

OWNER'S MANUAL

AIR CONDITIONER

- Please read this manual carefully and thoroughly before using this appliance.
- Contact an Authorized Service representative for repair or maintenance of this unit.
- Contact an installation technician for the installation of this unit.
- This appliance is not intended to be used by young children or disabled persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.

TYPE : Multi V Water II (Heat Pump and Heat Recovery)
ARWN80LA2 / ARWB80LA2
ARWN100LA2 / ARWB100LA2
ARWN160LA2 / ARWB160LA2
ARWN180LA2 / ARWB180LA2
ARWN200LA2 / ARWB200LA2



P/NO : MFL67480908

Dear Customers,

We wish that our product, which has been manufactured in modern facilities and tested meticulously for quality control, provides you with the best performance.

Thus, we kindly ask you to read this manual thoroughly before using the unit and save this manual for future reference.

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1 Safety Warnings

- Contact your dealer, sales representative, an authorized electrician or an authorized service center for electrical work on this unit.
- Always contact with your dealer or an authorized service center for installation.
- Always ground this unit.
- Always use circuit or breaker dedicated to this unit.
- Contact with your dealer or an authorized service center for the installation, removal or re-installation of this unit.
- Never try to install, remove or re-install this unit by yourself (customer).
- Do not store or use flammable material or gases in the vicinity of the unit.
- Use a circuit breaker or fuse with correct rating.
- Install the unit to a proper place that it will not be damaged due to a storm, typhoon or an earthquake.
- Do not install the unit on a damaged installation pad.
- Do not charge the unit with refrigerant other than the refrigerant specified on the unit during the installation or transportation of the unit.
- Do not change the settings of the safety equipment after the unit is installed.
- Ventilate the room before operating the unit when there is a gas leak.
- Install the cover of the control box and front panel carefully.
- Check if the refrigerant concentration is within the safety limits when there is a gas leak while operating the unit in small, enclosed areas preventing proper ventilation of the area.

OPERATION

- Do not make modifications or extensions to power cord.
- Always use circuit or breaker dedicated to this unit.
- Be careful to prevent water ingress to the unit.
- Do not touch (operate) with wet hands.
- Do not store or use flammable material or gases in the vicinity of the unit.
- Do not put your hand inside the air inlet or outlet during installation of the unit.
- Make sure that no one steps on the outer unit or fall on it.
- Do not put your hand or other things inside the air inlet or outlet during the operation of the unit.

WARNING

INSTALLATION

- Always check for refrigerant leak after the installation or maintenance of the unit.
- Always hold the unit straight even when you are installing it.
- Do not install the unit to a place where the noise and air coming from the outer unit may cause harm to the neighbors.
- Use a proper power cord.
- Do not use the unit for special purposes as to protect the food or art pieces. This is not a delicate cooling system, just a general purpose air conditioner.
- Keep the unit away from children. Heat exchanger surfaces are very sharp.
- Use noise dampening equipment when the unit is installed at hospitals or libraries.
- Do not install the unit to places open to direct sea wind (salt spraying).

OPERATION

- Do not use the unit on special environmental conditions.
- Do not prevent inlet or outlet of the air flow.
- Ensure that the power cord is not pulled or damaged during the operation of the unit.
- Ensure that the installation area is not deteriorated in time.
- Connect the water drainage hose correctly (by using isolation) during the installation of the unit.
- Be careful during the transportation of the unit.
- Be careful when you are unpacking and installing the unit.
- Supply power to the unit minimum 6 hours before operating it.
- Do not touch the refrigerant hoses during or after the operation of the unit.
- Do not operate the unit with the front cover or control box removed.
- Do not cut power supply immediately after turning off the unit.
- Perform the automatic addressing after connecting the power and communication cords of the inner and outer units. Automatic addressing shall also be performed when the electronic board of one of the inner units is replaced.
- Use a stable stool or ladder when you are cleaning or maintaining the unit.
- Ensure that the installation area is not deteriorated in time.

2 Technical specification

		ARWN80LA2	ARWN100LA2	ARWN160LA2	ARWN180LA2	ARWN200LA2
Cooling Capacity	kW	22.4	28	44.8	50.4	56
Heating Capacity	kW	25.2	31.5	50.4	56.7	63
Input	Cooling	kW	4.5	5.6	8.9	10.1
	Heating	kW	4.7	5.8	9.3	10.5
Power Supply	Ø/V/Hz	3/380 - 415/50	3/380 - 415/50	3/380 - 415/50	3/380 - 415/50	3/380 - 415/50
Running Current	A	2.5~16.0	2.5~18.0	2.5~25.0	2.5~27.0	2.5~28.5
COP	Cooling	-	5.0	5.0	5.0	5.0
	Heating	-	5.36	5.43	5.42	5.40
Noise level	dB(A)	51	51	51	51	51
Dimensions(WxHxD)	mm	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547
Net Weight	kg	154	154	223	223	223
Circuit Breaker	A	30	30	40	40	40

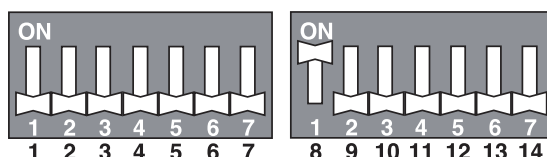
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Notes:

- Capacities and Inputs are based on the following conditions
 Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
 Water inlet temp. 30°C[86°F]
 Heating : Indoor temp. 20°C[68°F]DB
 Water Inlet temp. 20°C[68°F]
 * Interconnecting Piping Length 7.5m (25 ft.)
 * Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB.

■ Dip switch setting

* Use this mode when temperature of circulation inlet water is under 10°C, You should use an anti freeze



3 Practical and Useful Information



Do not overcool your room. This may cause health issues, and also it causes excessive power consumption.



Prevent direct sunlight entering the room and keep the blinds and curtains closed when the air conditioner is operated.



Ensure that the room temperature and air flow is distributed homogeneously inside the room by adjusting the directions of the vertical and horizontal flaps of your air conditioner.



Using air curtains on wide and large areas that the doors are kept open all the time, for example in cafeterias, patisseries etc., will allow using your air conditioner more efficiently by reducing the electric consumption. Then, the room shall reach the desired temperature more quickly.



Keep all doors and windows closed whenever possible to keep the cool air inside the room.



Clean the air filters regularly. Blockage in the air filter decreases air flow, cooling and dehumidification. If you do not clean air filters regularly, cooling capacity will be lowered and some of the energy you use will be wasted.



Ventilate the room by opening the windows as possible, since the windows are kept closed during the operation of your air conditioner.



If you will not use air conditioner for a long time, operate it in the fan position for 2 to 3 hours; this will remove the humidity inside the air conditioner. Then turn the A/C off with the fuse.

4 Consumer Services

Dear Customers,

Bosch Termoteknik Call Center operates 24/7 with the following telephone number: **444 9 474** (Automatic recording system is used between 20:00 and 09:00). You will be contacted in the next working hour when you call anytime other than the hours specified above and leave your name, surname and telephone number with the area code. You may take the telephone number of the nearest Authorized Service or request any service you want by dialing this number directly.

Call Center
444 9 474

5 What to do for Comfortable Use and Energy Saving?

1. Make sure that the capacity of your air conditioner is proper for your space.
2. An air conditioner with cooling capacity lower than the required capacity for the space will not provide efficient cooling; and it shall be forced to operate the compressor continuously and energy consumption will be increased.
3. An air conditioner with cooling capacity higher than the required capacity for the space will cool the room too quickly; and it turn the compressor on and off frequently. This will increase the energy consumption of your air conditioner. The room will be over-cooled and this will cause discomfort instead of comfort. Also, noise in the room smaller with respect to the capacity of the air conditioner will disturb you as the air conditioners with higher cooling capacity have higher noise levels.
4. The heat insulation of the room that you used the air conditioner will increase your comfort and decrease the energy consumption; thus proper insulation of the heat loss gain points of the room is important. Moreover, the doors and windows of the room shall always be closed during the operation of the air conditioner. If the doors shall be kept open (as in shops or stores), use equipment that prevent hot or cold air flow from the outside as air curtains.
5. Using blinds, curtains or shades at the hours that the sunlight directly enters the room may prevent increase in your energy consumption for cooling.
6. Protecting the outer unit from direct sunlight with a tent or canopy etc. (without preventing air flow for the outer unit) when the outer unit is exposed to direct sunlight may prevent increase in your energy consumption for cooling.
7. It is important to follow placement guidelines for the inner and outer units during installation. It is especially important that there are no factors to prevent air flow in front of the air inlet/outlet ducts and blowing vents.
8. Adjusting your air conditioner to lower temperature setting than you need shall increase your energy consumption besides decreasing your comfort level. You may use your air conditioner with higher temperature settings as per your needs instead of the lowest temperature setting.
9. Clean the dust prevention filters of your air conditioner regularly. As the blockage of the filters over time may prevent air flow, it will prevent you from obtaining the best performance from your air conditioner. This will also increase your energy consumption as it will constrain your air conditioner.
10. Cleaning of the heat exchanger elements on the inner and outer units of the air conditioner is very important. When the heat exchanger elements get dirty, your air conditioner will operate more to provide the required cooling/heating, thus your energy consumption will be increased. Therefore, we advise you to have your air conditioner maintained at least once a year. (Annual maintenance is out of warranty coverage.)
11. You may lower your energy consumption by using the programming function of air conditioner. You may set the air conditioner to shut-down when you will not use the room, and to re-open when you will use the room.
12. We advise you to set the air directing flaps so that they will not disturb the occupants of the room.



İTHALATÇI FİRMA

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