OPERATING MANUAL

DC INVERTER
R410A

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Thank you for purchasing our Room Air Conditioner.
Before using your air-conditioner, please read the operating instruction carefully and keep it for future reference.

http://splitoff.ru/tehn-doc.html
каталоги, инструкции, сервисные мануалы, схемы.
FEATURES AND FUNCTIONS

INVERTER
At the start of operation, a large power is used to bring the room quickly to the desired temperature. Afterwards, the unit automatically switches to a low power setting for economic and comfortable operation.

VERTICAL AIR SWING
Automatic swing of supply air in vertical direction. The flap moves automatically in upward and downward direction to spread the conditioned air evenly throughout the room.

WIRELESS REMOTE CONTROL UNIT
The Wireless Remote Control Unit allows convenient control of air conditioner operation.

AUTO CHANGE OVER
The operation mode (cooling, dry, heating) is switched automatically to maintain the set temperature, and the set temperature is kept constant at all times.

OPERATING TEMPERATURE RANGE

<table>
<thead>
<tr>
<th>Mode</th>
<th>Upper Limit</th>
<th>Lower Limit</th>
<th>Indoor DB[°C]</th>
<th>Indoor WB[°C]</th>
<th>Outdoor DB[°C]</th>
<th>Outdoor WB[°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>32</td>
<td>21</td>
<td>23</td>
<td>15</td>
<td>46</td>
<td>10</td>
</tr>
<tr>
<td>Heating</td>
<td>27</td>
<td>10</td>
<td>NA</td>
<td>NA</td>
<td>24</td>
<td>-15</td>
</tr>
</tbody>
</table>

SLEEP TIME
When the SLEEP button is pressed during heating mode, the air conditioner’s thermostat setting is gradually lowered during the period of operation; during cooling mode, the thermostat setting is gradually raised during the period of operation. When the set time is reached, the unit automatically turns off.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html
**PRECAUTIONS**

⚠️ **Danger**  
This sign warns of 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 for repairs.
- 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 insert fingers or objects into the outlet port or intake grilles.
- 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 of this appliance is damaged, it should only be replaced by the authorized service personnel, 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 operation. If use it for a long time, please keep the power on.

⚠️ **Caution**  
This sign warns of damage to 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 from the indoor unit.
- Do not set flower vases or water containers on top of air conditioner.
- 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 source when not using the unit for extended periods.
- Check the condition of the installation stand for damage.
- 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 in applications involving the 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 radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that any electronic equipment is at least one metre away from either the indoor or outdoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor units, take precautions to prevent access to infants.
- Do not use inflammable gases near the air conditioner.

Все каталоги и инструкции здесь: [http://splitoff.ru/tehn-doc.html](http://splitoff.ru/tehn-doc.html)
**NAME OF EACH PART**

**Indoor unit**
- Air in
- Air out

**Outdoor unit**
- Air in
- Air out

The Pattern in display:
- : Cool
- : Dry
- : Fan
- : Heat
- : Run
- : Set Temp.

- (1) Power cable
- (2) Remote Control
- (3) Front panel
- (4) Filter
- (5) Guide louver
- (6) Wall Pipe
- (7) Bind tape
- (8) Connection wire
- (9) Drainage pipe
**OPERATION TIPS**

- Set a suitable room temperature; excessively low room temperature is not good for your health and wastes electricity. Avoid frequent setting of the temperature.

- During cooling, avoid direct sun. Keep curtains and blinds closed. Close doors and windows to keep the cool air in the room.

- Avoid generating heat or using of heating appliances while the air conditioner in cooling mode.

- Make sure that the air flap is positioned properly: horizontal flow in cooling and downward vertical flow for heating.

- Keep the room temperature uniform by adjusting the left/right vertical air blades.

- Position the air flap and the left/right air blades in such a manner as to prevent your body from being exposed directly to air drafts.

- During prolonged operation, ventilate the room occasionally by opening a window from time to time.

- In a power failure, the microprocessor memory is retained. When restarted, operation will be resumed in the last mode of operation. However, if the timer was used, the unit will be turned off by the timer only if the remote control is aimed at the unit. Otherwise the power failure will cause the timer data to be erased from the microprocessor memory.

- After turning on, allow more than 3 minutes for cooling, heating or dry operation to start.

- When DRY mode is used, make sure that the room temperature is between 20°C and 27°C. When used out of this range, the unit may protect itself and become inoperative.

- When COOL or DRY modes are used, make sure that the room's relative humidity is below 78%. If the unit is used for a prolonged periods of time in high humidity, moisture may form on the air outlet and drip down.

- Remote control signals may not be received if the indoor unit controls cover is exposed to direct sunlight or strong light. In such a case, block the sunlight or dim the lighting.

- The remote control is operative in a range of 8 meters. If you are out of range, the remote control may have difficulties in transmitting signals.
Your air-conditioner includes several automatic protection modes which enables you to use it virtually at any time and in any season regardless of the outdoor temperature. Some of the protection modes are listed below:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Operation conditions</th>
<th>Protection from</th>
<th>Controlled remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool And Dry</td>
<td>Low outdoor temperature</td>
<td>Indoor coil freezes up</td>
<td>Stops outdoor fan and compressor when approaching freezing conditions. Resumes operation automatically. Operating indicator blinks</td>
</tr>
<tr>
<td></td>
<td>High outdoor temperature</td>
<td>Outdoor coil overheating</td>
<td>Stop compressor when approaching over heating conditions. Resumes operation automatically. Operating indicator blinks</td>
</tr>
<tr>
<td>Heating</td>
<td>Low outdoor temperature</td>
<td>Outdoor coil ice build up</td>
<td>Reverses Operation from heating to cooling for short periods to de-ice outdoor coil. Operating indicator blinks</td>
</tr>
<tr>
<td></td>
<td>High Indoor or outdoor</td>
<td>Indoor coil overheating</td>
<td>Stops outdoor fan and compressor when approaching high indoor coil temperature. Resumes operation automatically. Operating indicator blinks</td>
</tr>
<tr>
<td>temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: When switching the unit to OFF after heating operation, the unit may perform outdoor coil deicing operation. In such a case, the compressor will continue to run for some time after the unit has switched to OFF, and the indoor unit louvers are closed. This feature is a part of the normal unit operation.
CARE AND MAINTENANCE

Before performing any maintenance procedure, make sure to disconnect the air conditioner from the power.

CLEANING THE AIR FILTER

To remove the air filters, lift up the panel, push the air filters up slightly to unlock them, pull out the filters, clean the filter by washing in warm soapy water and dry thoroughly. Align and fit the filters in place. Close the panel by pushing it in the center to lock it in place.

- If your air conditioner is provided with a filter cleaning indicator, when the indicator lights up, you should remove the filters for cleaning, then use the Reset button to return off the indicator after cleaning.

DO NOT OPERATE THE UNIT WITHOUT FILTERS!

PURIFICATION FILTER REPLACEMENT

The air purifying filter should be removed from the unit and replaced once a year, show as following:

1. Pulling out the filter.
2. Replacing the filter in its place.

Note: The above procedure is used for replacing the active carbon filter (when supplied).

CLEANING THE AIR CONDITIONER

- Wipe the unit with a soft dry cloth or clean it using a vacuum cleaner.
- Do not use hot water or volatile materials which could damage the surface of the air conditioner.

AT THE BEGINNING OF THE SEASON

- Make sure there are no obstacles blocking the flow of inlet or outlet air, in both indoor and outdoor units.
- Make sure the power is properly connected.

PROTECT THE ELECTRONIC SYSTEM

- Indoor unit and remote control must be at least 1 meter away from a TV, radio or any other home electronic appliance.
- Protect the inner unit from direct sun or lighting.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html
Before calling for service, please check the following common malfunctions and correct it as needed.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Unit does not operate. Stand-by indicator does not light up</td>
<td>□ Unit not connected to power</td>
<td>• Plug in the power cord</td>
</tr>
<tr>
<td></td>
<td>□ Power failure</td>
<td>• Check main fuse</td>
</tr>
<tr>
<td>• Unit does not operate. Stand-by indicator lights.</td>
<td>□ Remote control malfunctions</td>
<td>• Check remote control batteries</td>
</tr>
<tr>
<td></td>
<td>□ The remote control is locked</td>
<td>• Try to operate from a closer distance</td>
</tr>
<tr>
<td>• Unit does not respond properly to remote control command</td>
<td>□ IR signal does not reach unit</td>
<td>• Start from on-unit controls</td>
</tr>
<tr>
<td></td>
<td>□ Distance between remote control and unit too large or aimed at from improper angle</td>
<td>• Unlock the remote control</td>
</tr>
<tr>
<td></td>
<td>□ IR receiver on-unit exposed to strong light source</td>
<td></td>
</tr>
<tr>
<td>• Air does not blow out from indoor unit</td>
<td>□ De-icing protection mode is activated</td>
<td>• Check for obstruction between unit and remote control. Clear if needed.</td>
</tr>
<tr>
<td></td>
<td>□ Unit in AUTO FAN mode</td>
<td>• Get closer to unit</td>
</tr>
<tr>
<td></td>
<td>□ Over cooling in DRY</td>
<td>• Dim lights, fluorescent especially</td>
</tr>
<tr>
<td>• COOLING, DRY or HEATING does not start immediately</td>
<td>□ 3-min. Compressor delayed start</td>
<td>• Normal operation in HEATING mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Normal operation in DRY mode</td>
</tr>
<tr>
<td>• Unit functions but does not perform sufficiently</td>
<td>□ Improper temperature setting</td>
<td>• Normal operation for these modes</td>
</tr>
<tr>
<td></td>
<td>□ Unit capacity in sufficient for load or room size</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Reset temperature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Consult your dealer</td>
</tr>
</tbody>
</table>

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html
In multi split applications where more than a single indoor unit is connected to the same outdoor unit, it may happen that the requested operation mode can not be operated. The reason for that is that the system is currently operating in a different mode. The system operation mode can be either cooling or heating and is set by the outdoor unit controls, based on indoor and outdoor unit settings. The rules for the mode settings may be different from one application to another. In most applications the system operation mode will not be changed as long as there is an operating indoor unit requesting the active mode. The operation mode in such application will be set by the first indoor unit that is turned ON from Stand By. The following table shows the indoor unit operation modes that can be operated per active system mode:

<table>
<thead>
<tr>
<th>Requested indoor unit operation mode</th>
<th>System Active Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cooling</td>
</tr>
<tr>
<td>Cooling</td>
<td>V</td>
</tr>
<tr>
<td>Heating</td>
<td>X</td>
</tr>
<tr>
<td>Dry</td>
<td>V</td>
</tr>
<tr>
<td>Auto Cool/Heat v (cooling only)</td>
<td>v</td>
</tr>
<tr>
<td>Ventilation</td>
<td>V</td>
</tr>
</tbody>
</table>

(v - enabled indoor unit operation mode, X - disabled indoor unit operation mode)