RS PRO

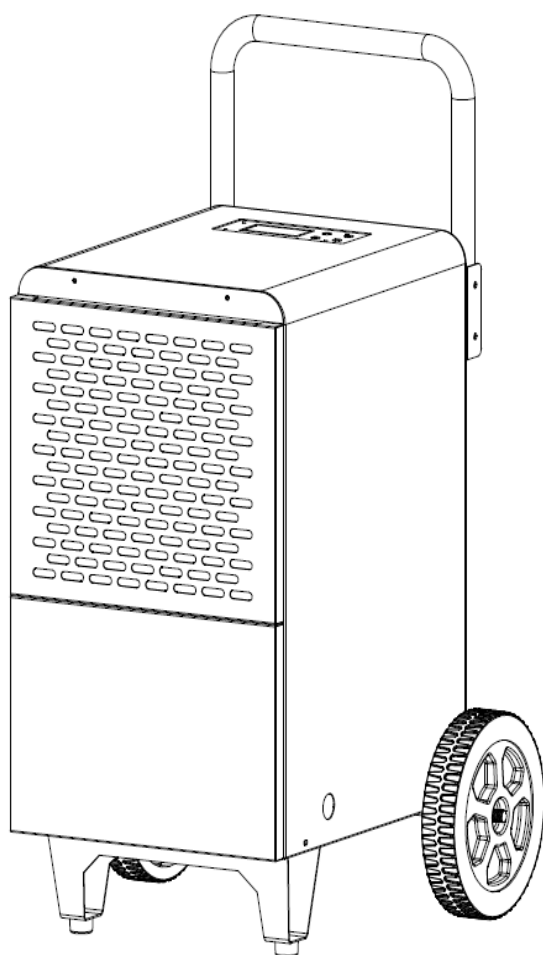**User Manual**

RS PRO industrial dehumidifier

Stock number: 286-6477

rspro.com

IMPORTANT SAFEGUARDS

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.
If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

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If the supply cord is damaged, it must be replaced by the manufacture, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
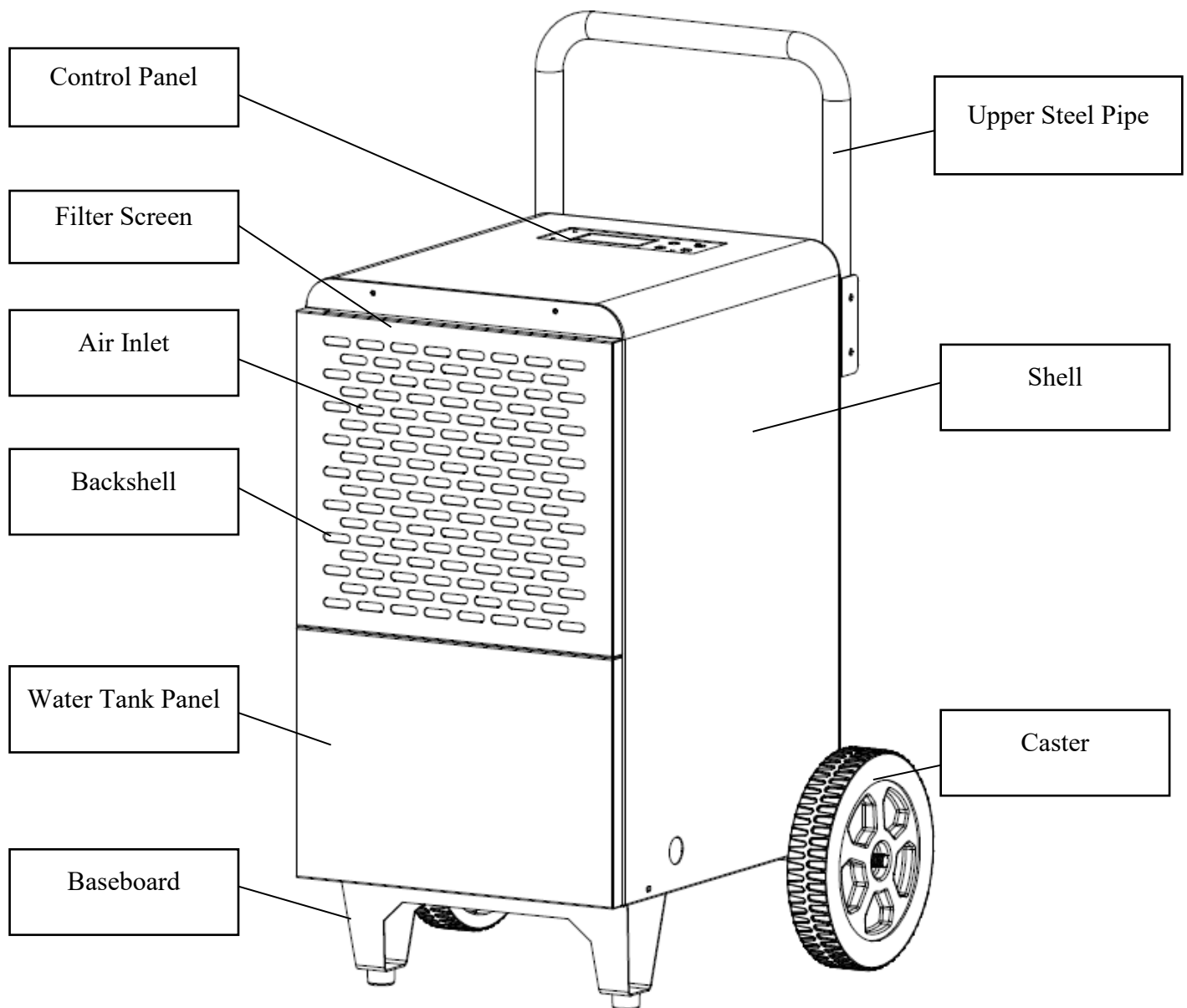
DEHUMIDIFIER

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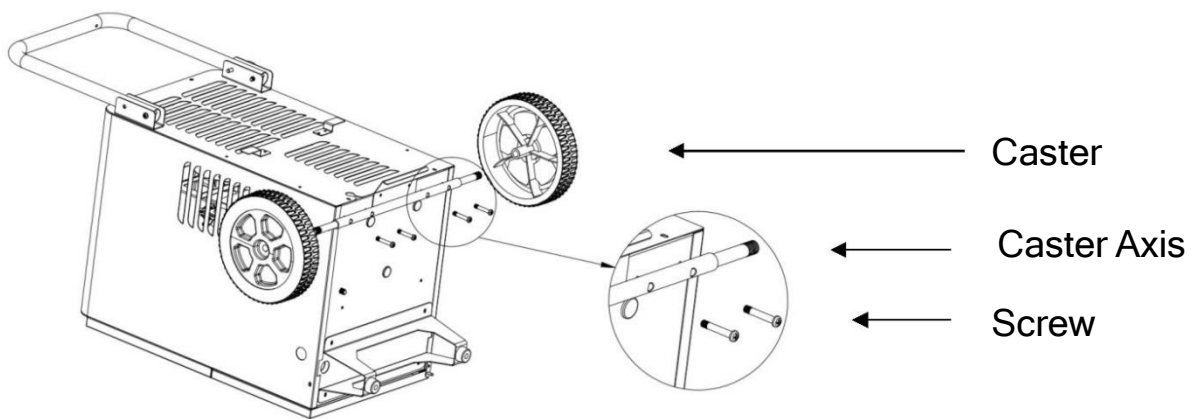
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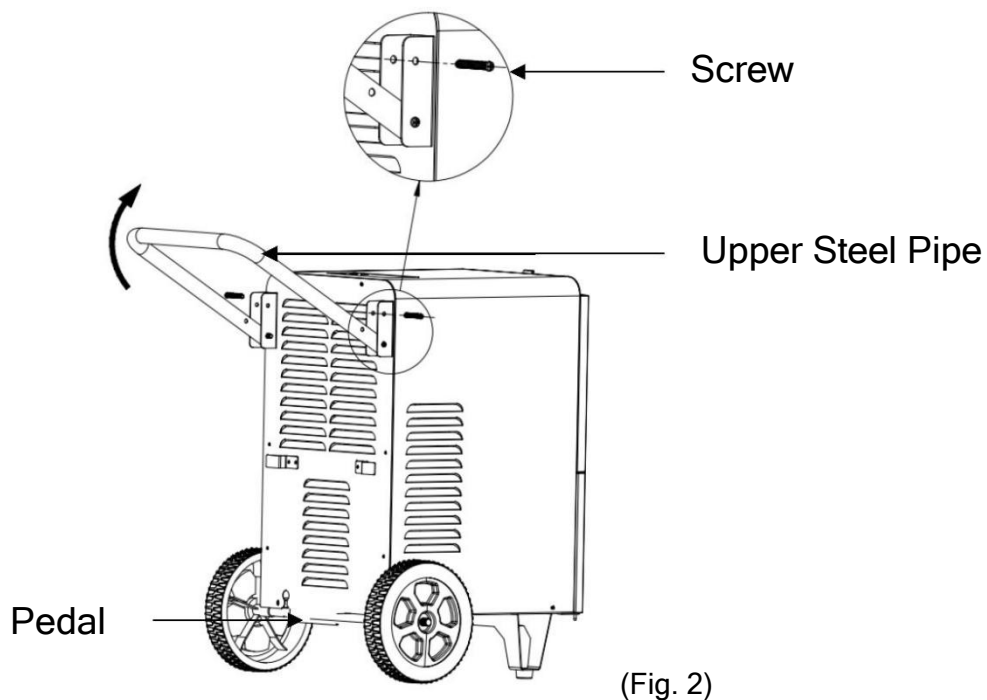
Caster

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Installation Methods

1. Caster installation method: Take the machine body, caster axis, caster and screws of the packaging case, and incline the machine body. As shown in Fig. 1, fix the caster axis on the machine body with 4 screws in counter-position, and fix the caster at both sides of the axis also in counter-position. Upon end of the fixing, put the body upright.

2. Upper steel pipe installation method: As shown in Fig. 2, screw down the two screws at top of the body, turn the upper steel pipe by 180 degree, and fix the upper steel pipe with the screws in counter-position.

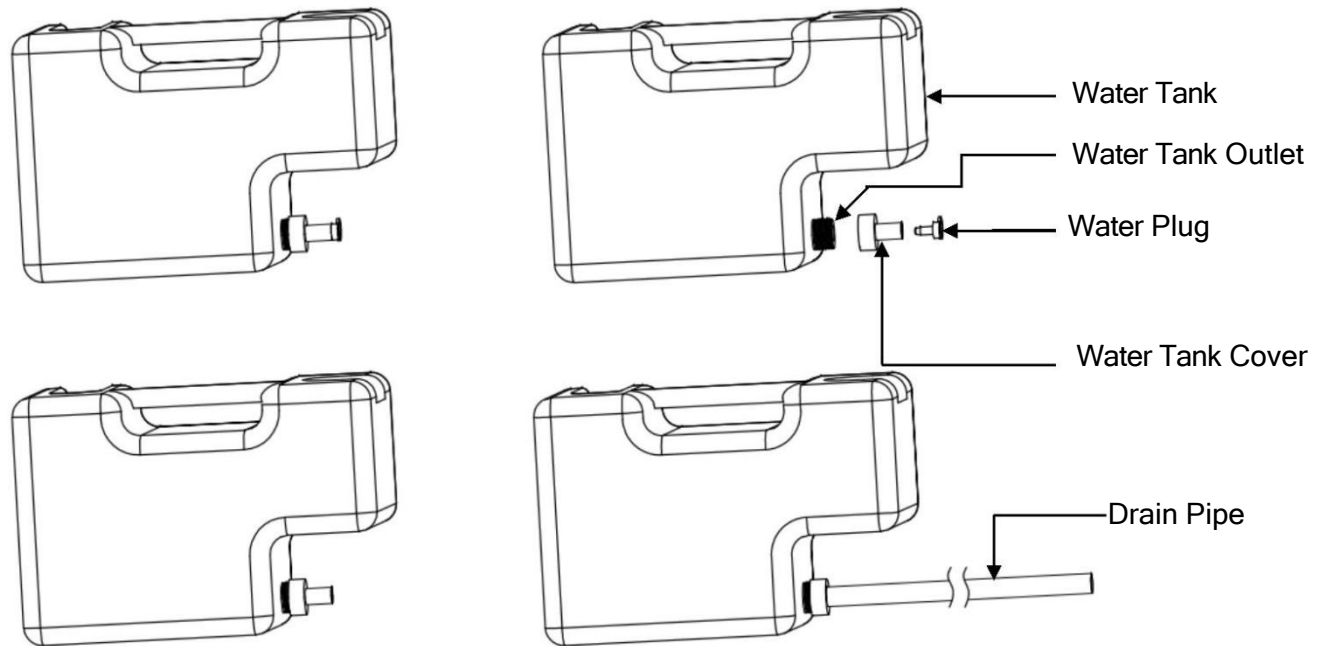***Tip: Upon end of installation, keep the machine out of any action for 2h before starting to use.**

Caster

Caster Axis

Screw

(Fig. 1)

Screw

Upper Steel Pipe

Pedal

(Fig. 2)

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Water Tank

Water Tank Outlet

Water Plug

Water Tank Cover

Drain Pipe

(Fig. 3)

3. Water tank usage: You may use the water tank in two ways. I) Direct use. When the water tank is full, the machine automatically shuts down and enters the standby state, the LED displays the "Full Water" signal and the hummer alarms. When the water tank is emptied and put in place again, the dehumidifier can continue its performance. II) Continuous drainage. As shown in Fig. 3, to restore the performance of the water tank, you need to take out the water tank, screw off the cover, drill hole on the outlet, screw down the cover and mount the drain pipe.

*Tip: In continuous drainage, the drainage pipe shall not be set higher than the water tank.
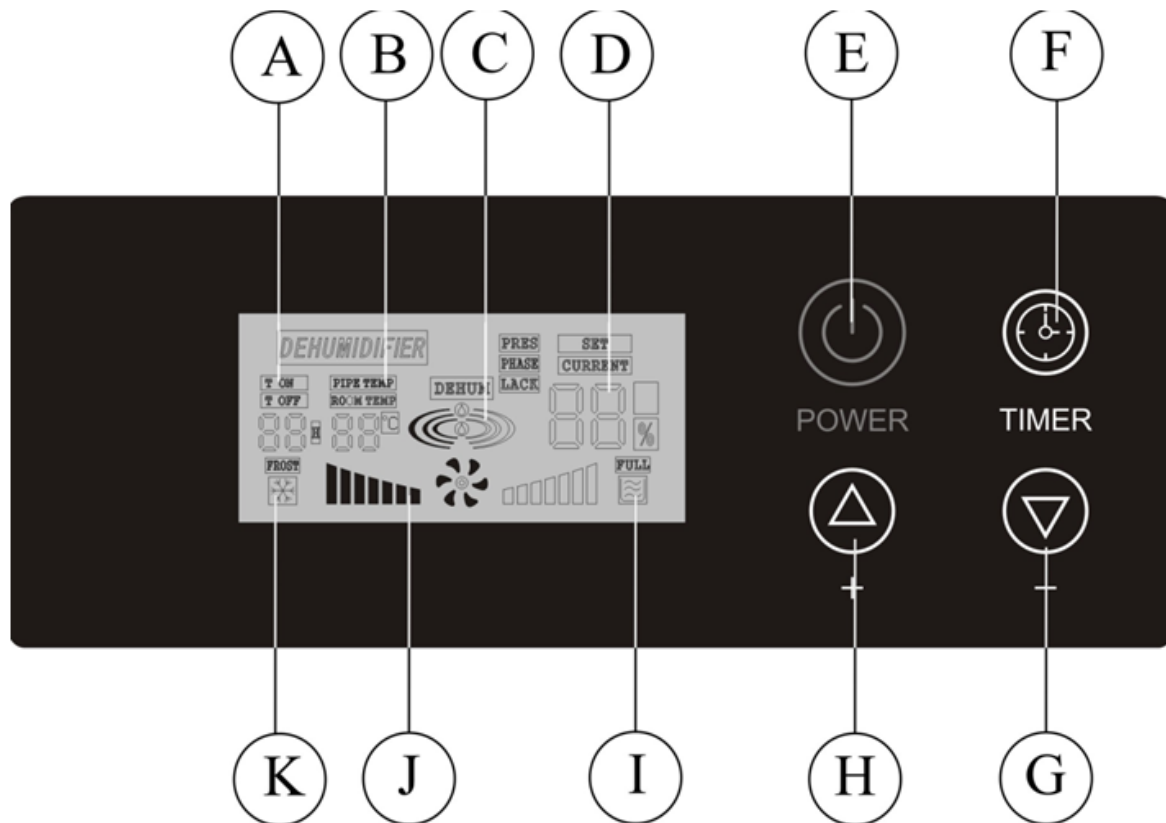
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Product Introduction

Core Parts: GMCC/LG rotating compressors adopted, of higher performance and less power consumption than reciprocating compressor of identical refrigerating capacity.

Tips: For physiological health of the humanity, protection of furniture and other items indoors and energy saving, the humidity is recommended to range from RH50% to 70%, provided no special requirements are made.

Operation Instructions for Control Panel

A Timing	B Temperature	C Dehumidification
D Humidity	E Power	F Time Set
G Subtract	H Add	I Full Water
J Air Speed	K Defrosting	

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Button	Operation Instructions
ON/OFF	Shift between Switch on and Switch off once for each pressing
+	Adjust different setting values at different states 1、Increase the humidity value set(RH10% to 95%) 2、Increase the timing(hour) set(00 to 24)
-	Adjust different setting values at different states 1、Decrease the humidity value set(RH10% to 95%) 2、Decrease the timing(hour) set(00 to 24)
Timing	Short press the button to launch a cycle of Set on/off Timer and Exit

Function Description

1. Humidity Control

When it reaches the humidity value set, both fan and compressor shut down; and when it's lower than the humidity value set, both fan and compressor operate

Note

◆ When the humidity is set at the minimum value, it's defaulted to enter the continuous dehumidifying mode

◆ Upon fault of the humidity sensor, it turns to the continuous dehumidifying mode

◆ Upon fault of the coil sensor, it turns to the timing defrosting mode(See the defrosting mode)

◆ When the dehumidifier is started, the compressor will be started 3s later; and when it's shut down, the fan will be closed 3s later.

◆ When the humidity declines to the condition for compressor shutdown, the fan will be closed 1min later.

2. Protection Function

◆ Once shut down, the compressor takes 3min to start. Quick start is available for the first power-on.

◆ For fault protection of the system, upon continuous operation of the compressor for 10min, if temperature of the indoor sensor(Tr) is not greater than the coil temperature(Tp) by 3 degree(i.e. Tr-Tp≦3) for 10 successive seconds, the machine shall be regarded faulted(fluorine leakage or pipe obstruction) and shut down immediately. "Pressure Holding" is shown on the digital pipe. Only when the fault is eliminated and the machine is powered on again can the indication restore to normal state.

◆ Power off memory: For abrupt power outage or accidental unplugging of the plug, the system will automatically archive the operating state right before the incident, and continue at that state for the next power-on.

◆ Full water protection:

When the water tank is full, the dehumidifier automatically shuts down and enters the standby state, LED displays the "Full Water" sign and hummer alarms.

3. Defrosting Mode

Defrosting Mode	Description	
Automatic Defrosting	Sensor at normal state	Starting conditions(satisfied at the same time) 1、It enters this mode when compressor runs constantly for 30min and coil temperature is tested to be ≦-1℃ 2、In defrosting, the compressor stops running, fan continues running and the defrosting light is on
Timing Defrosting	In this mode, it defrosts for 8min and withdraws upon expiration	

4. Timing On/Off Function

　　When it's powered on, you can set timer for powering off; and when it's powered off, you can set timer for powering on. Setting timer for both powering on and off then initiates the cycle timer mode.

　　A. Set timer for powering on: When it's powered off, press the "Timing" Button. As the "Timing On" icon flickers and the time set flickers in relevant area, press "+" or "-" to adjust the timing. The hummer makes a sound once the button is pressed. When the time set increases or decreases by "1", holding the button constantly for 2s can continually increase or decrease the time.

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For non-action for 10s when it's adjusted to the required value, the dehumidifier accepts the new setting and the "Timing On" icon flickers(Ranging from 0 to 24H, and 0H as default);

    B. Set timer for powering off: When it's powered on, press the "Timing" Button. As the "Timing Off" icon flickers and the time set flickers in relevant area, press "+" or "-" to adjust the timing. The hummer makes a sound once the button is pressed. When the time set increases or decreases by "1", holding the button constantly for 2s can continually increase or decrease the time. For non-action for 10s when it's adjusted to the required value, the dehumidifier accepts the new setting and the "Timing Off" icon flickers(Ranging from 0 to 24H, and 0H as default);
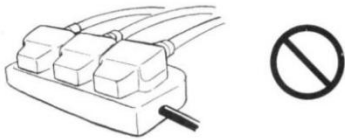
5. Setting of Advanced Parameters

1) At non-setting state, pressing the "Timing" Button for over 10s to enter the mode for setting of humidity correction value. As both the "Set Humidity" and "Current Humidity" flicker and humidity display digital tube shows the current value, press "+" or "-" to adjust the values set. The hummer makes a sound once the button is pressed, and the humidity correcting value increases or decreases by "1" RH(ranging from 9 to 09RH, and 0H as default)

2) Press the "Timing" button to enter the mode for setting of system protection(pressure holding). As the "Pressure Holding" flickers and the digital humidity display tube shows the current value, press "+" or "-" to change the values set. The hummer makes a sound once the button is pressed, and the value shifts between ON and OFF(ON refers to pressure holding and OFF refers to absence of pressure holding, and ON as the default)
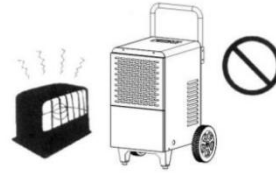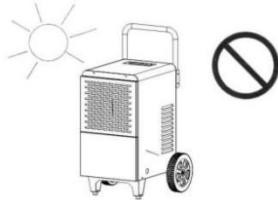
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Precautions for Use

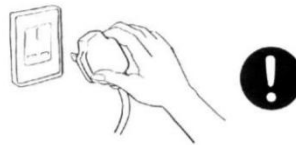Do not repair and disconnect this appliance by yourself.

Do not place this appliance beside of a heat source such as stove.

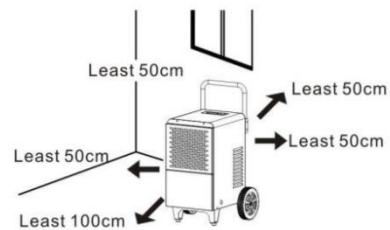Do not use this appliance in the place where it is expose to sunlight directly.

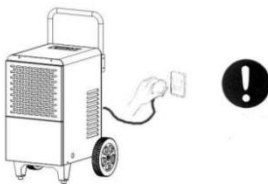Turn off this appliance and cut off the power before cleaning.

Do not use this appliance in the place where it is close to chemicals.

The suitable place.

Least 50cm
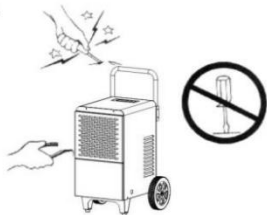
Least 50cm

Least 50cm

Least 50cm

Least 100cm

Turn off this appliance and cut off the power, if any accident happens.
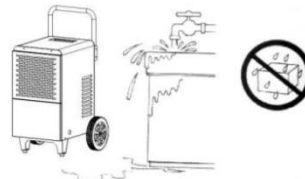
Kids and incapacitated people without guardians' monitor and teaching should keep away from this unit.

This unit use special electrical connection and outlet, don't use other extension wire or portable outlet.

Do not use this appliance in the place which may have water.

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Troubleshooting

1. Upon fault of the dehumidifier, please cut off the power supply immediately, unplug the

plug and check the following items:

Faults	Cause Analysis		Eliminating Methods
Failure to operate	Shown as no power	Power outage or unavailable socket	Check if the power supply works well
		If the plug is well plugged	Plug the power supply in the socket
		Fuse of electric board is blown out	Replace the fuse
		Transformer of electric board is broken	Replace the transformer
	Shown as power on	Environmental humidity lower than the set value	Set again according to the demand
		If the water tank is well placed	Place the water tank in right position
		If the entire machine is defrosting	Wait for completion of defrosting
Unfavorable dehumidifying effect	If there's obstacle at the air inlet/outlet		Remove the obstacle
	If the door and window are open		Close the door and window
	If the indoor temperature is too low		Don't run the dehumidifier
Heavy noise	If the ground is firm and flat		Resettle the dehumidifier
	Dehumidifier laid unsteadily		Steadily resettle the dehumidifier
Water leakage	Inclination		Adjust the dehumidifier to the flat position
	Drain pipe/outlet obstructed		Dismantle the front plate to eliminate impurities
E1	Fault of the coiler		Turn to timing for defrosting, and cancel system fault function. It can be restored.
E2/E3	Fault of humidity & temperature sensor		Replace the humidity & temperature sensor
EE	Refrigerant leakage		Start the machine after a certain while of time. Ask for help from professionals if the "EE" signal remains

2. If the said methods still fail to eliminate the troubles, please directly contact the manufacturer or

agents. Don't disassemble the dehumidifier on your own.

3. It's normal to hear the sound of the circulation of refrigerant when the dehumidifier runs.

4. It's normal for the air outlet to reject heat.

Special Tips

Special tips for the user:

1. As a precision part, the humidity sensor may be out of service when used in environment filled with strong corrosive gas and heavy dust.

2. As the dehumidifier is non-resistant against explosion, it's forbidden to be used in environment of special requirements such as that filled with combustible/explosive gas, dust, chemicals or biological products.

3. Damage caused to the dehumidifier by use in said environment is out of the warranty.

4. Grounding measures shall be put in place during installation of the dehumidifier to ensure the safety in use.

5. As water may be discharged from the machine after a certain while of use, attention shall be paid to the dewatering measures.

6. To minimize faults and maximize the lifetime, press the button in a gentle manner.

7. The deviation between the humidity shown on the sensor and the actual humidity is normal, due to impact by the location, environment and temperature.

8. Since the cooled air is dried by the condenser before being discharged during operation of the dehumidifier, it's normal for the air discharged to be hotter than the environment.

9. Since the dehumidifying effect is associated with the temperature and humidity of the environment, the higher the temperature and humidity of the environment, normally the greater the dehumidifying effect; while the lower the temperature and humidity of the environment, typically the lower the dehumidifying effect.

DEHUMIDIFIER

Specification Table

Model	
Power Supply	AC 220-240V/50Hz
Max. Removal Capacity	50L/D(30℃ RH80%) 30L/D(27℃ RH60%)
Rated Power	900W(30℃ RH80%) 750W(27℃ RH60%)
Rated Current	4.0A (30℃ RH80%) 3.4A(27℃ RH60%)
Max Suction Pressure	1.0Mpa
Max Discharge Pressure	2.5Mpa
Refrigerant	R290/200g
N.W.	30KG
	480*450*655mm
Working Temperature	5℃ ~ 35℃

Disposal

Environmental Protection

Waste electrical production should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

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☆ **Never try to repair or dismantle the unit yourself**

Schuko VDE version plug transfer to BS plug: