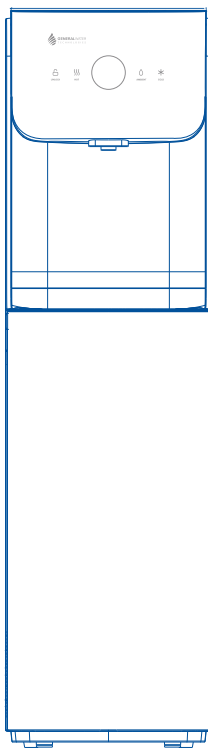


Product Instruction Manual

Applicable Model:FSD20

Free Standing Water Purifier



General Water Technologies

A Letter to Customers

Dear Customers,

Thank you for choosing our products!

Before you use this product, please be sure to read the instruction manual in detail and follow the instructions for proper use and maintenance.

If you need service, please contact a professional local service provider (see contact information below).

The replacement filter for this product requires parts approved by General Water Technologies and the use of non-authorized parts could damage the unit and will void the manufacturer's warranty.

Thank you for trusting us with your water purification needs. We look forward to providing you and your family with years of healthy, enjoyable water.

General Water Technologies

Official Website: www.genwatertech.com

Email Address: info@genwatertech.com



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Caution Notice



Warning Do not operate this machine without reading and fully understanding the contents of this manual!



Warning Any malfunctions or property damage caused by improper use or operation will not be covered by the warranty, and our company will not be liable for any responsibility!



Warning Incorrect installation and operation may cause serious personal injury and property damage



Attention Reminders for installation, usage, and maintenance.



Prohibited Prohibited Actions



Prohibited: Do not touch the power cord connectors with wet hands! Otherwise, it may cause electric shock accidents.



Prohibited: Do not apply external force to the water purifier, avoid installation in places with direct sunlight or other sources of heat radiation, and exposure to areas containing harmful chemicals.



Prohibited: Do not install the water purifier in outdoor or semi-outdoor areas, away from dirty and humid environments such as toilets and bathrooms, to avoid affecting the hygiene and safe use of the equipment.



Prohibited: Do not dismantle or modify the water purifier without authorization, which may cause malfunctions or leakage leading to property damage.



Prohibited: Please connect and fix the drainage PE pipe (connected to the water purifier waste water outlet) to the sewage drain, do not use a water storage device to collect water to prevent overflow due to machine automatic flushing.



Prohibited: Prohibit hot water above 100°F from entering this water purifier.



Prohibited: Prohibit cold water below 41°F from entering this water purifier.



Prohibited: Do not install the water purifier on the water supply pipeline with water pressure exceeding the maximum working water pressure of the equipment. If the water pressure is too high, a pressure reducing valve needs to be added to the front end.



Prohibited: Do not install the water purifier in reverse, and do not mistakenly connect the water inlet pipe to the water outlet.



Prohibited: Do not forcibly pull the power cord when unplugging the plug.



Prohibited: Do not move the water cup when hot water is being dispensed to prevent scalding!



Prohibited: After hot water dispensing, there may still be a few drops of residual water dripping from the hot water outlet. Please be careful when taking the cup to prevent scalding from residual water!



Warning: Do not use this product under the following conditions:

- If the water purifier is found to be damaged;
- If the plug or power cord is found to be damaged;
- If the water purifier continues to overflow with water.



Warning: Regularly check whether the power supply and wires are loose or damaged. If the power cord is damaged, it must be replaced by a professional from the manufacturer, its repair department, or a similar department to avoid danger.



Warning: Before use, please confirm that the voltage applicable to the water purifier is consistent with the actual voltage used by the user.



Warning: Regularly check the water purifier and pipe fittings for leaks to avoid property damage caused by leaks.



Warning: Do not dismantle or repair the water purifier without authorization, and do not hand it over to unauthorized repair personnel, as improper repair may cause danger!



Warning: Any malfunction caused by improper use will not be covered by the warranty.



Warning: Maintenance, replacement of filter elements, and other maintenance of the water purifier must use replacement parts approved by the company.



Warning: Quality problems, performance degradation, or property damage caused by the use of unauthorized parts or accessories are not covered by the warranty.



Warning: When the water supply is stopped, immediately close the main water valve. Municipal water shutdowns may cause negative pressure in home pipes and damage the equipment.



Warning: The water purifier is for floor-fixed installation. Please ensure that the back of the machine is fixed to the wall or the bottom is fixed to the ground to prevent the machine from tipping over.



Warning: All filter components of the water purifier must be installed for the water purifier to function properly.



Warning: When draining the hot water tank, wait for the water temperature to drop to below 104°F before draining to prevent scalding.

Warning: Before finishing use or leaving the machine, ensure that the hot water has been stopped. Beware of scalding!

-  Attention: Maintenance, filter replacement, and technical services for this water purifier must be carried out by authorized repair personnel from our company.
-  Attention: If there is a need to replace the gas cylinder in this equipment, it must be done by authorized repair personnel from our company.
-  Attention: If the water pressure is lower than the specified operating pressure of the equipment, please install a booster device. The booster device should be installed at the front end of this product.
-  Attention: Do not let the supply and drainage pipelines or the water inside the water purifier freeze. Freezing of the supply pipelines or the water purifier may cause faults, damage to the shell or supply pipelines, and possible injuries.
-  Attention: If the water temperature or ambient temperature drops below 41°F, please close the water supply pipeline of this water purifier (simultaneously close the inlet three-way ball valve) and drain the water inside the water purifier.
Attention: If the water purifier has not been used for more than 3 days, the water inside the water purifier must be drained and flushed for five minutes before normal use.
-  Attention: Water stains may remain after the product leaves the factory, which is a normal phenomenon.
-  Attention: Water hammer phenomenon should be prevented during operation of the product. Try to avoid rapid full opening or closing of valves and emergency stopping of water pumps, etc.
-  Attention: When replacing the water purifier controller, take anti-static measures to prevent controller malfunction or accidents caused by static electricity.
-  Attention: This water purifier is only suitable for installation in areas below 4900" above sea level. The heating function is prohibited in areas above 4900" above sea level.

1. Product Introduction

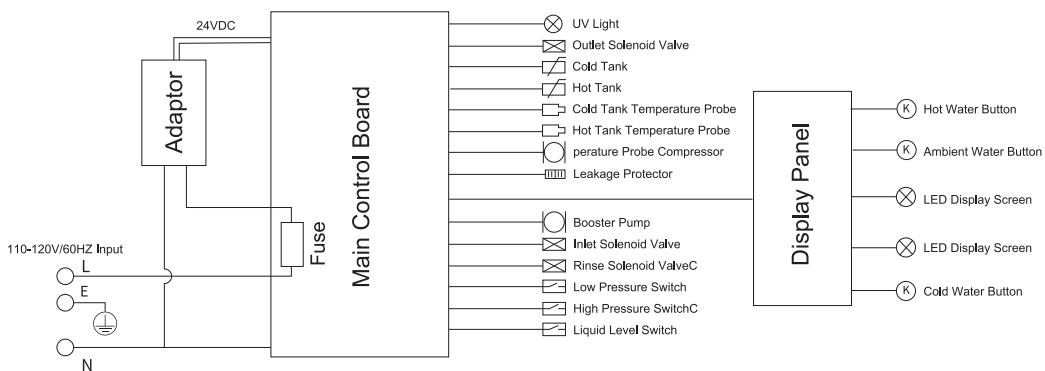
(1) Product Function Introduction

This product is suitable for installation in commercial settings such as offices, clubs, hotels, airports, stations, and similar places where water is needed. It is designed for purifying, heating, and cooling drinking water.

The product purifies municipal tap water using multiple stages of purification including PCFF filter, RO membrane filter, CTO filter, and UV sterilization lamp.

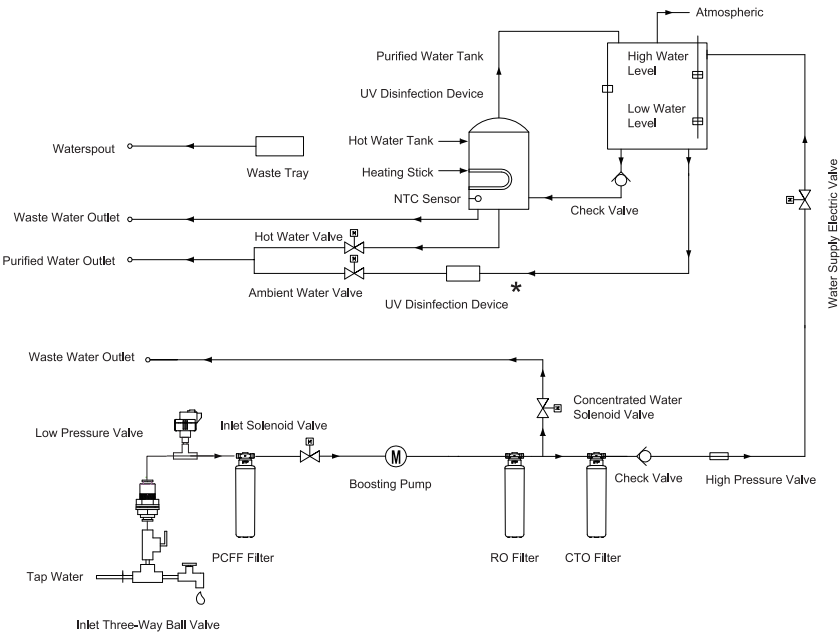
(2) Product Electrical Diagram

Integrated purifier and heating & cooling water purifier



(3) Water Production Process Diagram

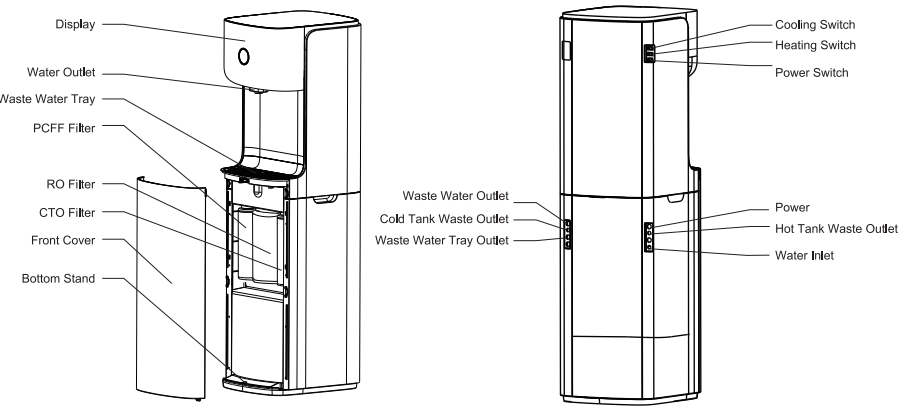
Reverse Osmosis System



(4) Technical Parameters

Product Name	GWT Reverse Osmosis Purifier
Product Model	FSD 20 - RO
Height	54.5"
Width	18.2"
Depth	15.2"
Rated Voltage/Frequency	110~120V/60Hz
Heating Power	1500W
Cooling Power	140W
Hot Tank Capacity	0.5 GL
Water Tank Capacity	2.1 GL
Cold Water Capacity	1 GL
Water Temperature	Hot: 195°F Cold: 40°F
Recommended Users	20-50

(5) Structural Schematic Diagram



2. Installation Instructions

(1) Pre-installation Preparation

Confirm the tools required for installation

- Cross-head screwdriver
- Adjustable wrench
- Pipe cutter

Check the installation accessories against the packing list in the instruction manual to ensure completeness.

Confirm that the installation location includes the following facilities:

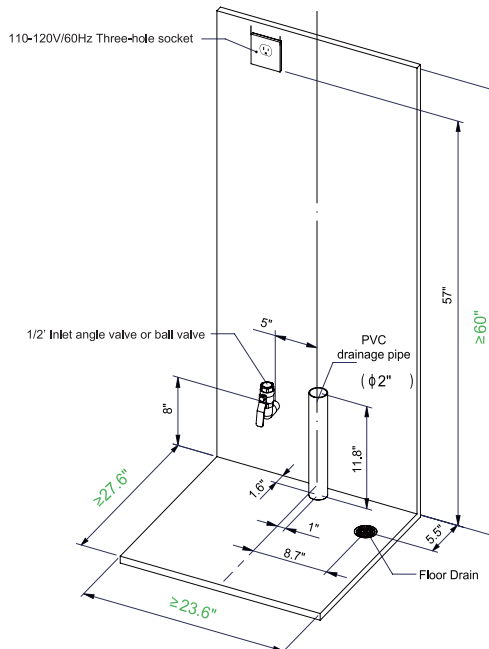
110-120V/60Hz three-hole socket. Access to municipal tap water. Drainage pipe, with the drainage pipe's height being at least 8" lower than the height of the water receiving basin.

(2) Installation Conditions

1. Product installation floor area: Not less than 27.6" × 23.6".
2. Product installation space height: Not less than 60".
3. Rated voltage/frequency: 110-120V/60Hz.
4. Ambient temperature: 39-105°F
5. Applicable water source: Municipal tap water.
6. Water inlet pressure: 14.5-58 psi.
7. Floor drain, sewage pipe diameter: $\Phi 2"$.
8. If the product is installed in embedded form, the clearance between each wall and the body of the machine must not be less than 6".



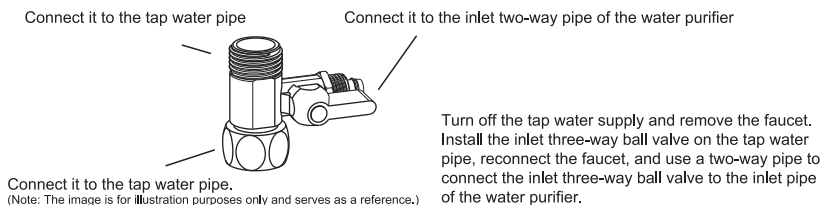
(3) Installation Schematic



Note: Please install the machine in a space with floor drain.
(Image for illustration purposes only, for reference only)

(4) Installation and Debugging

1. Install the inlet three-way ball valve.



2. Installation of Equipment

Cut a suitable length of the accompanying PE pipe, ensuring that the cut is smooth. Connect one end to the inlet three-way ball valve and the other end to the water inlet of the water purifier. Another section should connect the waste water outlet of the water purifier to the drain pipe.

3. Installation of Filters

- (1) Remove or open the front door panel.
- (2) Install the filters in the designated positions according to the order of the water treatment process, ensuring that the sealing rings and other corresponding accessories are correctly positioned. Rotate the filters to the installation limit or press down the fastener to prevent them from falling off.
- (3) Close or cover the front door panel.

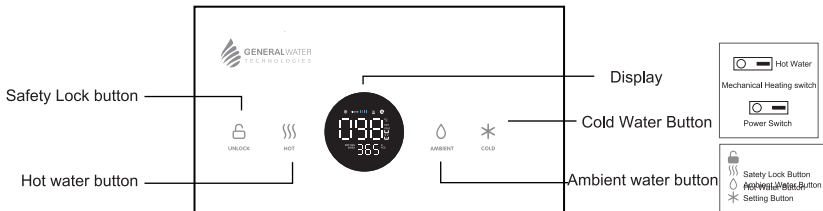
4. Water Purifier Debugging

- (1) Connect the PE pipe installed on the three-way ball valve to the dedicated flushing device.
 - (2) Remove the composite filter and activated carbon filter separately and install them on the dedicated flushing device. Open the three-way ball valve and flush for 5 minutes. After flushing, close the three-way ball valve and reinstall the filters.
 - (3) Remove the reverse osmosis membrane filter (or nanofiltration membrane filter) and install it on the dedicated flushing device. Open the three-way ball valve and flush for 20 minutes. After flushing, close the three-way ball valve and reinstall the filter.
- (Note: For products that do not support individual filter flushing, skip the previous steps and proceed directly to the following flushing operation, extending the initial normal water production to 3 cycles.)

- (4) Connect the PE pipe to the whole machine. Open the three-way ball valve and check for leaks at the connection. Start the machine for the first time and produce water normally. At this time, the heating and/or cooling switches should be turned off until water production is complete.
- (5) After water production is complete, turn off the machine, and open the drain outlet on the back of the machine for the hot tank and/or cold tank to drain the water. Close the drain outlet. Repeat this step twice.
- (6) Turn off the machine and let it sit idle for 24 hours.
- (7) After idle time, open the drain outlet on the back of the machine for the hot tank and/or cold tank to drain the water. Close the drain outlet.
- (8) Start the machine and produce water normally. After water production is complete, turn on the heating and/or cooling switches until the hot water and/or cold water reach the set temperature.
- (9) Turn off the heating and/or cooling switches and the machine. Open the drain outlet on the back of the machine for the hot tank and/or cold tank to drain the water. Be cautious of scalding from hot water during draining. Close the drain outlet.
- (10) Repeat steps 8-9 twice, and the produced water can be consumed normally.

3. Product Use

Dispense Instruction:



1. Turn on the power switch, heating switch, and cooling switch

- Hot Water Dispensing

Single Press Mode: Long press the "HOT" button until you hear a "beep" sound, water will start flowing, release to stop.

Double Press Mode: First touch the "UNLOCK" button to unlock with a "beep" sound. Then touch the "HOT" button to start dispensing with a "beep" sound, touch again to stop. The effective time for the hot water button is 3 seconds. After 3 seconds, the button becomes inactive. Within this time, touching the hot water button will dispense hot water normally.

- Ambient Water Dispensing

Single Press Mode: Long press the "AMBIENT" button until you hear a "beep" sound, water will start flowing, release to stop.

Double Press Mode: Simply touch the room temperature water button to dispense water normally.

- Cold Water Dispensing

Single Press Mode: Long press the "COLD" button until you hear a "beep" sound, water will start flowing, release to stop.

Double Press Mode: Simply touch the cold water button to dispense water normally.

- Stop Dispensing

Single Press Mode: Release to stop water flow automatically.

Continuous dispensing for 60 seconds will automatically stop.

Double Press Mode: While dispensing, touch the dispensing button again to manually stop water flow.

2. Power-off Memory

After the machine's power is turned off, it actively stores relevant parameters such as filter life, remaining sterilization time, equipment mode, etc.

3. Sterilization

Press the Room Temperature Water Dispensing button to activate UV sterilization.

4. Maintenance

(1) Filter Replacement:

The recommended replacement period for various types of filters in this product is based on the average water quality indicators of local tap water. If the actual water quality at the user's location and the usage rate of the machine significantly differ from the average indicators, there may be noticeable differences between the actual usage time of the filters and the estimated period. For example, premature clogging or failure of the filters may occur. In such cases, the actual usage status should be used as the basis for filter replacement.

Please contact the company or its authorized service provider promptly to replace the filters upon receiving the filter expiration reminder notification to ensure water quality safety and health!

No,	Filter	Recommended Filter Life (Month)
1	PCFF	6
2	RO	12
3	CTO	6

(2) Recommended Replacement Period for Key Components

No.	Component Name	Recommended Filter Life (Month)
1	Power Adaptor	60
2	Solenoid Valve	48
3	Display Unit	60
4	Boost Pump	60
5	PE Pipe	30
6	Corrugated Pipe	36
7	Sealing Components	36
8	Connector	36
9	Heating Element	60
10	Refrigeration Compressor	60

(3) Common Troubleshooting Steps

Fault Symptoms:	Cause of Fault	Troubleshooting
Display screen not lighting up	Power plug not inserted into the power socket.	Plug in the power.
	Switch key not turned on.	Turn on the switch.
	Circuit malfunction/ Transformer damage.	Check if the control transformer circuit is properly connected, replace the transformer if necessary.
Machine alarm indicating water shortage	Water supply is turned off.	Open the water inlet.
	Water pressure is too low.	Increase water pressure with a pressure boosting device.
	Malfunction of the low-pressure switch.	Replace the low-pressure switch.
	Control board program error.	Replace the control board.
Display shows water production but no water flows out	Filter cartridge is blocked or not installed properly.	Replace the filter cartridge and tighten it.
	Inlet solenoid valve is not opened.	Replace the solenoid valve.
	Machine float ball is stuck or jammed.	Replace the machine's float or adjust it.
Machine not heating or cooling	Machine is unloaded, in protection mode.	Reset the machine's thermostat.
	Circuit failure.	Check the circuit.
	Hot or cold gallbladder damaged.	Replace the hot or cold tank and the refrigeration compressor.
	Control board failure.	Replace the control board.

5. Product Warranty Service Guide

1. According to the national three-guarantee policy, warranty service is provided for the entire machine, starting from the date of purchase indicated on the invoice or legal certificate obtained by the user. Consumables are not covered by the warranty. If the warranty period exceeds, the user needs to establish a separate written agreement with the equipment supplier for additional warranty period. If the user holds an additional warranty certificate provided by the seller for the equipment, it is considered an individual act of the seller, and the seller will provide additional quality assurance services to the user.

2. Regardless of whether a service package is purchased or within the warranty period, the following components are not covered by the warranty:

- Consumables such as filter materials, UV sterilization lamps;
- Decorative shells, exterior coatings;
- Electronic components such as batteries, power adapters.

3. Regardless of whether a service package is purchased or within the warranty period, malfunctions or losses caused by the following reasons are not covered by the warranty:

- Installation, commissioning, and maintenance of the equipment by unauthorized personnel;
- Disassembly or modification of the equipment without authorization from the company;
- Use of accessories, filter materials, or filter cores not provided by the company;
- Malfunctions or damages caused by abnormal use or failure to operate the product according to the instructions;

- Damage caused by human factors (intentional or unintentional);
- Damage caused by force majeure such as natural disasters, wars, etc.

4. Notes for purchasing annual service packages:

- From the second year of purchase, distributors/users can purchase subsequent service packages, which include a full set of filters and on-site filter replacement services. If the equipment continues to be maintained (without a break in warranty period), it can enjoy on-site repair services for non-human damage faults within 5 years of service, and from the 6th year onwards, it can enjoy basic repair services for non-human damage faults within the current year. Basic repair and maintenance services include free on-site repair, free maintenance, and free replacement of faulty parts within the following scope:

- Repairs including vulnerable parts;
- Excludes additional replacement of consumables such as UV lamps, filter cores;
- Excludes replacement of durable parts such as heating, cooling systems, water pumps, pressure tanks, shells;
- Excludes replacement of electronic components such as motherboards, networking modules, displays.

- Annual service packages must be continuously extended and installed and maintained by manufacturer-designated installers in order to enjoy basic repair and maintenance services.

5. Please keep the warranty card and purchase certificate properly. When providing the promised warranty service, the company requires the user to present the warranty card and purchase certificate together.

6. The company does not make any other express or implied warranties or guarantees; the company is not responsible for indirect losses caused by equipment defects.

6. Packing List

Name	Quantity
Machine Body	1
PCFF	1
RO	1
CTO	1
Three-way connector accessory kit	1
PE Pipe	1
Maintenance Card	1
Certification Card	1

Note: The filter cartridges have been installed in the water purifier.

Name	Quantity
Machine Body	1
PCFF	1
NF	1
CTO	1
Three-way connector accessory kit	1
PE Pipe	1
Maintenance Card	1
Certification Card	1

Note: The filter cartridges have been installed in the water purifier.

Regulatory Information

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



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 residen

tial 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. 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. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.



CAUTION:

FOR INDOOR HOUSEHOLD USE ONLY.
RISK OF ELECTRIC SHOCK.
DISCONNECT POWER ADAPTOR BEFORE
SERVICING.
ONLY USE THE POWER ADAPTOR PROVIDED
WITH THE APPLIANCE.

ATTENTION:

POUR USAGE DOMESTIQUE SEULEMENT.
DÉBRANCHER DU CIRCUIT D'ALIMENTATION
AVANT
D'OUVRIER.
UTILISEZ UNIQUEMENT L'ADAPTATEUR
D'ALIMENTATION
FOURNI AVEC L'APPAREIL.