



Air Cooler

Service Manual

MODEL: ACL-M30AD

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PRECAUTION

1. Warning:

- Use machine specified power supply.
- Do not operate the unit with wet hands.
- Do not unplug the power supply while machine is operating.
- Extension cord not recommended.
- Do not insert fingers, sticks or other objects into the unit.
- In case of bad smell, turn off and then unplug power supply.
- Do not repair broken power cord yourself. Only manufacturer agents and qualified technicians may repair it.
- Do not use the heater when the fan is broken.
- Do not cover the air outlet and air inlet.

2. Notices:

- Do not operate the unit near flammable or explosive gas.
- Keep unit at least 1 meter away from TV or Radio for interference.
- Do not unplug power by pulling the power cord.
- Empty water tank and unplug the power before putting unit in storage.
- Do not wash the unit using water or chemical solvent.
- Turn off machine, unplug the power, and then use dry cloth for cleaning.
- Do not shake or beat the unit.
- Do not insert any object, spray insecticide or chemical solvent on the unit.
- Do not block wind inlet and outlet of the unit.
- Do not mix old and new batteries in remote control.
- Disconnect power supply if unit will not be used for long time.
- Use 220Vac ~ 240Vac, 50/60Hz power supply with no less than 15A.

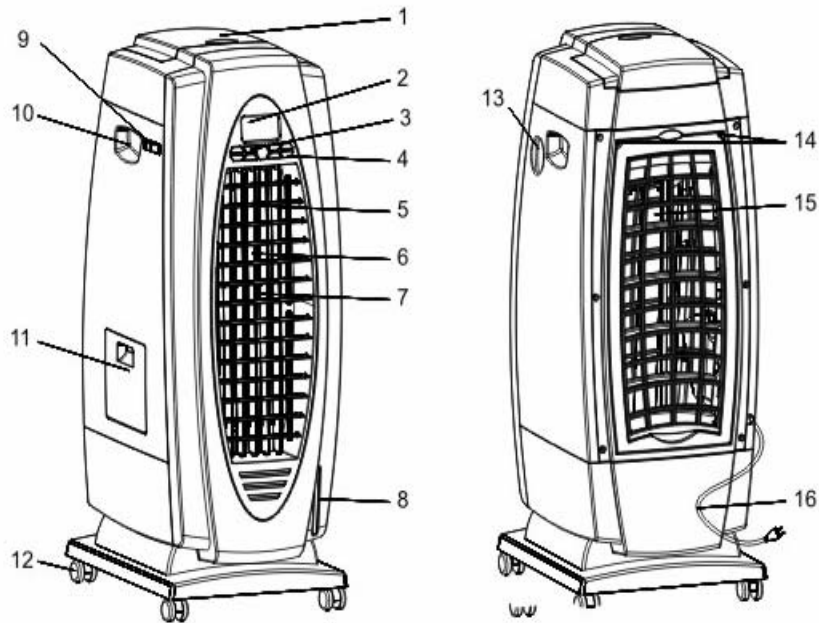
TECHNICAL SPECIFICATIONS

Item	Specification	Remark
Rated Voltage:	AC220-240V/50Hz/60Hz	
Rated Power (Cooling):	70W	
Rated Power (Heating):	2000W	
Airflow Volume:	400m ³ /h	
Water Tank:	8L	
G.W:	10.5Kg	
Meas.:	405x320x820mm	

FEATURES

- 4-in-1 function: heater, cooler, air purifier, and humidifier.
- High efficient, safe and cost-effective PTC heating system.
- Purify air by removing dusts and unpleasant odors.
- Environment-friendly, large cooling capacity and high performance rating.
- Add Ice to ice tank to archive additional cooling, down to 3-5°C.
- Energy efficiency and low power consumption.
- Water curtain provides moisture to protect skin from dryness.
- Germ-proof air filter.
- 100 degree wind outlet swing.

STRUCTURE



- 1.Ice tank Cover
- 2.LCD
- 3.Control Panel
- 4.Remote Control Receiver
- 5.Horizontal Vane
- 6.Air Outlet
- 7.Vertical Vane
- 8.Water Level Indicator
- 9.Rocker switch
- 10.Handle
- 11.Water Inlet
- 12.Caster
- 13.Heater/Cooler Knob
- 14.Air Filter Screw
- 15.Air Filter
- 16.Power Cord

MAINTENANCE THE UNIT

Warning:

1. Make sure to disconnect the power supply unit.
2. Do not use water or wet cloth for cleaning to wash body or LCD.

To clean air filter:

1. Pull the air filter handle (Do not pulling too hard).

To clean water tank:

1. Open the water tank.
2. Take out the water stopple and empty the water tank.
3. Take off the back air filter frame and the water curtain bracket.
4. Clean the water tank.

To clean water curtain:

1. Dismantle two screws from the back air filter frame.
2. Take off the back air filter frame with the water curtain bracket.
3. Clean the water curtain.
4. Put things back in the reserved order.
5. Make sure the water curtain is balanced.

To clean pump:

1. Open the water tank door.
2. Take out the water stopple and empty the water tank.
3. Dismantle two screws from the back air filter frame.
4. Take off the back air filter frame with the water curtain bracket.
5. Take off the air filter cover from pump.
6. Clean the pump.

TROUBLESHOOTING GUIDE:

Cannot turn on the machine:

- Check Power plug fro loose connection.
- Check the fuse to make sure it is not burned.
- Check power supply voltage to make sure it matches the machine voltage.

The remote control does not work:

- Make sure the batteries are inside. Try to use new batteries.
- Make sure the remote control is pointing at the signal receiver.

There is alarm when cooling:

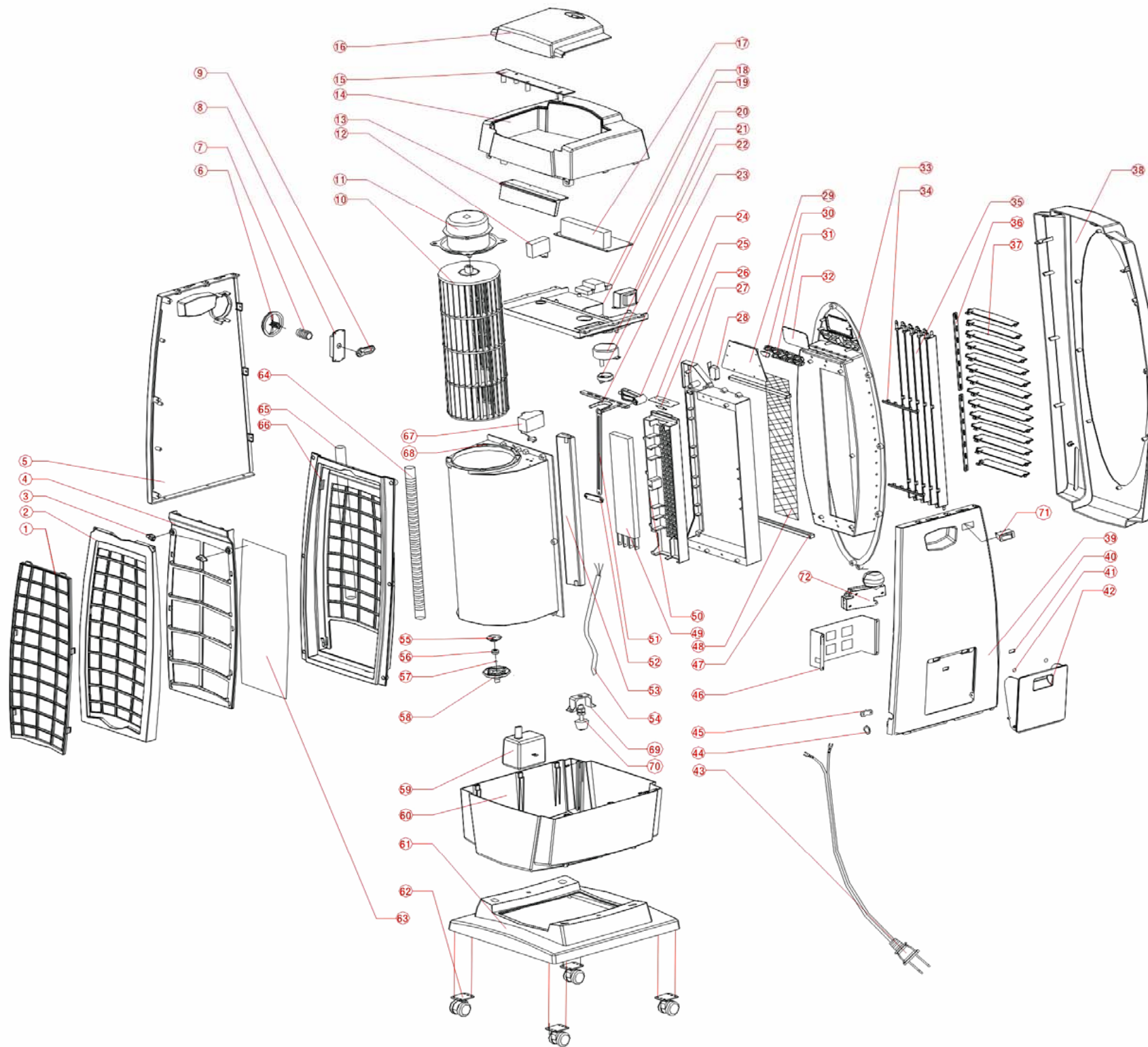
- Please check the water level, whether it have reached the limit marked as "MIN".

The pump cannot pump enough water:

- Check whether the pump filter is blocked, clean the pump if necessary.

For all other malfunctions, contact professional technician.

EXPLODED VIEW



PART LIST

No	Part name	Material	Qty
1	BACK WEB	ABS	1
2	Web Bracket	ABS	1
3	Knob for Water Curtain	ABS	2
4	Water Curtain Bracket	ABS	1
5	Right Side Board	ABS	1
6	Knob for Heater or Cool	ABS	1
7	Compress Spring	65Mn Cr	1
8	Knob Cover	ABS	1
9	Camp Pole	PC	1
10	Fan	AS fiber Glass	1
11	Motor	POWER CONSUMPTION: 65w, SPEED RATE: 1150RPM (high speed)	1
12	Capacitor	2 μ F/450V	1
13	Counterdrain	ABS	1
14	Upper Cover	ABS	1
15	Anti-water cover	ABS	1
16	Ice cover	ABS	1
17	Main PCB	ASS'Y	1
18	Power Pole	16A 250V VDE	1
19	Upper Bracket	PP94V0	1
20	Transformer	230V input/12V output/3.6 W	1
21	OSC motor	230V rate: > or = 4W	1
22	Cam	ABS	1
23	Mail pole	PC	1
24	Revolve wheel	PC	1
25	Therm-Protect Bracket	Mica Slice	1
26	Therm-Protect	TF125 ⁰ C 15A 250V	2
27	Heater Bracket	PC	4
28	Micro switch	15A 250V VDE&UL	2
29	LCD display	ASS'Y	1
30	Remote windows	PS or PMMA	1
31	Key	ABS	1
32	LCD window	PS or PMMA	1
33	Front Bracket	ABS	1
34	Long vane clip	PC	1
35	Short vane clip	PC	1
36	Short vane	PC	1
37	Front case	ABS	2
38	Left side board	ABS	1

40	Steel plane	A3Steel Zinc	2
41	Magnetism	Magnetic Iron	2
42	Water door	ABS	1
43	Power cord set	1.5MM ² 2G VDE	1
44	Power cord ring	PVC	1
45	Power cord jacket	PP	1
46	Steel bracket	ABS	1
47	Slide rib	PC	2
48	Steel web	A3 Steel With Black Paint	1
49	PTC	2000V 220~240VAC VDE	1
50	PTC Bracket	PA + 30%	1
51	Steel pole	A3Steel Chrome-Zinc	1
52	Plastic pole	PC	1
53	Fan Small Bracket	ABS	1
54	Lead	16AWG High Temp. Cable VDE	1
55	Bearing Cover	PC	1
56	Bearing	Steel Cable	1
57	Steel Ball	Iron Cast Steel	1
58	Bearing Base	PC	1
59	Pump	Model: 1300 VDE	1
60	Water Tank	ABS	1
61	Bottom Base	ABS	1
62	Wheel	ASS'Y	1
63	Water Curtain	Mix-fabric	1
64	Back case	ABS	1
65	PVC Bend Pipe(s)	PVC	1
66	PVC Bend Pipe(l)	PVC	1
67	AN-Ion	ASS'Y	1
68	Fan Bracket	ABS	1
69	Water Switch Bracket	ABS	1
70	Water Switch	ASS'Y	1
71	Rocker Switch	ASS'Y	1
72	Safe Switch	ASS'Y	2

CIRCUIT DIAGRAM

