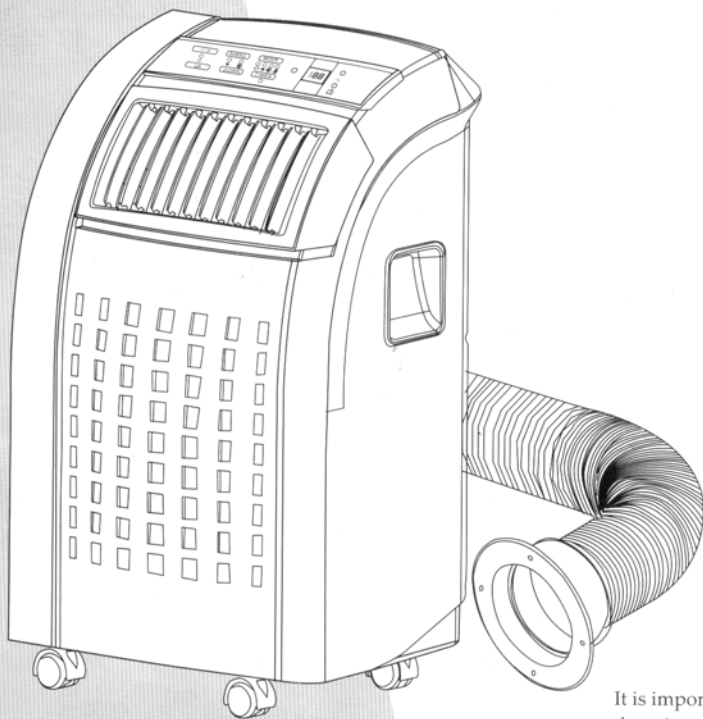# TECHNITREND™

Instruction Manual

For Models TN-09E TN-12E

P O R T A B L E
Air Conditioner

It is important that you read these instructions before using your new purchase and we strongly recommend that you keep them in a safe place for future reference.

Table of Contents

Thank you for choosing the portable air conditioner from Technitrend, a leading brand in indoor air treatment. We would like you to enjoy the many benefits this unit offers, so please take the time to read this manual carefully and take full advantage of the many advanced features that your Technitrend Air Conditioner offers you. Technitrend has specialized in complete indoor environment control, manufacturing world-class air conditioners, dehumidifiers and air purifiers with innovative technology. In designing these advanced products, we have listened carefully to our customers and have passed their views on to our research and development laboratories.

We wish you many years of enjoyable use.

After reading this manual, please keep it in a safe place for future reference.

Energy Saving Tips

• Please use the unit in the recommended room size. (Refer to SPECIFICATIONS).
• Do not locate the air conditioner where furniture or other objects can obstruct the airflow.
• Keep blinds/curtains closed during the sunniest part of the day.
• Close the fireplace damper and floor or wall grills so that cool air does not escape through the chimney or ductwork.
• Keep the filters clean.

Set the unit to maximum cooling and high speed fan initially, then adjust the unit to a comfortable setting.

NOTE: It is recommended to turn on the air conditioner when the room temperature is around 75°F. Do not wait until the room is excessively hot.

Specifications

Model Number	TN-09E	TN-12E
Cooling Capacity	9,000BTU/hr	12,000BTU/hr
Heating Capacity (1)(2)	N/A	N/A
Power Consumption	873W / 8.15A	965W / 8.5A
Humidity Removal Capacity	50 pts./day	65 pts./day
Recommended Room Size*	250 sq. ft.	400 sq. ft.
Power Supply	115V / 60Hz / 1 Phase	115V / 60Hz / 1 Phase
Compressor	Rotary	Rotary
Refrigerant	R-22 / 18.3 oz	R-22 / 17.3 oz
Fan Speed	2	2
Timer	1-12hours	1-12hours
Thermostat	62°F - 90°F	62°F - 90°F
Net Weight	63 lbs	65 lbs.
Dimensions	17"W x 16"D x 30"H	17"W x 16"D x 30"H
Working Temperature	Cooling: 62°F to 110°F	Cooling: 62°F to 110°F

REMARKS:
1. The data may vary, please refer to the rating label on the back on the back of the unit.

2. The above conditions are measured at:
   Cooling - Indoor: RT 81°F, RH 60%
   Heating - Indoor: RT 68°F, RH 60%

* Uninsulated rooms such as sunrooms, garages, or attics should be less than 250 sq. ft.

Important!

- Transport the unit in an upright position only, or leave it in an upright position for at least 2 hours before first use.

- Always place the unit on an even surface (Figure 1).

- Make sure the unit is connected to a correctly grounded power supply (refer to the rating label located at the back of the unit).

- An opening in a window or wall is required to accommodate the exhaust hose (kit supplied) to expel the warm air.

- Do not cover or obstruct the appliance inlet or outlet grilles (Figure 2).

- To avoid the risk of shock, the product should never be used in bathrooms, shower rooms or in any other steamy or wet areas.

- The unit will cool when the room temperature is between 62°F and 110°F depending on the thermostat setting.

- Do not sit or place objects on the unit.

- Do not touch the unit with wet/damp hands or when standing barefoot.
- Avoid all contact with chemical based materials.

- The filter must be used with the product at all times. When removing for cleaning, always disconnect the unit from the mains first.

- Turn off the appliance when not in use.

- At the end of each season all water must be drained and the unit and filters cleaned before storage.

- **Drainage of the water container is required before moving the unit or putting it into storage.**

- If the electric socket is different from the plug provided, have a professionally qualified electrician replace the plug with a suitable one. Avoid the use of adaptor plugs, multiple sockets and/or extension leads; if their use is necessary, ensure that they conform to the current safety regulations.

- Do not pull the supply cable or place it near a source of heat; always unroll it completely to avoid the possibility of dangerous overheating.

- If the supply cord is damaged, it must be replaced by the service agent or a similarly qualified person.
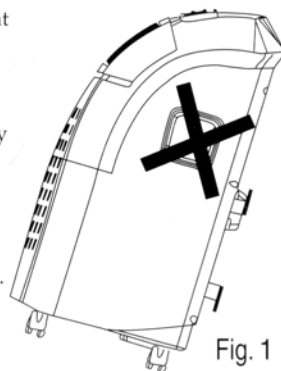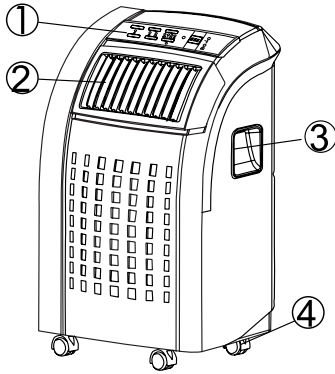
Fig. 1

Fig. 2

THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY IF THE ABOVE INSTRUCTIONS ARE NOT FOLLOWED.
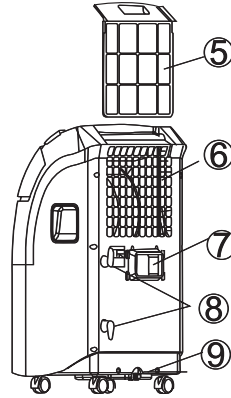
Parts

Front

Back

1. Control Panel
2. Cooling Air Outlet
3. Handle
4. Castors

5. Air Filter
6. Air Inlet
7. Exhaust Air Outlet
8. Cord Hanger
9. Water Stopper (Rubber Plug Inside)

Accessories

10. Adaptor - for insertion over the hose and into the back of the air conditioner.

11. Round Connector - to be used between hose and window kit or between hose and wall.

12. Exhaust Hose
    Length: 14"-60"
    Diameter: 4.75"

13. Plastic Slider kit-for filling the open window space and with a hole for connection to the exhaust hose.
    Dimension:7"x24.5"x0.75"
    Plastic Slider kit - for filling the open window space.
    Dimension:7"x24.5"x0.75"

14. Cap for Round Connector

15. Drain tube

16. Carbon filter

17. Remote Control
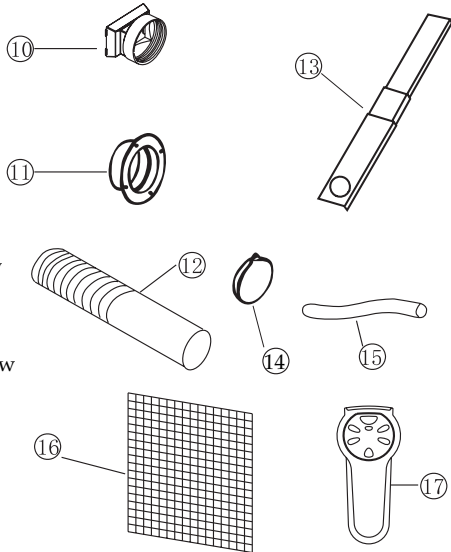
Installation

Mounting the unit

This unit is a portable air conditioner. It can be moved from room to room so that the cooling can follow you anywhere. Fitting the exhaust hose is easy, through a window or wall.
Please refer to either of the following ways:

1. Using the Plastic slider kit
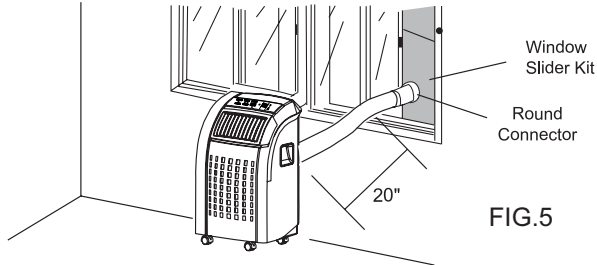

Window Slider Kit
Round Connector
20"
FIG.5

- Remove the 4 screws around the circular opening on the plastic kit.
- Insert the round connector through the circular opening, the lip of the round connector should be on the flat side of the slider kit. Align the screw openings and replace the 4 screws.
- Determine how many sections of the slider kit your window/sliding door requires.
- Place the slider kit inside the window/door frame, with flat side of round connector facing out.
- To adjust the height of the slider kit: align the small openings on the side, when the desired height is reached, insert a small screw (not supplied) through one of the opening.
- Extend one end of the exhaust hose and insert it into the Round Connector. Tighten hose by turning clockwise.
- Attach the Adapter to the other end of the hose. Tighten by turning Adapter clockwise.
- Attach the Adapter to the back of the unit.
- Slide window / patio door close against the slider kit.
- Make sure the exhaust hose has no kinks or sharp bends.
- The best distance between the machine and window or wall is 31-39 inches.
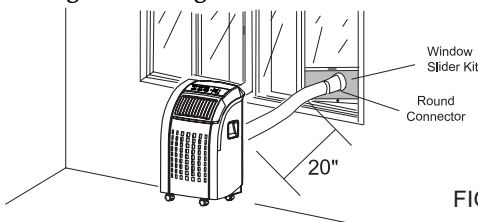
2. Using the Through the Wall

Window Slider Kit
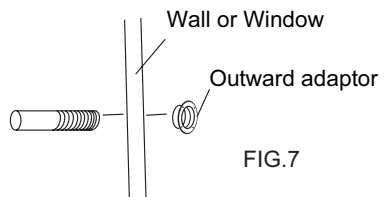Round Connector
20"
FIG.6

Wall or Window
Outward adaptor
FIG.7

- Make a hole (5" in diameter) in the wall to fit the supplied round connector.
- Fit the hose directly to the round connector.
- When the hole is not in use, use the cap for the round connector to cover the hole.

Installation

Mounting the exhaust pipe

• The supplied exhaust hose can be extended from 1 foot to 5 feet for mounting. It is recommended that you use the shortest possible length of hose.
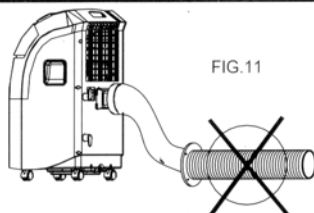
FIG.8

FIG.9

• Take care to prevent any kink or bend in the middle of the exhaust hose, as this will trap hot exhaust air, which will radiate back into the room.

FIG.10
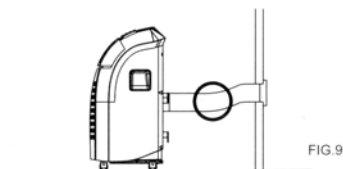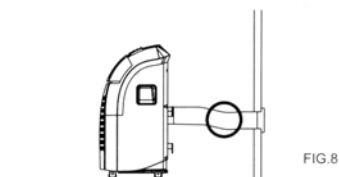
WARNING!
The length of the exhaust pipe is specially designed according to the specification of this product.
Do not replace or extend it with your own hose as this could cause the unit to malfunction.

FIG.11

Installation of the Carbon Filter

1. Remove the filter frame from the unit.
2. Separate the filter from the filter frame.
3. Remove the active carbon filter from its plastic bag.
4. Insert the active carbon filter into the filter frame.
5. Fix the filter by reassembling the fixer onto the filter frame.
6. Re-fit the filter frame inside the unit.
7. It is recommended to replace the carbon filter every 3 to 6 months..
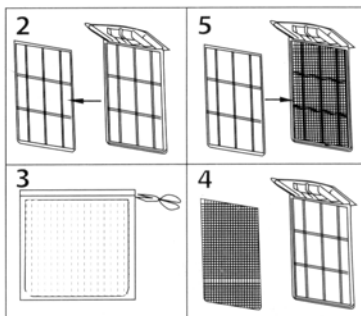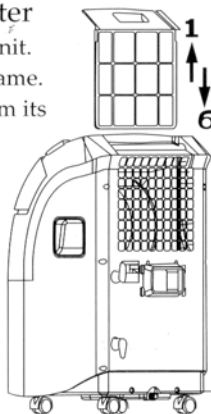
Operation - Electronic Control Models

Control Panel

1. I/O(power)button
2. Compressor operation indicator
3. Speed(ventilation)button
4. Low ventilation indicator
5. High ventilation indicator
6. Mode(function)option button
7. Automatic mode indicator
8. Cooling mode indicator
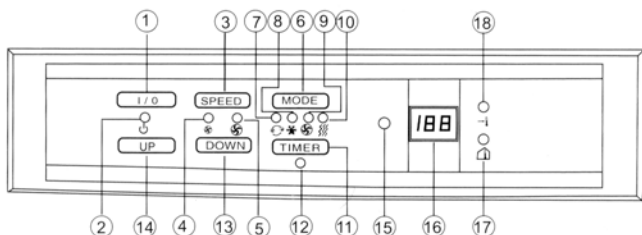9. Fan mode indicator
10. Heating mode indicator(not applicable)
11. Timer button
12. Timer operation indicator
13. `Temperature down` button
14. `Temperature up` button
15. Receiver for Remote Control
16. Display window
17. `Room temperature` indicator
18. `Set temperature` indicator

Turning ON/OFF
Press the ON/OFF selector; the unit will start to work at its last setting.

Setting Mode/Function
Press the MODE button to select the required working mode: Automatic, Cooling, Fan
The green indicator illustrating your selected mode lights up. It is recommended to select Cooling and set your desired temperature, as the Auto mode has a preset temperature (please see below) that cannot be changed.
The indicators of the functions in progress come on at the same time, e.g. Cool and Lo = Cooling mode with Low fan speed.

Auto Mode
When this mode is selected, the unit is preset to the following temperature settings and unit will only start to:
• Cool when room temperature is higher than 75°F
If room temperature is between 68°F and 75°F, unit will stay in Fan mode. Again, when in Auto Mode, the temperature settings cannot be changed.

Setting the Temperature in Cooling
The display window's default is to display the ambient room temperature. The green indicator light under RT is on.
(RT = Room Temperature)
To set your desired temperature, press the Temperature Up or Down buttons (ranging from 62°F to 90°F). Each press will increase or decrease your set temperature by 1°F. When pressing the temperature up or down buttons, the window will change to display your set temperature. At this time, the green indicator will light under ST (Set Temperature). Once the temperature up or down buttons is released, the window will return to displaying the ambient temperature after a second.
Note: When unit is in the following modes: Auto, or Cool - the compressor will cool the room to reach the set temperature. Once the ambient temperature has reached the set temperature, the compressor will stop and unit will run in Fan mode.
To conserve energy, the compressor will not start immediately after a couple degrees increase or decrease, In auto mode, it will wait for a 5°F as an allowance. In cooling mode, it will wait for a 1°F as an allowance.

In Cooling Mode with a set temperature of 70°F
When compressor first stops after reaching 70°F, unit will auto-switch to Fan.
Compressor will start cooling again when ambient temperature increases to 71°F or above.

In Auto Mode (with preset temperature and 75°F for cool)
Compressor will start cooling again when ambient temperature reaches above 80°F

Operation - Electronic Control Models

Setting The Fan Speed
Press the SPEED button to choose the fan speed you require, high or low.

The indicator of high or low fan will light up at the same time.
If the unit is in AUTO mode, it will select the fan speed automatically according to the ambient temperature (the related indicators, cool, fan or heat will light up), at this time the fan speed switch is invalid.

Setting the Timer
Press the TIMER button to set the operating hours you desire (1 to 12 hours, the timer indicator will light up). When the set time has elapsed, the machine will turn off automatically. The display window will show the hour(s) you set as you press the TIMER button. If the timer button is not pressed, the unit will work continuously.
By pressing the timer button but without turning on the unit, you can PRE-SET the time for the machine to work. For example, if you press the timer to '2', the unit will come on automatically after 2 hours.
All the above functions can also be performed with the supplied remote control. This remote control requires 2 AAA batteries to operate.

Regulating the airflow direction
Turn the roller on the air vent to control the airflow direction from the vertical louvers.
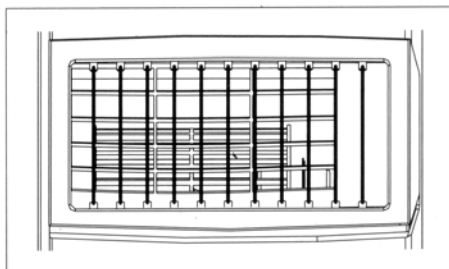
Notice!
- To prolong the unit's life, it will start 3 minutes after the unit was switched on. After switching off, please wait at least 3 minutes before switching it on again.

- The cooling system will switch off if the room temperature is lower than set. The fan, however, keeps working at the set level. If the ambient temperature rises above the chosen temperature +1°F, the cooling will resume.

Maintenance

Always unplug the unit from the mains before beginning the cleaning.

Cleaning the Housing

Use a soft, damp cloth to wipe the body clean.
Never use strong chemicals, oil-based products, detergents, chemically treated cloths or other cleaning solutions. These could possibly damage the cabinet. Important! Clean the exhaust air intake area (located on the side, near bottom) with a vacuum to remove dust accumulation. Excessive dust may cause a decrease in performance and/or damage to the compressor. Damage caused by improper maintenance will void the warranty.

Cleaning the Filter

Use a vacuum cleaner or tap the filter lightly to remove loose dust and dirt from the filters and then rinse them thoroughly under running water (no hotter than 104°F) Do not wet the activated carbon filter, remove from frame before washing.
Dry thoroughly before replacing.
*Notice! Never operate the unit without the filters.*

End of Season Storage

Unplug the unit.
Drain the condensed water COMPLETELY (please refer to page 9). Clean or change the filter.
On a warm day, turn the unit to fan mode for a couple of hours so that the inside can dry out completely. It is recommended that the unit be put back into its original carton for storage. Do not stack heavy objects on top of the unit.
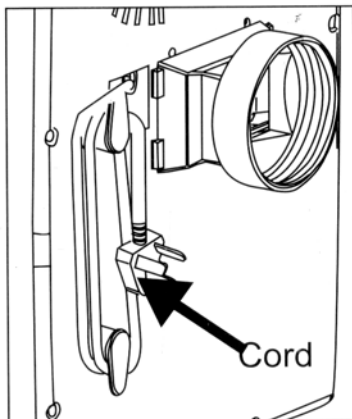
Fig. 3

Storing The Power Cord

When the unit is not in use, please store the power cord away shown in Figure 3.

Troubleshooting

The unit doesn't run or only runs in fan mode
- Is the machine plugged in?
- Is the mains power supply on?
- Is the room temperature in the working range?
- Is the unit in auto mode? (Electronic Model) set to cool or heat and set to proper temperature.

The unit seems to do little
- Is there direct sunshine? (Please close the curtains or blinds)
- Are too many windows or doors open?
- Are there too many people in the room?
- Is there something in the room producing lots of heat?

The unit seems to do nothing
- Is the dust filter dirty?
- Is the air intake or outlet blocked up?
- Is the temperature within the selected temperature +/- 5°F?
- Is the water tank full? Drain the water.

The room is not cold enough
- The room being cooled should have proper insulation. If the unit is used in UN-INSULATED rooms such as Sunrooms, Garages, or Attics, ideal cooling might not be attained.

Too noisy
- Is the machine positioned unevenly so as to create vibration?
- Is the floor underneath the machine uneven?

The compressor doesn't run
- The overheat protection feature on the compressor might be on. If this occurs, wait for the temperature of the unit to drop.
- Is the water container full? Does it need draining?

NEVER TRY TO REPAIR OR DISMANTLE THE UNIT YOURSELF

REPLACEMENT FILTERS:
To purchase Replacement Filters for this unit, contact SPT usa at 1-800-330-0388 and request model number TN-12**F** & TN-09**F**.

If this product is defective or not working properly,
please DO NOT return to your retail store.
Please contact us directly for any Service or Technical Assistance at 1-800-330-0388.

TECHNITREND™

Portable Air Conditioner

Your Guarantee

If this product is found to be faulty as a result of faulty materials or workmanship within one year from date of purchase, it will be repaired or replaced free of charge. This guarantee is subject to the following terms:

TECHNITREND™ must be notified of the fault.

Proof of purchase must be presented to TECHNITREND™ nominated representative.

The warranty will be void if the product is modified, misused or repaired by an unauthorized person.

The guarantee after repair or replacement will not be extended beyond the original one year period.

All replacement parts or units will be new or reconditioned.
Parts or units, which are replaced, become the property of TECHNITREND™.

The warranty applies to the use of this product in the United States.

Warranty does not include freight charges.

This GUARANTEE is in addition to your Statutory Rights.

TECHNITREND™ By SUNPENTOWN.
1-800-330-0388 www.spt-usa.com

Dear Customer: Please keep this warranty for your record. **DO NOT** return it.