

mill

Series:

Invisible & Glass
Panel Heaters



Assembly and instruction manual



Scandinavian home comfort

Mill is a Norwegian brand that develops heating and indoor air quality products tailored for your modern home. Inspired by Scandinavian nature, our products are designed to sustain the toughest of climates to ensure safe, efficient and comfortable temperatures, as well as good air quality.

Mill products are praised for their minimalistic and elegant features as they blend in naturally with any modern interior. Our advanced and user-friendly technology will support a relaxing and healthy home space with reliable temperatures and air quality. Mill's vision is to develop products that create an enjoyable and harmonic household atmosphere, enhancing both comfort and style; the ultimate Scandinavian home comfort.

We hope you enjoy your Mill product.

ErP energy efficiency data

Our products strictly comply with ErP relevant regulation and directive.

You can find energy efficiency data for each model on the final pages of this booklet.

Declaration of Conformity

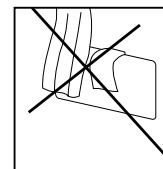
Mill International AS declares that the products comply with Directive 2014/35/EU.

A complete Declaration of Conformity is available on request.

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Please read the instructions carefully before use. Take good care of this manual for later use.



STORE THIS INSTRUCTION MANUAL FOR FUTURE USE!

NEVER TOUCH YOUR HEATER OR ITS CASING WITH WET HANDS!



WARNING: In order to avoid overheating, do not cover the heater.



Important safety information

You must obey common safety guidelines when using electrical products, especially in the presence of children.



WARNING! To avoid electric shock or damage due to the heat, always make sure the plug is pulled out before the heater is moved or cleaned.

READ THE INSTRUCTIONS CAREFULLY

- The product is intended for home use only.
- Make sure the heater is connected to the house's regular mains as indicated on the heater.
- New heaters will produce a specific odor when used the first time. This will stop after a short time and is completely harmless.
- Check for any pieces of packing foam or cardboard that may have fallen into the heating elements of the heater. These pieces must be removed to avoid unpleasant odors.
- Prevent the heater from overheating — **do not cover.**
- Always turn off the heater and unplug it when not used for a long period of time.
- Pay special attention if the heater is used in rooms where children, the handicapped or elderly reside.
- The heater should not be set up directly beneath an electrical socket outlet.
- The cord must not be laid under any kind of carpet. Make sure the cord is laid in such a way that nobody can trip on it.
- The heater must not be used if either the cord or plug is damaged. The heater must not be used if it has been dropped on the floor or is damaged in any other way causing it to malfunction.
- The cord must be repaired by the manufacturer or by an expert if it has been damaged, to avoid dangerous situations.
- Avoid using extension cords, which may overheat and could possibly start a fire.

- Never cover the air vents on the heater. Avoid potential fire hazards by making sure the air intakes are not blocked or covered.
- The heater should be used in rooms with normal flat floors.
- The heater should not be installed in close proximity to flammable materials of any kind because there can always be at risk of fire.
- The heater must never be used in rooms where gasoline, paint or other flammable liquids are stored, such as in a garage.
- Never touch an electric heater with wet hands. The heater should be installed so a person showering or taking a bath can not come into direct contact with it.
- Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.
- The heater must be switched off, the plug removed and the heater must cool down before it is moved.
- Avoid overloading the mains (the circuit) where the heater is connected. The heater may overload the electrical circuit if other electrical devices are plugged into the same socket outlet.
- **WARNING:** Do not use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.
- The product cannot be used by children under 8 years of age and persons with reduced physical or mental abilities or lack of experience and knowledge unless they have been given supervision or instruction in the safe use of the product and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.

- Do not use this heater in the immediate surroundings of a bath, a shower or a swimming pool.
- Do not use if there are visible signs of damage to the heater.
- **WARNING:** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 m from the air outlet.

WARNING! The heater must not be used if the glass panels are damaged (this applies to the products with model names starting with MB).

Specification

Model	Thermostat	Color	Height	Width	Amperage	Power (W)	IP rating
IB250	Electronic	White	30,0 cm	35,0 cm	220-240V~, 50-60Hz	250	IPx4
IB600DN	Day/night	White	40,0 cm	65,0 cm	220-240V~, 50-60Hz	600	IPx4
IB700DN	Day/night	White	40,0 cm	65,0 cm	220-240V~, 50-60Hz	700	IPx4
IB900DN	Day/night	White	40,0 cm	85,0 cm	220-240V~, 50-60Hz	900	IPx4
IB1000DN	Day/night	White	40,0 cm	85,0 cm	220-240V~, 50-60Hz	1000	IPx4
IB1200DN	Day/night	White	40,0 cm	105,0 cm	220-240V~, 50-60Hz	1200	IPx4
IB1300DN	Day/night	White	40,0 cm	105,0 cm	220-240V~, 50-60Hz	1300	IPx4
IB800L DN	Day/night	White	25,0 cm	105,0 cm	220-240V~, 50-60Hz	800	IPx4
IB850L DN	Day/night	White	25,0 cm	105,0 cm	220-240V~, 50-60Hz	850	IPx4
IB1000L DN	Day/night	White	25,0 cm	121,5 cm	220-240V~, 50-60Hz	1000	IPx4
IB1050L DN	Day/night	White	25,0 cm	121,5 cm	220-240V~, 50-60Hz	1050	IPx4
MB250	Electronic	White	30,0 cm	36,5 cm	220-240V~, 50-60Hz	250	IPx4
MB600DN	Day/night	White	40,0 cm	66,5 cm	220-240V~, 50-60Hz	600	IPx4
MB700DN	Day/night	White	40,0 cm	66,5 cm	220-240V~, 50-60Hz	700	IPx4
MB900DN	Day/night	White	40,0 cm	86,5 cm	220-240V~, 50-60Hz	900	IPx4
MB1000DN	Day/night	White	40,0 cm	86,5 cm	220-240V~, 50-60Hz	1000	IPx4
MB1200DN	Day/night	White	40,0 cm	106,5 cm	220-240V~, 50-60Hz	1200	IPx4
MB1300DN	Day/night	White	40,0 cm	106,5 cm	220-240V~, 50-60Hz	1300	IPx4
MB800L DN	Day/night	White	25,0 cm	106,5 cm	220-240V~, 50-60Hz	800	IPx4
MB850L DN	Day/night	White	25,0 cm	106,5 cm	220-240V~, 50-60Hz	850	IPx4
MB1000L DN	Day/night	White	25,0 cm	123,0 cm	220-240V~, 50-60Hz	1000	IPx4
MB1050L DN	Day/night	White	25,0 cm	123,0 cm	220-240V~, 50-60Hz	1050	IPx4

The heater is approved for use in bathrooms zone 2 (IPX4 approved)

Before first use

After unpacking the heater, check to make sure the product was not damaged during transport. Contact the retailer or importer if you discover any visible damages to the product.

Keep the outer packaging to transport the heater in the future. If you want to dispose the packaging, make sure it is done properly. Keep plastic bags away from children.

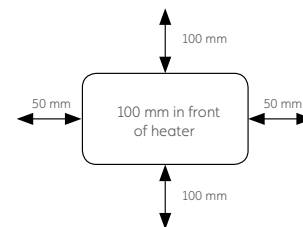
First use

After turning on the heater for the first time or after an extended period without use, the heater can produce a burnt odor for a short time. This is normal.

Please read all the instructions carefully before use. Save the instruction manual for future use.

It is also normal for the heater to make “sounds” when it warms up or cools down.

Minimum distances



Description of heater

See figure 1 on separate illustration sheet

A MILL INVISIBLE

1. On/Off
2. Wall bracket
3. Temperature sensor
4. Heat emission
5. Thermostat
6. Steel front

B MILL GLASS

1. On/Off
2. Wall bracket
3. Temperature sensor
4. Heat emission
5. Thermostat
6. Glass front

Assembly

See figure 2 on separate illustration sheet

- A. Drill holes in the wall for holes 1 & 2. Then drill holes in the wall for the topmost holes (holes 3 & 4 by using 6)
- B. Insert the wall plugs into the drilled holes and attach the bracket with 4 screws
- C. Place the heater on the lower lugs on the bracket, then hang the heater on the upper lugs (lift the heater slightly to align the heater with for the upper lugs). Screw in the locking screws on the top of the bracket (clockwise)

Attention! Horizontal placement only

Temperature calibration

See figure 3 on separate illustration sheet

It may occur deviation between the temperature registered by the heater and the actual temperature in the room. This can be caused by several reasons, however, the most com-

mon is that the heater is placed in a fair distance from where you usually reside. When you set the temperature to for example 22 degrees, it is only natural that you expect the same temperature where your sofa is placed for instance. However, the temperature sensor is placed on the product itself, and therefore a deviation in temperature may occur. To adjust this, all Mill heaters are equipped with a calibration function, which enables you to adjust the temperature registered by the heater. N.B! The room must have achieved a stable temperature before any calibration.

Press  2 times and use + or - to set the actual temperature observed in the room. Confirm with  or wait 15 seconds for automatic confirmation.

Resetting the heater

See figure 4 on separate illustration sheet

Turn off the heater's main switch. Press and hold  while you turn on the heater's main switch.

Memory function

The heater remembers all the temperature settings and will automatically return to the desired temperature after a power cut. Your day- and nighttime setbacks will however be deleted after a power cut, and you will need to register the programs again.

"Open window" function

The heater has an "open window" function that is activated instantly when it registers a sudden drop in temperature with more than 2 degrees Celsius in 2 minutes. The heater will automatically stop heating and FO will be visible in the display of the heater.

The heater will automatically start heating again after 10 minutes (the display switch from FO to desired room temperature).

Instructions electronic thermostat

Please see table on page 4 for which models that have electronic thermostats

Control panel

See figure 5 on separate illustration sheet

1. Display (shows the desired room temperature by default)
2. Power indicator - shows whether the heater is using power or not
3. Control button (+) (increase temperature)
4. Control button (-) (reduce temperature)
5. Function button

ATTENTION! After a power cut the thermostat will return to the last registered temperature

WARNING! BEFORE THE HEATER IS TURNED ON, IT MUST BE ATTACHED TO A WALL. IF THE HEATER IS NOT INSTALLED CORRECTLY OR IS INSTALLED ASKEW, THIS MAY CAUSE THE HEATER TO MALFUNCTION OR IN THE WORST CASE, BE DAMAGED.



If the temperature sensor is not functioning properly, you will see this symbol on the display. Please contact the dealer or importer.

Power indicator for electronic thermostat

See figure 6 on separate illustration sheet

When the panel heater is using power (i.e. when it is heating), the power indicator is lit .

Set desired temperature for electronic thermostat

See figure 7 on separate illustration sheet

Press the arrow buttons to set the desired temperature.

Instructions day/night thermostat

Please see table on page 4 for which models that have day- and night thermostats.

TIP! The thermostat can be used as a regular electronic thermostat (i.e. the heater will maintain a constant temperature 24 hours a day). Please see the section instructions electronic thermostat for further information.

Control panel

See figure 8 on separate illustration sheet

1. Display (shows the desired room temperature by default)
2. Control light - night function
3. Control light - day function
4. Power indicator - Shows whether the heater is using power or not
5. Control button (+) (Increase temperature)
6. Control button (-) (Reduce temperature)
7. Night function
8. Day function
9. Function button

Power indicator for day/night thermostat

ATTENTION! After a power cut the thermostat will return to the last registered temperature

WARNING! BEFORE THE HEATER IS TURNED ON, IT MUST BE ATTACHED TO A WALL. IF THE HEATER IS NOT INSTALLED CORRECTLY OR IS INSTALLED ASKEW, THIS MAY CAUSE THE HEATER TO MALFUNCTION OR IN THE WORST CASE, BE DAMAGED.



If the temperature sensor is not functioning properly, you will see this symbol on the display. Please contact the dealer or importer.

See figure 9 on separate illustration sheet

When the panel heater is using power (i.e. when it is heating), the power indicator is lit .

Set desired temperature for day/night thermostat

See figure 7 on separate illustration sheet

Press the arrow buttons to set the desired temperature.

Day- and night time setback

When programming the heater for either day- or nighttime setback, the setback period will be active from the time you register the program. Which means; if you want to start your daytime setback at 7.30 am, you need to register the program at 7.30am.

You only need to program the heater 1 time for daytime setback and 1 time for nighttime setback. If you have programmed the heater, the setback programs will be active on all 7 days (or 7 nights).

EXAMPLE:

Let us say you want to program the heater for both daytime- and nighttime setback (normally the heater is set to 23 degrees). You want the heater to do the following:

1. Daytime setback activated from 7.30 am to 2.30 pm. Desired temperature: 17 degrees
2. Nighttime setback activated from 10.00 pm to 6.00 am. Desired temperature: 18 degrees

How to activate daytime setback

See figure 10 on separate illustration sheet

1. Tuesday 7.30 am you go to the heater and press  on the heater's control panel.
2. "d" will be visible in the display. Use the + and - buttons to set what day it is today when you are programming the heater (1= Monday, 2 = Tuesday etc.) You are not programming the heater for the various days. This is simply to tell the heater what day it is when you are programming the heater. Select 2 for Tuesday. Confirm by pressing .
3. "C" will flash in the display. Use the + and - buttons to set 17 as the desired temperature for daytime setback. Confirm by pressing .
4. "H" will flash in the display. Use the + and - buttons to set 7 hours as desired setback period (meaning it will be active from 7.30 am to 2:30 pm). Confirm by pressing .
5. The daytime setback will now be active from 7.30 am to 2:30 pm every day. Setback temperature is 17 degrees.

* Control light  is green when the heater is in an active setback period. The control light is red when the setback period is inactive but programmed.

How to activate nighttime setback

See figure 11 on separate illustration sheet

1. Tuesday 10.00 pm you go to the heater and press  on the heater's control panel.
2. "d" will be visible in the display. Use the + and - buttons to set what day it is today when you are programming the heater (1=Monday, 2 = Tuesday etc.). You are not programming the heater for various days. This is simply to tell the heater what day it is when you are programming the heater. Select 2 for Tuesday. Confirm by pressing .
3. "C" will flash in the display. Use the + and - buttons to set 18 as the desired temperature for nighttime setback. Confirm by pressing .
4. "H" will flash in the display. Use the + and - buttons to set 8 hours as desired setback period (meaning it will be active from 22.00 pm to 6.00 am). Confirm by pressing .
5. The nighttime setback will now be active from 10.00 pm to 6.00 am every day. The setback temperature is 18 degrees.

* Control light  is green when the heater is in an active setback period. The control light is red when the setback period is inactive but programmed.

N.B! If a power cut occurs/you turn off the heater, the programming will be lost and you will have to do this over again.

Advanced mode

If you want to have different temperature settings each day, you may use advanced mode. To activate advanced mode you need to activate day and night setback first.

See figure 18 on separate illustration sheet.

How to activate advanced mode for daytime setback:

1. Press and hold , then press + one time.
2. "d1" (day one) will be visible in the display, and you may now choose the temperature you want for Monday. Confirm by pressing .
3. "°C" will flash in the display. Use the + and - buttons to set the temperature for daytime setback. Confirm by pressing .
4. "H" will flash in the display. Use the + and - buttons to set the number of hours as desired setback period. Confirm by pressing .
5. "SR" will be visible in the display. Now you have the option to set the time of day that you want the setback time to start. You may choose from -4 hours to +4 from the time your daytime setback normally starts. Meaning, if your daytime setback normally starts at 10:30, but you want the setback time to be activated 08:30 every Monday, you may use the - button to set "-2" (hours). Confirm by pressing .
6. "d2" (day 2) which is Tuesday, will now be visible in the display and you may do the same procedure to set the desired temperature for Tuesday. Keep repeating the same procedure for all 7 days.



How to activate advanced mode for nighttime setback:

1. Press and hold , then press + one time.
2. "d1" (day one) will be visible in the display, and you may now choose the temperature you want for Monday night. Confirm by pressing .
3. "°C" will flash in the display. Use the + and - buttons to set the temperature for nighttime setback. Confirm by pressing .
4. "H" will flash in the display. Use the plus and minus buttons to set the number of hours as desired setback period. Confirm by pressing .
5. "SR" will be visible in the display. Now you have the option to set the time of night that you want the setback time to start. You may choose from -4 hours to +4 hours from the time your nighttime setback normally starts. Meaning, if your nighttime setback normally starts at 22:00, but you want the setback time to be activated 21:00 every Monday, you may use the - button to set "-1" (hour). Confirm by pressing .
6. "d2" (day 2) will now be visible in the display and you may do the same procedure to set the desired temperature for Tuesday. Keep repeating the same procedure for all 7 days.

Change setback temperature – daytime

See figure 12 on separate illustration sheet

Press and hold and press 3 times.

Enter the desired temperature for daytime setback. Save by pressing or wait for 15 seconds for automatic confirmation.

Change setback temperature – nighttime

See figure 13 on separate illustration sheet

Press and hold and press 3 times.

Enter the desired temperature for daytime setback. Save by pressing or wait for 15 seconds for automatic confirmation..

Change number of hours – daytime

See figure 14 on separate illustration sheet

Press and hold and press 2 times.

Enter the desired number of hours for nighttime setback. Save by pressing or wait for 15 seconds for automatic confirmation.

Change number of hours – nighttime

See figure 15 on separate illustration sheet

Press and hold and press 2 times.

Enter the desired number of hours for nighttime setback. Save by pressing or wait for 15 seconds for automatic confirmation.

Cancel (skip) setback period

See figure 16 on separate illustration sheet

Press and hold and press or once (depending on which setback period you want to cancel).

*** The heater will skip an active setback period or the next setback period.**

*** During the next setback period, the heater will automatically resume the programmed temperature reduction.**

Delete a setback program

See figure 17 on separate illustration sheet

Press and hold or (depending on which setback period you want to cancel) for 3 seconds.

Maintenance

1. For cleaning, always unplug the heater and leave it to cool.
 2. Wipe the heater regularly with a damp cloth and dry the surface before turning on the heater again.
 3. The heater must be cleaned at least once a month during the heating season.
- CAUTION! The heater should never be immersed in water.**
Avoid using detergents to clean the heater.
Never let any water get inside the heater; this can be hazardous.
4. Dust etc. should be removed with a soft cloth.
 5. The heater can be stored in a dry and clean place.
 6. If the heater stops working, do not attempt to repair it yourself because it can cause a fire hazard and/or electric shock.

Warranty

Mill offers consumers 5 years warranty for any Mill product from date of purchase by a consumer. For business customers, a warranty period of 2 years will apply (applicable in case the end-users are businesses).

This warranty provides the customer with a right to, at Mill's reasonable discretion, either repair, replacement of a defected product, or alternatively a refund.

- The warranty only covers defects that originates from Mill. The customer will therefore not have a valid warranty claim if the defect is a result of circumstances such as the following:
- Negligent use, misuse, neglect, or careless operation of the product not in accordance with the Mill user manual.
- Defects caused by transport incurred outside Mill's responsibility.
- Normal wear and tear, including parts that might wear out over time as for example batteries for remote controls (if applicable), filters, tubes, and lamps for outdoor heating etc.

- Damage because of use not in accordance with the rated power and Hz.
- Damage caused by inadequate product maintenance.
- Damage from electrical outages, power surges and/or weather.
- Damage as the result of not installing or assembling the product in accordance with the Mill user manual.
- Use of parts and accessories, i.e., filter, which are not official Mill certified components.
- Repairs or alterations carried out by parties other than Mill or its authorized agents.
- Minor deviations from the stated quality that are insignificant for the value and soundness of the product or deviations that the customer could reasonably expect.
- Devices used with third-party software or equipment.
- Software and connectivity issues due to local restrictions in accessing our cloud services.
- Software and connectivity issues due to non-supported third-party devices.
- App or cloud/online service downtime does not fall under warranty.

Mill must provide evidence that the product's damage has not existed when the product was sold to the customer within the first year after the purchase.

For the avoidance of doubt, this warranty does not provide the customer or any third party with any right to damages, compensation nor price reduction of any kind. Mill will not have any obligation under this warranty to cover any losses incurred by the customer or any third party.

These warranty terms are only valid for customers, who purchase products through authorized Mill resellers.

The customer's rights and remedies pursuant to applicable mandatory law will not be limited nor affected by this warranty.

The seller will handle the warranty claim on behalf of Mill. To make a claim under this warranty, an end-consumer has to follow the steps described below.

Claims Process / Required Documentation

1. Contact the Mill Authorised Reseller where you purchased the product. Bring your original receipt for the purchase, serial number of the product, and the faulty product.
2. The Mill Authorised Reseller tests the product and evaluates if the claim is covered by the end-consumer warranty.
3. If the claim is covered by the warranty, the Mill Authorised Reseller, in accordance with instructions from Mill and based on consumer law, decides whether to repair, replace or refund the product.



Waste disposal

The symbol  indicates that this product is not to be disposed of together with household waste. This product must be delivered to a recycling service or container for electrical appliances and electronic equipment. This is done to avoid health risks and prevent harm to the environment. Local businesses (or the environmental station in your neighborhood) are required by law to accept and recycle such products, as a means of environmentally sound disposal.

