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This manual is written specifically for Dyson trained engineers and covers the full PH01 and PH02 range. The service instructions assume that the engineer has the approved tools and test equipment with them.

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Product overview Features and benefits

Circulates

Air Multiplier technology projects 350 litres of air per second, cooling you when required.

Purifies

Carbon HEPA filters capture gases and 99.95% of PM0.1.



Humidifies

UV cleanse technology kills 99.9% of bacteria in the water.





Diffused air valve mechanism Redirects air through the rear aperture, for purification without cooling.

Clear water tank Gives you a clear view of water levels in the machine.

Up to 36 hours of hygienic humidification

An efficient water management systems and a 5 litre water tank gives you continuous humidification, without daily refilling.

Product overview Features and benefits

Sensor detects and display pollutants and humidity levels A unique algorithm processes input from each sensor and activates the machine, to capture pollutants, humidity, and project cleaner air.

Captures gases and ultra fine particles

The sealed filtration system combines an activates carbon filter to remove gases and a sealed HEPA filter to capture 99.95% of ultra fine particles. PH01 machine comes with Combination filters. PH02 comes with permanent Cryptomic filters and Combination filters.

Anti-bacterial evaporator

Silver strands are woven into 3D air mesh of 6mm intervals. They help prevent bacteria from growing on the evaporator.

Destroys potentially harmful bacteria

Dyson Ultraviolet Cleanse technology exposes every drop of water to an ultraviolet light. This kills 99.9% of bacteria.

Reflective PTEE tube

Made from a highly reflective material. It mirrors UV light up and down the tube, to kill bacteria.

Display error symbols

Product overview

The UI screen shows different error icons according to the machine's status. Many of these are temporary or can be corrected by carring out a hard reset and/or a software update. To hard reset, switch off the machine and unplug the mains supply for 20 secs, then plug the machine back in and switch it back on.



1. Temp Sensor fault



2. Humidity Sensor fault



3. Air Quality (AQ) Sensor fault



4. Wrong Power Supply Unit (PSU) inserted/PSU fault



5. Fault. Carry out a Hard reset. If this doesn't fix the issue check 'Fault codes' (pages 5 - 6)

6. Broken pump column. Replace the Pump column assembly



7. Drip tray overflow. Carry out a deep clean cycle (pages 6 -7). If this doesn't fix the issue check 'Fault codes' (pages 5 - 6)



8. Too cold. Displayed when ambient temperature drops below 5°c and there is water in the tank



9. Pump rotor failure. Replace the Pump column assembly



10. Clean cycle not complete. Repeat the clean cycle (pages 6 -7) and allow to run until completion



11. Water tank empty. If not empty, replace the Pump column assembly

Technical infomation Accessing the diagnostic menu

Diagnostic menu

As well as the UI error symbols, built into PH01 and PH02's software is an engineers diagnostic menu designed to enable the repair agent a quickly diagnosis of the machines failure. The menu is accessed by pressing a sequence of buttons via a standard remote control.



machine on.

(4)



Press night mode button once.



Hold down flow

mode direction button for 11 to 13 seconds.

(3)

(6)



Immediately press the oscillation button once.

Engineering screen will appear.



Press i button six times to show fault code screen (the screen above is an example).

Once you have finished accssing the engineering menu, press any button on the remote except the 'i' button to exit the diagnostic menu.

If the engineering screen does not appear press any button to reset and start again. Repeat all steps ensuring the flow button is pressed between 11 and 13 seconds detailed in step 3.

Technical infomation **Diagnostic table**

Faults codes will be displayed as per the following format: 00X-0X-0X-X. In most cases it is only necessary to recognise the first three digits to determine the fault.

Fault code	Affected Part/s
Any codes starting with 002 except 002-02-01-2	Motor and Bucket assembly
002-02-01-2	AMP assembly
Any codes starting with 003	Main PCB assembly
Any codes starting with 004	LCD display service assembly or Main PCB assembly
Any codes starting with 005	Main PCB assembly
Any codes starting with 006	Main PCB assembly
Any codes starting with 007	Power supply unit, DC inlet assembly or Main PCB assembly
Any codes starting with 008	Dust sensor service assembly or Sensor input service assembly or Sensor PCB service assembly
Any codes starting with 009 except 009-01-01-1 and 009-01-02-1	Wifi PCB*, Wifi harness assembly, Heater PCB, Heater har- ness or Humidifier PCB
009-01-01-1 009-01-02-1	Motor and Bucket assembly
Any codes starting with 010	Main PCB assembly
Any codes starting with 011	Humidifier PCB, AMP assembly, Evaporator tray sensor, Water tank harness or Pump column

*The Wifi PCB is a non-replaceable part.

Technical information

Deep cleaning the machine

PH01 and PH02 have a 'self cleaning' cycle built in. This is to reduce limescale build up. In normal use the machine will show an alert when it needs to carry out a Deep clean cycle. If connected to the Dyson Link app, you will receive a notification message. If not using the Dyson Link App, the LCD screen on the machine will alert you and the Deep clean cycle button will light up. To cancel the Deep clean cycle at any point, press and hold the Deep clean cycle button for five seconds.

Important: do not turn off or unplug the machine as the cleaning instructions will appear on the LCD screen.



Press the Deep clean cycle button on the front of your machine and your instructions will be shown on the LCD screen.



Put the shrouds to one side as you carry out the Deep clean cycle.



Remove the evaporator from your machine, place it in the water tank and refit the cap.



Push down the Water tank release buttons on the sides of your machine. Slide the water tank out of your machine and unclip the cap.



Carry the water tank by its handle to the tap. Remove the cap and evaporator. Fill the water tank halfway to the Max level with cold tap water.

Technical information Deep cleaning the machine





MAX level

Measure out 150g of citric acid and place it in the water tank.

drips.

Agitate gently until all the citric acid has dissolved.





Slide the water tank into your machine until it clicks securely in place. When prompted by the LCD screen, press the Deep clean cycle button. The Deep clean cycle will start and the LCD screen will show a countdown timer.

When the LCD screen shows the Deep clean cycle is complete, push down the water tank release buttons on the sides of your machine. Slide the water tank out of your machine. Carry the water tank by its handle to the tap.

Technical information

Testing and repair processes

Electrical safety testing

The following tests must be performed prior to and upon completion of all repairs to Dyson products and before any functional checks.

You must ensure that a full visual inspection of the product is completed prior to repair.



Ensure that at all times during the repair and testing of products that customers, pets, children and you are not exposed to any Live electrical supply.

These tests are vital to avoid any possibility of personal injury to the end user. Tests should be performed using the 500 volt DC setting of a locally compliant insulation tester.

Insulation test points:

Test directly onto the eight T-10 screws in the Main body. **Note:** the filters will need to be removed to gain access to the screws.





Test results

An insulation test reading of ${>}2~\text{M}\Omega$ is acceptable.

A reading of below 2 M Ω is considered unsafe and further investigation, rectification and testing must be completed before the product is used. The following components must be visually inspected.

• Dust sensor loom and AMP assembly loom.

If you cannot repair a product with an insulation test reading of below 2MΩ the product is left un-repaired please indicate on your paperwork/hand held device that the product is electrically unsafe and attach a 'WARNING': product electrically unsafe' sticker in a visible location on the product.



Deep cleaning process

It is advised that a Deep clean cycle is carried out after every repair, see pages 6 - 7 for full instructions.

Repair notes General information



Disconnect the machine from the electrical outlet at all times during repair and test. Failure to do so could result in electric shock or personal injury.

It is a mandatory requirement that when handling any product during any repair or refurbishment process that the following equipment is worn:

- FPP3 particle filter Face mask
- Safety gloves
- Safety glasses
- Safety shoes

Where this symbol is shown ensure ESD protection is used.

Wire colours may vary between territories.

Recommended tools to repair the product. All screwdrivers should be magnetic if possible.









For Amp service assembly fitting instructions go page 17 step 16. For Lower body service assembly - removal go to page 25 step 31. For Motor and Bucket service assembly - removal go to page 36 step 56. If the reason for the repair is to replace the Air amp neck service assembly or the On/Off button service assembly, continue to the next step.





- Nor

Push the three grommets through the neck plate.







Carefully push the large single grommet through the hole in the AMP neck assembly.



Repair notes AMP Service Assembly - fitting

If the Air Amp Neck Service assembly was previously removed, continue to the next step. If the reason for the repair is to replace the entire Amp Service assembly go to page 20 step 23 - 30.





17 Locate the two remaining looms inside the large grommet ensuring the larger loom is located in the centre of the grommet.By pushing from the inside of the neck ensure the large grommet is seated correctly.



AR AN

A.

21 Seat the three grommets into the neck plate.







Reconnect the four Looms.







Repair notes

Lower Body Service Assembly - removal

Before continuing the following components will need to be removed as previously shown: Air amp service assembly (Pages 10 - 11, steps 01 - 05)





24

33 Remove the Filter release catch service assembly from the Main body. Repeat on the opposite side.





34 Disconnect the Power loom from the Power controller PCB.





35 Remove the two T-15 screws on the right handside from behind the filter release catch holding at the base.





- Repeat on the opposite side.
 Important: on the left handside the hinge cover will need to be removed to gain access to the remaining screw.
 - Remove the two T-8 screws holding the lower hinge cover. Remove the cover.





38 Open the door until the hinges pop out of the retaining details.







To refit the hinge covers, shut the door. Slide the cover from behind the hinge so the lever folds back into the cover.







Fit the two T-8 screws into the Hinge cover.







Lift the Main body away from the Lower body service assembly.



 Place the Main body on top of the Lower Body Service assembly. Ensure it is positioned as shown, with the Main power loom untrapped.





48 Fit the two T-8 screws in the underside of the Lower body, and the four T-15 screws to secure the Main body to the Lower Body.





49 To refit the hinge covers, shut the door. Slide the cover from behind the hinge so the lever folds back into the cover.



Slide the cover forward until the screw bosses line up.



Fit the two T-8 screws into the Hinge cover.













53 Ensure the power loom is positioned as shown to avoid trapping.



After fitting the screws, continuing fitting the following components as previously shown: Air AMP Service assembly (Page 21 - 24, steps 25 - 30)

35

Repair notes

Motor and Bucket Service Assembly - removal

Before continuing the following components will need to be removed as previously shown: Air amp service assembly (Pages 10 - 11, steps 01 - 05)





61 Using a blunt screwdriver carefully push the three tabs securing the Motor and Bucket assembly inside the Main body.Lift the Motor and Bucket out of the Main body as the last tab is released.







Position the grommet to the left of the Main PCB and the motor bucket retaining clip located in the centre of the Main PCB and LCD UI display.



Slide the Motor and Bucket gently down into the Main body.





Twist the Motor from right to left to test it has locked into the Main body securely.



After fitting the seal, continuing fitting the following components as previously shown: Air AMP Service assembly (Page 21 - 24, steps 25 - 30)

Repair notes

Connection Shuttle Service Assembly - removal Before continuing the following components will need to be removed as previously shown: Air amp service assembly (Pages 10 - 11, steps 01 - 05) Lower Body Service assembly (page 25 - 30, steps 31 - 35).





71 Remove the four T-8 screws holding the Shuttle Spring Spigot and Spring. **Caution:** the spring is under tension. Important: wear protective glasses .





74 Disconnect the Shuttle Loom from the Power controller PCB and release the loom from the retainers in the side of the Main body.





46



Firmly locate the two rails on the base of the Water return tray onto the details on the Connection Shuttle.













After fitting the harness, continuing fitting the following components as previously shown: Lower boby assembly (pages 31 - 35, steps 46 - 55) Air AMP Service assembly (Pages 21 - 24, steps 25 - 30)

Repair notes

Internal Power Harness Service Assembly - removal

Before continuing the following components will need to be removed as previously shown: Air amp service assembly (Pages 10 - 11, steps 01 - 05) Lower Body Service assembly (page 25 - 30, steps 31 - 35).

















103 Run the left handside of the Base Skirt anti-clockwise aroun the base. Clip the securing tab in the base. 104 Run the right handside of the Base Skirt clockwise aroun the base. Clip the securing tab in the base.



After fitting the harness, continuing fitting the following components as previously shown: Lower boby assembly (pages 31 - 35, steps 46 - 55) Air AMP Service assembly (Pages 21 - 24, steps 25 - 30)



Parts diagram Main body

Parts diagram Amp and Filter assemblies

