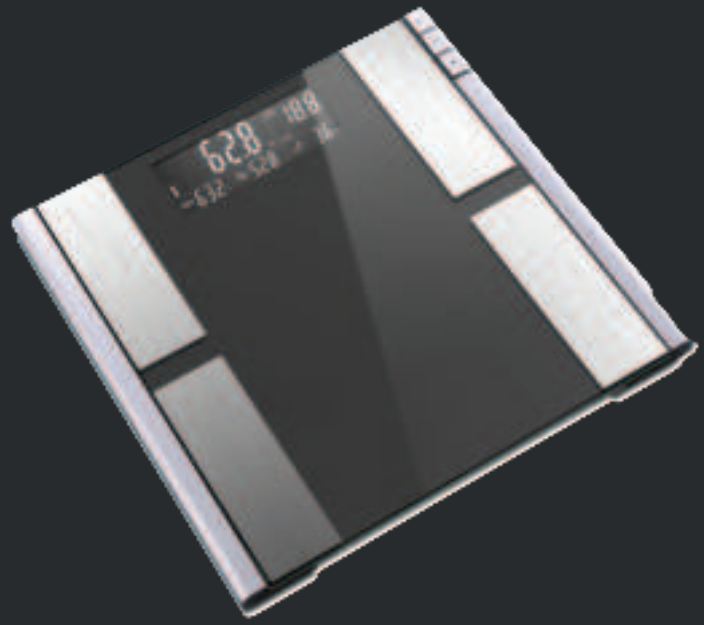
# User Manual Version 1

## Body Fat Scale GBF-830-M



- Thank you for choosing the Body Fat Scale GBF-830-M.
- To get the most of this product and ensure safety, read this user manual before use and follow the instructions carefully. Please store this manual in a safe and secure place for future reference.

**extracovercare@gmail.com** (contact us 24/7!)

**+1 (800) 460-2215** (Mon-Fri 8am-6pm PST)

**Our trained staff will be happy to answer all of your questions!**

Distributed by:
Trade Guru Inc.
25 Wellington Ave Apt 2,
Mundelein, IL 60060 US

Designed in USA
Assembled in PRC

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## Safety and Usage Information

Knowledge of the warning signs and symbols is crucial to the safe and proper use of this device. Kindly get informed on the following signs and symbols which you might encounter within this manual or on the label:

| | | | |
|---|---|---|---|
| | THE USER MANUAL MUST BE READ | | Manufacturer |
| | Type-BF Applied Parts | | Manufacturing Date |
| SN | Serial Number | | ENVIRONMENT PROTECTION - Electrical waste materials should NOT be disposed of with household waste. Kindly recycle at appropriate facilities, if available, and refer to local ordinances and regulations on the disposal of this waste. |
| | Direct Current | | |
| | Caution: these notes must be observed to prevent any damage to the device. | | Recycle |

### CAUTION

The Glass Body Fat Analyzer GBF-830-M offers its users a seamlessly easy way to manage and keep track of their health. Kindly note that this device is intended for healthy persons over the age of 10 ONLY.
This device is in no way intended as a treatment, cure, or pre-prophylaxis for any disease or ailment. Kindly contact your physician for more related information.
Please note: The use of cables, transducers, or accessories other than those provided, except transducers and cables sold by the manufacturer as replacement parts for internal components, may result in increased EMISSIONS and decreased IMMUNITY of the device.
Nearby portable and mobile RF-communications equipment can affect the performance of the Glass Body Fat Analyzer.
Kindly use this device according to the user manual. Any misuse of this device can cause electric shock, burns, fire, and other hazards. Do not use this device in flammable gas environments.
Do not use the analyzer adjacent to or stacked with other equipment.
The manufacturer will make available on request circuit diagrams, components list, etc. WARNING: Modifications to this device are NOT permitted.
While using the analyzer, the patient should remain in steady contact with the surface of the electrodes till measurement is complete.
The platform and the analyzer's electrode are type BF Applied parts.
This device does not need to be recalibrated till after five years.
Do not touch the batteries while using the analyzer.

The patient is an intended operator and can perform all the manual-stated operations, such as measurement and changing batteries.

## Overview

The Body Fat Analyzer measures several key components of your weight: body weight, body fat, total body water percentage, BMI, muscle mass, and bone mass via the bioelectrical impedance analysis (BIA) technology.

The BIA technology is safe, noninvasive, toxic-free, and easy to use. It possesses the characteristics of a simple operation with comprehensive information.





**INDICATIONS FOR USE**

- This device is designed to evaluate body weight, body fat, BMI, total body water percentage, muscle mass, and bone mass in generally healthy children between ages 10-17 and adults. It is suitable for home use ONLY.

**CONTRAINDICATIONS**

1) This device is not intended for use on pregnant or suspected pregnant women. Besides the possibility of obtaining inaccurate results, the effect of this device on the fetus is unknown. Thus, (suspected) pregnant women should contact their doctor before using this device.
2) This device should not be used on any person connected to a wearable or implantable electronic device or instrument, such as a pacemaker or defibrillator.
3) This device should not be used on anyone who is chronically ill, especially of diseases, or on medications that might affect their water levels.

## Your Scale and Its Environment

**To ensure your safety, as well as the full-service life of your scale, kindly avoid using the scale under the following situations:**

- Slippery floors, such as tiles.
- Immediately after a bath or with wet hands.
- Near a cell phone or a microwave.
- This device is designed for use in the home healthcare environment
- This device is not intended for use in an oxygen rich environment.

**Avoid storing this device in the following locations:**

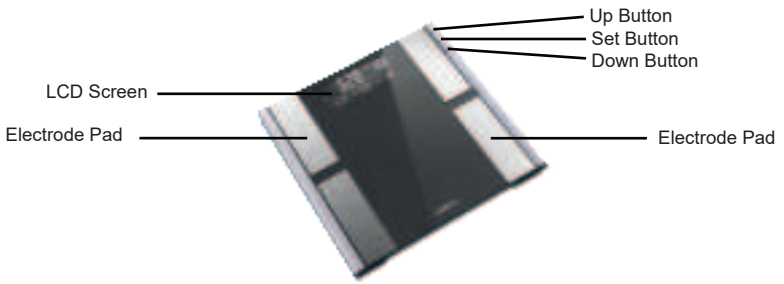
- On wet surfaces.
- Under extreme conditions, such as excess temperature, heat, humidity, dust, salty air, etc.
- Where there is a risk of shock or drop.
- In locations of chemicals or corrosive gases.
- Within children's reach.

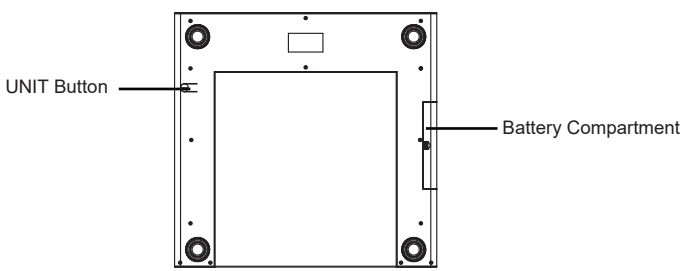
## USING THE SCALE

**To ensure accurate measurements, kindly adhere to the following instructions:**

- The device should be used on a flat, hard surface. Carpeted or flat surfaces may influence measurement values.
- Gently step onto the device and remain still with your feet firmly on the electrode plates till measurement is complete.
- Measurement should be done before or at least two hours after extreme physical activities or meals.
- Avoid taking measurements immediately after strenuous activities, being in a sauna or bath, or drinking or dining.
- For maximum accuracy and consistent results, always conduct follow-up measurements within the same time frame and on the same scale placed on the same hard, flat surface.
- The condition of the bottom of your feet might affect the measurement. Readings are best taken with clean, slightly damp feet.

## Product Outline



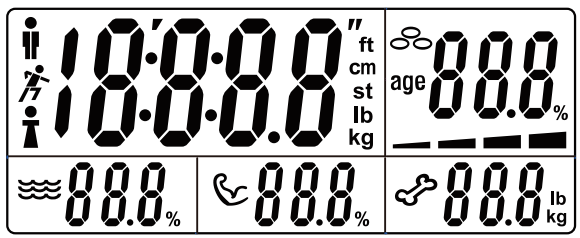

## In-box Content

1. x1 Body Fat Scale
2. x4 1.5V AAA Batteries
3. x1 User Manual





## Display Outline




| | | | |
|---|---|---|---|
| | Body Fat Percentage | | Male |
| | Total Body Water Percentage | | Male Athlete |
| | Muscle Mass Percentage | | Female |
| | Bone Mass Percentage | | Female Athlete |
| st lb | Stone | % | Percentage |
| lb | Pound | ft | Foot |
| kg | Kilogram | cm | Centimeter |
| age | Age | ----- | Body Fat Indicator Level |

## OPERATION PRINCIPLE

The Body Analyzer uses BIA technology which passes a small amount of weak current through the body to estimate body fat mass, muscle mass, total body water, and other weight components.

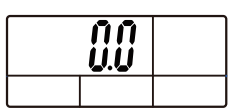
Contact with the body is made via the stainless steel pads (electrodes) on the scale.

The scale simultaneously calculates your body fat percentage, total body water percentage, bone mass, and muscle mass while measuring your body weight, for a more accurate reading of your overall health and fitness.

## GETTING STARTED

### Preparing Your Body Analyzer

- Open the battery compartment on the underside of the scale.
- Correctly - in the right polarities, insert the batteries (x4 AAA) into the battery compartment.
- Close the battery compartment.
- Wait until the digits “0.0” are displayed on the LCD screen.
- Press the “Unit” button on the underside of the scale to select the desired measurement unit; either pound, kilogram, or stone. The default measurement unit is the kilogram (kg).




**CAUTION**

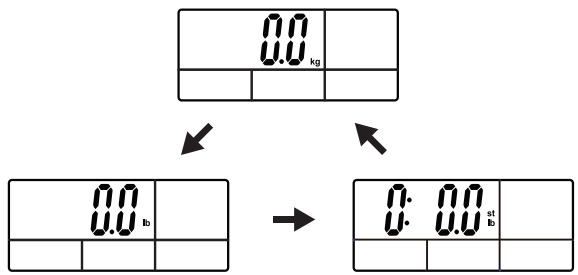
- When the symbol “Lo” appears, the device will power off after about 4s. Then you shall replace with a new set of batteries. Please replace all four batteries at the same time. Do NOT mix the old batteries with the new one.
- Worn batteries are hazardous waste. Do NOT dispose of them together with the household garbage.
- Please refer to the local ordinances and recycling instructions regarding disposal of the worn batteries and scrapped device.
- If you do not intend to use this unit for a prolonged period of time, it is advisable to remove the batteries before storing.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc) batteries.
- At least 2 hours required for the device to warm / cool from the minimum / maximum storage temperaure between uses until it is ready for intended use when the ambient temperature is 20°C.





## Select Measurement Unit

With batteries correctly installed, press “UNIT” button in the back of the scale to select measurement unit. The default measurement unit is “kg”. You may press “UNIT” button to choose among kilogram, pound, and stone.



## Setting Up your Profile

To create your User ID and include relevant biodata; like age, gender, and height, kindly take the following steps:

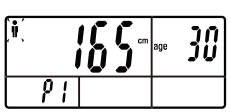
### 1. USER ID

- With the batteries correctly positioned and the scale powered off, single-press the “Set” button. This will prompt a User ID selection request, from which you can cycle through and select any ID from “P1 - P8” using the “up” and “down” button, as pictured below.
- Single-press “Set” again to confirm your selection.




### 2. GENDER

- After confirming User ID selection, the system will automatically direct to the “gender settings.”
- As pictured below, the icon “ ” blinks, and you can cycle through and select from the options: female/male/female athlete/ male athlete using the “up” and “down” function key.
- Single-press “Set” to confirm your selection.



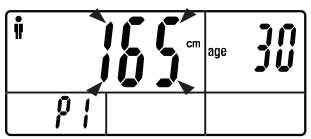

**Athlete Mode:**
An athlete is defined as a person involved in intense physical activity of approximately 12 hours per week and with a resting heart rate of approximately 60 beats per minute or less.





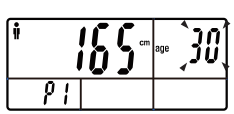
### 3. HEIGHT

- After confirming Gender, the system will automatically direct to the “height settings.”
- As pictured below, the digits “165” blinks and you can then use the function keys “up” or “down” to increase or decrease the numeral according to your height.
  Note: The Stature Setting ranges from 100 cm to 220 cm/3’3.5 ft to 7’2.5 ft.
- You may long-press on either of the function keys “up” or “down” to scroll rapidly through the numerals.
- Single-press “Set” to confirm your selection.

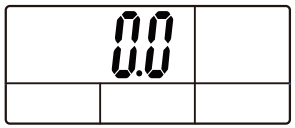



### 4. AGE

- After confirming Height, the system will automatically direct to the “age settings.”
- As pictured below, the digits “30” blinks and you can then use the function keys “up” or “down” to increase or decrease the numeral to your age.
  Note: The Age Setting for Normal Mode ranges from 10 to 85 years old.
  The Age Setting for Athlete Mode ranges from 15 to 85 years old.
- You may long-press on either of the function keys “up” or “down” to scroll rapidly through the numerals.
- Single-press “Set” to confirm your selection.



Once all is complete, the display will show “0.0” before powering off. The user settings are now saved.




Repeat procedure for a second user or to change user details.

Note: To update or overwrite the set data, follow the same procedure, making changes as required.

## Initializing Your Scale

On the first use and every time the scale is moved to a new platform/environment, it will need to be initialized/re-initialized to ensure accurate measurement.




Take the following steps to initialize the scale:

Place the scale on a flat, hard surface.
Press down with your feet on the center of the platform and take off your feet.
The LCD screen should display “0.0”
Once the screen powers off, initialization is complete, and the scale is ready for use.

From this point, simply step and position yourself correctly on the scale to take measurements.





## For Weight-Only Measurement

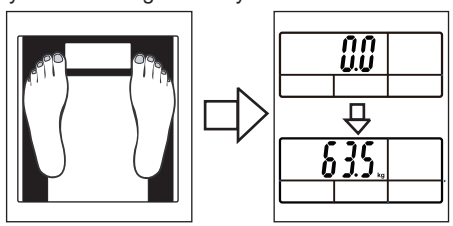
To use the device as a conventional weight scale, no special programming is needed. Once the scale is initialized, simply position yourself appropriately on the scale to measure your current weight.

Note:

1. The scale should be placed on a flat, hard surface.
Soft, uneven, or carpeted floors may affect reading accuracy.

2. Ensure you remain still while the scale computes your measurement.

3. After the scale displays your weight value, it will automatically turn off in a few seconds.




## For your First Measurement

• Position the scale on a flat, hard surface and single-press the “Set” button to select your User ID.
• Using the “up” or “down” button, cycle through and select the ID that identifies as you.
• Once the selected number is locked in, the screen will display “0.0”
• Now, gently step on the scale with your bare feet, ensuring your feet are in good contact with the stainless steel pads (electrodes) on the platform.
• Stand still and remain on the scale until the complete readout is displayed as indicated by full values instead of the moving “0” on the screen.
• Your weight is displayed first, followed by body fat percentage, body water percentage, muscle mass percentage, and bone density measurements, and personal parameters settings after 2-3 seconds.



• You can now step off the scale. The measurement will remain displayed on the screen for 10 seconds, after which the device will power off.

Note: If the device fails to complete the analysis, only the weight data will be displayed. (Kindly consult the Error and Troubleshooting section for solutions).

## For Every Other Measurement

• Ensure the scale is on a hard, flat surface and has been initialized.

• The GBF-830-M uses an original SENSE ON patent technology with automatic user technology, so simply step onto the platform in the correct positioning to take your measurement.

• To obtain a complete, accurate measurement, keep your feet bare when you step on the platform. Body fat and total body water measurements require your feet to be without shoes or socks.
Note: The condition of the bottom of your feet might affect the measurement. Readings are best taken with clean, slightly damp feet.

• Stand still and remain on the platform until the complete readout is displayed (the unit stops displaying moving “0”).

• According to the current readings, the system’s algorithm matches the data to the most similar User ID record.

• If the system is unable to identify the User ID, the measurement data will be displayed for about 6 seconds before the device powers off automatically.

• If the system can match the data with users with similar records, each User ID will blink in turn. Single-press the “Set” button to select the right user. The measured data will automatically be logged into the selected User ID and displayed on the screen.





## Replacing The Batteries

When the “Lo” symbol appears, it is indicative of a low battery. The device will power off automatically after 4 seconds if the battery is drained.

Kindly replace all four batteries at once, ensuring old batteries are not installed with new ones; and all batteries are of the same capacity.

Worn batteries are hazardous waste. Do NOT dispose of them with household garbage. Kindly refer to local ordinances and regulations on the disposal of worn batteries and scrap devices.

If this device will not be inactive for a prolonged period, kindly take out the batteries before storing the scale in a cool, dry place.

**Battery Replacement Procedure**

1) Open the battery compartment on the underside of the scale.

2) Take out the old batteries and dispose of them appropriately.

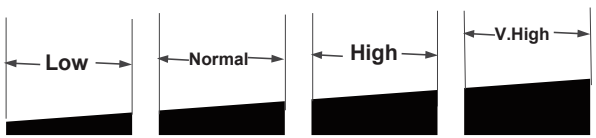
3) Correctly - in the right polarities, insert the new batteries (x4 AAA) into the battery compartment.

4) The LED screen should light up once the new batteries are properly installed.

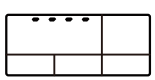
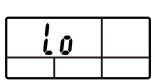
5) Close the battery compartment and wait until the digits “0.0” are displayed on the LCD screen.

## Body Fat Indicator

The Progress Bar on the LCD screen is also indicative of body fat level. After analysis, the varying length of the bar indicates different levels of body fat.
(Kindly refer to “Table of Body Fat Level” for more details.)




## Error Prompt

| Error | Description | Solution |
|---|---|---|
|  | Overload. The device will power off. | Do not use this scale for measurement. |
|  | Low Battery. The device will power off in four seconds. | Replace all four AAA batteries with new batteries of the same capacities.<br><br>Kindly purchase and make use of only manufacturer-authorized batteries for replacement. |





## TROUBLESHOOTING

| Fault | Root Cause | Solution |
|---|---|---|
| Abnormal measuring readings:<br>- Too high; OR<br>- Too low; OR<br>- Huge difference between two recent measurement. | Incorrect posture | Please position your bare feet on the stainless steel pads of the platform and remain still. |
| | The device is on a soft or uneven surface, such as a carpet or rug. | Kindly place the device on a flat, hard surface. |
| | Your hands or feet are too dry. | Wipe your feet with a clean, damp cloth and ensure they are slightly wet before stepping on the scale. |
| The device fails to power on. | Batteries are not installed, | Correctly - in the right polarities - install the batteries. |
| | Worn-out batteries | Replace all four AAA batteries with same-type batteries of the same capacity. Please use ONLY manufacturer-authorized batteries. |

| Fault | Root Cause | Solution |
|---|---|---|
| Fails to analyze body fat, total body water, muscle mass and bone mass. | The user's feet are not bare, as recommended. | Please ensure the user's feet are bare and in full contact with the electrode pads during measurement. |
| | The system is unable to match the data with a possible User ID. | Please create and assign a User ID to the data. Check the section "Setting Up your Profile." |
| | The user failed to select the User ID from matches the system made. | Please assign a User ID to the data. Check the section "Setting Up your Profile." |
| | The scale is damaged. | Kindly purchase a new scale. |
| The device suddenly powers off. | Worn-out batteries. | Replace all four AAA batteries with same-type batteries of the same capacity. Please use ONLY manufacturer-authorized batteries. |





## Specifications

| | |
|---|---|
| **Product Name** | Body Fat Scale (GBF-830-M) |
| **Dimension** | Scale: 330mmx320mmx19.4mm (Approx.) |
| **Net Weight** | Approximately 1.87 kg (excluding the dry cells) |
| **Display Type** | Digital LCD with White Backlight |
| **Measurement Unit** | Kilogram / Pound / Stone |
| **Measurement Range** | 5kg to 180kg / 11lb to 397lb / 0st:11lb to 28st:5lb |
| **Division** | 0.1kg , 0.2lb , 0.2 lb/1lb (≥20st) |
| **Accuracy** | 5-50kg: ±0.3kg; 50-100kg: ±0.4kg;<br>100-150kg: ±0.5kg; 150-180kg: ±0.7kg; |
| **Optimal Operating Conditions** | Temperature: 5℃ to 40℃ Humidity: 15% RH to 93%RH<br>Atmospheric pressure: 70kPa to 106kPa |
| **Optimal Storage Conditions** | Temperature: -20℃ to 60℃ Humidity: ≤93% RH<br>Atmospheric pressure: 50kPa to 106kPa |
| **Power Requirements** | 6V(4x1.5V AAA Batteries) |
| **Power-On Method** | Sense-On Technology |
| **Automatic Power Down** | After 10 seconds of inactivity |
| **Accessories** | 1. 6V(4x1.5V AAA Batteries)<br>2. User Manual |
| **Mode of Operation** | Continuous Operation |
| **Degree of protection** | Type BF applied part |
| **Protection against ingress of water** | IP21. This device is protected against solid foreign objects of 12.5mm and greater, and against vertically falling water drops. |
| **Software Version** | A0 |

## CARE AND MAINTENANCE

1) Always clean the device exterior with a soft, slightly damp cloth. To remove stains, use a mild soap. Wipe the device with a clean, dry cloth after wet cleaning.
2) Always use a clean, dry, soft cloth to wipe off dust.
3) Do NOT use detergents, propellants treated clothes, harsh cleaning agents, or sprays on or in this device.
4) Do not immerse or submerge this device or its parts in water or any liquid.
5) Kindly treat this scale with utmost care. It contains sensitive electronic parts which should not be handled roughly.
6) Do not jump on, drop suddenly, or kick the scale to avoid damaging its performance level.
7) Do not store the scale in the same room as cleaning chemicals or other household products that emit vapors that might affect the electronic components of the scale.
8) Do NOT attempt to lubricate, disassemble or open up this scale. This will void your warranty. Kindly contact us for after-sales services.
9) Always ensure measurements are taken on the same scale on the same surface. Otherwise, re-initialization will be needed.
10) Measurements taken on a hard, even floor ensures optimal accuracy and consistency of results.
11) We recommend taking measurements at the same time of the day, preferably early evening before a meal, for the best consistent results.
12) This scale rounds up (or down) to the nearest two decimals.
13) If two values are obtained from two successive readings, your weight lies between the two.
14) Do NOT dispose of batteries in a fire. Batteries may explode or leak.
15) Always uninstall the batteries if the device will not be inactive for prolonged periods.





## Warranty

1) This product is covered by a five-year warranty from the initial purchase date.
2) This warranty does NOT cover damages from misuse or negligence; including but not limited to:
- Damages from unauthorized repairs or modifications.
- Damages from careless handling of this product, during or after transportation.
- Damages due to noncompliance with the operation manual-stipulated instructions.
- Malfunction or damages from failure to provide the recommended maintenance.
- Damages from improper use of power supply.

## FCC Regulations

### FCC User Guide Information

Radio Frequency Interface Requirements - FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, it not installed and used in accordance with the instructions. may cause harmful interference to radio communications. However there is no guarantee that interference win not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna,
• Increase the separation between the equipment and recerver,
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
• Consult the dealer or an experienced radio I TV technician for help.

**Radio Transmitters (Part 15)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference. and (2) this device must accept any interference recerved, including interference that may cause undesired operation Changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

If you have any questions or concerns about our products or your order, please do not hesitate to contact us at extracovercare@gmail.com (24/7 support) or give us a call +1 (800) 460-2215 (Mon-Fri 8am - 6pm PTC)

## Health Tips

### About Body Fat

The human body comprises, amongst other things, a percentage of fat. Body fat is vital for a healthy, functioning body. It protects vital organs, helps regulate body temperature, stores vitamins, and helps the body sustain itself when food is scarce. However, too much or too little body fat will be harmful to health.

It is difficult to gauge our body fat level by simply examining ourselves in the mirror. As a result, it is essential to measure and monitor your body fat percentage.

Body fat percentage gives you a better measure of fitness than simple weight measurement –the amount of your weight loss could indicate a loss of muscle mass rather than fat. An individual may still have a high percentage of fat even when a conventional weight scale indicates 'normal weight.'

The table below may be used as a measurement guide:

Table of Body Fat Level (Unit: %)

a) The body fat percentage (%): 5%-60%/0.1%

Standard for Men

| Rating | Age | | | | |
|---|---|---|---|---|---|
| | 20-29 | 30-39 | 40-49 | 50-59 | 60+ |
| low | <13 | <14 | <16 | <17 | <18 |
| Normal | 14-20 | 15-21 | 17-23 | 18-24 | 19-25 |
| Moderately High | 21-23 | 22-24 | 24-26 | 25-27 | 26-28 |
| High | >23 | >24 | >26 | >27 | >28 |

Standard for Women

| Rating | Age | | | | |
|---|---|---|---|---|---|
| | 20-29 | 30-39 | 40-49 | 50-59 | 60+ |
| low | <19 | <20 | <21 | <22 | <23 |
| Normal | 20-28 | 21-29 | 22-30 | 23-31 | 24-32 |
| Moderately High | 29-31 | 30-32 | 31-33 | 32-33 | 33-35 |
| High | >31 | >32 | >33 | >34 | >35 |

Source: The University of Illinois Department of Food Science and Human Nutrition. Body Fat Percentage Calculator.



Appendix

### About Body Water

Body water is the single most critical component of body weight. It represents over half of your total weight and almost two-thirds of your lean body mass (predominantly muscle).

Water performs several vital roles in the body:
1) All the cells in the body, whether in the skin, glands, muscles, brain, or anywhere else, require adequate water to function optimally.
2) Water is a critical factor in regulating body temperature balance through perspiration.

The table below may be used as a measurement guide:

Table of Body Water Level (Unit: %)

b) The body water percentage (%): 43%-73%/0.1%

Source: Derived from Wang & Deurenberg: "Hydration of fat-free body mass". American Journal Clin Nutr 1999,69833-841.

| | BF % RANGE | OPTIMAL TBW % RANGE |
|---|---|---|
| Men | 4 to 14% | 70 to 63% |
| | 15 to 21% | 63 to 57% |
| | 22 to 24% | 57 to 55% |
| | 25 and over | 55 to 37% |
| Women | 4 to 20% | 70 to 58% |
| | 21 to 29% | 58 to 52% |
| | 30 to 32% | 52 to 49% |
| | 33 and over | 49 to 37% |

Source: "Hydration of fat-free body mass" by Wang & Deurenberg: American Journal Clin Nutr 1999,69833-841.

## About Muscle Mass

According to the American College of Sports Medicine (ACSM), lean muscle mass may decrease by nearly 50 percent between age 20 and 90. If you do nothing to maintain muscle mass, you might lose muscle and increase fat.

It is also essential to know your muscle mass percentage during weight reduction. When at rest, the body burns approximately 110 additional calories for each kilo of muscle gained.

Benefits of gaining muscle mass include:

1) Reversing the decline in strength, bone density, and muscle mass associated with aging.

2) Maintenance of flexible joints.

3) Guided weight reduction when combined with a healthy diet.

The table below may be used as a measurement guide:

Table of Muscle Mass Percentage

Source: International Commission on Radiological Protection,1975

| | |
|---|---|
| **Men** | **Approximately 30% of total body weight** |
| **Women** | **Approximately 40% of total body weight** |

## About Bone Mass

Regular exercise and a balanced diet can help maintain healthy bones. Like the muscle, the bone is a living tissue that can respond to exercise by becoming stronger. For most people, bone mass peaks in their thirties and then declines. Regular exercise can help prevent this.

Calcium and vitamin D contribute to healthy bones. Some good sources of these nutrients are dairy products, green leafy vegetables, and fish.

The bone mass readings given by this product are estimates of the amount of bone in your body. Kindly note; those with osteoporosis or low bone densities may not get accurate estimations. If you have any concerns regarding your bones, please consult your doctor, as soon as possible.

The table as follows may be used as a guide:

Bone Mass Percentage

(Source: Rico et al.1993)

**The average bone mass percentage for both men and women is between 4 to 5%.**





## ♥ Warning

Do not use this device within the vicinity of active HF-surgical equipment and RF-shielded room of a ME-system for magnetic resonance imaging, where the intensity of EM-disturbances is high.

Using this device adjacent to or stacked with other equipment is not recommended, as this could result in improper operation. If such use is necessary, check this device and the other equipment for proper operation.

The use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and may result in improper operation.

Portable RF-communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment GBF-830-M, including cables specified by the manufacturer. Doing so may reduce the performance of this device.

## ♥ EMC Guidance

TABLE 1: Guidance and manufacturer s declaration on electromagnetic emission

| **Guidance and manufacturer's declaration - electromagnetic emissions** | |
|---|---|
| Emissions | **Compliance** |
| RF emissions<br>CISPR 11 | Group 1 |
| RF emissions<br>CISPR 11 | Class B |
| Harmonic emissions<br>IEC 61000-3-2 | Not applicable |
| Voltage fluctuations/ flicker emissions<br>IEC 61000-3-3 | Not applicable |

TABLE 2: Guidance and manufacturer's declaration on electromagnetic immunity

| Guidance and manufacturer's declaration - electromagnetic Immunity | | |
|---|---|---|
| **Immunity Test** | **IEC 60601-1-2 Test level** | **Compliance level** |
| Electrostatic discharge (ESD) IEC 61000-4-2 | ±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air | ±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air |
| Electrical fast transient/burst IEC 61000-4-4 | Not applicable | Not applicable |
| Surge IEC 61000-4-5 | Not applicable | Not applicable |
| Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | Not applicable | Not applicable |
| Power frequency magnetic field | 30 A/m 50Hz/60Hz | 30 A/m 50Hz/60Hz |
| IEC 61000-4-8 | | |
| Conducted RF IEC61000-4-6 | Not applicable | Not applicable |
| Radiated RF IEC61000-4-3 | 10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz | 10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz |
| NOTE: UT is the A.C. mains voltage before the application of the test level | | |





TABLE 3: Guidance and manufacturer's declaration on electromagnetic immunity

| Guidance and manufacturer's declaration - electromagnetic Immunity | | | | | | | |
|---|---|---|---|---|---|---|---|
| Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment) | **Test Frequency** (MHz) | **Band** (MHz) | **Service** | **Modulation** | **Modulation** (W) | **Distance** (m) | **IMMUNITY TEST LEVEL** (V/m) |
| | 385 | 380 – 390 | TETRA 400 | Pulse modulation 18 Hz | 1,8 | 0.3 | 27 |
| | 450 | 430 – 470 | GMRS 460, FRS 460 | FM ± 5 kHz deviation 1 kHz sine | 2 | 0.3 | 28 |
| | 710<br>745<br>780 | 704 – 787 | LTE Band 13, 17 | Pulse modulation 217 Hz | 0,2 | 0.3 | 9 |
| | 810<br>870<br>930 | 800 – 960 | GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5 | Pulse modulation 18 Hz | 2 | 0.3 | 28 |
| | 1720<br>1845<br>1970 | 1 700 – 1 990 | GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS | Pulse modulation 217 Hz | 2 | 0.3 | 28 |
| | 2450 | 2 400 – 2 570 | Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7 | Pulse modulation 217 Hz | 2 | 0.3 | 28 |