) to attach cover panel.

**Model DX6800:** Attach cover panel to open venturi side using 12 screws (ST3.9X13) to attach cover panel.

Tip entire unit back over so bottom cover panel is down and unit is now in side discharge position.

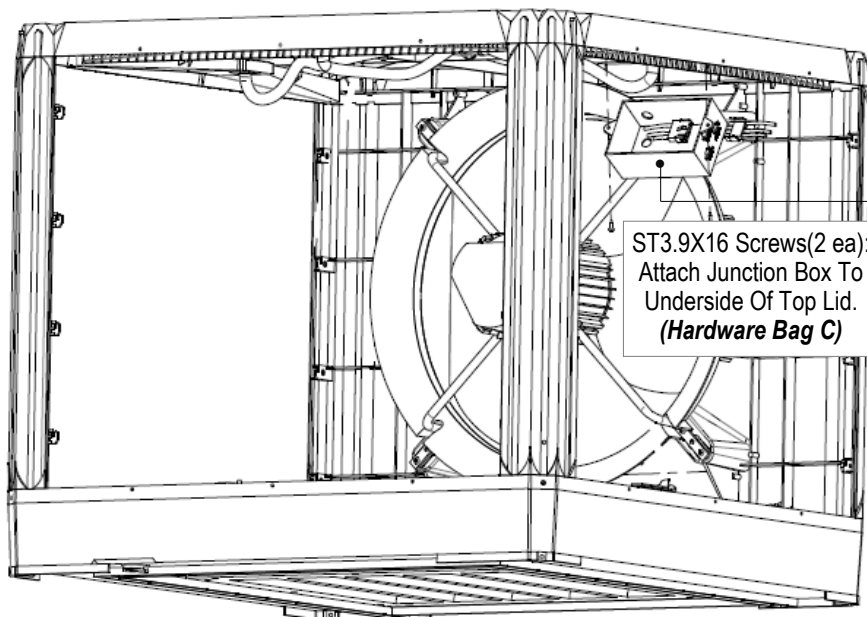
Install propeller. Tighten securely.

**Ring** (Held In Place Between Motor Arms & Side Venturi Frame)

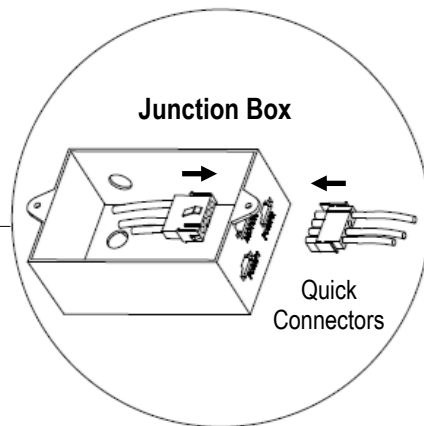
## STEP #6

### Attach Wiring Box / Connect Motor & Pump

(wiring box, assembled cabinet, cable ties)



ST3.9X16 Screws(2 ea):  
Attach Junction Box To  
Underside Of Top Lid.  
(Hardware Bag C)



#### Assembly Notes:

While box is still disconnected, route wires from both "quick connectors" through openings in box leaving bare wire ends available for wiring to thermostat.

Connect pump and motor "quick connector" ends to the matching "quick connector" ends through the junction box wall.

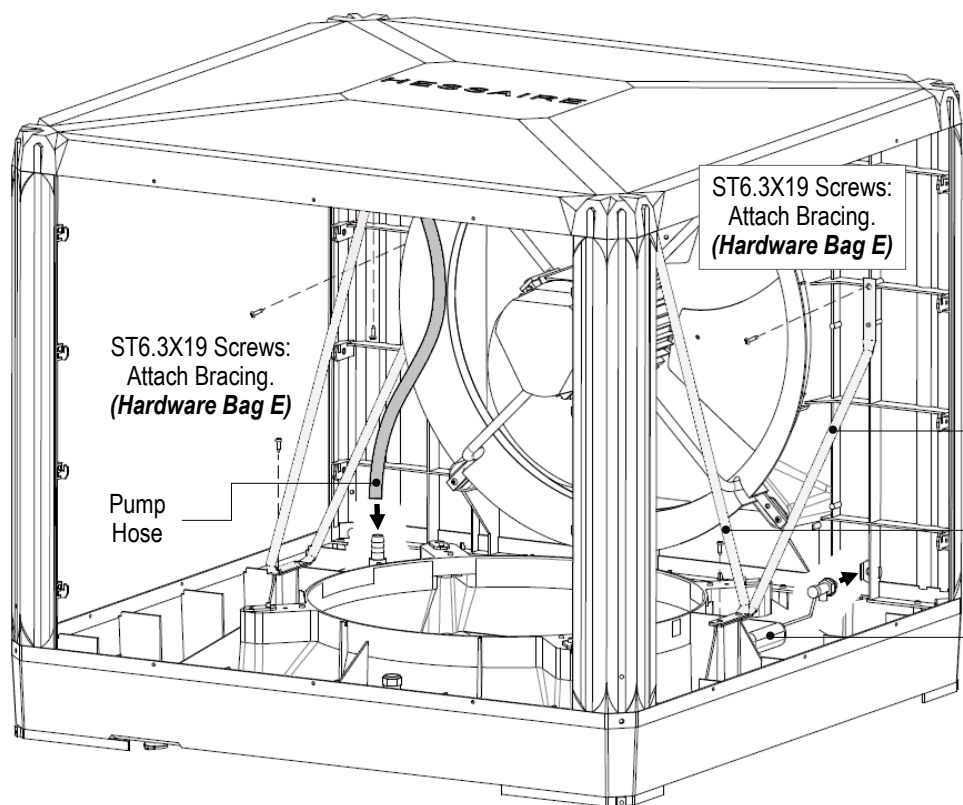
Attach box to underside of top lid using the correct screws.

Use cable ties to secure pump and motor wires out of path of propeller.

## STEP #7

### Attach Bracing, Pump Hose, Float Valve

(4 braces, pump hose, float valve, cable ties)



#### Assembly Notes:

1. Attach pump hose to water diverter and pump hose barb. Ensure pump hose is secure and out of the propeller path.
2. Attach 4 braces. 2 braces run from side wall to tank and 2 braces run from tank to underside of top cover. Top braces will overlap bottom of sidewall braces and hold to tank with same screw. 6 screws total. **Note: sidewall braces will not be used in DX4800.**
3. Insert float valve through lower right section of sidewall venturi. Fasten in place with standard 1/4" fitting. Fitting not included.

Sidewall Brace (2 ea)

**\*Not Used In DX4800**

Top Cover Brace (2 ea)

Float Valve

## STEP #8

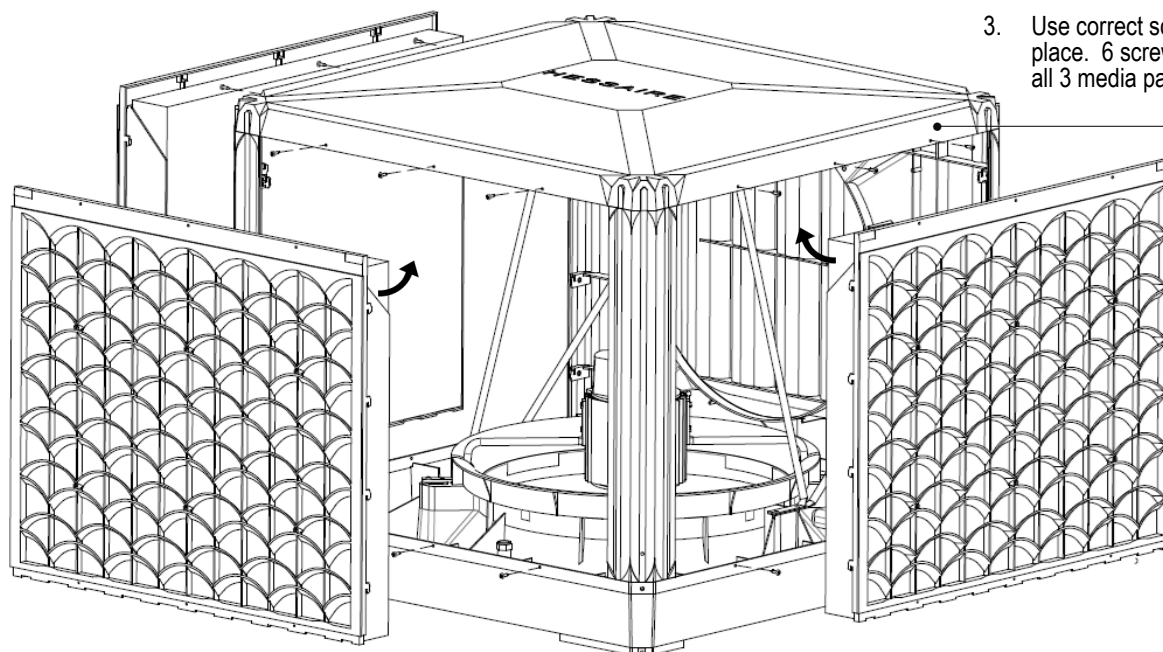
### Install Media Side Panels

(3 media pads / panels, complete cabinet assembly)

ST3.9X16 Screws(6 per panel—18 total):  
3 Screws Per Panel Top & 3 Screws Per Panel Bottom  
(Hardware Bag C)

#### Assembly Notes:

1. Lift pad panel up and under lip on top cover.
2. Push bottom of pad panel in completely and pull panel down so hooks hold panel securely to corners.
3. Use correct screws to hold panels in place. 6 screws per panel. Repeat for all 3 media pad panels



Top Cover Lip

## Final Assembly Inspection Steps

### INSPECT FOR:

All screws and motor bolts are securely tightened.

All cords and hoses are secured out of the path of the propeller.

All connectors are firmly snapped together.

Pump is securely seated and fastened to tank.

Drain plug is in place.

Media pad panels are properly installed.

Visit [Hessaire.com](http://Hessaire.com) for additional product information and assembly videos.

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