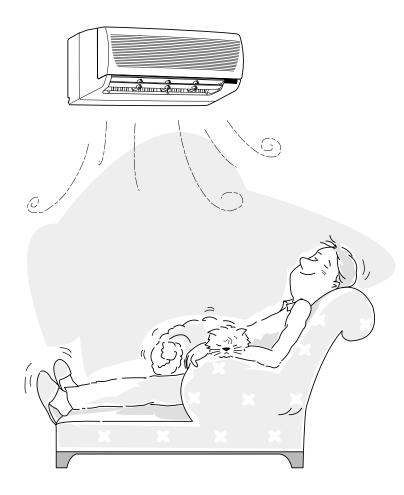


MINISPLIT HIGH WALL AIR CONDITIONER

Owner's Manual

MODELS

MHC-MHH/BOC-BOH 07 MHC-MHH/BOC-BOH 09 MHC-MHH/BOC-BOH 12 MHC-MHH/BOC-BOH 18 MHC-MHH/BOC-BOH 25



035T79000-000

Please read this owner manual carefully before using the air conditioner. It will tell you how to use the unit properly and help you if any trouble occurs.

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We will continuously strive to satisfy our customers with consistent reliability in product, service and support.

SAFETY PRECAUTIONS

- Please read the following warnings and cautions carefully before operating the system and use it correctly.
- Installation and maintenance of this air conditioning system should only be carried out by trained and qualified personnel.
- This manual contains information which explains the functions, operation procedure and precautions for operating the air condition system.
- This manual classifies precautions into two categories. They are all important to ensure safe and reliable operation.

Failure to follow a warning may result in death or serious injury.

Failure to follow a caution may result in serious injury or property damage, and in certain conditions, may result in a grave consequence

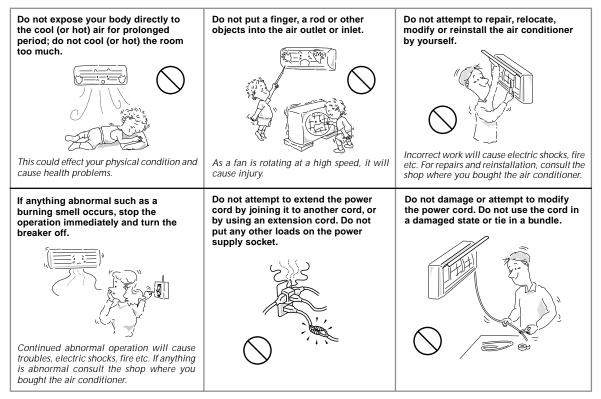
Electrical connections

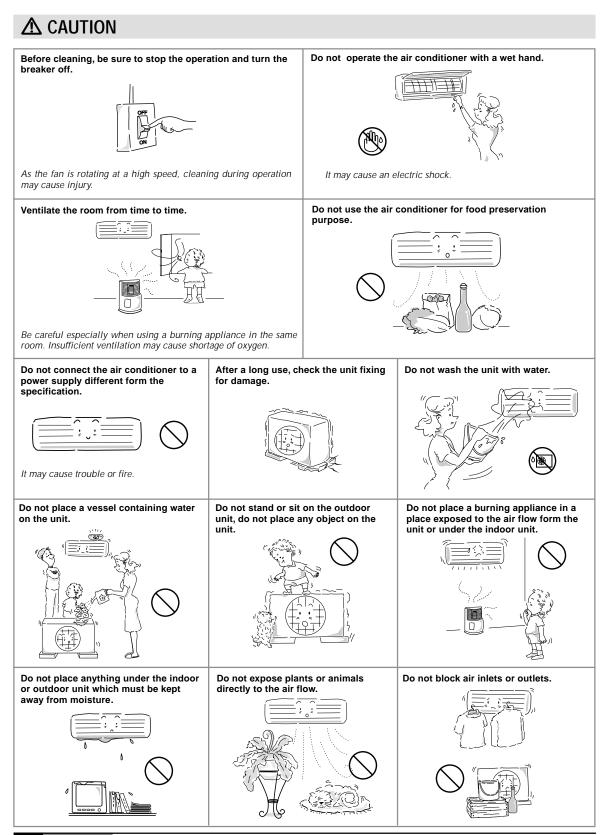
All electrical wiring and connections must comply with local codes and standards. Power supply cord and interconnection cord used must not be lighter than Polychloroprene sheated cord (245 IEC 57 or H05RN-F). Disconnecting device must have a contact separation of at least 3 mm.

■ The following symbols are often used in this manual.

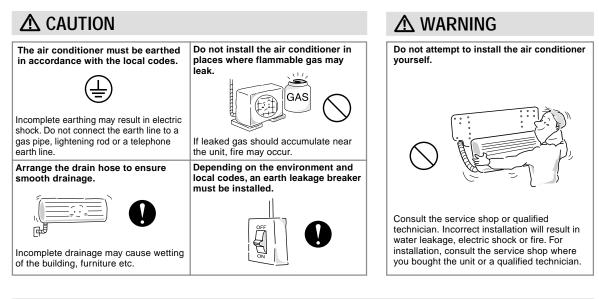
\bigcirc	Strictly prohibited.	0	Be sure to follow the instructions.
	Be sure to earth the air conditioner.	Ø	Be sure to disconnect the power plug.
	Do not touch the air conditioner with a wet hand.		Do not cause the air conditioner (including the remote controller) to get wet.

⚠ WARNING





INSTALLATION



INSTALLATION SITE

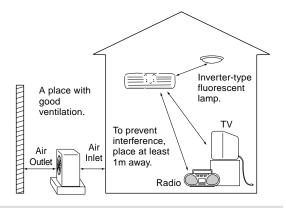
- To install the air conditioner in the following types of environments, consult the shop.
- Places with an oily ambient or where steam or soot occurs.
- Salty or corrosive environments such as coastal areas.
- Places where sulfide gas occurs such as hot springs.

The drain from the outdoor unit must be discharged to a place of good drainage.

CONSIDER NUISANCE TO YOUR NEIGHBOURS FROM NOISES

For installation choose a place as described below.

- A place solid enough to bear the weight of the unit and which does not amplify the operation noise or vibration.
- A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.



ELECTRICAL WORK

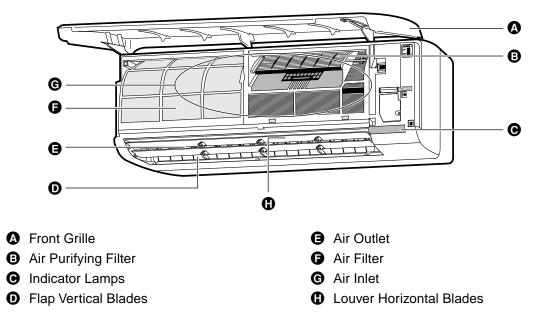
• For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

SYSTEM RELOCATION

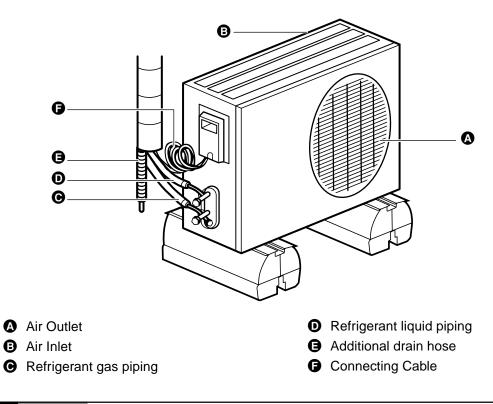
• Relocating the air conditioner requires specialized knowledge and skills. Please consult the shop where you bought the air conditioner if relocation is necessary for moving or remodelling.

NAME OF PARTS

INDOOR UNIT

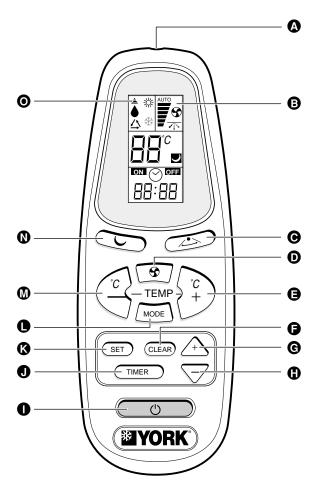


OUTDOOR UNIT



REMOTE CONTROL

■ LCD Display



- A Infrared signal transmitter
- LCD operation display
- Automatic vertical air swing
- FAN SPEED and AUTO FAN button
- Room temperature UP button
- TIMER CLEAR button
- G TIMER UP button
- TIMER DOWN button
- START/STOP button

- TIMER button
- Item Set button
- Operation MODE selection button
 - COOLING
 - HEATING
 - AUTO COOL/HEAT
 - DRY
 - FAN
- Room temperature DOWN button
- SLEEP button
- Transmission sign

OPERATION MODES, FUNCTIONS AND FEATURES

COOL

Cools, dehumidifies and filters the room air. Maintains the desired room temperature.

HEAT

Heats and filters the room air. Maintains the desired room temperature.

AUTO

Automatically switches from COOLING to HEATING or from HEATING to COOLING, maintaining the desired temperature according to the room conditions.

DRY

Dehumidifies and softly cools the room In DRY Mode, the air conditioner operates at an increased dehumidifying power. This function is recommended to be used when temperature is rather low but the humidity is high.

FAN

Recirculates and filters the room air. Maintains constant air movement.

AUTO FAN

The air conditioner automatically selects the FAN speed in accordance with the room temperature. At the start, the unit operates at high fan speed. As the room air approaches to the desired temperature, the fan switches to a lower speed for quieter operation.

HOT KEEP

In HEATING and in AUTO FAN, the fan will be turned off when the compressor is not in operation and will not be restarted, unless the indoor coil reaches adequate temperature. This HOT KEEP feature prevents uncomfortable cold air drafts. Use of AUTO FAN is, therefore, recommended when the air conditioner is in HEATING mode.





TIMER

Real time control and display, automatically turns the air conditioner ON and OFF according to the time of day setting, ensuring comfort conditions before returning home, without wasting electricity. It turns the air conditioner off automatically when sleeping.

SLEEP

Designed to create comfortable sleeping conditions. When in COOLING mode, the temperature rises one degree centigrade every hour, for three hours, from the start of the mode. The temperature rise prevents the feeling of over-cooling while sleeping (when your body is at rest). In HEATING mode the reverse occurs; the air conditioner lowers its temperature one degree every hour. When in SLEEP mode, the air conditioner will be automatically turned off after seven hours. The result is a more comfortable and invigorating sleep, which leaves you feeling fresh and energetic in the morning.

AUTO LOUVER

The air louver is automatically positioned for the most suitable blow-out angle, when COOL, HEAT, DRY or FAN modes are selected. When the air conditioner is turned off, the louver will close automatically providing an aesthetic appearance.

VERTICAL AIR SWING

Automatic swing of supply air in vertical direction. The louver moves automatically in upward and downward direction spread the conditioned air evenly throughout the room.

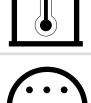
(A)

ROOM TEMPERATURE

Measures and displays room temperature.

FILTER INDICATION

Filter indicator on the indoor unit display is turned on when the filter requires cleaning. After cleaning and reinstalling the filter, the system should be reset.





BUZZER

A soft buzzer will sound from the indoor unit display to indicate that a command sent by the remote control has been accepted and stored in the unit's memory. This feature may be easily canceled by the user from the display panel.



ON UNIT OPERATION

The air conditioner can be turned ON for COOLING or HEATING or be turned OFF directly from the indoor unit display panel without the use of the remote control.

3-MIN. DELAYED RUN

The compressor is protected by a three-minute delayed restart.

MEMORY

The microprocessor retains the last data entry whether or not the unit is plugged in. Therefore, when the unit restarts after a power distruption or failure, it will resume operating in the same mode as before the power was disrupted.

LOCK

Freezes the last operation setting on the remote control. When LOCK is activated, the remote control will not be able to control the air-conditioner.

SETTING STORED

The air conditioner will store all the settings of the MODE button in COOL, HEAT, AUTO, DRY and FAN.

USE OF WIRELESS REMOTE CONTROL

PRIOR TO OPERATION

Prior to operating your air conditioner, make sure that:

- The indoor unit is properly plugged into the electrical socket. (Except for multisplit models).
- STAND-BY indicator on the unit's display is lit, meaning that the air conditioner is ready to accept your remote control commands.
- The red tab protecting the remote control batteries has been removed.
- For clock setting see page 16.



Attention:

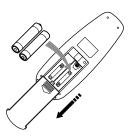
- Aim at the infrared signal receiver on the room air conditioner when operating.
- The remote control signal can be received at a distance of up to about 8 m.
- Be sure that there is nothing between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, and/or other heat source.
- Do not expose the air conditioner signal receiver to a strong light such as fluorescent lamp or sunlight.

REMOTE CONTROL BATTERY CHANGE

- Remove the batteries from the remote control as shown.
- Use two 1.5 volt size AAA batteries
- Perform reset operation by pressing TIMER UP buttons, TIMER DOWN button, TIMER SET button and TIMER CLEAR button.

REMOTE CONTROL HOLDER (DESK TYPE)

Use the remote control holder when unit is not in use. Remote control can be slipped in or out its holder.





OPERATION PROCEDURE

TURNING ON THE AIR CONDITIONER

Press STAR/STOP button to turn the air conditioner on. OPERATION Indicator on the air conditioner will light up, indicating that the unit is in operation. Note that the LCD operation display will always show the last mode of operation and previous function used.

Follow the instructions if you choose to change the control settings; otherwise, the air conditioner will start and operate in the same mode and functions prior to being turned off.

VENTILATING OPERATION

Select the ventilating mode by pressing MODE button. Switch to the desired fan speed by pressing FAN SPEED button.



Select the COOLING mode by pressing MODE button. Switch to the desired FAN SPEED or to AUTO FAN by pressing button. Select suitable temperature setting. By selecting the COOLING mode, the air flap will move automatically to air delivery position, optimal for cooling.

STAR/STOP

 $\overline{2}$

°C

10:38

•

TEMP

MODE

YORK

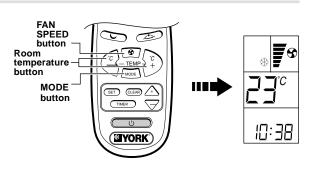
CLEAR +

FAN SPEED

MODE

button

button



COOLING OPERATION WITH AUTO FAN MODE

This operation starts with the highest air flow in order to quickly lower the room temperature. It will then automatically switch to the low air flow to quietly maintain the selected temperature.



HEATING OPERATION

Select the HEATING mode by pressing MODE button. Switch to the desired FAN SPEED or to AUTO FAN by pressing FAN button. Select suitable temperature setting. By selecting the HEATING mode, the air flap will move automatically to air delivery position, optimal for heating.

HEATING OPERATION WITH AUTO FAN MODE

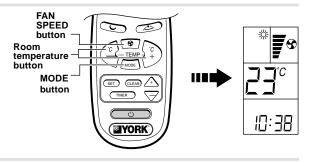
This operation starts with the highest air flow in order to quickly raise the room temperature. It will then automatically switch to a lower air flow to quietly maintain the selected temperature. HEATING with AUTO FAN will automatically provide the user with the HOT KEEP function. The fan will be turned off when the indoor coil temperature is not sufficiently hot to prevent uncomfortable cold air drafts.

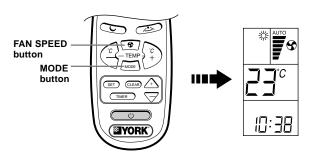
AUTO COOLING/HEATING OPERATION

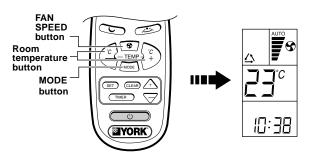
Select the AUTO mode by pressing MODE button. Switch to the desired FAN SPEED or to AUTO FAN by pressing button. Select suitable temperature setting. The air flap will automatically move to either horizontal air delivery for cooling or to vertical air delivery for heating. At start, the air conditioner will select its mode of operation according to the room temperature and the termperature setting.

DRY OPERATION

Select the DRY mode by pressing MODE button. Select the suitable temperature setting. While in DRY mode, the air conditioner will operate at low fan speed, regardless of the fan setting on the LCD operation display. Fan might terminate operation from time to time to prevent from over cooling. By selecting the mode, the air flap will move automatically to optimal horizontal air delivery position.









SELECTING THE TEMPERATURE

Press TEMP buttons UP or DOWN to change the temperature setting in the LCD operation display. The temperature setting is shown in degrees centigrade. A higher number indicates a higher room temperature. A lower number indicates a lower room temperature.



SLEEP FUNCTION

Press the SLEEP button to select the SLEEP function. When the sleep function is activated the air conditioner will be automatically turned OFF after seven hours. If at the same time TIMER is activated, as well, the air conditioner will be turned ON and OFF according to the TIMER setting.

To cancel the SLEEP function press on one of the following:

START/STOP button

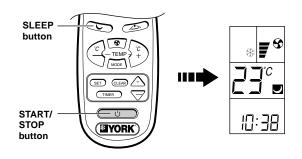
SLEEP button

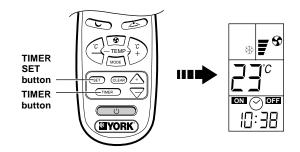
TIMER OPERATION

Press TIMER button to activate the timed operation mode. Each time the TIMER button is pressed, one of the following four types of operation modes will appear on the LCD display. The operation modes are sequenced in the direction of arrow. TIMER indicator on the air conditioner will light up during TIMER operation.

Note

After power failure when the unit is in timer mode TIMER indicator will be blinking and the unit will be automatically turned to stand-by mode and the timer operation will be cancelled. To resume the timer wait 30 sec. before reprogramming. Follow the instructions above.





TIMER OPERATING MODES

I. TIMER ON

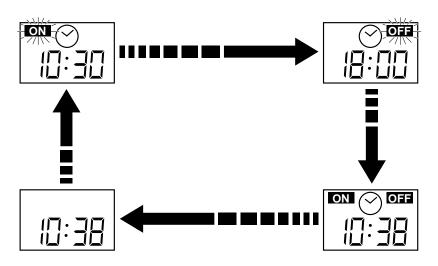
This mode enables you to set a start operating time Press the TIMER button till the ON sign blinks. Start time can be adjusted using up and down buttons respectively. Press SET button to activate the timer.

Example: Operation is restored at 10:30.

II. TIMER OFF

This mode enables you to set the stop time of operation. Press the TIMER button till the OFF sign blinks. Time can be adjusted using up and down button respectively. Press SET button to activate the timer.

Example: Operation stops at 18:00



IV. CLEAR

Use this mode to cancel timer operation. Press CLEAR button, timer operation will terminate and the LCD display will be cleared for each timer mode.

<u>Note:</u> If TIMER button is selected and neither time adjust, SET, or CLEAR buttons are pressed within 15 seconds, the timer operation will be cancelled and the last set-up will be displayed.

III. TIMER ON AND OFF

This mode enables you to set the start and stop time of operation. Press the TIMER button till the ON sign blinks. By pressing again the OFF sign blinks. Time can be adjusted by using the up and down buttons, respectively. Press SET button to activate the timer. The LCD display will show the current time.

Example: Operation is restored at 10:30 and stops at 18:00

Note:

After pressing SET button the LCD will display the current time.

AUTOMATIC VERTICAL AIR SWING

Press Automatic vertical air swing button to activate the auto air swing. By Pressing Automatic vertical air swing button again you can stop the auto swing and position the air flap at any desired angle.

TURNING OFF THE AIR CONDITIONER

Press START/STOP button to turn off the air conditioner. OPERATION indicator on the air conditioner will be turned off. STAND-BY indicator will stay lit, indicating that the air conditioner is in STAND-BY mode and ready to accept any new command from the remote control. The remote control LCD will display the clock time. The last operating set-up will be kept for the next operation.

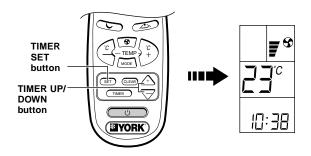
CURRENT CLOCK TIME SET

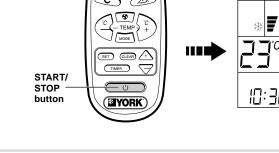
Clock setting is performed when batteries are inserted. The remote control displays the setting and the clock display will blink "0:00" or "12:00" AM (AM sign will blink, too) till a new time is set. For clock setting, use TIMER UP buttons and TIMER DOWN buttons for setting the hours and minutes, respectively, and then press TIMER SET button. The clock setting can be also performed by pressing TIMER SET button for 5 seconds. The clock display will blink, for new setting follow the steps described above.

Automatic vertical air swing button

• CLEAR 10:38 **YORK**







MAINTENANCE

The units are designed to operate for long periods of time with a minimum of maintenance. However, the following operation must be performed regularly.

	Maintenance operations	Recommended Frequency
Air filter	Clean	Every month or more often if necessary
Air Purifying filter	Change/Replace a new set	Every 4 months
Unit casing	Clean	Every month or more often if necessary
Drain pan and evacuation piping	Clean and check for obstructions	Each season before start up*
Indoor/outdoor coils	Clean	Each season before start up*
Compressor	No need	

* This operation must be carried out by qualified personnel only.

BEFORE MAINTENANCE



Turn off the main breaker or disconnect the main power supply.

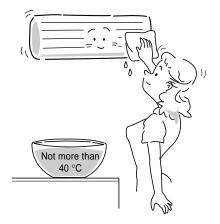


Notes

- Don't spill water : There is a danger of electric shock.
- Don't used petrol, paint thinner, benzene or polishing agents : They may deform or scratch the unit.

CLEANING THE UNIT

Wipe the unit with a soft dry cloth only. If the unit is very dirty, wipe it with a cloth soaked in warm water (Not more than 40 $^{\circ}$ C).

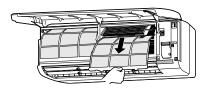


CLEANING THE AIR FILTER



Remove the air filter.

Lightly hold the knobs at both sides and lift a little to remove the filter to this side.



2

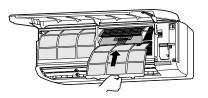
Cleaning.

If the filter is very dirty, clean it with water (approx. $30^{\circ}C$), and dry it thoroughly.





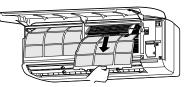
Reinstall the air filter.



REPLACEMENT OF AIR PURIFYING FILTER

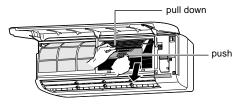


Remove the filter.



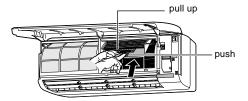


Remove the air purifying filter.



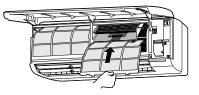


Install a new air purifying filter.





Reinstall the air filter and securely close the front panel.



■ Air purifying filter

- If the air purifying filter is clogged, it may lower the unit's capacity or cause condensation at air outlet.
- The air purifying filter is disposable. The standard usable interval is about 4 mounts. However, if the color of the filter turns dark brown, replace it at once.

BEFORE CALLING FOR SERVICE

Before calling for service, please check the following common malfunctions and correct as needed.

Problem	Cause	Remedy
A. Unit does not operate, Stand-by indicator does not light up	 Unit not connected to power Power failure 	 Plug in the power cord Check main fuse
B. Unit does not operate. Stand-by indicator lights.	1. Remote control malfunctions	 Check remote control batteries. Try to operate from a closer distance Start form on-unit controls Perform reset operation by pressing button: TIMER UP button, TIMER DOWN button, TIMER SET button, TIMER CLEAR button for 5 sec.
	1. The remote control is locked	1. Unlock the remote control
C. Unit does not respond properly to remote control command	 Infra Red signal does not reach unit Distance between remote control and unit too large or aimed at form improper angle Infra Red receiver on-unit exposed to strong light source 	 Check for obstruction between unit and remote control. Clear if needed. Get closer to unit Dim lights, fluorescents especially
D. Air does not blow out from indoor unit	 De-icing protection mode is activated Unit in AUTO FAN mode Over cooling in DRY 	 Normal operation in HEATING mode Normal operation in DRY mode
E. COOLING, DRY or HEATING does not start immediately	1. 3-min. compressor delayed start	1. Normal operation for these modes
F. Unit functions but does not perform sufficiently	 Improper temperature setting Unit capacity insufficient for load or room size 	 Reset temperature Consult your dealer
G. Filter indicator light up	1. Air filter needs cleaning.	1. Clean filter, reinstall and reset indicator

DE - COMMISSIONING DISMANTLING & DISPOSAL

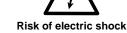
This product contains refrigerant under pressure, rotating parts, and electrical connections which may be a danger and cause injury!

All work must only be carried out by competent persons using suitable protective clothing and safety precautions.



F

Read the Manual







Unit is remotely controlled and may start without warning

- 1. Isolate all sources of electrical supply to the unit including any control system supplies switched by the unit. Ensure that all points of electrical and gas isolation are secured in the OFF position. The supply cables and gas pipework may then be disconnected and removed. For points of connection refer to unit installation instructions.
- Remove all refrigerant from each system of the unit into a suitable container using a refrigerant reclaim or recovery unit. This refrigerant may then be re-used, if appropriate, or returned to the manufacturer for disposal. <u>Under No</u> <u>circumstances should refrigerant be vented to atmosphere.</u> Where appropriate, drain the refrigerant oil from each system into a suitable container and dispose of according to local laws and regulations governing disposal of oily wastes.
- 3. Packaged unit can generally be removed in one piece after disconnection as above. Any fixing down bolts should be removed and then unit lifted from position using the points provided and equipment of adequate lifting capacity. Reference MUST be made to the unit installation instructions for unit weight and correct methods of lifting. Note that any residual or spilt refrigerant oil should be mopped up and disposed of as described above.
- 4. After removal from position the unit parts may be disposed of according to local laws and regulations.

