BONECO healthy air

H680 MANUAL



INSTRUCTIONS FOR USE BONECO H680

TABLE OF CONTENTS

Technical specifications	
Introduction	41
Relief from allergies	41
Valuable information about humidity	41
Scope of delivery	41
Overview and part names	42
Start-up	44
Indicators on the display	46
Keypad and remote control	47
Two types of operation	47
The "Hybrid" operating mode	48
Operating mode at initial start-up	48
Using the "Hybrid" operating mode	48
Air quality indicator	48
Basic settings	48
Only air humidification / Only air purification	49
"Air humidification" operating mode	49
"Air purification" operating mode	49
Use without water or HYBRID filter	49
Selecting the various comfort modes	50
Comfort modes	50
Switching the comfort mode	50
"AUTO" comfort mode	50
"SLEEP" comfort mode	50
"BABY" comfort mode	50

Manually regulating humidity and fan level	5
Perfect humidity	5
Controlling humidity	5
Maximum humidification	5
Regulating the fan level	5
Power level (P)	5
Timer function	5
Setting the OFF timer	5
Setting the ON timer	5
Display lock	5
Activating the display lock	5
Deactivating the display lock	5
Automatic cleaning function	5
Evaporator mat	5
Preparing for first use	5
Descaling	5
Assembly	5
Changing the cleaning time	5
Replacing the Ionic Silver Stick®	5
Replacing the Ionic Silver Stick®	5
Important notes on cleaning	6
General	6
Important safety notes	6
Hidden dirt and grime	6
Recommended cleaning agents	6

Monthly cleaning	61
Cover	61
Pre-filter	61
HYBRID filter	61
Filter holder	61
Water tank	62
Water base	62
Drum	62
Evaporator mat	63
Fan blade	63
Housing	63
Particle sensor	64
Assembling the appliance	64
Clearing a notice	64
Replacing the HYBRID filter	68
Replacing the HYBRID filter	
Malfunctions and troubleshooting	69

TECHNICAL SPECIFICATIONS

Type designation	BONECO H680
Power supply voltage	100–240 V, 50–60 Hz
Power consumption	30 W
Humidity output	1000 g/h* (6.340 gal/day)
Air purification performance	190 m³/h (112 CFM) (CADR)
For room sizes up to	100 m² (1080 sq ft)
Capacity	10 I (2.64 US gal)
Dimensions	L 347 \times W 435 \times H 490 mm (13.6"x17.1"x19.3")
Operating noise level	< 25 dB(A)
Weight (empty)	10.4 kg (22.3 lbs)
Accessories	Ionic Silver Stick® A7017, HYBRID filter

^{*} For operation without HYBRID filter depending on temperature and humidity

INTRODUCTION

DEAR CUSTOMER.

Congratulations on your purchase of the BONECO H680. Its hybrid design cleans and humidifies room air in one step. Its smart control system keeps operating noise to a minimum, even allowing you to use the BONECO H680 in a bedroom or baby's room.

The BONECO H680 is designed for convenient, fully automated operation. However, you can adjust all of its features according to your preferences and requirements. This manual shows you how you can create your own comfortable climate.

RELIEF FROM ALLERGIES

The BONECO H680 is equipped with a triple filter system that rids the air of odors as well as dust, pollen and contaminants. The HYBRID filter also effectively alleviates many forms of discomfort caused by allergies, such as hay fever or allergic reactions to dust mites and household dust.

VALUABLE INFORMATION ABOUT HUMIDITY

The right humidity is very important for our health. Dry room air in winter leads to skin that cracks and itches. It makes your eyes and throat feel dry while significantly affecting physical comfort. Not only does this affect adults, it is especially true for babies, small children and even pets. Dry mucous membranes in winter also make us more prone to colds and other infections.

The BONECO H680 makes these problems a distant memory. Its intelligent automatic controls always keep the air clean and the humidity at the ideal level, even in large rooms with an area of up to 100 square meters (1080 square feet).

Regardless of whether it is summer or winter: You will not want to give up your newly gained comfort.

SCOPE OF DELIVERY



BONECO H680 with HYBRID filter



Power supply unit with country-specific adapter



"CalcOff" cleaning and descaling powder A7417



CD with manuals in other languages



Remote control including CR 2025 battery

OVERVIEW AND PART NAMES



- 1 Front cov
- 2 Pre-
- 3 HYBRID filter
- 4 Filter holder
-
- **5** Drum
- 6 Evaporator m
- 7 Ionic Silver Stick[®]
- 8 BONECO H6
- 9 Water tank
- 10 Fragrance container
- 11 Water base
- 12 Remote control
- 13 Fan blad
- 14 Power supply

START-UP AND USE

START-UP



Lift the appliance out of the box together with the inner packaging.



Remove the front cover using the tabs on the sides.



Take off the pre-filter.



Take out the HYBRID filter and remove the protective foil.



Insert the HYBRID filter (note the direction the arrow is pointing).



Put the pre-filter back on.

START-UP (CONTINUED)



Reattach the front cover.



Fill the water tank with cold tap water.



Connect the adapter provided to the power supply unit.



Connect the power supply to the BONECO H680 first and then to the power outlet.

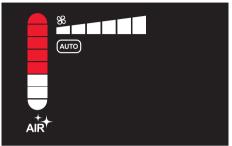


Switch the appliance on using the (*) button on the display or on the remote control.

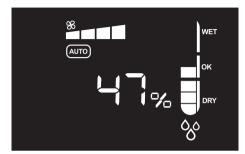
INDICATORS ON THE DISPLAY







Indicators for air purity (left) and fan level (top)

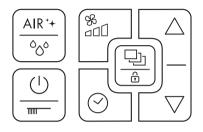


Indicator for humidity (right, middle) and fan level (top)

	i
Current or desired humidity	51
Fully automated operation	50
Low-noise nighttime mode	50
Perfect for use in a nursery or baby's room	50
Timer function	52
Value shows the current humidity	51
Value shows the desired humidity	51
Display lock has been activated	53
	Fully automated operation Low-noise nighttime mode Perfect for use in a nursery or baby's room Timer function Value shows the current humidity Value shows the desired humidity

Indicator	Required action	i
	Refill the water	45
	Change the water in the appliance	69
(SS)	Replace the Ionic Silver Stick®	58
FLTER	HYBRID filter used up, replace	68
	HYBRID filter missing, insert	49
₹	Cleaning required	56

KEYPAD AND REMOTE CONTROL





Keypad on the appliance

Remote control

TWO TYPES OF OPERATION

The BONECO H680 can be controlled using the integrated keypad or the included remote control. Operation remains the same in both cases.

Indicator	Function	i
% d00	Regulating the fan level	51
믿	Toggling between modes (on the remote)	50
(L)	Toggling between modes (on the appliance)	50
(<u>a</u>	Activating the "Display lock"	53
\odot	Calling up the timer function	52
$\nabla \triangle$	Changing air humidity / timer / fan levels	51, 52
<u>U</u>	Switch the appliance on and off / start cleaning	56
AIR*+	Toggling between operating modes	49

THE "HYBRID" OPERATING MODE

OPERATING MODE AT INITIAL START-UP

The BONECO H680 uses the "Hybrid" operating mode when being switched on for the first time: This operating mode cleans the air while humidifying it at the same time. The humidity can be regulated at will (see page 51).

Air purification works automatically and without user interaction.

The fan level is controlled by the electronics and adapts to the environment to ensure the most efficient cleaning and/or humidification possible.

Fan noise may be clearly audible at first; it will decrease after a few minutes, however, once the humidity gets closer to the desired value.

USING THE "HYBRID" OPERATING MODE

1. Switch the appliance on by tapping the 🖰 button once.

The particle sensor automatically begins measuring the amount of dirt in the air. The appliance starts the humidifying process automatically if humidity is below 50%.

AIR QUALITY INDICATOR

After being switched on, the BONECO H680 carries out an initial air measurement and the After measuring the air, the display shows the current air quality (see figure below).



The cleaner the air is, the more segments are shown in white.

BASIC SETTINGS

The BONECO H680 saves all of the settings if you switch off the appliance using the \circlearrowleft button.

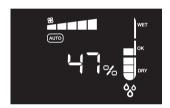
The basic settings described here ("Hybrid" operating mode, "AUTO" comfort mode, etc.) can be restored at any time. Disconnect the appliance from the power grid for about 10 seconds by unplugging the power cord from the power outlet.

ONLY AIR HUMIDIFICATION / ONLY AIR PURIFICATION

"AIR HUMIDIFICATION" OPERATING MODE

Use of the HYBRID filter is optional in the "Air humidification" operating mode.

1. Press the button until just the indicator for humidity and the fan level are shown.

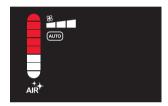


 To switch back to the "Hybrid" operating mode, press the button until the air purifier and humidifier are both shown as active at the same time.

"AIR PURIFICATION" OPERATING MODE

The air is not humidified in the "Air purification" operating mode.

1. Press the 🕁 button until just the indicator for air quality and the fan level are shown.



2. To switch back to the "Hybrid" operating mode, press the
the button until the air purifier and humidifier are both shown as active at the same time.

USE WITHOUT WATER OR HYBRID FILTER

The BONECO H680 can also be used without a HYBRID filter in the "Air humidification" operating mode. When switching to the "Hybrid" or "Air purification" operating mode, the following symbol flashes on the display if a HYBRID filter is not inserted:



The BONECO H680 can also be used without water in the "Air purification" operating mode. When switching to the "Hybrid" or "Air humidification" operating mode, the following symbol flashes on the display if the water tank is empty:



SELECTING THE VARIOUS COMFORT MODES

COMFORT MODES

There are three different comfort modes available in each of the three "Hybrid", "Air purification" and "Air humidification" operating modes: (AUTO), (SLEEP) and (BABY).

SWITCHING THE COMFORT MODE

- 1. Switch between the AUTO, SLEEP and GABY comfort modes by either:
- Pressing the □ button on the remote control repeatedly
- Pressing the button on the keypad on the appliance repeatedly

"AUTO" COMFORT MODE

In $\mbox{\frame}$ comfort mode, the BONECO H680 uses all of the fan levels between 1 and 6. The preset humidity is 50%.

"SLEEP" COMFORT MODE

In see comfort mode, the BONECO H680 can even be used in a bedroom at night. The appliance automatically operates at the lowest fan level of 1 to keep operating noise to a minimum. The preset humidity is 45%

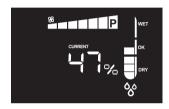
"BABY" COMFORT MODE

The was comfort mode uses fan level 1 through 4 and increases the humidity to 60%. This value is ideal for use in a nursery or baby's room since higher humidity is recommended for babies and small children. The fan also operates quietly enough that it will not trigger a baby monitor.

MANUALLY REGULATING HUMIDITY AND FAN LEVEL

PERFECT HUMIDITY

The recommended humidity level is between 40% and 60%. The default setting is 50%. The indicator for current humidity should ideally be within the "OK" range:



The humidity you set then stays saved if you switch off the appliance.

CONTROLLING HUMIDITY

Press the △ and ▽ buttons to set the humidity as desired.

The notice **DESIRED** is shown on the display. Once you stop pressing the arrow keys, the notice switches to **CURRENT** after a few seconds. Now the display now shows the current humidity again.

MAXIMUM HUMIDIFICATION

Press the \triangle button until the notice "Co" (for "Continuous") is displayed. Now the humidifier operates independently of the measured humidity.

REGULATING THE FAN LEVEL

- 1. Press the doll button once. The indicator for the fan level flashes.
- 2. Press the \triangle and ∇ buttons to adjust the fan level.
- 3. To switch back to the comfort mode, press the button on the appliance until the common notice is shown on the display. Alternatively, you can also use the button on the remote control.

POWER LEVEL (P)

The maximum power level (P) can only be selected manually. We recommend using it when room air has to be cleaned and/or humidified in the shortest possible time. To activate the maximum power level, press the \triangle button repeatedly until "P" is shown in the indicator for the fan level (see figure in the left column).

TIMER FUNCTION

The timer function can be used in every operating mode together with every comfort mode. The timer function lets you determine how long the BONECO H680 should run before it switches off automatically (OFF timer).

Alternatively, you can specify a time for when the appliance should switch on automatically (ON timer). Use this function, for example, to activate the BONECO H680 before you return home, so that you have the perfect living climate waiting for you.

SETTING THE OFF TIMER

- 1. Switch on the BONECO H680 using the 🖰 button.
- 2. Select the desired operating setting and the desired comfort mode.
- 3. Press the 🕙 button once.
- 4. Use the △ and ▽ buttons to set how long the appliance operates (1 to 12 hours).

The appliance then runs for the specified period and then switches itself off.

 To deactivate the OFF timer early, press the [⊙] button again and select [□]h. Alternatively, you can switch off the BONECO H680 using the [⊙] button.

SETTING THE ON TIMER

- Select the desired operating setting and the desired comfort mode.
- 2. Switch off the BONECO H680 using the 🖰 button.
- 3. Press the ⊙ button once.
- Use the △ and ▽ buttons to set the start preselection time (1 to 12 hours).

The BONECO H680 switches on after the defined time and operates with the selected program.

5. To deactivate the ON timer early, press the ⊙ button again and select ☐h. Alternatively, you can switch on the BONECO H680 using the ♂ button.

DISPLAY LOCK

The BONECO H680 display can be set up to prevent accidental entries. Use this function to prevent unintentional entries, such as those from children playing near the appliance.

ACTIVATING THE DISPLAY LOCK

1. Press the button until you hear the indicator tone.

The display shows an "LC" (LOCK) notice for a few seconds and then returns to the original displayed content. The "LC" notice is displayed for a few seconds each time the controls are pressed.



DEACTIVATING THE DISPLAY LOCK

1. Press the button until you hear the indicator tone.

The display is now unlocked. Changes can be made to the settings once again.

AUTOMATIC CLEANING

AUTOMATIC CLEANING FUNCTION

The BONECO H680 has to be cleaned and descaled at regular intervals. An upcoming need for cleaning is indicated on the display with the following cleaning symbol:



 \triangle

Be sure to remove the lonic Silver Stick® before the descaling process.

EVAPORATOR MAT

The evaporator mat lasts indefinitely. However, you can order a new evaporator mat together with the drum as a spare part if necessary. The set is available through your BONECO specialist dealer or the BONECO online store: www.shop.boneco.com

PREPARING FOR FIRST USE

- Remove the front cover and the water tank on the rear side.
- 2. Remove the filter holder together with the filter.



3. Pull the water base out and remove the drum with the evaporator mat.



 Empty the water base and remove the lonic Silver Stick[®].



5. Remove the evaporator mat.



Set the drum back into the water base and put the appliance back together by following the steps in reverse order.

AUTOMATIC CLEANING FUNCTION (CONTINUED)

DESCALING

- Fill the tank halfway with hot tap water and add two packets of CalcOff.
- Start cleaning mode by pressing the
 [⊕]
 [⊕]
 [⊕]
 button on the BONECO H680 keypad for 5 seconds. Change the duration of cleaning as needed using the
 [△]
 and
 [▽]
 buttons (refer to the column of text on the right).

The appliance then descales itself automatically.

Thoroughly wash the evaporator mat with hot water and dishwashing detergent.



4. Continue to wring out the evaporator mat in clean hot water until foam no longer forms.

ASSEMBLY

After descaling, the cleaning symbol on the display goes away; then a flashing symbol indicates that the water in the appliance has to be replaced:



- Empty the water base and fill the water tank with fresh tap water.
- 2. Insert the Ionic Silver Stick® into the holder.
- 3. Stretch the evaporator mat into the drum.



4. Place the drum into the water base and put the appliance together.

CHANGING THE CLEANING TIME

The default setting for the cleaning time is 4 hours. To strengthen or shorten the cleaning, adjust the duration of cleaning using the \triangle and ∇ buttons.

- Shorten the duration of cleaning if the BONECO H680 is only slightly dirty.
- Increase the duration of cleaning if the BONECO H680 is located in a room with very dirty air. The maximum duration of cleaning is 12 hours.

After cleaning has finished, the cleaning symbol on the display goes away automatically.

REPLACING THE IONIC SILVER STICK®

The lonic Silver Stick® prevents the growth of bacteria in water, making a vital contribution to health and cleanliness. The lonic Silver Stick® is also subject to wear and has to be replaced regularly.

The display indicates an upcoming need to replace the lonic Silver Stick® with the following symbol:



You can obtain an Ionic Silver Stick® from your BONECO specialist dealer or the BONECO online store at www.shop.boneco.com.

REPLACING THE IONIC SILVER STICK®

- 1. Take off the front cover.
- 2. Remove the water tank on the rear side.
- 3. Remove the filter holder.



4. Pull the water base out and remove the drum.



5. Remove the used Ionic Silver Stick® and dispose of it with your regular household waste.



- 6. Insert the new Ionic Silver Stick®.
- Put the parts back together by following the steps in reverse order.
- 8. Simultaneously press the \triangle and ∇ buttons on the appliance for 5 seconds to hide the symbol.

MONTHLY CLEANING

IMPORTANT NOTES ON CLEANING

GENERAL

Automatic cleaning (see pages 56-57) offers maximum effectiveness with minimal time and effort. However, the automated approach cannot reach every corner of the BONECO H680. Therefore, it is important that you thoroughly clean the appliance by hand once per month. The cleaning usually takes less than 15 minutes.

Investing 15 minutes once per month can ensure your family is breathing clean air.

IMPORTANT SAFETY NOTES



Always unplug the BONECO H680 before you start cleaning! Failure to do so can result in electric shock and fatal injury!



Do not clean the BONECO H680 in a dishwasher. High temperatures can deform the parts and make them unusable. This damage is not covered by the warrantv.

HIDDEN DIRT AND GRIME

The monthly cleaning removes hidden limescale that can impair the operation of your BONECO H680. It also prevents the growth of mold in places that cannot be reached by automated cleaning. You can recognize mold by its characteristic small spots:



Mold inside your BONECO H680 can add impurities to the air and may adversely affect your health. Be sure to remove any you find for this reason.

RECOMMENDED CLEANING AGENTS

Use a dishwashing brush and a cloth to clean the appliance. Always add a small amount of dishwashing detergent to the hot water.

MONTHLY CLEANING

COVER

1. Remove the cover.



2. Clean the cover with a damp cloth.



PRE-FILTER

 Wash the pre-filter under running water using a dish brush.



Do not put the pre-filter back in until it is dry. Humidity can have an adverse effect on the quality of the adjacent HYBRID filter.

HYBRID FILTER

The HYBRID filter cannot be cleaned. Dirt is normal and shows that the filter is working.



FILTER HOLDER

1. Remove the filter holder.



2. Clean the filter holder under running water.



3. Dry the filter holder before inserting it.

WATER TANK

- Fill the water tank halfway with hot water and add a small amount of dishwashing detergent.
- Thoroughly clean the inside of the water tank with a suitable dish brush. The extra large opening is designed to simplify cleaning.



3. Thoroughly clean the cover with a dish brush.



WATER BASE

1. Pull the water base out of the BONECO H680.



- 2. Remove the drum with the evaporator mat.
- 3. Take the lonic Silver Stick® out of the water base.



4. Thoroughly clean the water base and all of the parts inside with detergent.

DRUM

1. Take the evaporator mat out of the drum.



2. Wash the drum with detergent and a dish brush.



3. Thoroughly rinse the drum with hot water.

EVAPORATOR MAT

 Thoroughly wash the evaporator mat with hot water and dishwashing detergent.



- 2. Continue to wring out the evaporator mat in clean hot water until foam no longer forms.
- 3. Wind the damp evaporator mat around the drum immediately after washing.

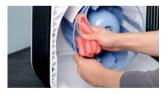
FAN BLADE



Never remove the retaining screw in order to take off the fan blade! A weight imbalance during reassembly could cause excessive noise or could even damage the motor.



- 1. Soak a cloth or sponge with hot water and detergent.
- Clean both sides of the fan blade and wipe it off with clean water.



HOUSING

 Clean the inside of the housing with a cloth, hot water and dishwashing detergent.



PARTICLE SENSOR

The particle sensor detects the amount of dirt in the air in the room by analyzing a passing air stream. Over time, dirt can accumulate and affect measuring accuracy.

The flap over the particle sensor has to be closed during operation to ensure the measurement is correct. It should only be opened to clean the sensor.



Do not use alcohol or corrosive cleaning agents for cleaning.

1. Wipe the sensor lens using a damp cotton swab.



2. Dry the sensor with a dry cotton swab.

ASSEMBLING THE APPLIANCE

Once cleaning is complete, you can put the BONECO H680 back together. Use the graphic on the right as a guide for doing so.

CLEARING A NOTICE

The "Cleaning required" symbol may light up during or shortly after cleaning is finished. You can hide this symbol by pressing the \triangle and ∇ buttons for 5 seconds. This resets the interval for the notice.



Tip: If you used a dish brush to clean the appliance, put it in your dishwasher the next time you clean a load of dishes. Then you can use it for cleaning dishes again without worry.



SPARE PARTS AND TROUBLESHOOTING

REPLACING THE HYBRID FILTER

The HYBRID filter has to be changed after about one year to ensure that dirt and pollen continue to be filtered from the air.

The display indicates an upcoming need to replace the HYBRID filter with the following symbol:



The HYBRID filter is replaced according to Figures 2 to 7 on pages 44 and 45.

REPLACING THE HYBRID FILTER

- 1. Remove the front cover of the BONECO H680.
- 2. Take off the pre-filter.
- 3. Remove the used HYBRID filter and dispose of it with your regular household waste.
- 4. Remove the protective foil from the new HYBRID filter.
- 5. Insert the HYBRID filter into the holder as shown on the label.
- 6. Reinsert the pre-filter and the front cover.
- Simultaneously press the △ and ▽ buttons on the appliance for 5 seconds to hide the filter change symbol.

MALFUNCTIONS AND TROUBLESHOOTING

Problem	Possible cause	Action
Air has an unpleasant odor	Stagnant water in the tank and water base	Empty and thoroughly clean the appliance
No improvement in air	Particle sensor is dirty	Clean the particle sensor
quality	Open windows or doors	Close windows and doors
Display shows Error E2	Fan blade blocked or motor is defective	Unplug the appliance, check that the fan blade can turn freely, plug the appliance back in; contact a service center if the problem persists
Display shows Error E3	Drum blocked or motor is defective	Unplug the appliance, check that the drum can turn freely, plug the appliance back in; contact a service center if the problem persists