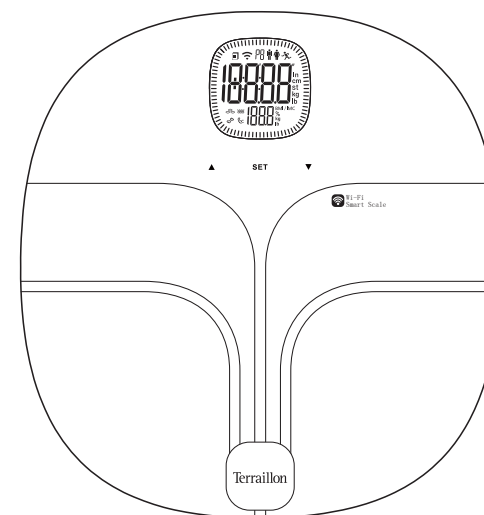


User Manual

Body Fat Analyzer GBF-1267-F



- Thank you very much for selecting the Transtek Body Fat Analyzer GBF-1267-F.
- Please do read the user manual carefully and thoroughly so as to ensure the safe usage of this product, and keep the manual well for further reference in case you have problems.



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♥ Safety and Usage Information

The warning signs and symbols are essential to ensure your correct and safe use of this product and protect you and others from injury. Please kindly find the meanings of the warning signs and symbols, which you may encounter in the label and user manual, as follows:

	Symbol for "THE OPERATION GUIDE MUST BE READ"		
	Symbol for "DIRECT CURRENT"	IP21	IP classification. The first number 2: Protected against solid foreign objects of 12.5 mm Φ and greater. The second number 1: Protection against vertically falling water drops.
	Symbol for "TYPE BF APPLIED PARTS"		
SN	Symbol for "SERIAL NUMBER"		Symbol for "ENVIRONMENT PROTECTION – Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice"
	Symbol for "MANUFACTURE DATE"		
	Symbol for "MANUFACTURER"		

CAUTION

The Body Fat Analyzer GBF-1267-F offers you a seamless way to manage your health. Please be aware that this device is designed for adults' self-measuring and self-monitoring body fat level. Any information provided by this device is in no way meant to treat, cure or prevent any disease or illness from happening. This device should not be used by anyone who is acutely or chronically ill, suffering from a disease or taking medications that affect your water levels. The accuracy of readings for these patients has not been verified. Specific medical advice should be obtained from a physician.

Before diet and exercise, you must first find a professional medical guide.

The body fat analyzer is equipped with data transmission function. It may emit electromagnetic energy so as to perform its intended function. Nearby portable and mobile RF communications equipment can affect the performance of the device.

Portable and mobile RF communications equipment can affect the measuring accuracy of the body fat analyzer.

Kindly note that the use of accessories, transducers or cables other than those specified, with the exception of transducers and cables sold by the manufacturer as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the device.

Be aware that misuse of electrical equipments can cause electric shock, burns, fire and other hazards. Please do not use the device in flammable gas environment.

Warning that the body fat analyzer should not be used adjacent to or stacked with other equipment.

Manufacturer will make available on request circuit diagrams, component parts list, etc.

WARNING: No modifications of this equipment is allowed.

During using the analyzer, the patient will contact with the upper surface of the scale. The upper surface of the scale is considered as a Type BF applied part.

The device doesn't need to be calibrated in five years lifetime.

Do not touch the output of batteries when using the analyzer.

The patient is an intended operator. The patient can perform all the operations in the manual, such as measurement, data transmitting, changing batteries.

INDICATIONS FOR USE

- The Transtek Body Fat Analyzer measures weight and estimate BMI, and uses bio-electrical impedance analysis (BIA) technology to estimate body fat, total body water percentage, bone mass, and muscle mass in generally healthy children 10-17 years old and healthy adults.
- It is intended for use in the home healthcare environment only.

CONTRAINDICATIONS

- This device is contraindicated for any female subject who may be suspected of, or is pregnant. Besides provided inaccurate readings, the affects of this device on the fetus are unknown.
- This device is contraindicated for any person who is connected to a wearable or implantable electronic device or instrument such as a pacemaker or defibrillator.

♥ Your Scale and Its Environment

To ensure your safety as well as the service life of your scale, please avoid using the scale under the following circumstances:

- Slippery floor such as tile floor
- Jumping onto the platform immediately after bath or with wet feet
- Near a cell phone or microwave oven

Avoid storage in the following locations:

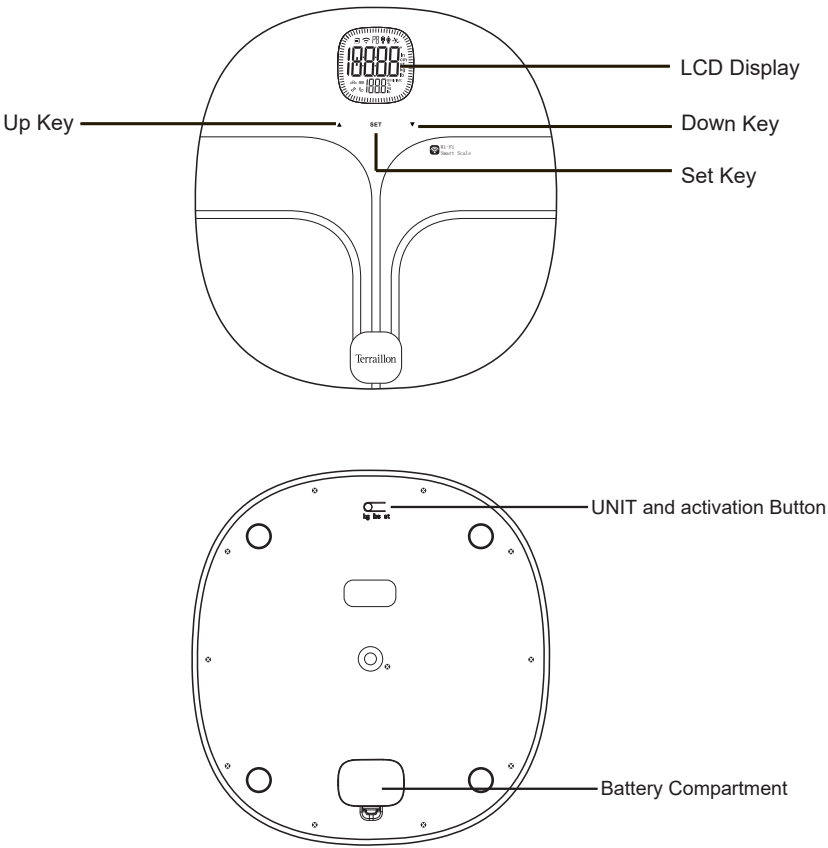
- Where there is water
- Where the device may be exposed to extreme temperatures, humidity, moisture, direct sunlight, dust, or salt air
- Where there is risk of shock or drop
- Where you store chemicals or full of corrosive gases
- Where in reach of the infants or children

♥ Efficient Use of Your Scale

To ensure the accuracy of measurement, please follow below instructions when you start measurement.

- Place the scale on a flat, hard surface. Soft surface such as carpet will affect the performance of the scale.
- Step onto the platform with bare feet. Stand still and keep full contact with the scale until the measurement is complete.
- Start measurement at least two hours after Getting up or Dinning.
- Avoid measurement immediately after strenuous exercise, sauna or bath, drinking, and dining.
- Always start measurement in the same time slot and on the same scale located on the same flat, hard surface.
- This device is not intended for use in an oxygen rich environment.

♥ Device Components



♥ List

- 1. Body Fat Analyzer GBF-1267-F
- 2. Four AAA-size Batteries (1.5V per each)
- 3. User Manual

♥ LCD Display



	Body Fat Analysis Result		Male
	Total Body Water Analysis Result		Male Athlete
	Muscle Mass Analysis Result		Female
	Bone Mass Analysis Result		Female Athlete
BMI / IMC	Body Mass Index	kg	Kilogram
in	Inch	st	Stone
cm	Centimeter	lb	Pound
	Successful Wi-Fi Connection	%	Percentage
	Data transmitting / pending to transmit to wireless wellness system	P8	User ID (Rangr form P1 to P8)

♥ General Instructions

Transtek Body Fat Analyzer GBF-1267-F applies BIA (Bio-impedance Analysis) technology. A small amount of weak current flows through the human body so as to detect the bio-impedance and estimate BMI, body fat, body water, muscle mass and bone mass. The electrical current is small and may not be felt.

This BIA technology is cheap, safe, non-invasive, toxic-free and harmless. It also possesses the characteristics of simple operation and abundant information.

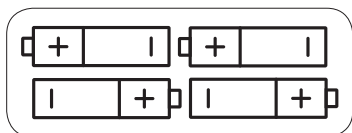
The current mentioned above is less than 0.5mA. However, please be aware that anyone with an wearable or implantable medical electronic instrument, such as a pacemaker, must avoid using this device.

The intended use of this device is for healthy children 10-17 years old and healthy adults.

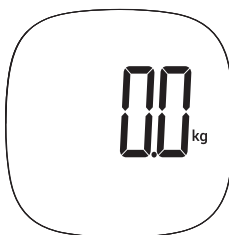
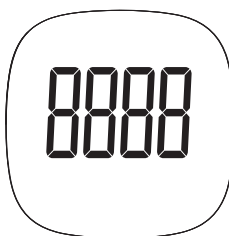
♥ Insert the Batteries

- Open the battery door in the back of the scale.
- Insert the batteries (4 x 1.5V AAA) into the battery compartment according to the polarity indications marked inside the compartment.

* The digits "8888" will be shown on the LCD.



- Close the battery door and wait until the digits "00" are shown on the LCD.



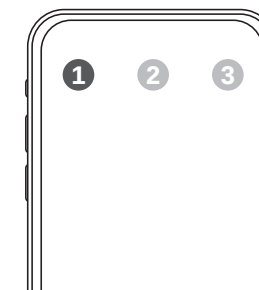
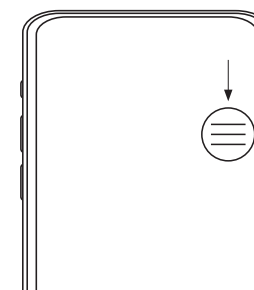
CAUTION

- When the symbol "Lo" appear, the device will power off. 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.

♥ Install APP and Pair-Up



- Download Wellness Coach-Health mobil application.
- Create your account or log in with your credentials.



- After creating your account, select the Wi-Fi Bathroom Scales to start the pairing procedure.
- Note: If you are connected with a pre-existing account, press the button indicated, the "Sync My Devices", and then select Wi-Fi Bathroom Scales to start the pairing procedure.
- Follow the instructions on the mobile application.

♥ 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.

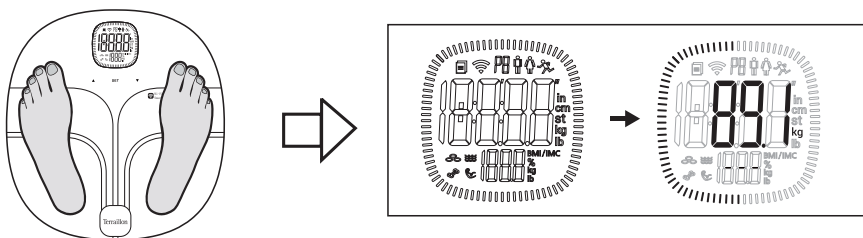


♥ Weight Only Operation

Your TRANSTEK Body Fat Analyzer will operate as a conventional weight - reading scale. No special programming steps are required.

Once the scale is initialized, as previously described, you may simply step on the scale to measure your current weight. For only weight reading.

1. Position the scale on a flat, hard surface. Carpeted or uneven floors may affect accuracy.
2. Step onto the scale platform and remain still while the scale computes your weight.
3. The scale will display your weight value.

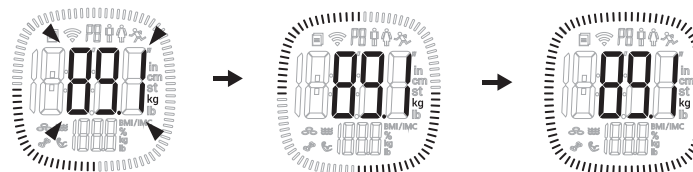


4. The scale will automatically turn off after a few seconds.

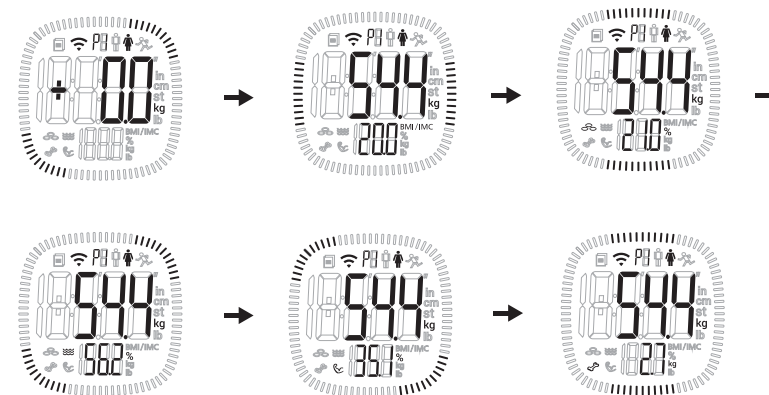
Note: The weight value won't be saved in the scale, and won't be transmitted to the APP.

♥ Daily Measurement

- Please process the user setting before your first measurement.
(Refer to [Install APP and Pair-up](#) for more details)
- With original SENSE ON patent technology, GBF-1267-F will switch on as you step on the platform barefooted.
- Stand still and keep full contact with the scale until the display lights are all on.



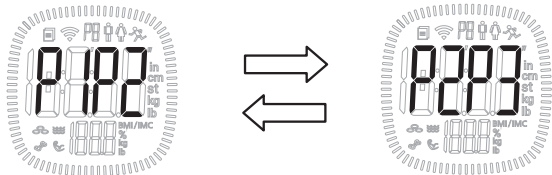
- After the weight is locked, if identify the stored weight is during this weight within ± 3 kg, it will identify the specific user ID.
- If it identifies one user, it will skip the step about user selection, then display the weight difference from the last weighing, BMI data, Body Fat, Total Body Water, Muscle Mass and Bone Mass sequentially two times and turn off.



- * If it fails to complete the analysis, the LCD will only display the weight data.
(To find out the solutions, please refer to [Troubleshooting](#) for more details.)

- When your scale is successfully paired with your smartphone and the Wi-Fi is ON, GBF-1267-F will process data transmission instead.
(Please refer to [Data Transmission](#) for more details.)

- If it identifies two or more users,for example,P1,P2 and P3, the LCD will display these users alternately two times, you may press the function key ▲ or ▼ to choose the User ID. The measuring results will then be sorted into the User ID you selected and displayed sequentially two times. If you don't choose the user, it will display the weight again and turn off.

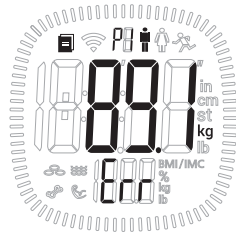


- If it fails to identify the possible User ID, the LCD will only display the weight data then shutdown.

(To find out the solutions, please refer to [Troubleshooting](#) for more details.)

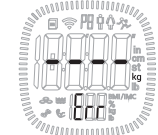
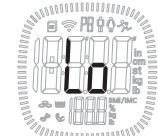
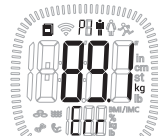
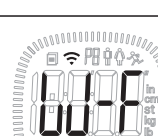
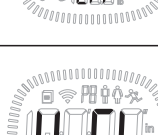
♥ Data Transmission

- With GBF-1267-F successfully pair-up with your smartphone, the measurement data will be transmitted to your mobile via Wi-Fi.
- ONLY when the measuring results are attached to a specific User ID will it be transmitted to your mobile after measurement.
- The symbol  will disappear after successful data transmission, and you may check your personal health data stored in your smartphone.
- If the data transmission fails, the symbol  will remain. The pending measurement data will be temporarily kept in the scale and transmitted to your smartphone when next measurement is complete.



	Successful Wi-Fi Connection
	Data transmitting to wireless wellness system: -If SUCCEED, the symbol disappears; -If FAIL, the symbol remains.

♥ Error Prompt

Error	Description	Solution
	Overload. The device will power off.	Stop using this scale for measurement.
	Low Battery. The device will power off.	Replace all four batteries in the same time. Please purchase the authorized batteries for replacement.
	There has data doesn't upload. (The notebook icon will be displayed.)	Upload the data.
	Wrong password.	Enter the correct Wi-Fi password.
	Server connection error.	Check your network connection.
	The weight is unstable.	Keep the posture stable when you measuring.

♥ When Measuring ...

Problem	Root Cause	Solution
Abnormal measuring results: - Too high; - Too low; - Huge difference between two recent measurement.	Incorrect posture.	Please step on the platform barefooted and stand still.
	The device is located on the soft ground such as a carpet or on a rugged surface.	Please place the device on a flat, hard surface.
	Your feet are too dry.	Wipe your feet with a damp cloth, keeping them slightly damp when starting measurement.
No display on LCD when the device powers on.	Batteries not yet installed.	Install the batteries. (Please refer to Insert the Batteries)
	Worn batteries.	Replace all four batteries at the same time. Please purchase the authorized batteries for replacement.
CANNOT proceed to analyze BMI, body fat, total body water, muscle mass and bone mass.	Step onto the platform wearing socks or shoes.	Please keep barefooted during the measurement, and keep full contact with the scale as well.
	The system cannot identify the possible User ID with most similar data.	Please assign a User ID following the instruction in Install APP and Pair-Up .
	The user fails to select the User ID from what the system found.	Please assign a User ID following the instruction in Install APP and Pair-Up .
The device powers off.	Low battery.	Replace all four batteries at the same time. Please purchase the authorized batteries for replacement.

♥ When Data Transmitting ...

Problem	Root Cause	Solution
Data transmission failed.	Wi-Fi is OFF.	Turn ON the Wi-Fi via Setting.
	The APP is OFF.	Press the icon to turn ON your APP.
	Out of range of Wi-Fi transmission.	Place your smartphone closer to the scale.
	None of the user ID is assigned.	Please assign a User ID following the instruction in Install APP and Pair-Up .

♥ Specifications

Product Name	Body Fat Analyzer (GBF-1267-F)
Dimension	Scale: 329x347x29.9mm (Approximately)
Net Weight	Approximately 2.03kg (Including the dry cells)
Display	Digital LCD
Measurement Unit	Kilogram / Pound / Stone
Measurement Range	5kg to 180kg / 0st: 11lb to 28st: 5lb / 11lb to 397lb
Division	0.1kg/0.2 lb/1st
Accuracy	F.S*2‰+1d
Working Environment	Temperature: 5℃ to 40℃ Relative Humidity: ≤90% RH Atmospheric pressure: 86kPa to 106kPa
Storage Environment	Temperature: -20℃ to 60℃ Relative Humidity: ≤90% RH Atmospheric pressure: 50kPa to 106kPa
Power Source	6V (Four AAA-size Batteries)
Auto-ON	SENSE ON technology
Auto-OFF	The scale will turn off after about 15s if there is no operation.
Accessories	1. Four AAA Size Batteries 2. User Manual
Mode of Operation	Continuous Operation
Software Version	A09
Wifi Frequency Range	2.412GHz-2.462GHz
Wifi Module No	HF-LPB120
Wifi Supply Voltage	3.3V
Degree of protection	Type BF applied part
Protection against ingress of water	IP21(The first number 2: Protected against solid foreign objects of 12.5 mm Φ and greater. The second number 1: Protection against vertically falling water drops.)

About the Accuracy of This Product

• This product passes strict inspection before delivery and therefore its accuracy is guaranteed by the manufacturer. Please refer to the above table for the descriptions on accuracy.

• This product is specially designed for body fat analysis as well as weight measurement. It should NOT be used by anyone during the process of transaction for verification of goods' weight.

♥ Maintenance

When carrying out usual maintenance, please ensure practice of the following Do's and Don'ts:

- DO use a dry soft cloth to wipe the dust.
- DO use a wet soft cloth, dipped into water and wrung out, to wipe the dirt. Then use a dry soft cloth to dry up the device.
- DON'T wash the device with water or immerse it in water.
- DON'T use propellant, abrasive or other chemicals to wipe the dirt in avoidance of discolor or malfunction.
- DON'T disassemble this device. If you have any problems, please contact Transtek.
(Please refer to Warranty for contact information)

♥ Warranty

- Transtek warrants its products free of defects in materials and workmanship in normal use for a period of FIVE years from the date of retail purchase.
- This warranty does NOT cover damages caused by misuse or abuse, including but not limited to:
 - Failure caused by unauthorized repairs or modifications;
 - Damage caused by shock or drop during transportation;
 - Failure caused by improper operation inconsistent with the instructions stated in this user manual;
 - Malfunction or damage from failure to provide the recommended maintenance;
 - Damage caused by improper use of power supply.
- Should this device require maintenance (or replacement at our option) under warranty, please deliver the original package to ZHONGSHAN TRANSTEK ELECTRONICS CO., LTD prepaid. Please return the store receipt (with the retail purchase date) and a note with reasons to return on it as well.

ZHONGSHAN TRANSTEK ELECTRONICS CO., LTD
No.23,Jin'an Road, Minzhong, Zhongshan, 528441, Guangdong, China
Tel: 86-760-88282982
Website: <http://www.transtek.cn>

♥ 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, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will 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 receiver;
- 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 / 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 received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Exposure Guidelines

Safety Information

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

♥ Health Tips - About Body Fat

Human body is made up of, amongst other things, a percentage of fat. Body fat is vital for a healthy, functioning body, protects vital organs, helps regulate body temperature, stores vitamins and helps the body sustain itself when food is scarce. However, too much body fat or indeed too little body fat will damage to your health. It is difficult to gauge how much body fat we have in our bodies simply by looking at ourselves in the mirror.

This is why it is important to measure and monitor your body fat percentage. Body fat percentage gives you a better measure of fitness than weight alone—the composition of your weight loss could mean you are losing muscle mass rather than fat—you could still have a high percentage of fat even when a scale indicates 'normal weight'.

The table as follows may be used as a 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	13-20	14-21	16-23	17-24	18-25
Moderately High	20.1-23	21.1-24	23.1-26	24.1-27	25.1-28
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	19-28	20-29	21-30	22-31	23-32
Moderately High	28.1-31	29.1-32	30.1-33	31.1-34	32.1-35
High	>31	>32	>33	>34	>35

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

www.ag.uiuc.edu/~food-lab/ai/bfc.html

♥ Health Tips - About Body Water

Body water is the single most important 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 a number of important roles in the body:

All the cells in the body, whether in the skin, glands, muscles, brain or anywhere else, can only function properly if they have enough water. Water also plays a vital part in regulating the body's temperature balance, particularly through perspiration.

The combination of your weight and fat measurement could appear to be 'normal' but your body hydration level could be insufficient for healthy living.

The table as follows may be used as a 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 1999,69:833-841.

	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%

♥ Health Tips - About Muscle Mass

According to the American College of Sports Medicine (ACSM), lean muscle mass may decrease by nearly 50 percent between the age of 20 and 90. If you do nothing with it you're losing muscle and increasing fat. It is also important to know your muscle mass % during weight reduction. At rest, the body burns approximately 110 additional calories for each kilo of muscle gained. Benefits of gaining muscle mass include:

- Reversing the decline in strength, bone density and muscle mass with aging
- Maintenance of flexible joints
- Guide weight reduction when combined with a healthy diet.

The table as follows may be used as a guide:

Muscle Mass Percentage

(Source: International Commission on Radiological Protection, 1975)

Men	Approximately 40% of total body weight
Women	Approximately 30% of total body weight

♥ Health Tips - About Bone Mass

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

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

The bone mass readings given by this product are an estimation of the amount of bone in your body. Those with osteoporosis or low bone densities may not get accurate estimations. If you have any concern regarding your bones please consult your doctor timely.

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%.

♥ Health Tips - About BMI

Maintaining proper weight is essential to healthy living. Obesity has been linked to a higher risk of heart disease, diabetes and some forms of cancer. The Body Mass Index (BMI) is the most widely accepted measurement of weight according to health professionals. The Analyzer will calculate your BMI on your height and weight.

The table as follows may be used as a guide:

Height (inches)	Normal						Overweight						Obese					
	Body Weight (pounds)																	
58	91	96	100	105	110	115	119	124	129	134	138	143	148	153	158	162	167	
59	94	99	104	109	114	119	124	128	133	138	143	148	153	158	163	168	173	
60	97	102	107	112	118	123	128	133	138	143	148	153	158	163	168	174	179	
61	100	106	111	116	122	127	132	137	143	148	153	158	164	169	174	180	185	
62	104	109	115	120	126	131	136	142	147	153	158	164	169	175	180	186	191	
63	107	113	118	124	130	135	141	146	152	158	163	169	175	180	186	191	197	
64	110	116	122	128	134	140	145	151	157	163	169	174	180	186	192	197	204	
65	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	
66	118	124	130	136	142	148	155	161	167	173	179	186	192	198	204	210	216	
67	121	127	134	140	146	153	159	166	172	178	185	191	198	204	211	217	223	
68	125	131	138	144	151	158	164	171	177	184	190	197	203	210	216	223	230	
69	128	135	142	149	155	162	169	176	182	189	196	203	209	216	223	230	236	
70	132	139	146	153	160	167	174	181	188	195	202	209	216	222	229	236	243	
71	136	143	150	157	165	172	179	186	193	200	208	215	222	229	236	243	250	
72	140	147	154	162	169	177	184	191	199	206	213	221	228	235	242	250	258	
73	144	151	159	166	174	182	189	197	204	212	219	227	235	242	250	257	265	
74	148	155	163	171	179	186	194	202	210	218	225	233	241	249	256	264	272	
75	152	160	168	176	184	192	200	208	216	224	232	240	248	256	264	272	279	
76	156	164	172	180	189	197	205	213	221	230	238	246	254	263	271	279	287	
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	

Body Mass Index

♥ Warning

Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Warning: 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 result in improper operation."

Warning: 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-1267-F, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Warning: At least 2 hours required for the device to warm / cool from the minimum / maximum storage temperature between uses until it is ready for intended use.

♥ EMC Guidance

Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Table 1

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

Table 2

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 IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
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 U _T is the a.c. mains voltage prior to application of the test level.		

Table 3

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	704 – 787	LTE Band 13, 17	Pulse modulation 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 18 Hz	2	0.3	28
	870						
	930						
	1720	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
	1845						
	1970						
	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