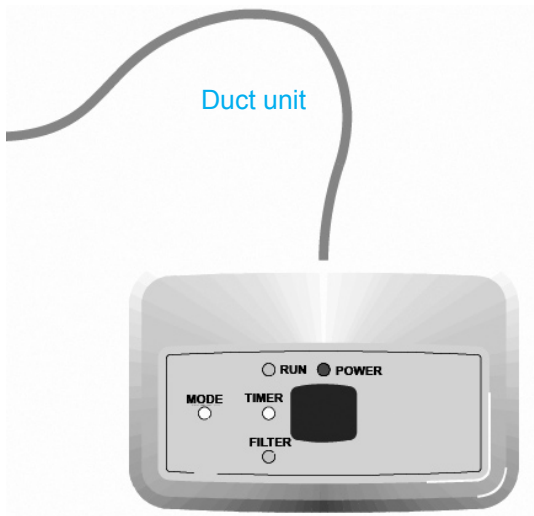


“**MVi**” series  
DC-inverter air-conditioners



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Model

DSV015 DSV018  
 DSV021 DSV024  
 DSV030 DSV036

Model

DLV007 DLV009 DLV012  
 DLV015 DLV018 DLV021  
 DLV024

Before using your air-conditioner, please read this operation instruction carefully and keep it for future reference.



# 1. FEATURES AND FUNCTIONS

## 1. FORCE COOLING/HEATING

The unit offers a MODE button on the display, after pressing this button the unit starts cooling or heating in the case the controller is broken or disappeared.

## 3. CONTROL ALTERNATIVE

The unit offers two kinds of optional controllers: wireless remote controller and local wiring controller (LWC).

## 5. I-FEEL

This function switches the temperature sensing point to the place where the remote control is located. (Generally the temperature sensor is located behind the intake grille of the air conditioner). This function is designed to provide personalized environment by transmitting the temperature control command from location next to you.

## 2. AUTO CHANGE OVER

Using the "AUTO" mode, the unit automatically switch between available operation modes (cooling,dry,heating) to maintain the set temperature constant all time. This function is only valid in heating recovery system.

## 4. SLEEP

This function is designed to create comfortable sleeping conditions. When COOLING mode, the temperature rises one degree centigrade after each consecutive hour, up to three hours, from the start of the mode. The temperature rise prevents the feeling of over-cooling while sleeping. In HEATING mode the reverse occurs; the air conditioner lowers its temperature one degree every hour. When SLEEP mode is activated, the air conditioner will automatically turned off after seven ours.

## 6. OPERATING TEMPERATURE RANGE

		Indoor unit		Outdoor unit	
		DB [°C]	WB [°C]	DB [°C]	WB [°C]
Cooling	Upper Limit	32	23	46	NA
	Lower Limit	21	15	-10	NA
Heating	Upper Limit	27	NA	24	18
	Lower Limit	10	NA	-15	-16

## 2. PRECAUTIONS

### Caution

This sign warns about damage of property.

- Provide occasional ventilation during use.
- Do not direct air flow at fireplaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner.
- Do not hang objects at the indoor unit.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Do not pull power supply cord.
- Turn off power supply when not using the unit for extended periods.
- Do not place animals or plants in the direct path of the air flow.
- Do not drink the water drained from the air conditioner.
- Do not use this application to storage of foods, plants or animals, precision equipment, or art works.
- Connection valves become hot during heating: handle with care.
- Do not apply any heavy pressure to of fan coil fins.
- Operate only with air filters installed
- Do not block or cover the intake grille and outlet port
- Ensure that any electronic equipments is at least one meter away from the indoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor unit, take precautions to prevent access to infants.
- Do not use inflammable gases near the air conditioner.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance is not intended for use by persons(including children) with reduced physical, sensory, or mental capacities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

## 2. PRECAUTIONS

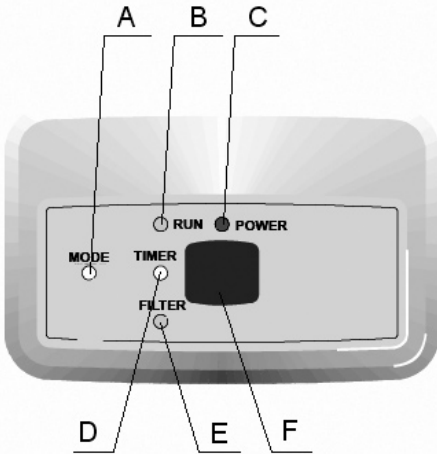


This sign warns about death or serious injury.

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel to install, start up, maintain and repair this unit.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- Do not become excessively chilled by staying for lengthy periods in the direct cooling airflow.
- Do not start and stop air conditioner operation by disconnecting the power supply cord and so on.
- Take care not to damage the power supply cord.
- In the event of a malfunction (burning smell, etc), immediately stop operation, disconnect the power supply plug, and consult authorized service personnel.
- If the power supply cord or this appliance is damaged, it should only be replaced by authorized service personal, since special purpose tools and specified cord are required.
- The appliance is not intended for use by young children of infirm persons without supervision.
- Please pre-heat the air conditioner for at least 12 hours before the first operation.

# 3. OPERATION INSTRUCTION

## 3.1 Special Tips



### A.MODE/RESET BUTTON

If filter LED is ON, a short pressing of the mode button will reset filter timer and turn off the filter clean LED.

If filter LED is OFF, mode button is used for forced operation mode in Cooling-Heating-OFF as circle. If filter LED is OFF, long pressing the button, will [allow to enter](#) diagnostic mode. [For details](#) please contact the technician.

### B.OPERATION INDICATOR

Lights up in green during operation.

Blinks once when receiving message from remote controller.

Blinks for 3 seconds when cool mode is selected through mode button.

Blinks when the unit is in protection or fault state.

### C.POWER INDICATOR

Lights up in **red** whenever power is on.

Blinks for 3 seconds when heat mode is selected through mode button.

### D.TIMER INDICATOR

Lights up in yellow when **TIMER** mode [at](#) remote controllers is used.

Blinks after power off when Timers is set to show that timer counting is lost.

### E.FILTER INDICATOR

Lights up when air filter requires cleaning.

### F.SIGNAL RECEIVER

Receive

If the air-conditioner can not be operated by the Remote Control , it can be turned on for cooling or heating, or completely turned off , by every short pressing on MODE button (A) on the air-conditioner . The MODE button will change the operating status of the unit between - COOLING - HEATMG - OFF positions.[Enter into diagnostic mode by pressing MODE button at display for long time.](#)

# 3. OPERATION INSTRUCTION

## 3.2 Generally

- Excessively low room temperature may harm your health. Avoid playing with the set point temperature (SPT).
- During cooling, avoid direct sun. Keep curtains and blinds closed. Close doors and windows to keep the cool air [Inside the room](#).
- Avoid generating heat or using heating appliances while the air conditioner is in cooling mode.
- Position the louvers in a way to prevent your body from being directly exposed to air drafts.
- During prolonged operation, ventilate the room occasionally by opening a window from time to time.
- [In case of a power shot off, the unit will restart automatically by using its Power Failure Memory Function. This function ensures that the unit will continue working in last mode selected. Otherwise the unit will keep OFF. In this case, please call your installer to set this function.](#)
- [Please allow the unit a 3 minutes operation \(cooling, heating or drying\) break between shot off and restart.](#)
- [In case the unit will operate cooling or dry in a room containing high humidity for long time, moisture may appear on the outlet and drip down.](#)
- The wireless remote controller's signals may not be received if the indoor unit's control box is exposed to direct sunlight or strong light for a long time.
- The wireless remote controller can [transmit signals](#) up to 8 meters.
- For local wiring controller (LWC) using with the indoor unit, please read relevant manual.

# 4. TROUBLESHOOTING

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

	Problem	Cause	Remedy
1	Unit does not operate. Power indicator doesn't light up.	<ul style="list-style-type: none"> <li>Unit isn't connecting of power.</li> <li>Power failure.</li> </ul>	<ul style="list-style-type: none"> <li>Check main fuse.</li> </ul>
2	Unit does not respond properly to remote controller's command.	<ul style="list-style-type: none"> <li>Holiday function is set by LWC.</li> <li>IR signal does not reach unit.</li> <li>Distance between remote control and unit too long or aimed at from improper angle.</li> <li>IR-receiver on-unit exposed to strong light source.</li> </ul>	<ul style="list-style-type: none"> <li>Cancel Holiday setting from LWC <b>manually</b>.</li> <li>Check for obstruction between unit and remote control and clear it .</li> <li>Get closer to unit.</li> <li>Dim lights, fluorescent especially.</li> </ul>
3	Local wire controller (LWC) doesn't work	<ul style="list-style-type: none"> <li><b>The whole system is in fault.</b></li> <li>Communication wire doesn't connect well.</li> </ul>	<ul style="list-style-type: none"> <li><b>Check the power supply of indoor unit.</b></li> <li>Contact the serviceman to check the communication wiring.</li> </ul>
4	Air does not blow out from indoor unit.	<ul style="list-style-type: none"> <li><b>Cold air proofed protection.</b></li> <li>De-icing protection mode is activated.</li> <li>Over cooling in Dry mode.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING mode, please wait a few minutes.</li> <li>Normal operation in DRY mode.</li> </ul>
5	COOLING, DRY or HEATING mode does not start immediately.	<ul style="list-style-type: none"> <li>3-min. compressor delayed start.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation for these modes.</li> </ul>
6 <sup>(1)</sup>	Mode conflict <sup>(2)</sup> Fault code – A1	<ul style="list-style-type: none"> <li>Unit's operation mode conflict with the system operation mode.</li> <li>System control mode isn't first win, maybe force cooling/heating or master indoor unit or control by OAT.</li> </ul>	<ul style="list-style-type: none"> <li>Stop using the unit or change the unit's operation mode to the same with master indoor unit's mode.</li> <li>Connect with the dealer to check system control mode.</li> </ul>
7	Water overflow Fault code – A2	<ul style="list-style-type: none"> <li>Condense water is full.</li> </ul>	<ul style="list-style-type: none"> <li>Try to drain out the condense water.</li> </ul>
8	Unit communication failure ( for indoor unit) Fault code – A5	<ul style="list-style-type: none"> <li>Outdoor unit power failure.</li> </ul>	<ul style="list-style-type: none"> <li>Recover power supply for outdoor unit.</li> </ul>
9	Unit defrost Fault code – b1	<ul style="list-style-type: none"> <li>Unit temperature is low.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING mode, system can adjust automatically, please wait a few minutes.</li> </ul>
10	<b>Cold air proofed protection</b> Fault code – bb	<ul style="list-style-type: none"> <li>At the beginning run heating mode.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING mode.</li> </ul>
11	Unit Overheating Fault code – bd	<ul style="list-style-type: none"> <li>Unit temperature is too high.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING mode, system can adjust automatically, please wait a few minutes.</li> </ul>
12	Communication failure (for outdoor unit) Fault code – db	<ul style="list-style-type: none"> <li>Communication wire bad connection.</li> <li>Power failure.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the serviceman to check the communication wiring.</li> <li>Make sure all the power supply is normal.</li> </ul>
13	Unit deicing (For outdoor unit) Fault code – FC	<ul style="list-style-type: none"> <li>Outdoor coil is covered with ice.</li> <li>Refrigerant leakage.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING mode.</li> <li>Add refrigerant by serviceman if system enters deicing with high frequency.</li> </ul>
14	Unit oil returning cycle (For outdoor unit) Fault code – Fd	<ul style="list-style-type: none"> <li>It is time for oil returning to compressor.</li> </ul>	<ul style="list-style-type: none"> <li>Normal operation in HEATING DRY or COOLING mode.</li> </ul>



# 4. TROUBLESHOOTING

## Note:

<sup>[1]</sup> From item 6 to 14, the fault code can only scan from LWC.

<sup>[2]</sup> For mode conflict, if setting mode is HEATING and "A1" is warning, please change the mode to COOLING OR DRY OR FAN. If setting mode is COOLING or DRY or FAN and "A1" is warning, please change the mode to HEATING;

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If meeting following situation please call for your dealer as soon as possible:

1. Can't solve problem according to this manual;
2. Find other fault code from LWC which isn't referring in this manual.





