

# BETTER LOOK

A BETTER PLACE™



DAVE LENNOX  
*signature*  
COLLECTION™

# *Protect Your Investment -- Proper Maintenance is Your Responsibility*

CB31MV

*Premium Quality,  
Since 1895 --  
from the Company  
You Trust*



*Congratulations,  
you have made a  
wise choice with the  
purchase of your  
Lennox*

*CB31MV air handler. Lennox  
prides itself in manufacturing high  
quality products that keep you  
comfortable and keep your month-  
ly energy bills low, year  
after year.*

WARRANTIES

*Your Unit is  
Covered by  
One of the Best  
Warranties in the  
Industry*

*At Lennox, our products are as  
good as our word. All  
covered components  
in your new  
CB31MV air  
handler are  
backed by a 5-year  
limited parts warran-  
ty. That's a promise of  
quality no other manufacturer can  
match.*



*Your air handler includes a sheet  
which outlines the warranty and  
its conditions. Keep your warranty  
along with other important records  
concerning the purchase and  
maintenance of your heating and  
cooling equipment.*

*You should be aware that failure to  
maintain your system as outlined  
in this manual will void your  
equipment warranty.*

MAINTENANCE

*Keep Your  
System in Top  
Form Year  
After Year*

*In order to ensure peak perfor-  
mance, your system must be prop-  
erly maintained. Clogged filters  
and blocked airflow prevent your  
unit from operating at its most effi-  
cient level.*

*Access to your filter could not be  
more convenient. The filter access  
panel is easily removed without the  
need for tools. The single filter  
slides easily in and out of the unit  
on rails. Your filter may be  
installed in a return air register lo-  
cated in a wall or ceiling. Ask your  
Lennox dealer to show you where  
your indoor unit's filter is located.*

*The filter should be checked  
monthly and replaced, or cleaned,  
when necessary. The filter size is  
printed on a label affixed to the fil-  
ter access panel. A label with the  
word "washable" indicates that  
your unit is equipped with a re-us-  
able foam filter. These filters can  
be cleaned with a mild soap and  
water solution. Rinse the filter  
thoroughly and let it dry complete-  
ly before it is returned to the unit.  
Take note of the filter air flow ar-  
row when replacing your filter.*

*The filter and all access panels  
must be in place any time the unit  
is in operation.*

**Important!**

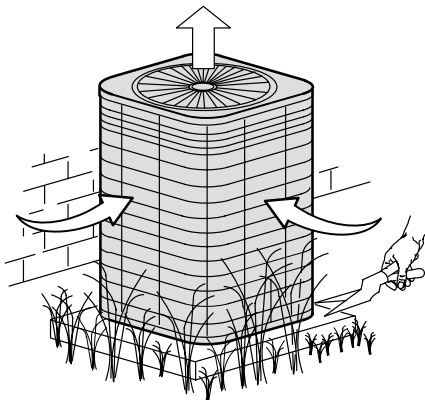
*Turn off electrical power to the unit  
at the disconnect switch before per-  
forming any maintenance. The unit  
may have multiple power supplies.*

Your system may be equipped with an indoor air quality accessory which will provide respiratory relief by removing a large percentage of all airborne particles which pass through it. If it is, ask your dealer to instruct you on its maintenance.

Your CB31MV air handler may be matched with an optional control which provides additional comfort by helping to control humidity levels in the home during the cooling cycle.

Your indoor coil is equipped with a drain pan to collect condensate formed as your system removes humidity from the inside air. Have your dealer show you where the main condensate drain (and auxiliary drain, if applicable) runs and how to check the drain for any obstruction.

It is also very important to provide unrestricted airflow to the outdoor unit. Leaves, trash or shrubs crowding the unit cause the outdoor unit to work harder and use more energy. Keep shrubbery trimmed away from the unit and periodically check for debris which may have collected around the unit.



## LENNOX DEALERS

### Routine Maintenance -- Your Independent Lennox Dealer Can Help

Nobody knows more about the care and operation of your new Lennox equipment than your Lennox dealer. Your Lennox dealer is your best choice for routine maintenance or service. Lennox' Quality Dealer Standards program ensures that when you call your Lennox dealer, you can count on prompt, courteous and professional service.

Before the start of each heating and cooling season, the following service checks should be performed by a qualified service technician.

As always, electrical power to the unit must be turned off prior to any unit maintenance.

- The outdoor and indoor coils should be inspected and cleaned. The outdoor coil may be flushed with a water hose.
- The refrigerant lines should be visually inspected and the coils should be checked for leaks.
- Wiring should be checked for loose connections.
- Voltage must be checked at the indoor and outdoor units (units operating).
- The amp-draw at the outdoor fan motor and indoor blower motor should be checked. Values should be compared with those given on unit nameplate.
- Indoor unit filters should be cleaned or replaced.
- The refrigerant charge should be checked and system pressures should be gauged.
- The condensate drain line should be checked for free and unobstructed flow and it should be cleaned, if necessary.

## UNIT OPERATION

### Getting to Know Your Unit

Your air handler may be matched with an outdoor heat pump. If so, the heat pump has several characteristics that you should be aware of:

Your heat pump satisfies heating demand by delivering large amounts of warm air into the living space. This is quite different from gas- or oil-fired furnaces or an electric furnace which deliver lower volumes of considerably hotter air to heat the space.

Do not be alarmed if you notice frost on the outdoor coil in the winter months. Frost develops on the outdoor coil during the heating cycle when temperatures are below 45°F (7°C). An electronic control activates a defrost cycle lasting 5 to 15 minutes at preset intervals to clear the outdoor coil of the frost. During the defrost cycle, you may notice steam rising from the outdoor unit. This is a normal occurrence. The thermostat may engage auxiliary heat during the defrost cycle to satisfy a heating demand; however, the unit will return to normal operation at the conclusion of the defrost cycle.

The heat pump may be equipped with a compressor crankcase heater which protects the compressor from refrigerant slugging during cold weather operation. If power to your unit has been interrupted for several hours or more, set the room thermostat selector to the "Emergency Heat" setting to obtain temporary heat without the risk of serious equipment damage. In this operating mode, all heating demand will be satisfied by auxiliary heat. Compressor operation is locked out during Emergency Heat operation. After a six-hour compressor crankcase heater warm-up period, the thermostat can be switched to the "Heat" setting and normal operation will resume.

## THERMOSTAT OPERATION -- COMFORT IS AT YOUR FINGERTIPS

Your air handler may be used with either an air conditioner or heat pump. Though your thermostat may vary somewhat from the description below, its operation will be similar.

### Temperature Setting Levers

Most heat pump thermostats have two temperature selector levers: one for heating and one for cooling. Set the levers or dials to the desired temperature setpoints for both heating and cooling. Avoid frequent temperature adjustment; turning the unit off and back on before pressures equalize puts stress on the unit compressor.

### Fan Switch

In AUTO or INT (intermittent) mode, the indoor blower operates only when the thermostat calls for heating or cooling. This mode is generally preferred when humidity control is a priority. The ON or CONT mode provides continuous indoor blower operation, regardless of whether the compressor or auxiliary heat are operating. This mode is required when constant air circulation or filtering is desired.

### System Switch

Set the system switch for heating, cooling or auto operation. The auto mode allows the heat pump to

automatically switch from heating mode to cooling mode to maintain predetermined comfort settings. Many heat pump thermostats are also equipped with an emergency heat mode which locks out heat pump operation and provides temporary heat supplied by the auxiliary heat.

### Indicating Light

Most heat pump thermostats have an amber light which indicates when the heat pump is operating in the emergency heat mode.

### Temperature Indicator

The temperature indicator displays the actual room temperature.

### Programmable Thermostats

Your Lennox system may be controlled by a programmable thermostat. These thermostats provide the added feature of programmable time-of-day setpoints for both heating and cooling. Refer to the user's information manual provided with your particular thermostat for operation details.

### BEFORE YOU CALL

*Be Prepared with  
the  
Information Your  
Dealer  
Will Need*

*If your system fails to operate, check the following before calling for service:*

- Check to see that all electrical disconnect switches are ON.
- Make sure the room thermostat temperature selector is properly set.
- Make sure the room thermostat system switch is properly set.
- Replace any blown fuses, or re-set circuit breakers.
- Make sure unit access panels are in place.
- Make sure air filter is clean.
- Locate unit model number and have it handy before calling.



Dealer Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Unit Model Number: CB31MV \_\_\_\_\_

Installation Date: \_\_\_\_\_