

BRAUN

Forehead
Thermometer



BFH175

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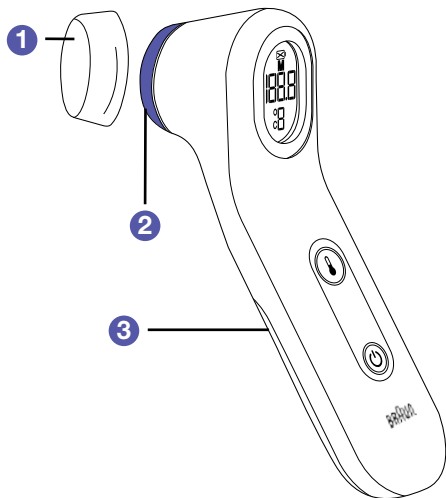
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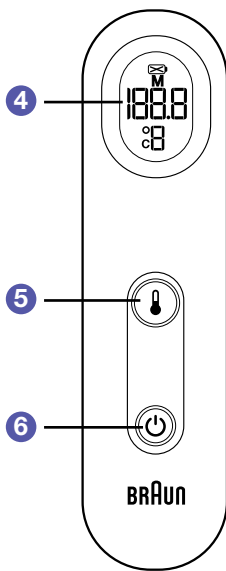
Patents: www.kaz.com/patents/braun

Made in China

A005442R0
29SEP20



- 1 Protective scanner cap
- 2 Scanner
- 3 Battery door



Thank you for purchasing the Braun Forehead thermometer (BFH175). The Forehead thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, the Forehead thermometer can provide a stable, heat-interference-free reading with each measurement. The instrument performs a self-test every time it is switched on to always guarantee the accuracy of measurements.

Please read these instructions carefully before using this product and keep the instructions and the thermometer in a safe place.

Indications for Use

The Braun BFH175 Forehead thermometer is a non-sterile, reusable, clinical thermometer intended for the intermittent determination of human body temperature in a touch mode using the center of the forehead as the measurement site on people of all ages.



WARNINGS AND PRECAUTIONS

NEVER use the thermometer for purposes other than those it has been intended for. Please follow the general safety precautions when using on children.

NEVER immerse the thermometer into water or other liquids (not waterproof). For cleaning and disinfecting please follow the instructions in the “Care and cleaning” section.

DO NOT store this thermometer in temperature extremes below $-25\text{ }^{\circ}\text{C}$ or over $55\text{ }^{\circ}\text{C}$ (below $-13\text{ }^{\circ}\text{F}$ or over $131\text{ }^{\circ}\text{F}$) or in excessive humidity (above 95% non-condensing relative humidity).

If thermometer is stored in a location that is cooler or warmer than where it will be used, allow it to acclimate to the room temperature for 10 minutes before taking the measurement.

DO NOT use the thermometer if there are signs of damage on the scanner or on the thermometer itself. If damaged, **DO NOT** attempt to repair the product.

NEVER insert a sharp object into the scanner area or any other open surface on the thermometer.

This thermometer consists of high-quality precision parts. **DO NOT** drop the instrument. Protect it from severe impact and shock. **DO NOT** twist the instrument or the measuring sensor.

This thermometer is intended for household use only.

Use of this thermometer is not intended as a substitute for consultation with your physician.

Temperature elevation may signal a serious illness, especially in adults who are old, frail, have a weakened immune system, or in neonates and infants. Please seek immediate professional advice when a temperature elevation occurs on persons whom are:

- Neonates and infants under 3 months (Consult your physician immediately if the temperature exceeds 37.4 °C (99.4 °F))
- Individuals over 60 years of age (Fever may be blunted or absent in older individuals)
- Individuals having diabetes mellitus or a weakened immune system (e.g., HIV positive, cancer chemotherapy, chronic immunosuppressant treatment, splenectomy)
- Individuals who are bedridden (e.g., nursing home patient, stroke, chronic illness, surgical recovery, paraplegia, quadriplegia)
- A transplant recipient (e.g., liver, heart, lung, kidney)

It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. Take multiple readings when healthy to determine normal temperature.

This thermometer is not intended for pre-term babies or small-for-gestational-age babies. Pre-term is defined as babies with a calendar age of less than 37 weeks. Small-for-gestational-age is defined as a baby born at 37 weeks or later, with a weight below the 10th percentile for babies of the same gestational age.

This thermometer is not intended to interpret hypothermic temperatures. If the device displays a temperature of 36.4°C (97.5°F) or less with an LED backlight color of green or white, and the individual is exhibiting atypical symptoms or behaviors, contact your physician or health care professional.

DO NOT allow children to take their temperatures unattended.

Please consult your physician if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.

Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.

DO NOT modify this equipment without the authorization of the manufacturer.

Why use the Braun Forehead thermometer?

Measurement in less than 2 seconds

The innovative infrared technology allows measurement of forehead temperature in under 2 seconds.

Accurate and reliable

Due to advanced technology, the Forehead thermometer captures the heat naturally given off by the forehead to calculate oral equivalent temperature

Easy to use

The Forehead thermometer poses less risk. A measurement can be taken even while a child is sleeping.

Design is easy to hold and use.

The Forehead thermometer is safer to use on a child than a rectal thermometer and is easier to use than other methods.

Safe and hygienic

Helps minimize spreading of germs.

Completely safe for use on children and adults.

Auto-Display memory

The last reading is automatically displayed for 2 seconds when the unit is switched ON.



How the Braun Forehead thermometer works

The Forehead thermometer measures infrared energy radiated from the skin and surrounding tissue on the center of the forehead. Temperature readings obtained from the center of the forehead will provide the greatest accuracy with this thermometer. The Forehead thermometer has been clinically tested and proven to be safe and accurate when used in accordance with its operating instruction manual. Normal temperature is a range. The range of normal also varies from person to person and fluctuates throughout the day. It is therefore important to determine your normal temperature range. A person's normal temperature range tends to decrease with age.

The best way to determine your normal temperature range is to use the thermometer when feeling well. Record readings twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate normal oral equivalent temperature.

A child's normal temperature can be as high as 37.7°C or as low as 36.1°C. Re-measure with a standard digital thermometer for confirmation, especially on infants.

Temperature guidance feature

Temperature guidance helps you to better understand the meaning of your child's temperature with the color indicated on the display. The color-coded screen displays GREEN for a normal temperature, YELLOW for a fever, and RED for a high fever.

Color range	Reading
Green	35.8 - 37.4 °C (96.4 - 99.4 °F)
Yellow	>37.4 - 38.5 °C (>99.4 - 101.3 °F)
Red	>38.5 °C (>101.3 °F)

Temperature taking hints

It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. Take multiple readings when healthy to determine normal temperature. Re-measure with a standard digital thermometer for confirmation. This thermometer displays an oral equivalent temperature reading. Oral readings are approximately 0.5 °C (0.9 °F) lower than a rectal digital measurement. Individual must be inside for 30 minutes before taking a measurement.

Note: Individual and the thermometer should be in the same ambient temperature for at least 10 minutes.

ALWAYS hold the thermometer and the forehead steady when taking a reading.
DO NOT move the thermometer until you hear the final beep.

DO NOT take a measurement while or immediately after nursing a baby. Individuals should not drink, eat, or be physically active before/while taking the measurement. Remove hats and wait 10 minutes before taking a measurement. Before taking a measurement, remove dirt or hair from the forehead area. Wait 10 minutes after cleaning before taking measurement.

ALWAYS take the temperature exactly as directed. Temperature results may vary if positioned in the wrong location.

Temperature taking hints (continued)

In the following situations it is recommended that three temperatures in the same location be taken and the highest one taken as the reading:

- Newborn infants in their first 100 days of life.
- Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
- When the user is learning how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.

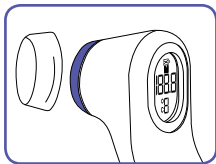
General precautions:

- Remove any sweat prior to measuring with a dry cloth.
- Avoid any cooling or warming cloths on the forehead for at least 30 minutes prior to measuring.
- **DO NOT** take temperature measurements over scar tissue, open sores, or abrasions.
- Keep the measurement sensor and lens clean. Avoid directly touching the sensor or lens.
- **ALWAYS** store the thermometer with the protective cap in place to prevent dirt and scratches from damaging the device.
- Make sure to remove the protective cap before taking a measurement and to put the cap back on after using the thermometer.

First time use

Insert 2 AAA batteries (see “Replacing the batteries” for instructions).
Remove 37.0 °C label from display.

1 Remove cap



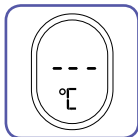
2 Power on

Press and release the power button once.
Backlight will come on and the warm up sequence starts.



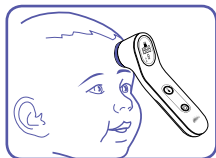
3 Ready

When the device displays three dashed lines --- it is ready to take a temperature.



4 Position

Position the thermometer in the center of the forehead, just above and between the eyebrows. Be sure to hold the thermometer flush against the forehead. It is important to hold the thermometer and the forehead steady during measurement. Movement will impact the temperature reading.



If the forehead area is covered with hair, sweat, or dirt, please remove the hair or clean the area, and then wait 10 minutes before taking a temperature measurement. **In addition, the thermometer should be in the same ambient temperature as the individual for 10 minutes** before taking a temperature measurement.

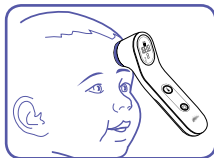
NOTE: **ALWAYS** remove the protective cap before taking a temperature reading.

5 Take temperature

Press the “Temperature button” and hold thermometer steady on the center of the forehead. Be sure to hold the thermometer flush against the forehead for the duration of the measurement.

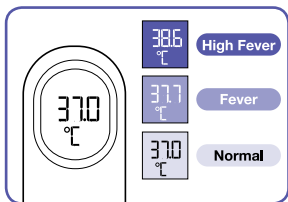


When the temperature button is pressed a dashed line animation will appear on the screen. **DO NOT** remove thermometer from forehead until you hear a long beep indicating normal temperature range or 10 short beeps indicating fever.



6 Read temperature

At the confirmation beep, remove the thermometer from the forehead and read the temperature. The screen will illuminate the appropriate color for the temperature reading. Green for normal temperatures, yellow for fever, and red for high fever.



Go to step 3.

7 To turn off

Press the power button. To conserve battery power, the unit will automatically shut down after 30 seconds of no use.



Memory mode

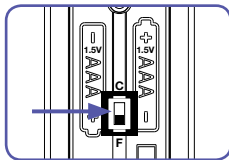
The Braun Forehead thermometer includes a memory feature to recall the last temperature reading. The last temperature taken is stored in its memory and will be automatically displayed for 2 seconds when it is turned on.

Changing the temperature scale

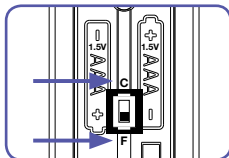
- 1 Open battery compartment and remove the batteries.



- 2 C/F switch is found in the center of the battery compartment.



- 3 Slide switch to C or F to set preferred temperature scale.



- 4 Replace the batteries and close the battery door.

- 5 Device will take measurements in the new temperature scale upon start up.

Calibration

The thermometer is initially calibrated at the time of manufacture. If this thermometer is used according to the use instructions, periodic re-adjustment is not required. If at any time you question the accuracy of temperature measurements, please contact Consumer Relations.

Care and cleaning

To avoid scratching the surface of the scanner, replace the protective cap after each use. The thermometer should be cleaned between uses. Use an alcohol swab or a cotton swab moistened with alcohol (70% Isopropyl) to wipe the thermometer casing and measuring probe for 90 seconds. Wait 10 minutes, allowing the thermometer to air-dry, before taking a measurement. Ensure that no liquid enters the interior of the thermometer. **NEVER** use abrasive cleaning agents, thinners, or benzene for cleaning, and **NEVER** immerse the thermometer in water or other cleaning liquids.



Replacing the batteries

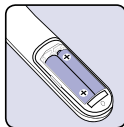
The Forehead thermometer comes with 2 AAA batteries.

To install the batteries, slide open the battery door as shown. Insert 2 AAA batteries, correctly positioning with positive “+” and negative “-” as shown. Replace the battery door and close securely.

Replace the batteries when the flashing battery symbol appears on the LCD screen.



Dispose of batteries according to local waste management directions.

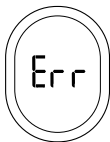


Errors and troubleshooting

Error message

Situation

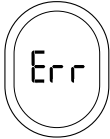
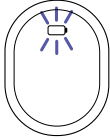
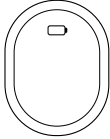
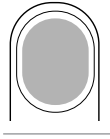

Solution



Error symbol: during taking measurement

A “Err” sign appears when the temperature measured is BELOW 34.0 °C or 93.2 °F or ABOVE 43.0 °C or 109.4 °F

When you receive this symbol, press the power button to reset the thermometer before taking a new measurement.

Error message	Situation	Solution
	When ambient temperature is too high or too low to take an accurate reading, device will provide an "Err" message. The error message will appear after start up and memory recall.	When you receive this symbol, press the power button to reset the thermometer before taking a new measurement. If the ambient temperature is not within the allowed range of 15°C-40°C or 59°F-104°F, you will not be able to take a reading.
	Low battery When 20% of battery life is left, the display FLASHES the low battery warning symbol, however, the device can still work until the battery life has 0% left.	See "Replacing the batteries" for instructions.
	Dead battery indication If the steady battery icon is the only symbol shown on the display, the device can not work.	See "Replacing the batteries" for instructions.
	Blank display Thermometer does not have power.	Please check if the batteries have been loaded correctly. Also check polarity (<+> and <->) of batteries.
	All segments flashing System error-self-check display flashes continuously and will not be followed by the ready beep and the ready symbol. If error persists, If error still persists,	Wait 1 minute until the thermometer turns off automatically, then turn on again. ...reset the thermometer by re-moving the batteries and putting them back in. ...please contact consumer relations.

Limited warranty

You should first read all Instructions before attempting to use this product.

This product comes with limited warranty commencing on the date of purchase (See warranty card for details). Within the warranty period we will eliminate, free of charge, any defects in the appliance resulting from faults in materials or workmanship, by replacing the complete appliance. This warranty is applicable only for the appliance supplied by the appointed distributor. This warranty does not cover: damage due to improper use, normal wear or use as well as defects that have a negligible effect on the value or operation of the appliance. The warranty becomes void if repairs are undertaken by unauthorized persons and if original Braun parts are not used.

NOTE: IF YOU EXPERIENCE A PROBLEM, PLEASE CONTACT CONSUMER RELATIONS FIRST OR SEE YOUR WARRANTY. DO NOT RETURN THE PRODUCT TO THE ORIGINAL PLACE OF PURCHASE. DO NOT ATTEMPT TO OPEN THE DEVICE HOUSING, DOING SO MAY VOID YOUR WARRANTY AND CAUSE DAMAGE TO THE PRODUCT OR PERSONAL INJURY.

Product specifications

Type:	BFH175 Infrared Forehead Thermometer
Measuring range:	34 °C – 43 °C (93.2 °F – 109.4 °F)
Resolution:	0.1 °C (0.1 °F)
Accuracy (Laboratory):	0.2 °C for 35 °C – 42 °C (0.4 °F for 95 °F – 107.6 °F) outside that range ± 0.3 °C/0.5 °F (Ambient temperature: 15 °C to 40 °C (59 °F to 104 °F) This thermometer displays a calculated oral equivalent estimate.
Display:	Liquid Crystal Display, 4 digits plus special icons
Acoustic:	Audio: Normal temp range=1 long beep for 0.4 second duration Fever=10 short beeps for 0.2 second duration
Operating temperature:	15 °C – 40 °C (59 °F – 104 °F)
Automatic Switch-off:	Approx. 30 seconds after last measurement has been taken
Weight:	94 g. (with batteries), 71 g. (without batteries)
Long term storage ranges	
Storage/transport temperature:	-25 °C – 55 °C (-13 °F – 131 °F)
Humidity:	15–95% non condensing
Battery:	(2) AAA Batteries - at least 500 measurements
Pressure:	70kPa-106kPa(0.7atm-1.06atm)

This thermometer is an adjusted mode thermometer that provides an oral equivalent reading.

This infrared thermometer meets requirements established in ASTM Standard E 1965-98 (for the thermometer system). Full responsibility for the conformance of the product to the standard is assumed by Kaz USA, Inc., a Helen of Troy Company, Health & Home, 400 Donald Lynch Blvd., Suite 300, Marlborough, MA 01752

ASTM laboratory accuracy requirements, for the thermometer only in the display range of 36 °C to 39 °C (96.8 °F to 102.2 °F) for infrared thermometers is ± 0.3 °C (± 0.5 °F), whereas for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E 667-86 and E 1112-86 is ± 0.1 °C (± 0.2 °F).

This device conforms to the following standards:

EN 60601-1:2014 Medical electrical equipment. General requirements for basic safety and essential performance

ISO 80601-2-56:2017 Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement

ASTM E1965-98:2016 - Standard Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature

IEC 60601-1-2:2014: Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic compatibility – Requirement and tests

NOTE: **DO NOT** use this device in the presence of electromagnetic or other interference outside the normal range specified in IEC 60601-1-2.

ISO 15223-1:2016: Symbols for use in labeling of medical devices

EN 1041: 2008 Information supplied by the manufacturer of medical devices

IEC 60601-1-11:2015 Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment



Equipment with type BF applied parts



Keep it dry



Operating temperature



Storage temperature



See instruction for use

Internally Powered Equipment

Continuous Operation

IP22: Protected against solid foreign objects greater than 12.5 mm in diameter and dripping water when tilted at 15°

MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC.

For detailed description of EMC requirements please contact Consumer Relations.

Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.

Remove the battery from the instrument if it is not required for extended periods of time in order to avoid damage to the thermometer resulting from a leaking battery.



Please do not dispose of the product in the household waste at the end of its useful life.



To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.

Guidance and manufacturer's declaration – electromagnetic immunity

The BFH175 is intended for use in the electromagnetic environment specified below. The customer or the user of the BFH175 should ensure that it is used in such an environment.

Phenomenon	Basic EMC standard or test method	IMMUNITY TEST LEVELS
		HOME HEALTHCARE ENVIRONMENT
ELECTROSTATIC DISCHARGE	IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air
Radiated RF EM fields ^{a)}	IEC 61000-4-3	10 V/m ^{f)} 80 MHz – 2,7 GHz ^{b)} 80 % AM at 1 kHz ^{c)}
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See RF wireless communication equipment immunity table below
RATED power frequency magnetic fields ^{d) e)}	IEC 61000-4-8	30 A/m ^{g)} 50 Hz or 60 Hz

^{a)} The interface between the PATIENT physiological signal simulation, if used, and the ME EQUIPMENT or ME SYSTEM shall be located within 0,1 m of the vertical plane of the uniform field area in one orientation of the ME EQUIPMENT or ME SYSTEM.

^{b)} ME EQUIPMENT and ME SYSTEMS that intentionally receive RF electromagnetic energy for the purpose of their operation shall be tested at the frequency of reception. Testing may be performed at other modulation frequencies identified by the RISK MANAGEMENT PROCESS. This test assesses the BASIC SAFETY and ESSENTIAL PERFORMANCE of an intentional receiver when an ambient signal is in the passband. It is understood that the receiver might not achieve normal reception during the test.

^{c)} Testing may be performed at other modulation frequencies identified by the RISK MANAGEMENT PROCESS.

^{d)} Applies only to ME EQUIPMENT and ME SYSTEMS with magnetically sensitive components or circuitry.

^{e)} During the test, the ME EQUIPMENT or ME SYSTEM may be powered at any NOMINAL input voltage, but with the same frequency as the test signal (see Table 1).

^{f)} Before modulation is applied.

^{g)} This test level assumes a minimum distance between the ME EQUIPMENT or ME SYSTEM and sources of power frequency magnetic field of at least 15 cm. If the RISK ANALYSIS shows that the ME EQUIPMENT or ME SYSTEM will be used closer than 15 cm to sources of power frequency magnetic field, the IMMUNITY TEST LEVEL shall be adjusted as appropriate for the minimum expected distance.

Guidance and manufacturer's declaration – electromagnetic emissions

The BFH175 equipment is intended for use in the electromagnetic environment specified below. The customer or the user of the BFH175 should ensure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic environment – guidance
RF Emissions CISPR 11	Group 1	The ME equipment uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	Complies
Harmonic emissions IEC 61000-3-2	Not Applicable	The ME equipment is solely battery powered.
Voltage fluctuations/ flicker emissions	Not Applicable	

Guidance and manufacturer's declaration – RF wireless communication equipment immunity

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	380 – 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	1,8	0,3	27
450	430 – 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	2	0,3	28
710	704 – 787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
745						
780						
810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	2	0,3	28
870						
930						
1 720	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation ^{b)} 217 Hz	2	0,3	28
1 845						
1 970						
2 450	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0,3	28
5 240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
5 500						
5 785						

a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

