SPLIT TYPE ROOM AIR CONDITIONER
OPERATION MANUAL

Contents

AS24NE3HRA
HSU-12HNFS(DCINV)
HSU-19HNFS(DCINV)
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HSU-18HXBW2N
HSU-12HNH/DC(W)
HSU-18HNH/DC(W)
HSU-24HNH/DC(W)
HSU-12HNF/DC(G)
HSU-18HNF/DC(G)
HSU-24HNF/DC(G)
HSU-12HNF/DC(S)
HSU-18HNF/DC(S)
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AS07NS3HRA
AS09NS3HRA
AS12NS3HRA
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Please read this operation manual before using the air conditioner.
Keep this operation manual for future reference.

0010581908
### Indoor Unit

- **Inlet**
- **Air Purifying Filter (inside)**
- **Inlet grille**
- **Outlet**
- **Anion generator (inside)**
- **Horizontal flap (adjust up and down air flow Don't adjust it manually)**
- **Display board**
  - Remote signal receiver (A beeping sound is generated when a signal from remote controller is received.)
  - Power indicator (Lights up when unit starts.)
  - Timer mode indicator (Lights up when Timer operation is selected.)
  - Operation mode indicator (Lights up when the compressor is on.)
  - Ambient temp display (When receiving the remote control signal, display the set temperature.)

**Display board**

- **Remote signal receiver**
- **Power indicator**
- **Timer mode indicator**
- **Operation mode indicator**
- **Ambient temp display**

- **Actual inlet grille may vary from the one shown in the manual according to the product purchased**

### Outdoor Unit

- **OUTLET**
- **INLET**
- **CONNECTING PIPING AND ELECTRICAL WIRING**
- **DRAIN HOSE**

### Remote controller

- **Mode display**
- **Signal sending display**
- **SWING display**
- **FAN SPEED display**
- **TEMP display**
- **Additional functions display**
- **TIMER OFF display**
- **TIMER ON display**
- **HEAT display**
- **COOL display**
- **DRY display**
- **HEALTH display**
- **LOW-Temperature Heating Operation Down to 10°C**
- **Fresh air A-B yard**
- **Low-Temperature Heating Operation Down to 10°C**
- **Health**
- **Sleep**
- **Lock**
- **Timer On**
- **Timer off**
- **Light**
- **Extra Function**
- **Confirm/Cancel**
- **Reset**

Healthy function is not available for some units.
Operation

**Base Operation**

1. **Unit start**
   - Press ON/OFF on the remote controller, unit starts.

2. **Select temp. setting**
   - **PRESS TEMP+ / TEMP- button**
     - **TEMP+**: Every time the button is pressed, temp. setting increases 1°C, if kept depressed, it will increase rapidly.
     - **TEMP-**: Every time the button is pressed, temp. setting decreases 1°C, if kept depressed, it will decrease rapidly.
   - Select a desired temperature.

3. **Fan function**
   - Press button to enter additional options, when the cycle display to [X], [Y] will flash. And then press to enter to FAN function.
   - For each press button, fan speed changes as follows:
     - Remote controller:
       - LOW
       - MED
       - HI
     - Display circulated
     - Air conditioner running under displayed fan speed.
     - When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.

**Emergency operation and test operation**

- **Emergency Operation:**
  - Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditioner can run automatically for a while.
  - When the emergency operation switch is pressed, the “PI” sound is heard once, which starts the operation.
  - When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

<table>
<thead>
<tr>
<th>Room temperature</th>
<th>Designated temperature</th>
<th>Timer mode</th>
<th>Fan speed</th>
<th>Operation mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 23°C</td>
<td>28°C</td>
<td>No</td>
<td>AUTO</td>
<td>COOL</td>
</tr>
</tbody>
</table>

- It is impossible to change the settings of temp. and fan speed. It is also not possible to operate in timer or dry mode.

- **Test operation:**
  - Test operation switch is the same as emergency switch.
  - Use this switch in the test operation when the room temperature is below 16°C, do not use it in the normal operation.
  - Continue to press the test operation switch for more than 5 seconds. After you hear the “PI” sound twice, release your finger from the switch: the cooling operation starts with the air flow speed “Hi”.
  - Under this operation mode, the fan motor of indoor unit will run in high speed.

**Air Flow Direction Adjustment**

1. **Status display of air flow**
   - Vertical flap
     - For each press of button on remote controller:
       - remote controller:
         - COOL/DRY: [X] [Y] [Z] [A] [B] [C] Initial state
         - HEAT: [D] [E] [F] [G] [H] [I]  

2. **Left and right air flow adjustment**
   - For each press of button on remote controller:
     - remote controller:
       - Pos.1  Pos.2  Pos.3  Pos.4  
       - Pos.5  Pos.6  

**Cautions:**

- When adjusting the flap by hand, turn off the unit.
- When humidity is high, condensate water might occur when louveres are right.
- It is advisable not to keep horizontal flap at downward position for a long time in COOL or DRY mode, otherwise, condensate water might occur.

**Note:**

When restart after remote turning off, the remote controller will automatically memorize the previous set swing position.
Operation

**Comfortable SLEEP**

Press **SLEEP** button, the remote controller will show ☽, and then achieve to the sleep function. Press again this **SLEEP** button, the sleep function will be cancelled.

**Operation Mode**

1. In COOL,DRY mode
   1 hour after SLEEP mode starts, temp. will become 1°C higher than temp. setting. After another 1 hours, temp. rises by 1°C further. The unit will run for further 6 hours then stops. Temp. is higher than temp. setting so that room temperature won't be too low for your sleep.

```
SLEEP operation starts        SLEEP operation stops

Temp. setting               Unit stop
   In COOL, DRY mode

Approx. 6hrs

1 hr                           1 hr
Rises 1°C
Rises 1°C
```

2. In HEAT mode
   1 hour after SLEEP mode starts, temp will become 2°C lower than temp. setting. After another 1 hours, temp decrease by 2°C further. After more another 3 hours, temp. rises by 1°C further. The unit will run for further 3 hours then stops. Temp. is lower than temp. setting so that room temperature won't be too high for your sleep.

```
SLEEP operation starts        SLEEP operation stops

Temp. setting               Unit stop
   In HEAT mode

1 hr                           1 hr
Decreases 2°C                  Decreases 2°C
3 hrs                          3 hrs
Rises 1°C
```

3. In AUTO mode
   The unit operates in corresponding sleep mode corresponding sleep mode adapted to the automatically selected operation mode.

4. In FAN mode
   It has no SLEEP function.

5. When quiet sleeping function is set to 8 hours the quiet sleeping time can not be adjusted. When TIMER function is set, the quiet sleeping function can't be set up. After the sleeping function is set up, if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on, if the two modes are set up at the same time, either of their operation time is ended first, the unit will stop automatically, and the other mode will be cancelled.

**Note**

When TIMER function is set, the sleeping function can't be set up. After the sleeping function is set up, if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on.

**Note to the power failure resume:**

Press the sleep button ten times in five seconds and enter function after hearing four sounds. And press the sleep button ten times within five seconds and leave this function after hearing two sounds.

**Power Failure Resume Function**

If the unit is started for the first time, the compressor will not start running unless 3 minutes have elapsed. When the power resumes after power failure, the unit will run automatically, and 3 minutes later the compressor starts running.

**Healthy airflow Operation**

1. Press ☼ to starting
   Setting the comfort work conditions.

2. The setting of healthy airflow function

   Press button to enter additional options. Press this button continuously, the louvers location will cycle between in the following three locations, to choose the swing location what you needed, and then press button to confirm.

3. The cancel of the healthy airflow function

   Press button to enter additional options. Press this button continuously, the louvers location will cycle between in the following three locations again, and then press button to cancel.

   Notice: Do not direct the flap by hand. Otherwise, the grille will run incorrectly. If the grille is not run correctly, stop for a minute and then start, adjusting by remote controller.

   **Note:**

   1. After setting the healthy airflow function, the position grill is fixed.
   2. In cooling, it is better to select the ℃ mode.
   3. In cooling and dry, using the air conditioner for a long time under the high air humidity, condensate water may occur at the grille.
Operation

Timer On/Off  On-Off Operation

1. After unit starts, select your desired operation mode.
2. Press the button to change TIMER mode.

Press button "ON 0.5" will appear, after 10 seconds the time display will be blank.

Press button "OFF 0.5" will appear, after 10 seconds the time display will be blank.

Then select your desired TIMER mode (TIMER ON or TIMER OFF). "ON" or "OFF" will flash.

3. Press button to set time.

Press the button for each time, setting time in the first 12 hours increased by 0.5 hour every time, after 12 hours increased by 1 hour every time.

4. Confirm timer setting

After adjust the time, press button and confirm the time ON or OFF button will not flash any more.

5. Cancel timer setting

Press the button, the time display eliminated.

Hints:

After replacing batteries or a power failure happens, time setting should be reset.

According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

HEALTH Operation

(This function is unavailable on some models.)

Press HEALTH button, the remote controller will show and then achieve to the health function.

Press again this HEALTH button, the health function will be cancelled.

The anion generator in the air conditioner can generate a lot of anion effectively balance the quantity of position and anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.

Turbo Operation

(This function is unavailable on some models.)

When you need fast cool or fast dehumidification, you can choose the Turbo function; when you sleep, read, you can choose Quiet function.

Press the button, you can switch the "Turbo" and "Quiet" function easily. Every press, the remote controller will switch as below.

When running in Turbo, the fan speed is the highest, when running in Quiet, the fan speed is super slow.

Loading of the battery

Remove the battery cover;
2. Load the batteries as illustrated.
2 R-03 batteries, resetting key (cylinder);
3. Be sure that the loading is in line with the " + " or " - ";
4. Load the battery, then put on the cover again.

Note:

● The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well.
● When electronic started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receiving the signals, so the distance to the indoor unit should be shorter.
● Full display or unclear display during operation indicates the batteries have been used up. Please change batteries.
● If the remote controller can’t run normally during operation, please remove the batteries and reload several minutes later.
Maintenance

For Smart Use of The Air Conditioner

<table>
<thead>
<tr>
<th>Setting of proper room temperature</th>
<th>Do not block the air inlet or outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper temperature</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Close doors and windows during operation</th>
<th>Use the timer effectively</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If the unit is not to be used for a long time, turn off the power supply main switch.</th>
<th>Use the louvers effectively</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Remote Controller

Do not use water, wipe the controller with a dry cloth. Do not use glass cleaner or chemical cloth.

Indoor Body

Wipe the air conditioner by using a soft and dry cloth. For serious stains, use a neutral detergent diluted with water. Wring the water out of the cloth before wiping, then wipe off the detergent completely.

Do not use the following for cleaning

Gasoline, benzine, thinner or cleanser may damage the coating of the unit.

Hot water over 40°C (104°F) may cause discoloring or deformation.

Air Filter cleaning

1. Open the inlet grille by pulling it upward.
2. Remove the filter.
   Push up the filter’s center tab slightly until it is released from the stopper, and remove the filter downward.
3. Clean the filter.
   Use a vacuum cleaner to remove dust, or wash the filter with water. After washing, dry the filter completely in the shade.
4. Attach the filter.
   Attach the filter correctly so that the “FRONT” indication is facing to the front. Make sure that the filter is completely fixed behind the stopper if the right and left filters are not attached correctly, that may cause defects.
5. Close the inlet grille.

Replacement of Air Purifying Filter

(Note: Air purifying filter is optional part)

1. Open the Inlet Grille
   Prop up the inlet grille by using a small device named grille-support which located in the right side of the indoor unit.

2. Detach the standard air filter
   Slide the knob slightly upward to release the filter, then withdraw it.

3. Attach Air Purifying Filter
   Put air purifying filter appliances into the right and left filter frames.

4. Attach the standard air filter
   (necessary installation)

   ATTENTION:
   The white side of the photocatalyst air purifying filter face outside, and the black side face the unit.
   The green side of the bacteria-killing medium air purifying filter face outside, and the white side face the unit.

5. Close the Inlet Grille
   Close the Grille surely

NOTE:
- The photocatalyst air purifying filter will be solarized in fixed time. In normal family, it will be solarized every 6 months.
- The bacteria-killing medium air purifying filter will be used for a long time, no need for replacement. But in the period of using them, you should remove the dust frequently by using vacuum cleaner or flapping them lightly, otherwise, its performance will be affected.
- Please keep the bacteria-killing medium air purifying filter in the cool and dry conditions avoid long time directly sunshine when you stop using it, or its ability of sterilization will be reduced.
### Cautions

#### WARNING

Please call Sales/Service Shop for the Installation. Do not attempt to install the air conditioner by yourself because improper works may cause electric shock, fire, water leakage.

#### WARNING

<table>
<thead>
<tr>
<th>When abnormality such as burnt-small found, immediately stop the operation button and contact sales shop.</th>
<th>Use an exclusive power source with a circuit breaker</th>
<th>Check proper installation of the drainage securely</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="OFF" /></td>
<td><img src="image" alt="STRICT ENFORCEMENT" /></td>
<td><img src="image" alt="STRICT ENFORCEMENT" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connect power supply cord to the outlet completely</th>
<th>Use the proper voltage</th>
<th>Do not use power supply cord extended or connected in halfway 2. Do not install in the place where there is any possibility of inflammable gas leakage around the unit. 3. Do not get the unit exposed to vapor or oil steam.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="STRICT ENFORCEMENT" /></td>
<td><img src="image" alt="STRICT ENFORCEMENT" /></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do not use power supply cord in a bundle.</th>
<th>Take care not to damage the power supply cord.</th>
<th>Do not insert objects into the air inlet or outlet.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PROHIBITION" /></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do not start or stop the operation by disconnecting the power supply cord and so on.</th>
<th>Do not channel the air flow directly at people, especially at infants or the aged.</th>
<th>Do not try to repair or reconstruct by yourself.</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

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<tr>
<th>Do not use for the purpose of storage of food, art work, precise equipment, breeding, or cultivation.</th>
<th>Take fresh air occasionally especially when gas appliance is running at the same time.</th>
<th>Do not operate the switch with wet hand.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PROHIBITION" /></td>
<td><img src="image" alt="STRICT ENFORCEMENT" /></td>
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</tbody>
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<thead>
<tr>
<th>Do not install the unit near a fireplace or other heating apparatus.</th>
<th>Check good condition of the installation stand</th>
<th>Do not pour water onto the unit for cleaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PROHIBITION" /></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do not place animals or plants in the direct path of the air flow</th>
<th>Do not place any objects on or climb on the unit.</th>
<th>Do not place flower vase or water containers on the top of the unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PROHIBITION" /></td>
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</tr>
</tbody>
</table>
### Troubleshooting

**Before asking for service, check the following first.**

<table>
<thead>
<tr>
<th>Phenomenon</th>
<th>Cause or check points</th>
</tr>
</thead>
</table>
| The system does not restart immediately. | - When unit is stopped, it won’t restart immediately unless 3 minutes have elapsed to protect the system.  
- When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner. |
| Noise is heard                  | - During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.)  
- During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes.  
- Should there be a big noise from air flow in unit operation, air filter may be too dirty. |
| Smells are generated.           | - This is because the system circulates smells from the interior air such as the smell of furniture, paint, cigarettes. |
| Mist or steam are blown out.    | - During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air. |
| In dry mode, fan speed can’t be changed. | - In DRY mode, when room temperature becomes lower than temp. setting+2°C, unit will run intermittently at LOW speed regardless of FAN setting. |

### Cautions

**The machine is adaptive in following situation**

1. **Applicable ambient temperature range:**

   **For: T1**
   - **Cooling**
     - Indoor: Maximum: D.B / W.B
     - Minimum: D.B / W.B
     - 32°C/23°C
   - **Outdoor**
     - Maximum: D.B
     - Minimum: D.B
     - 43°C/26°C
   - **Heating**
     - Indoor: Maximum: D.B
     - Minimum: D.B
     - 27°C
     - Outdoor: Maximum: D.B / W.B
     - Minimum: D.B / W.B
     - 24°C/18°C

   **For: T3**
   - **Cooling**
     - Indoor: Maximum: D.B / W.B
     - Minimum: D.B / W.B
     - 29°C/19°C
   - **Outdoor**
     - Maximum: D.B / W.B
     - Minimum: D.B
     - 54°C/24°C
   - **Heating**
     - Indoor: Maximum: D.B
     - Minimum: D.B
     - 27°C
     - Outdoor: Maximum: D.B / W.B
     - Minimum: D.B / W.B
     - 24°C/18°C

2. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.

3. If the fuse on PC board is broken please change it with a fuse type T. 3.15A/250V.

4. If the fuse of outdoor unit on PC board is broken, please change it with the type of T. 25A/250V.

5. The wiring method should be in line with the local wiring standard.

6. After installation, the power plug should be easily reached.

7. The used batteries should be disposed of properly.

8. The appliance is not intended to be used by young children or infirm persons without supervision.

9. Young children should be supervised ensure that they do not play with the appliance.

10. The appliance must be installed on a strong enough support.

**T1:** Application temp. range of air conditioner -7°C~43°C.

**T3:** Application temp. range of air conditioner -7°C~54°C.