



FORD & DOONAN
Air Conditioning Systems

Operating Instructions

for your



Panasonic
Ducted System

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Ford and Doonan – Head Office
5 Weatherburn Way
KARDINYA WA 6163

Postal Address
PO Box 6089

HILTON WA 6163

Ph. (08) 9331 8800

Fax. (08) 9331 6600

All Service Enquiries

Ph. (08) 9331 8800

Ford and Doonan – West Perth
Shop 10 Railway Parade
City West mall
WEST PERTH WA 6005

PH. (08) 9322 8666

Fax. (08) 9322 8677

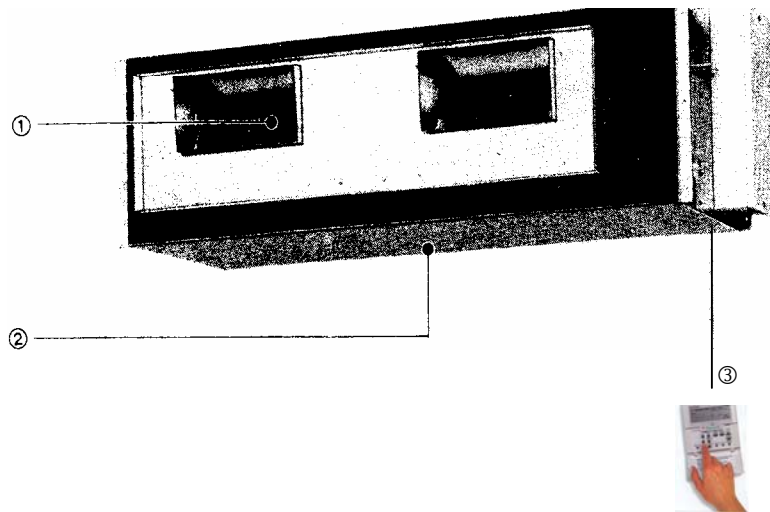
Email – fordoon@fordanddoonan.com.au

Website – www.fordanddoonan.com.au

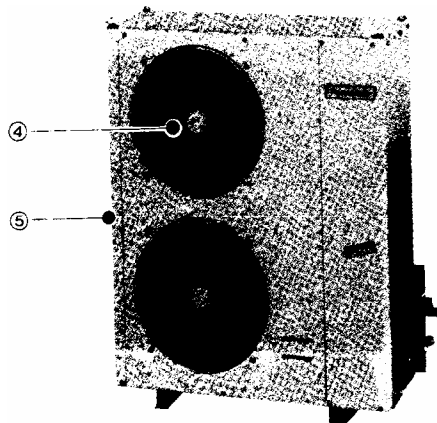
Identification

1. **Air Outlet:** This is the outlet to emit the air taken in.
2. **Air Inlet:** (Rear) This is to take in room air.
3. **Remote Control Unit** (refer to Page 3)
4. **Air Outlet**
5. **Air Inlet (rear)**

Indoor Fan Coil Unit



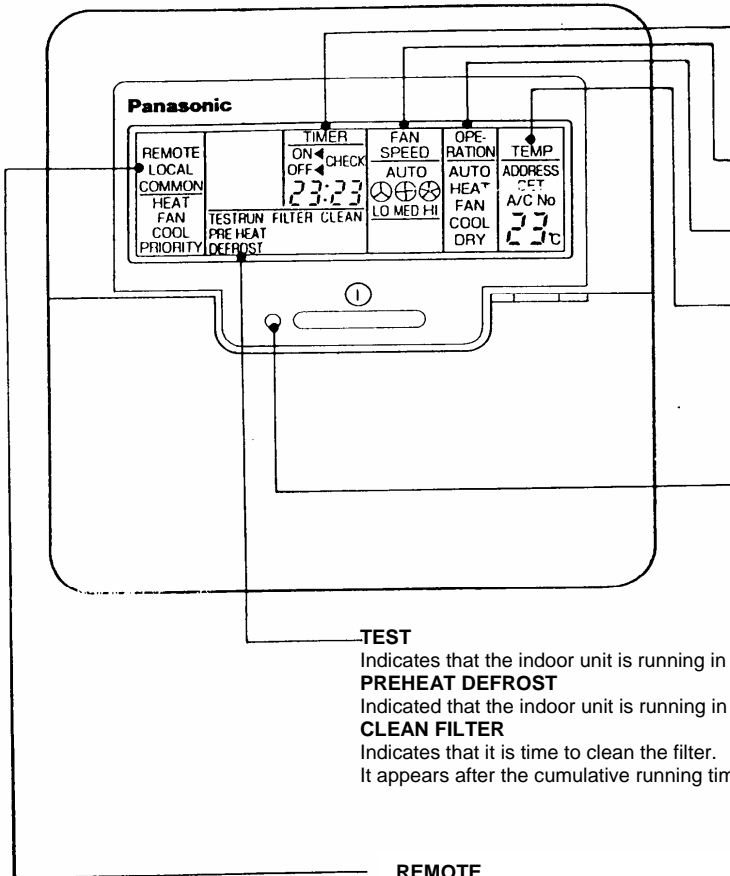
Outdoor Condensing Unit



WIRED REMOTE CONTROLLER

NAME AND FUNCTION OF EACH PART

Display Panel



Timer/time Setting display
This display shows the timer operation setting time or the current time.

Fan speed display

Operation selection display

Temperature setting display
This display shows the setting temperature for the indoor unit. The temperature can be set within the range 16⁰ – 31⁰C

Operation indicator (red)
This indicator illuminates when the indoor unit is running.

TEST

Indicates that the indoor unit is running in test operation mode.

PREHEAT DEFROST

Indicated that the indoor unit is running in pre-heating or defrosting mode.

CLEAN FILTER

Indicates that it is time to clean the filter.

It appears after the cumulative running time reaches approximately 2,500 hours.

REMOTE

The RUN and STOP functions on the remote control unit cannot be used.

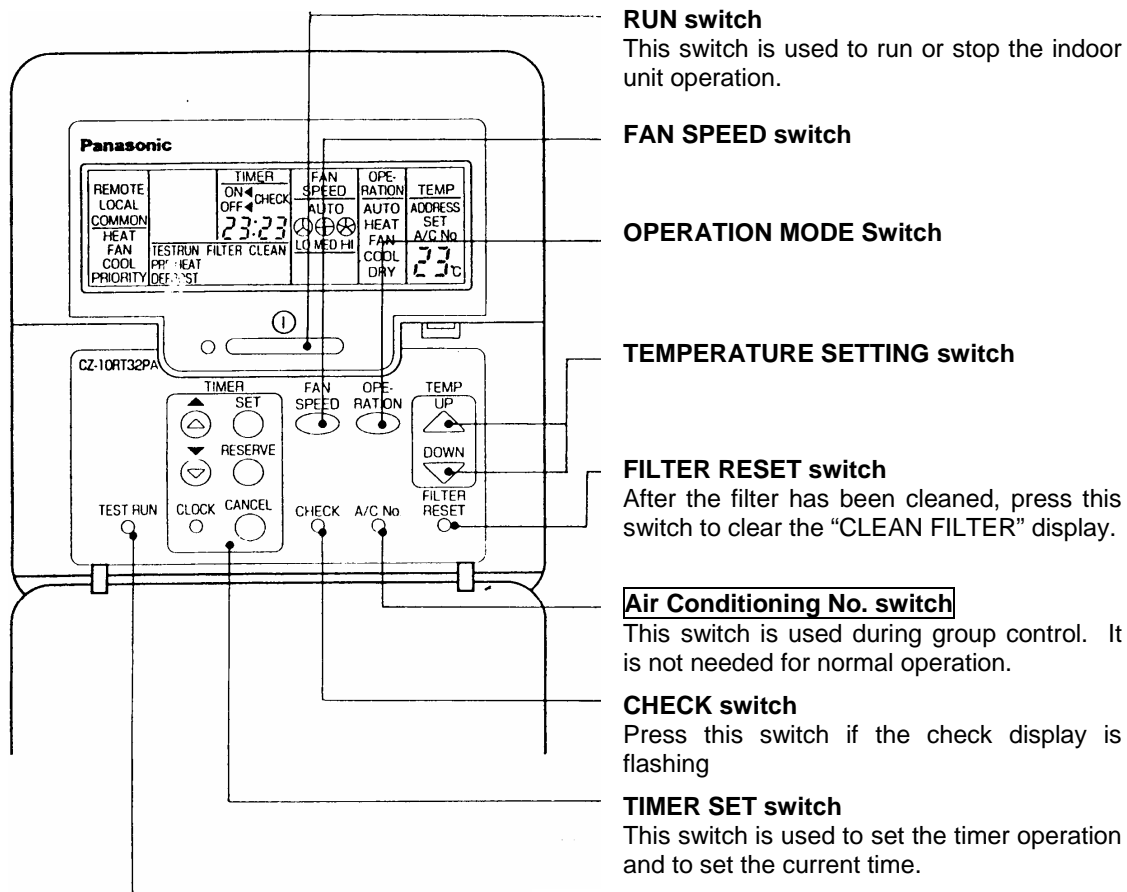
LOCAL

All remote control unit functions can be used.

COMMON

Operation is possible using a device other than the remote control unit.

REMOTE CONTROLLER (operating panel)



TEST RUN switch

This switch is only used during test operation. It is not needed for normal operation.

NOTES:

Make sure that you press the switches properly. If two switches are pressed simultaneously, the setting will not be made correctly.

The illustration above shows the appearance with the cover opened and all displays active, and is given for explanatory purposes only. The appearance will be different to this during actual operation.

Do not operate the remote control unit with wet hands, otherwise electric shocks or operation problems may result.

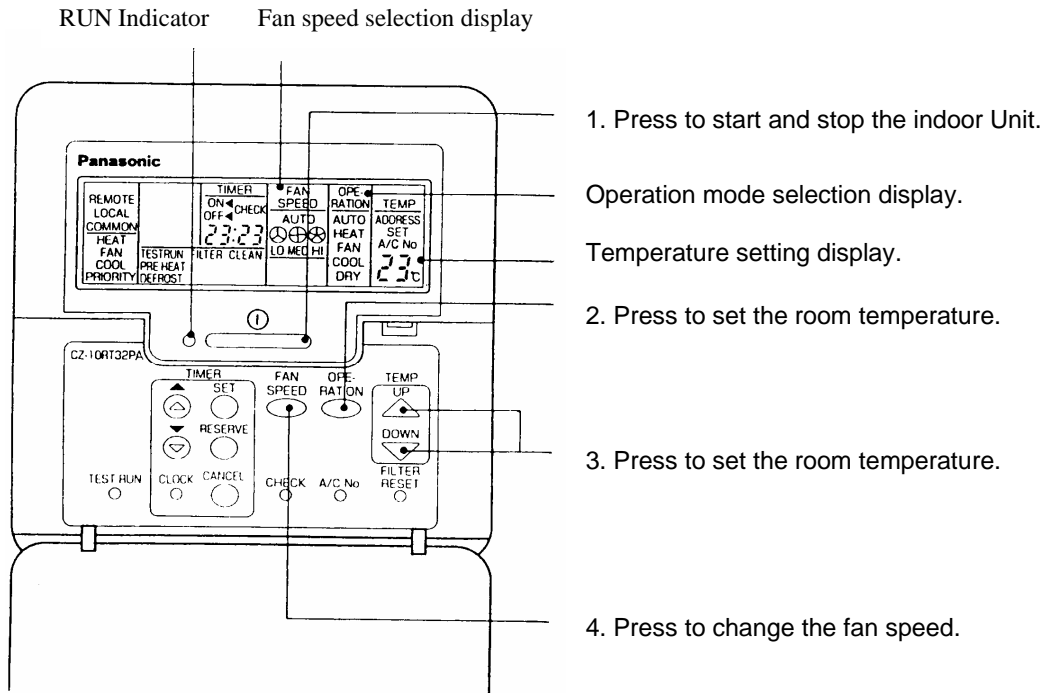
Do not press the remote control switches with sharp objects, as this may damage the remote control unit.

Switch names with a box outline are not needed for normal indoor unit operation and should not be pressed. If one of these switches is pressed by mistake, press the same switch once more to cancel the operation.

If using the indoor for the first time, be sure to set the current time before running the indoor unit.

HOW TO OPERATE (WITHOUT THE TIMER)

If not using the timer



NOTE:

Once a switch has been pressed to make a setting, that setting is retained even when the RUN switch is pressed to stop and restart operation.

You will need to reset the timer if the power supply for the unit stops for one hour or more due to a power shortage or because the power has been turned off. However, depending on the ambient temperature, there may be cases where the setting is cleared before one hour has passed.

1. To start and stop operation

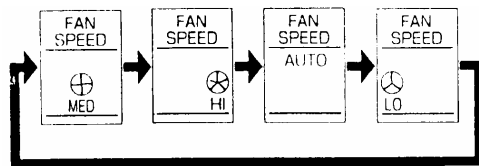
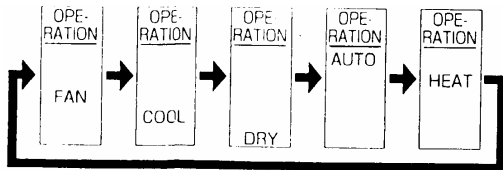
Press the RUN switch. The Run indicator will come on and the indoor unit will start operating.

Press the RUN switch again. The RUN indicator goes off and the indoor unit stops operating.

2. To Change the operation mode

When the OPERATION MODE switch. The operation mode will change each time the switch is pressed.

(Heat mode is Heat pump type only)



■ AUTO operation

In this mode, the indoor unit automatically detects the difference between the remote control unit setting temperature and the indoor unit intake air temperature, and automatically switches operation between HEAT, FAN and COOL operation modes to maintain a constant room temperature.

(If using model which is designed for cooling only, the operation mode switches between COOL and FAN to maintain a constant room temperature.)

■ D
R
Y
o

peration

If DRY operation mode is selected, the indoor unit automatically switches to cooling operation with a low fan speed.

(DRY operation mode cannot be used if the room temperature is less than 21°C or if the remote control unit temperature setting is higher than the room temperature.)

3. To set the room temperature

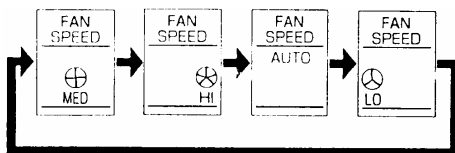
To increase the room temperature Press the UP switch



To decrease the room temperature Press the DOWN switch

The number appearing in the display will increase.

The number appearing in the display will decrease.



4. To change the fan speed

Press the FAN SPEED switch

The display will change as follows each time the switch is pressed.

■ A

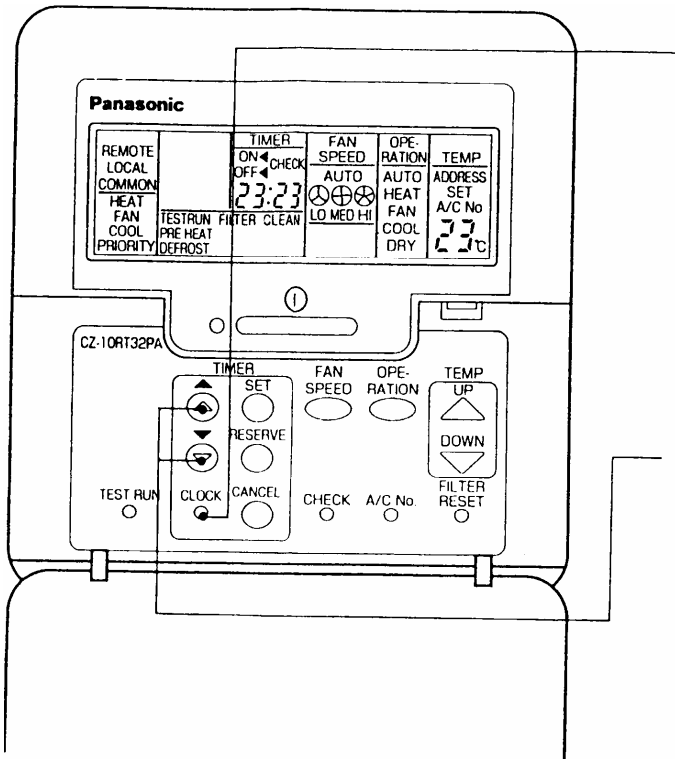
UTO fan speed

If AUTO is selected, the indoor unit detects the difference between the remote control unit setting temperature and the indoor unit intake air temperature, and automatically switches the fan speed accordingly.

The larger the difference between the two temperatures, the greater is the fan speed.
(If the operation mode is set to FAN, the fan speed is fixed at MED regardless of the temperature difference.)

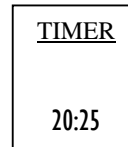
HOW TO OPERATE TIMER OPERATION

Setting the current time



1. Press the CLOCK switch

(Example)



(The time display will flash.)

2. Set the time

To set a later time

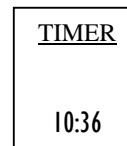
Press the **UP** switch

To set an earlier time.

Press the **DOWN** switch

The setting changes more rapidly if the switches are pressed continuously.

3. Press the CLOCK switch once more.

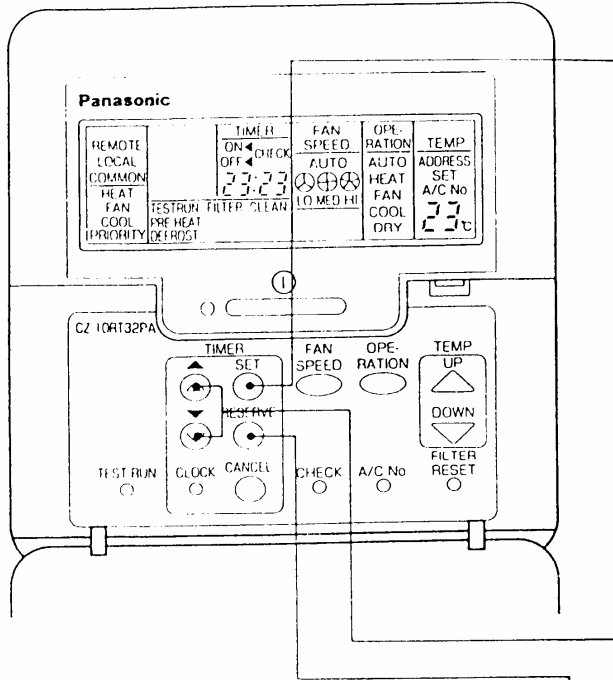


(The display will stop flashing and the setting will then be completed.)

HOW TO OPERATE TIMER OPERATION

Setting timer operation

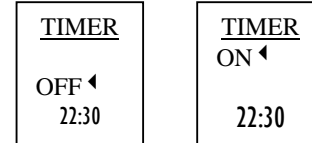
<Timer operation can be used to start the indoor unit automatically.>



1. Press the SET switch

The current time will flash and OFF will appear in the display.

◀ ▶
(Example)



If you would like operation to stop at the setting time, press the SET switch so that OFF appears in the display.

If you would like operation to start at the setting time, press the SET switch so that ON appears in the display.

The display switches between ON, OFF and the current time each time the SET switch is pressed.

Changing the settings

Repeat steps 1, 2 and 3

Clearing the settings

Press the CANCEL switch to clear the display.

(The display will return to showing the current time.)

If the setting procedure is not completed within 1 minute, the setting will be cleared automatically.

After the timer operation setting is completed, the timer setting time will appear in the timer display.

If setting both ON and OFF times
Set the OFF time before setting the ON time.

Once the setting has been made, both the ON and OFF setting times will be displayed.

(The "◀" mark will indicate which operation will be carried out next.)

If the ON and OFF settings are set to the same time, the setting will not be accepted.

2. Set the time.

To set a later time

Press the switch

To set an earlier time.

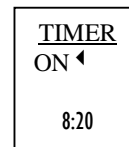
Press the switch

Setting is possible within the range 0:00 to 23:50, in intervals of 10 minutes.

The setting changes more rapidly if the switches are pressed continuously.

3. Press the RESERVE switch

(Example)



(The display shows the example where operation stops and then restarts at 8:20am.)

("◀" will appear next to the ON or OFF display, the time setting display will stop flashing and then light.

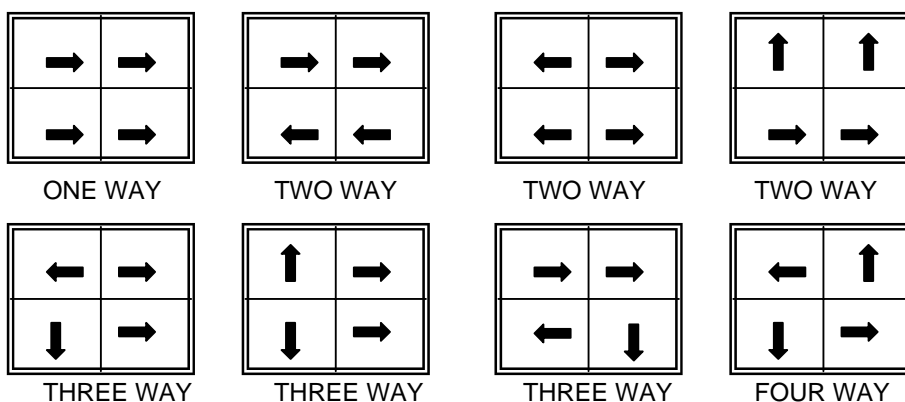
The setting will then be complete.

ZONE OPERATION

- ❖ Down is on for the zone switches.
- ❖ Select which area you wish to condition and switch on the appropriate switch.
- ❖ **NEVER TURN ALL ZONES OFF.**
- ❖ You may operate two or more zones at once, depending on the capacity of your unit, design and heat load. For example, under maximum heat load (a hot day) it is better to have fewer zones on than under a low heat load (at night) when an extra zone may be turned on.
- ❖ The zones can take up to 2 minutes to open or close.

AIRFLOW

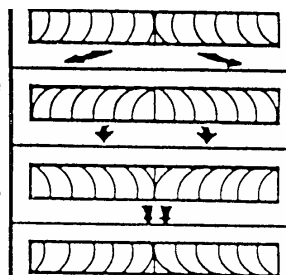
- ❖ Multi-Directional Outlet (if applicable) outlets are designed to give maximum adjustment to airflow. Each of the four cores is adjustable by lifting and turning to direct air from one direction to another.



For the distribution of cool air, the louvre panels are set to deflect air horizontally across the ceiling.

For high ceilings and heating systems the louvre panels are adjusted to achieve 40% downward flow.

For spot cooling and heating, the louvre panels oppose each other for a vertical down airflow.



The outlets can be manually closed during winter if the system is not used for heating, although this is not a necessity.

CHECK POINTS BEFORE REQUESTING REPAIR ON SERVICE

If the cooling effect cannot be achieved as desired, check the following points before requesting repair or service.

If the air conditioner does not function

- ❖ Is the power switched ON?
- ❖ Has the power fuse failed?
- ❖ Is power supplied?
- ❖ Has the circuit breaker tripped?
- ❖ Is the temperature indicator set in the correct operation position, or to a position, which is too high for the cooling operation?

Not cooling or heating as desired

- ❖ Is the thermostat set to the proper position?
- ❖ Is there an obstruction near the air intake or outlet port?
- ❖ Is the air filter free from clogging by dust, dirt etc?
- ❖ Are doors and windows completely closed?

If the "CHECK" indicator starts flashing:

Check the above again, turn off the operation switch or circuit breaker, wait about 3 minutes, then restart.

If the "CHECK" indicator starts flashing again.

- 1) Press the "CHECK" switch.
- 2) The temperature setting display changes
- 3) "F2" to "F18" appears

Contact **Ford & Doonan** with the serial number and explain the problem.

PH. (08) 9331 8800

Fax. (08) 93316600

“FILTER CLEAN” DISPLAYS

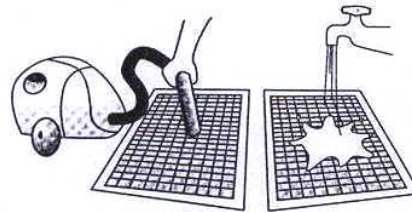
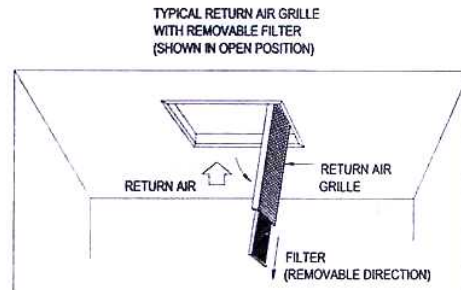
This indicates it is time to clean or replace the filter. Press this switch to reset and clear the symbol.

MAINTENANCE

1) **Cleaning the air filter**

DOMESTIC: at least every 2-3 months.

COMMERCIAL: at least once per month.



2) **Cleaning the outside panel**

Cleaning the outside panel by using a soft cloth or a cloth dampened by a neutral detergent solution. Never use paint thinner, other chemical products, or polishing powder when cleaning the outside panel. A good quality car polish can be applied to the painted surfaces to increase the paint's durability.

3) **When the unit is not to be used for a long time**

- ❖ Switch OFF the main power switch
- ❖ Rust preventative coating has been applied to the outside cover. If corroded, repair by painting.
- ❖ Clean the condenser to remove dust, waste etc (ie. leaves, waste, paper).

4) **Maintenance service contract recommended**

Preventative maintenance by qualified technicians has been proven to reduce the risk of failure of plant and equipment and maintain the efficiency of the overall installation.

Servicing by a qualified technician is recommended. For equipment subjected to heavy use, a bi-annual service frequency is desirable, whilst units subjected to lighter usage should be serviced annually.

Please find attached a return advice, which sets out maintenance options for your particular installation. Should you agree to the need for regular maintenance, kindly tick the option you prefer corresponding to your projected requirements and return it to our office for processing. Your service will be automatically scheduled according to your instructions.

Name

Ref No.

Address

.....

(Please tick as appropriate)

A Please schedule our installation for one service per year.

B Please schedule our installation for two services per year.

C I will contact Ford and Doonan when I require my installation to be serviced.

Date:

Signature.....

NOTES FOR EFFICIENT OPERATION

Thank you for purchasing your air conditioning system from Ford & Doonan. As you become accustomed to using the system, it may be helpful to reiterate a few points that will ensure that your system is operating to its full capacity. By developing some techniques you will be able to reduce your overall running costs and enjoy the advantages of living with an air conditioning system.

- 1) When operating an air conditioning system that utilises the zoning technique, remember the system has only a certain capacity, therefore the idea is to air condition the areas you are in at the time. With this in mind it then becomes prudent to habitually close the doors that lead to a non air conditioned area, thereby reducing the total area being subjected to air conditioning. This then will enhance the effectiveness of the machine.
- 2) You will notice that the larger Return Air Grille is normally located in a central position in the building. It is important to encourage the airflow towards this grille. This grille is drawing the total air capacity of the system through it and therefore requires unrestricted airflow. Depending upon the building you may need to open or close doors around this area to keep the air flowing to this grille.
- 3) The Return Air Grille in most cases also contains an air filter. This air filter, depending on the system usage and other air quality factors will need to be cleaned regularly. To do this simply open the grille and slide out the filter. In most cases it is best to hose the filter clean, although some people prefer to vacuum the filter. Remember, regular cleaning of the filter will improve the system efficiency.
- 4) The condensing or outdoor unit is located in a position to best suit the building and the occupants. It is important to maintain cleanliness around the unit, for example sweeping away any build up of leaves or general flotsam is generally all that is required. It is critical to not inhibit the airflow coming from the condenser, other equipment or general garden paraphernalia should never be stacked on or leant against the condenser. Similarly if a garden is developing around the condenser, this can be an advantage as some of the sound from the condensing unit will be absorbed, although a robust bush can block the air flow so consideration should be given to this, it is also imperative to keep the condensing unit accessible for servicing purposes.

