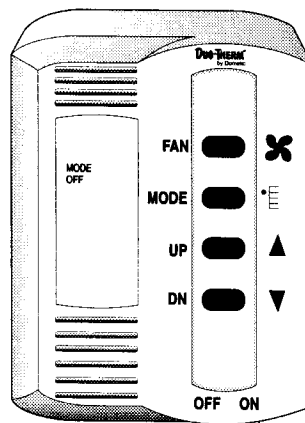


DUO-THERM®
by Dometic

RECORD THIS UNIT INFORMATION FOR FUTURE REFERENCE:

Model Number _____
Serial Number _____
Date Purchased _____

COMFORT CONTROL CENTER™ Part No. 3106463.007



USA
SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
LaGrange, IN 46761

CANADA
Dometic Dist.
866 Langs Dr.
Cambridge, Ontario
CANADA N3H 2N7



**UNDERWRITERS
LABORATORIES**

LISTED
637G



CERTIFIED
LR23565

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer or service agency.

AVERTISSEMENT

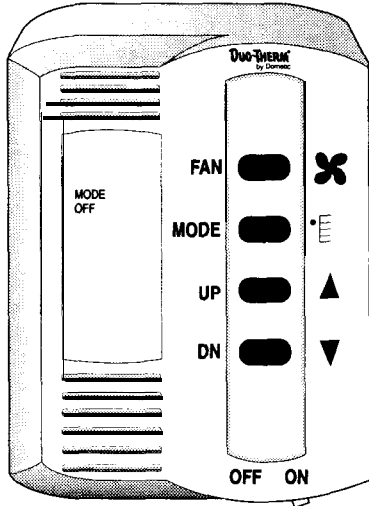
Une mauvaise installation, de mauvais réglages, modifications ou opérations d'entretien peuvent endommager les biens ou même blesser. Se reporter à la notice. Pour obtenir de l'aide ou des renseignements complémentaires, consulter un installateur qualifié ou une agence de service après-vente.

OPERATING INSTRUCTIONS

**Comfort
Control Center™**
Part No. 3106463.007

CONTROL DESCRIPTION

The Dometic **Comfort Control Center™** is a sophisticated electronic control using the latest electronic technology. It contains a liquid crystal display (LCD) and the operator switches and buttons.

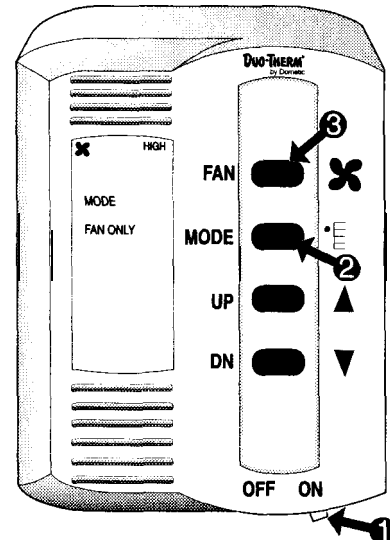


- A. The LCD indicates the mode of operation, the temperature Set Point and the fan speed.
- 1) The possible modes of operation are OFF, FAN ONLY, COOL, HEAT PUMP, FURNACE and HEAT STRIP.
 - 2) The possible fan speeds are LOW, MED, HIGH and AUTO.
 - 3) The temperature **Set Point** range is 40 to 99 degrees Fahrenheit (4 to 37 Celsius).
 - 4) In the case of multiple zones, the zone will indicate ZONE **1**, 2, 3 or 4.
 - 5) In the case of dual systems, STAGE will be illuminated when the second stage is selected.
- B. The mode of operation is selected by momentarily depressing the MODE push-button.
- C. The fan speed is selected by momentarily depressing the FAN push-button.
- D. The temperature **Set Point** is adjusted by momentarily depressing the UP or DOWN push-button.
- E. ZONE and STAGE selection is made by simultaneously depressing the FAN and MODE push-buttons.
- F. An ON/OFF switch is provided on the lower right edge of the **Comfort Control Center™**.
- G. The **Comfort Control Center™** is connected to the Electronic Control Kit via a 4-conductor telephone cable using telephone RJ-11 connectors.

OPERATING INSTRUCTIONS

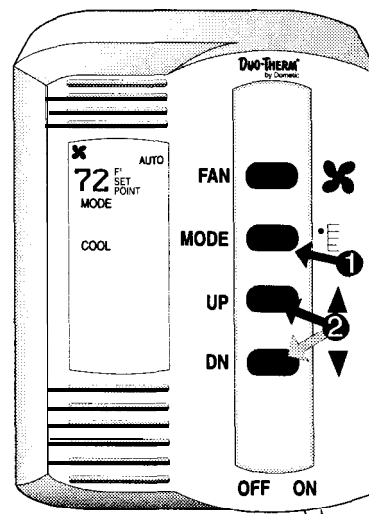
A. FAN ONLY MODE OPERATION

- 1) Place the Power switch to the ON position.
- 2) Momentarily depress the MODE push-button until the FAN ONLY indicator on the Liquid Crystal Display (**LCD**) is illuminated.
- 3) Momentarily depress the FAN push-button until the desired fan speed indicator (LOW, MED, HIGH, AUTO) is illuminated; (LOW, HIGH, AUTO for heat pumps and dual systems).
- 4) After approximately 5 seconds the selected fan speed will come on.



B. COOLING MODE OPERATION

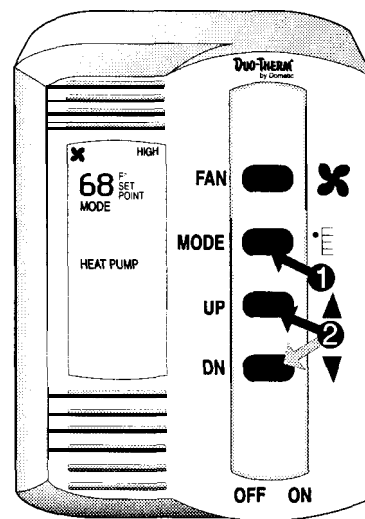
- 1) Momentarily depress the MODE push-button until the **COOL** indicator on the LCD is illuminated.
- 2) Momentarily depress the UP or DOWN push-button until the desired temperature **Set Point** is displayed.
- 3) The compressor will come on after a delay of approximately 2 minutes.
- 4) The compressor will cycle OFF per the temperature **Set Point** displayed. The compressor will restart in approximately two minutes after the control senses the need for cooling. The fan will:
 - a) Continue to operate in the single selected fan speed if the AUTO fan speed is not selected.
 - b) Cycle OFF and ON with the compressor if the AUTO fan speed is selected.



C. HEAT PUMP OPERATION

(If So Equipped)

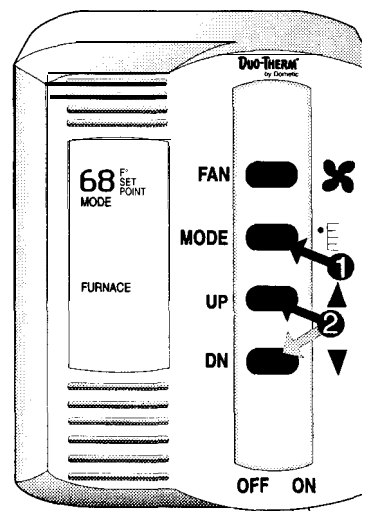
- 1) Momentarily depress the MODE push-button until the HEAT PUMP indicator on the LCD is illuminated.
- 2) Momentarily depress the UP or DOWN push-button until the desired temperature **Set Point** is displayed.
- 3) The compressor will come on after a delay of approximately 2 minutes.
- 4) The compressor will cycle OFF per the temperature **Set Point** displayed. The compressor will restart in approximately two minutes after the control senses the need for heating. The fan will:
 - a. Continue to operate in the single selected fan speed if the AUTO fan speed is not selected.
 - b. Cycle OFF and ON with the compressor if the AUTO fan speed is selected.



D. FURNACE MODE OPERATION

(If so equipped)

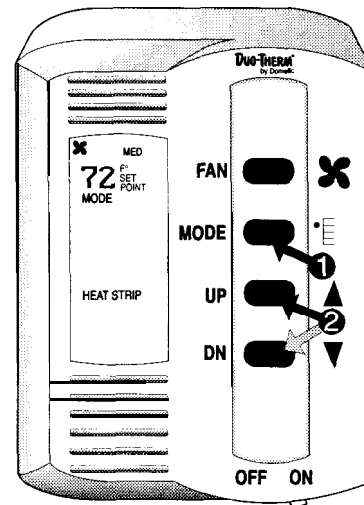
- 1) Momentarily depress the MODE push-button until the FURNACE indicator on the LCD is illuminated.
- 2) Momentarily depress the UP or DOWN push-button until the desired temperature **Set Point** is displayed.
- 3) The furnace will cycle ON and OFF to provide the selected temperature.
- 4) The A/C fan will not operate in the FURNACE mode.



E. HEAT STRIP MODE OPERATION

(If so equipped)

- 1) Momentarily depress the **MODE** push-button until the HEAT STRIP indicator on the LCD is illuminated.
- 2) Momentarily depress the **UP** or **DOWN** push-button until the desired temperature **Set Point** is displayed.
- 3) The electric heat strip will cycle ON and OFF per the temperature **Set Point** displayed. The fan will:
 - a. Continue to operate in the selected fan speed if the **AUTO** fan speed is not selected.
 - b. Cycle OFF and ON with the heat strip if the **AUTO** fan speed is selected.
- 4) The fan will operate in LOW, MED or AUTO. HIGH speed is not selectable in the **HEAT STRIP** mode.

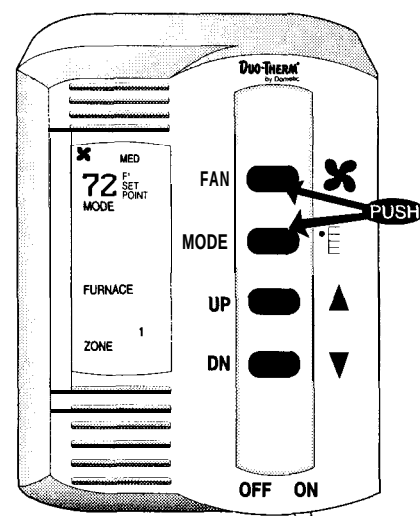


F. SPECIAL CONTROL FEATURES

- 1) **AUTO FAN:** When selected, fan will:
 - a. If in COOL mode (**A/C** models), automatically select the fan speed depending upon the difference between the temperature **Set Point** and the room temperature.
For a temperature difference of:
8 deg. or more - Fan operates on **HIGH**
4 to 8 deg. - Fan operates on **MED**
4 deg. or below - Fan operates on **LOW**
 - b. If a **HEAT PUMP** or **DUAL MODEL** in **COOL** or **HEAT PUMP** mode, automatically select the fan speed depending upon the difference between the temperature **Set Point** and the room temperature.
For a difference of:
4 degrees or more - Fan operates on **HIGH**
4 degrees or less - Fan operates on **LOW**
 - c. If in **HEAT STRIP** mode, automatically select **LOW** fan speed.
 - d. If in **FAN ONLY** mode, automatically select **LOW** fan speed.
- 2) **REFRIGERANT COMPRESSOR TIME DELAY:**
The compressor will always have a delay in starting of approximately two minutes any time it is required to begin the cooling cycle.
- 3) **POWER INTERRUPTION**
In the event that power to the air conditioner or control is interrupted, the system will restart in the condition previously set by the user.

4) ZONE CONTROL

In the event of a multiple zone installation, the **MODE** of operation for each zone may be independently set. If there are multiple zones, the LCD indicators **ZONE** and 1, 2, 3 or 4 will be illuminated. To change from one zone to another, simultaneously depress the **FAN** and **MODE** push-buttons. The indicator will change the zone data displayed. To program each zone, simply repeat the programming steps above in each zone. Note, however, that the system will prevent operating **FURNACE** and **COOL** or **HEAT PUMP** at the same time.

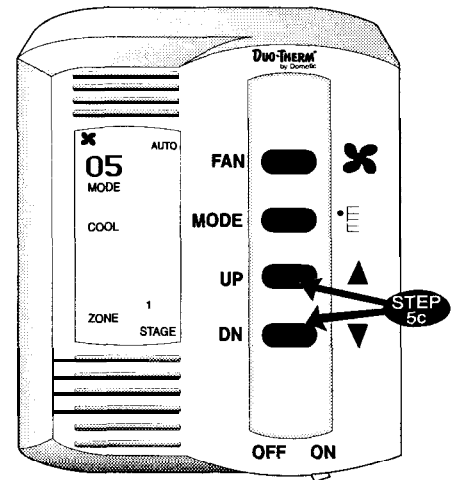
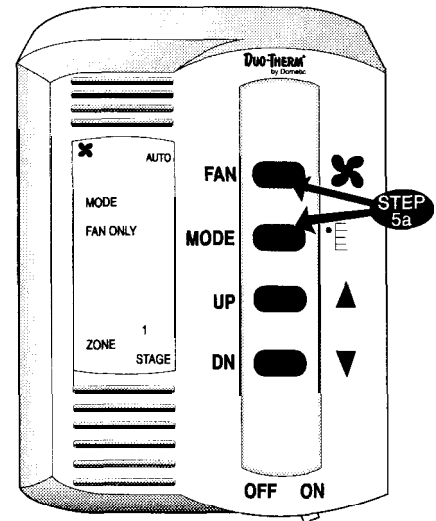


5) STAGE CONTROL OPERATION

A two stage installation has a compressor and fan on one circuit (Circuit #1) and a different compressor and fan on a second circuit (Circuit #2). This allows the user to operate one or two stages of his A/C or Heat Pump depending upon the power available.

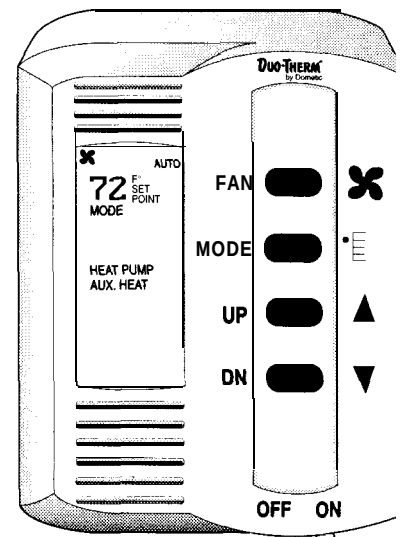
The MODE of operation for each stage may be independently set. If there are multiple stages, the LCD will indicate the zone and STAGE (for the second stage). To change from one ZONE to another and one STAGE to another, simultaneously depress the FAN and MODE push-buttons. The indicator will change the data displayed. To program each zone, simply repeat the programming steps above in each zone. The second stage compressor and fan will be activated when the measured temperature exceeds a user selectable differential from when the first stage is energized. This user selectable differential ranges from 0 to 10 degrees F. To program STAGE operation, perform the following steps:

- Simultaneously depress the FAN and MODE push-buttons until the STAGE indicator on the LCD is illuminated.
- Momentarily depress the MODE push-button until the desired mode of operation is selected.
- Momentarily depress the UP and DOWN push-button until the desired temperature **differential** is displayed (0 to 10 degrees).
- Momentarily depress the FAN push-button until the desired fan speed is displayed.



6) AUX. HEAT

When in the HEAT PUMP mode, if the outside ambient temperature is measured to be below 24 degrees F., the control will select the FURNACE operation. The AUX. HEAT and the HEAT PUMP indicators on the LCD shall illuminate. If the measured ambient temperature goes above 34 degrees F., the control will return to HEAT PUMP operation.



7) DEFROST CYCLE

This cycle is active during HEAT PUMP operation. When the outside ambient temperature is less than 40 degrees F. and greater than 24 degrees, a defrost timing cycle will begin. The defrost timing cycle will allow operation of the heat pump for 40 minutes. The fan will then be shut off, the compressor reversed and run for 4-1/2 minutes. The compressor will then be returned to normal and, after a 30 second delay to allow the coils to heat up, the fan turned back on. This 45 minute cycle will continue until the temperature is greater than 40 degrees or until the temperature becomes less than 24 degrees. (See AUX. HEAT.) During this defrost cycle, the DEFROST indicator on the LCD shall be illuminated.

