

MOTOR REPLACEMENT

PARMTRH3700A



WARNING!

Disconnect evaporative cooler from electrical source before beginning work on this product. Electrical shock resulting in injury or death can occur when working in a wet environment. Perform all maintenance with evaporative cooler unplugged.

Before beginning

Position evaporative cooler with plenty of working room on all sides. Disconnect evaporative cooler from electrical and water supplies. All four of the evaporative cooler's casters must be in the locked position before beginning to work on this product.

To replace the motor in your Portacool Hurricane™ 370 evaporative cooler, you will need a secure, stand alone step ladder or tall platform. The evaporative cooler is almost eight feet tall and you will need access to the top of the evaporative cooler.

NEVER CLIMB ON THE EVAPORATIVE COOLER OR LEAN A LADDER AGAINST THE EVAPORATIVE COOLER. A SECURE, STAND ALONE STEP LADDER OR PLATFORM MUST BE USED.

Remove the KUUL® evaporative media

Step 1

Lock all four of the casters to keep the evaporative cooler from moving while you are working. Remove the evaporative media flap attached to the top of the evaporative cooler with screws. You may need a ladder to reach the screws. Remove the screws and set the evaporative media flap aside.



STEP 1

Step 2

All KUUL evaporative media must be removed before accessing the inside of the evaporative cooler housing. Remove the center piece of the evaporative media first by grasping at the top and tilting it out and away from the evaporative cooler. While tilting the evaporative media out, lift the piece up and out.



STEP 2

Step 3

Remove remaining evaporative media in the same manner. Set aside in a safe place to prevent damage while out of the evaporative cooler. Once all the evaporative media has been removed, you should have access to the inside of the evaporative cooler housing and internal components.

PORTACOOOL™

WHEN COMFORT COUNTS™

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Motor replacement

(KUUL® evaporative media must be removed prior to motor replacement; see reverse for instructions)

Step 1

Once the evaporative media has been removed and set aside, locate the Variable Frequency Drive (VFD) at the top of the evaporative cooler. Remove the four screws to remove the top plate. Set the VFD cover aside and locate the controller mounting bracket. Remove four screws and remove the VFD bracket. Turn the VFD over and remove the four Allen head screws with an Allen wrench. Unplug the metal connector from the VFD and feed it back through the opening and into the evaporative cooler housing.

Step 2

Gently pull open the P clamps that are attached to Christmas Tree fasteners holding the wire to the inside of the evaporative cooler housing. Cut the zip ties holding the wires to the fan brace. **DO NOT CUT ELECTRICAL WIRES.**

Step 3

Loosen the two nuts on the upright motor brace to loosen the belt from the motor pulley. Remove the belt from the motor pulley. Loosen the four bolts holding the motor to the bracket. Slide the motor up and out of the bracket (the bolts will come with the motor). Slide the bolts, along with the rectangular piece of plastic out of the motor ridges, being careful to keep the bolts and plastic. Discard the old motor.

Step 4

Slide the bolts and plastic pieces into the new motor ridges. The pieces should line up with the logo located on the back of the new motor. Line the pulley up with the fan blade hub, then slide the motor up and into the bracket inside the evaporative cooler housing. Tighten the four bolts to secure the motor. Place the belt on the motor pulley and tighten the two bolts on the upright fan brace to tighten the belt.

Step 5

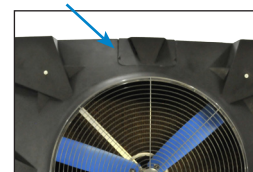
Place the fan motor cord in the P clamps that attach to the evaporative cooler housing and push the end back onto the Christmas Tree fastener until secure. Zip tie the fan motor cord to the fan brace and clip the ends.

Step 6

Feed the fan motor cord back through the opening at the top of the evaporative cooler and plug the metal connector into the VFD. Secure the connector to the VFD with four Allen head screws with an Allen head wrench. Turn the VFD over. Set the controller mounting bracket on top of the VFD and secure with four screws. Replace the top plate and secure with four screws.

Step 7

Replace the evaporative media, beginning on the outer edges and working towards the center. Pay close attention to the stickers on the evaporative media - the arrow sticker should point up and inward. Replace the evaporative media lap, securing it with screws.



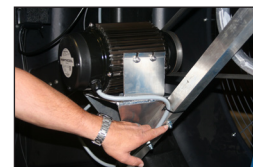
STEP 1



STEP 1



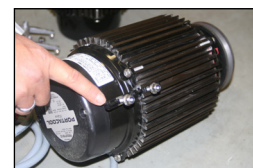
STEP 1



STEP 3



STEP 3



STEP 4

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Check out the collection of HVAC and refrigeration we offer.