

BONECO
healthy air

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 A SWISS COMPANY

H680 MANUAL



GEBRAUCHSANWEISUNG BONECO H680

INSTRUCTIONS FOR USE BONECO H680

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TECHNICAL DATA

Type designation	BONECO H680
Mains voltage	100–240 V, 50–60 Hz
Power consumption	30 W
Humidity output	1000 g/h* (6.340 gal/day)
Air purification performance	190 m ³ /h (112 CFM) (CADR)
For rooms up to	100 m ² (1080 sq ft)
Water capacity	10 l (2.64 US gal)
Dimensions	L 347 × W 435 × H 490 mm (13.6" × 17.1" × 19.3")
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 level 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.

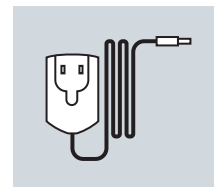
The BONECO H680 makes these problems a distant memory. Its intelligent automatic controls always keep the air clean and the humidity at the ideal level, even in large rooms with an area of up to 100 square meters (1080 square feet).

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

ITEMS INCLUDED



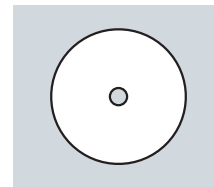
BONECO H680
with HYBRID filter



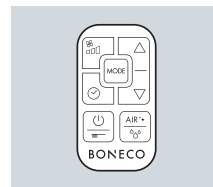
Power supply unit with
country-specific adapter



“CalcOff” cleaning and descaling
powder A7417



CD with manuals in other
languages



Remote control
including CR 2025 battery

OVERVIEW AND PART NAMES



- 1 Front cover
- 2 Pre-filter
- 3 HYBRID filter
- 4 Filter holder
- 5 Drum
- 6 Evaporator mat
- 7 Ionic Silver Stick®
- 8 BONECO H680
- 9 Water tank
- 10 Fragrance container
- 11 Water base
- 12 Remote control
- 13 Fan blade
- 14 Power supply

START-UP AND USE

START-UP

SAFETY INSTRUCTIONS



Before using the device, carefully read through the enclosed safety notes and operating manual and keep them for later use.

FIRST CLEANING

Production-related residue on the water tray and water tank may lead to foaming, and thereby to water escaping. For this reason, before the first use, both elements must be cleaned with warm water and dishwashing detergent (see Figure 5 on the right side). Thoroughly rinse the parts under running water.

FIRST WATER CHANGE

24 hours after the first use, the “Water change” symbol will illuminate:



Change the water in the water tank and in the water base.

The “Water change” symbol will automatically go out as soon as the water has been replaced.

START-UP (CONTINUED)



1 Remove the front cover.



2 Take off the filter holder along with the filters.



3 Remove the water tank.



4 Pull out the water tray along with the drum.



5 Clean the water tank and water tray.



6 Insert the water tray with the drum into the appliance.

START-UP (CONTINUED)

7 Insert the water tank filled with tap water.



8 Insert the filter holder.



9 Take off the pre-filter.



10 Remove the protective covering of the HYBRID filter.



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



12 Insert the pre-filter.

START-UP (CONTINUED)


13

Reattach the front cover.

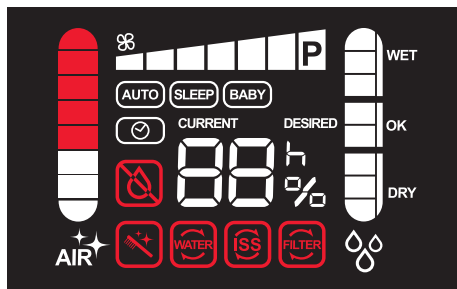
14

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

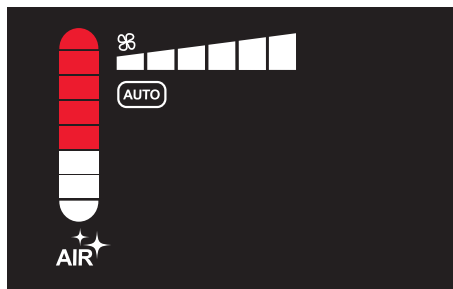
15

Switch the appliance on with the  button.

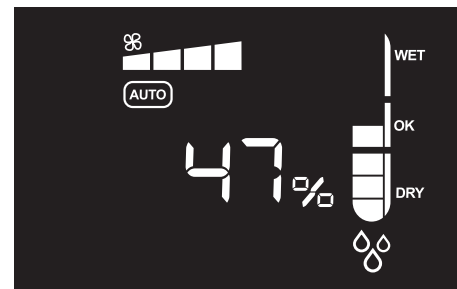
INDICATORS ON THE DISPLAY









Overview of all indicators on the display













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



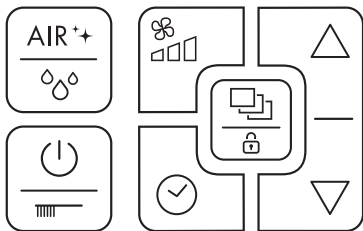
Indicator for humidity (right, middle) and fan level (top)

Indicator	Meaning	
47%	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
CURRENT	Value shows the current humidity	51
DESIRED	Value shows the desired humidity	51
	Display lock has been activated	53

Indicator	Required action	
	Refill the water	43
	Change the water in the appliance	66
	Replacing the Ionic Silver Stick®*	65
	HYBRID filter used up, replace*	64
	HYBRID filter missing, insert	49
	Cleaning required*	56

 The symbols for the actions marked with an * can be turned off manually if you simultaneously press and hold the  and  buttons on the appliance for 5 seconds.

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	
	Regulating the fan level	51
	Toggling between modes (on the remote control)	50
	Toggling between modes (on the appliance)	50
	Activating the “Display lock”	53
	Calling up the timer function	52
	Changing air humidity / timer / fan levels	51, 52
	Switch the appliance on and off / start cleaning	56
	Toggling between operating modes	49

THE “HYBRID” OPERATING MODE (AIR HUMIDIFICATION AND AIR PURIFICATION)

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  symbol flashes. 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  button.

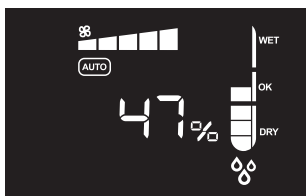
The basic settings described here (“Hybrid” operating mode, “AUTO” comfort mode, etc.) can be restored at any time. Disconnect the appliance from the power outlet for about 10 seconds by unplugging the power cord from the power outlet.


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.




2. 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.

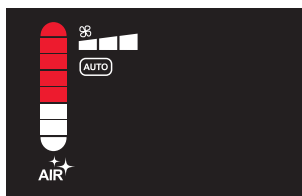
The BONECO H680 can also be used without a HYBRID filter in the “Air humidification” operating mode. When switching to the “Hybrid” or “Air purification” operating mode, the following symbol flashes on the display if a HYBRID filter is not inserted:




“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  button until the air purifier and humidifier are both shown as active at the same time.

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: ,  and .


SWITCHING THE COMFORT MODE

1. Switch between the ,  and  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  comfort mode, the BONECO H680 uses all of the fan levels between 1 and 6. The preset humidity is 50%.

“SLEEP” COMFORT MODE

In  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 level to a minimum. The preset humidity is 45%.

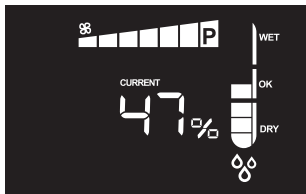
“BABY” COMFORT MODE

The  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




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

POWER MODE (P)





The maximum power mode (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 Δ button repeatedly until the fan level “P” is shown in the indicator (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.

5. To deactivate the OFF timer early, press the  button again and select . Alternatively, you can switch off the BONECO H680 using the  button.

SETTING THE ON TIMER

1. Select the desired operating setting and the desired comfort mode.
2. Switch off the BONECO H680 using the  button.
3. Press the  button once.
4. 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 . 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.

USING FRAGRANCES

USING FRAGRANCES

Inside the BONECO H680 there is a fragrance container for adding fragrances in the form of essential oils.

 This fragrance container is made of a special material. Never add essential oils and other fragrances directly into the water tank or water base. It only takes a small amount to damage the appliance irreparably. Such damage is not covered by the warranty.

ADDING FRAGRANCES

1. Remove the front cover.



2. Remove the filter holder along with the filter.



3. Insert the fragrance into the fragrance container provided for this.



4. Insert the filter holder and front cover.

DESCALING AND CLEANING

DESCALING

For hygienic reasons, the BONECO H680 has to be cleaned and descaled at regular intervals. An upcoming need for cleaning is indicated on the display with this symbol:



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

PREPARING FOR FIRST USE

1. 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.




4. Empty the water base and water tank and remove the Ionic Silver Stick®.



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

DESCALING (CONTINUED)

DESCALING

1. Fill the tank halfway with hot tap water and add two packets of CalcOff.
2. Start descaling mode by pressing the  button on the BONECO H680 keypad for 5 seconds. Change the duration of descaling as needed using the Δ and ∇ buttons.

The appliance then descales itself automatically.

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

Then a flashing symbol indicates that the water in the appliance has to be replaced:



CLEANING THE INTERIOR PARTS

After each descaling, it is absolutely necessary to clean the interior parts (see the next page).

CHANGING THE DESCALING TIME


The default setting for the descaling time is 4 hours. To intensify or shorten the descaling, adjust the duration of descaling using the Δ and ∇ buttons.


- Shorten the duration of descaling if the BONECO H680 is only slightly dirty.
- Lengthen the duration of descaling if the BONECO H680 is very dirty. The maximum duration of descaling is 12 hours.


CLEANING THE INTERIOR PARTS


IMPORTANT NOTES

Use a cleaning brush and a damp cloth for cleaning. Always add a small amount of dishwashing detergent to the hot water.

 Always unplug the BONECO H680 from the power outlet before you start cleaning or doing maintenance! Failure to do so can result in electric shock and fatal injury!

 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.

 Do not use alcohol or corrosive cleaning agents for cleaning.

 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 warranty.

WATER TANK

1. Fill the water tank halfway with hot water and add a small amount of dishwashing detergent.
2. Thoroughly clean the inside of the water tank by hand or with a suitable cleaning brush.



3. Also clean the cover.



WATER BASE

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



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



4. Clean the water base and all of the parts inside. These can be removed for cleaning.

CLEANING THE INTERIOR PARTS (CONTINUED)

DRUM

1. Take the evaporator mat out of the drum.



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



3. Thoroughly rinse the drum with hot water.

EVAPORATOR MAT (HANDWASHING)

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



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

3. Right after the washing cycle, insert the washed evaporator mat into the cleaned drum.

EVAPORATOR MAT (WASHING MACHINE)

The evaporator mat can also be washed in the washing machine from 30 °C to 60 °C. Right after the washing cycle, insert the washed evaporator mat into the cleaned drum.



Do not dry the evaporator mat in the clothes dryer.

GENERAL CLEANING

COVER

1. Remove the cover.



2. Clean the cover with a damp cloth.



PRE-FILTER

1. Wash the pre-filter under running water using a cleaning 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.



GENERAL CLEANING (CONTINUED)

FILTER HOLDER


1. Remove the filter holder.



2. Clean the filter holder with a damp cloth.



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. Clean the fan blades with a damp cloth.



HOUSING

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



GENERAL CLEANING (CONTINUED)

PARTICLE SENSOR

The particle sensor detects the amount of dirt in the air in the room by analyzing a passing air flow. 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.

1. Clean 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. When doing so, pay attention to how the evaporator mat fits.



MAINTENANCE 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 42 and 43.

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.
7. Simultaneously press the \triangle and ∇ buttons on the appliance for 5 seconds to hide the filter change symbol.

REPLACING THE IONIC SILVER STICK®

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

The display indicates an upcoming need to replace the Ionic 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®.
7. Put the parts back together by following the steps in reverse order.
8. Simultaneously press the Δ and ∇ buttons on the appliance for 5 seconds to hide the  symbol.