PRO-DEHUMIDIFIER

THE IDEAL SOLUTION FOR YOUR GREENHOUSE, SHOP OR ANYWHERE YOU NEED PORTABLE, EFFECTIVE AND RELIABLE DEHUMIDIFICATION!

#701600

#701602
#701604

INSTRUCTION MANUAL

All Ideal-Air™ recommends that dehumidifiers use a dedicated electrical circuit. In the event of a power failure, a spike in voltage may occur when the power is reinstated. This can damage the circuit board which is not covered under warranty.

CONGRATULATIONS...

on your purchase of Ideal-Air's Pro Dehumidifier. We're proud to offer this product and believe it's the very best in its class.

READ THIS MANUAL

Thank you for purchasing this dehumidifier. This manual will provide you with information on how to operate, maintain and troubleshoot your unit. Following the instructions will ensure the proper function and extend the lifespan of your unit.

CONTENTS

SAFETY PRECAUTIONS

BEFORE APPLICATION, PLEASE READ ALL THE INSTRUCTIONS.
• Before use, please confirm that the power supply is 115V/60Hz.
• Do not put into water or operate near a water source.
• Do not stop operation of the dehumidifier by pulling out the power cord.
• Do not place the unit near the heat equipment or inflammable dangerous goods.
• Be careful with movement of dehumidifier and avoid rolling on and damaging power cord.
• Do not allow kids to climb, stand or sit on the dehumidifier.
• Disconnect the power cord before cleaning and repair.
• Do not cover the louvered panes on the machine or it will overheat.
• Please use appropriate power supply, do not use an extension cord.
• Install the drainpipe facing downward so condensation will flow out of the pipe.
• Do not operate in closed and narrow room.
• Please keep this manual for future reference.
• If there is a power outage make sure to un-plug this product. Ideal-Air™ recommends that dehumidifiers operated on a dedicated electrical circuit. In the event of a power failure, a spike in voltage may occur when the power is reinstated. This can damage the circuit board which is not covered under warranty.

> **NOTE**
> We advice that any repair should be carried out by professionals.
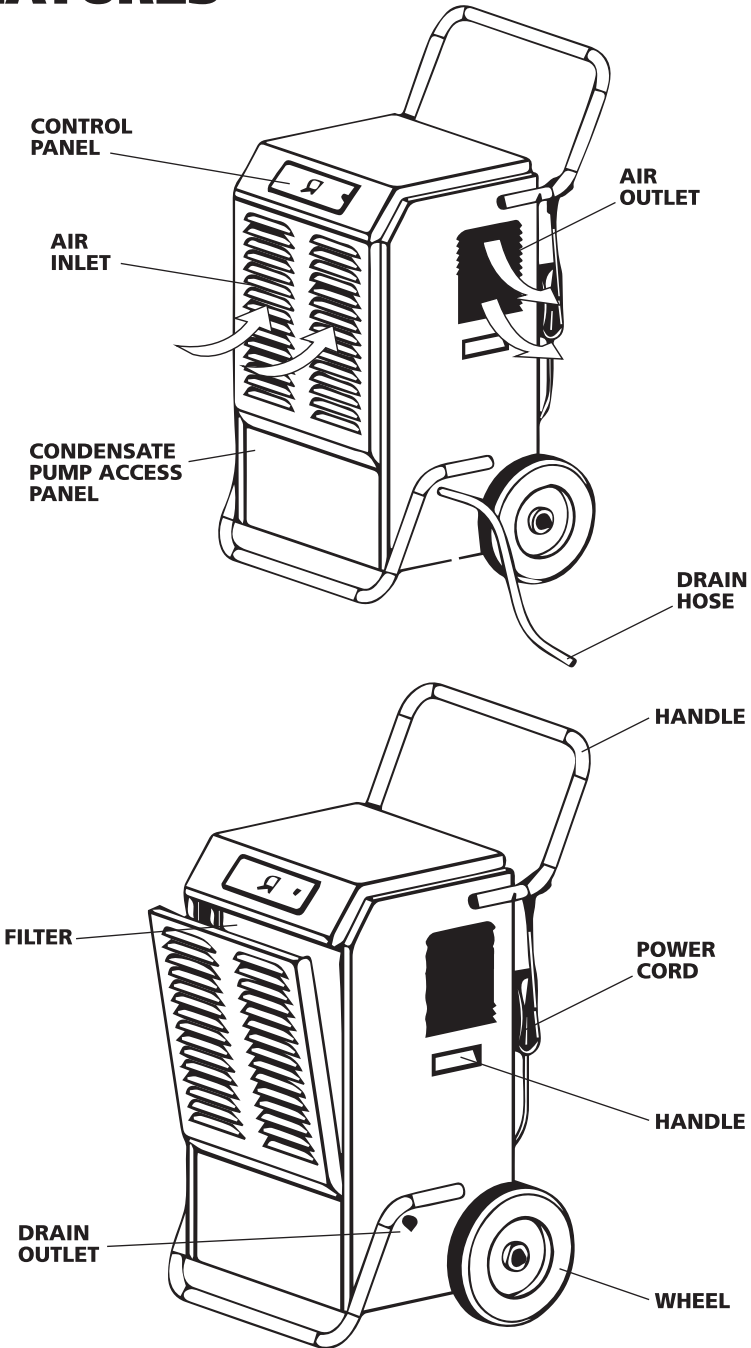
INTRODUCTION TO PRODUCT

• Dehumidifiers are able to reduce air humidity of the space, leaving people to live, work and store goods in comfortable environments.
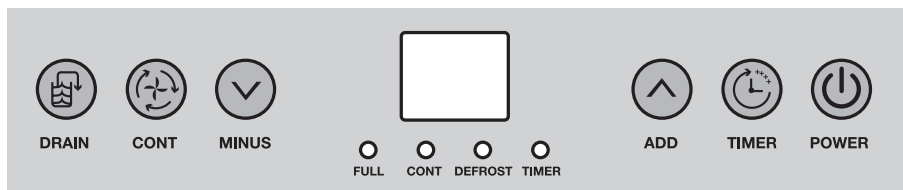
> **NOTE**
> All the illustrations in the manual are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail.

DEHUMIDIFIER IDENTIFICATION FEATURES

CONTROL PANEL

AIR OUTLET

AIR INLET

CONDENSATE PUMP ACCESS PANEL

DRAIN HOSE

HANDLE

FILTER

POWER CORD

HANDLE

DRAIN OUTLET

WHEEL

OPERATION INSTRUCTION

DRAIN   CONT   MINUS   FULL   CONT   DEFROST   TIMER   ADD   TIMER   POWER

BUTTON FUNCTION

1. "POWER" BUTTON
• Press this button to start the machine, it enters to the continuous mode.
• Press this button to stop the machine, it enters standby mode. There is a fan delay of 1 minute for it to stop. If the water pump is draining, it will be required to drain continuously. If the machine is on standby, it's ok to drain manually.

2. "TIME" BUTTON
• Press this button when the machine is on standby, it enters the mode to set the time to turn on the machine. When the machine is on, the setting time will be clear to zero.
• Press this button when the machine is on, it enters the mode to set the time to turn off the machine. When the machine is on, the setting time will be clear to zero.
• Press this button for 3 seconds, the screen show the room temperature and after 10 seconds it will go back to the humidity reading .

3. "ADD" BUTTON
• Press this button directly to increase the set humidity. Buzzer buzzes once for each pressing and the set humidity increases by 5% RH. Successive operation can be achieved by pressing this button successively. Press "Time" button before pressing this button, the time (hour) can be increased.

4. "MINUS" BUTTON
• Press this button directly to decrease the set humidity. Buzzer buzzes once for each pressing and the set humidity decreases by 5% RH. Successive operation can be achieved by pressing this button successively. Press "Time" button before pressing this button, the time (minute) can be decreased.

5. "CONT" BUTTON
• Press this button directly to make the dehumidifier continue to work and the temperature is out of control. This mode will be canceled after pressing the button again.

6. "DRAIN" BUTTON
• Press this button, the water pump will start the forced drainage system with the light on. After the system works for 30 seconds, the water pump will stop working with the light off.

START-UP

1. Energize the power, the dehumidifier will beep once.
2. Press the "Power" button once. The LCD display will light up, and a few moments later, the current environment humidity will display.
3. Setting of humidity: press "Add" and "Minus" buttons to set the required humidity. When the set humidity is 3% less than current humidity, the dehumidifier will turn on; when the set humidity is 3% more than current humidity, the dehumidifier will turn off.
4. When the set humidity is less than 30%, the dehumidifier enters the mode of successive dehumidification.
5. Setting of preset time: Press the "time" button. The "hour" flashes in the display. Press "Add" and "Minus" to adjust the working hour.
6. Shut down the machine: Press "power" button when the machine is on. The dehumidifier will stop working and all the instruction lights will turn off.

NOTICES

1. If the set humidity is higher than the actual humidity, the dehumidifier stops working.
2. During dehumidification, after the compressor starts working, the fan and compressor can only be stopped after working for at least 3 minutes; the compressor can only be re-started 3 minutes after it stops.
3. If operating under low temperatures, the dehumidifier may adjust the system temperature automatically and defrost automatically. When defrosting, the indicator of defrosting light will be illuminated, the fan works and compressor stops working.

4. The system has auto memory. When all the mode setting have been completed, if there is sudden power loss during operation, or the power cord is removed, the system may store the current status before the power is cut and enter the operation mode before power cut automatically after power is supplied.

5. Range for humidity is 20%-90%.

6. Auto detection of temperature/humidity failure:

a) When the system detects that temperature sensor exceeds the limited range, the system enters mode of temperature sensor failure. Under this mode, LCD displays temperature failure code "E1", the system works in circle of dehumidification for 30 minutes and defrosting for 15 minutes.

b. When the system detects that humidity sensor exceeds the limited range, the system enters mode of humidity sensor failure. Under this mode, LCD displays humidity failure code "E2" and the system enters continuous dehumidification.

c. After temperature/humidity sensor failure is eliminated, the system works normally.

7. Defrost function: The action to protect the dehumidifier according to the standard value of switching temperature that reflected by the temperature and humidity sensor and the copper tubes sensor.

a. When the temperature is lower than 5° C / 41° F or higher than 38° C / 100° F, the compressor and fan stop working.

b. The requirement to begin to defrost: When the machine starts to work and the compressor is worked for 30 minutes, the copper tubes sensor begins to check the temperature of tube. When the temperature is lower or equal to -1° C / 30.2° F (it needs 10 seconds to check), the compressor stops and fan continues to work then it begins to defrost when the light is on. When the temperature of tube is raised to 5° C / 41° F or defrost last for 15 minutes, the machine stops to defrost. (When the machine is defrosting, the light will always be on until the defrost process is completed.

SAFE OPERATION AND MAINTENANCE

• Do not connect relay, extension cord or adaptor with this machine. Otherwise, fire, electric shock and overheating can be caused.

• Do not place near anything that gives off a heat source such as; furnace or heater. This may cause a fire.

• This machine is for indoor use only.

• When there is any abnormity (burning smell), please shut off the machine and unplug the power cord. Fire, electric shock and failure may be caused.

• Do not use this dehumidifier in places exposed to chemicals. The chemicals and solvent in the air may bring adverse effect to the machine and result in leakage in water tank.

• If the machine is not used for a long time, please unplug the power cord. When clearing the machine, stop it first and unplug the power cord.

• During continuous drainage, please place the drain pipe appropriately for smooth drainage. If there is any possibility that temperature around pipe may result in icing, continuous water drain is not allowed.

• Do not repair, disassemble or alternate the machine without authorization so as to avoid fire or electric shock. This will void your warranty.

• Do not use dehumidifier in places that may be exposed to water.

• Do not damage or alternate the power cord.

• Do not stop operation of dehumidifier by pulling out the power cord. Otherwise fire or electric shock accident may be caused.

OPERATION NOTICES

1. When moving the machine, do not tip the machine for over 45° to avoid damaging the compressor.
2. The compressor gives off heat when it is operating, and ambient temperature may raise by 1-3°.
3. The air inlet and outlet must be away from the wall for at least 10 cm / 4 inches.
4. Working environment shall be closed tight to maximize dehumidification effect.
5. Dust on the air purification filter mesh may impair its effect or even cause failure. Please clear regularly. If there is dust in the environment, it must be cleared once a week or once a day. Pull down the front panel, clear the filter. Tap the filter mesh slightly or eliminate the dust by vacuum cleaner or place the filter in warm water and brush and then wash with clear water and dry it.

COMMON TROUBLESHOOTING

Failure	Cause analysis	Method
Dehumidifier doesn't work	1. Power cut 2. Power switch is not energized 3. Power cord is not connected 4. Fuse is melted	1. Recover the power 2. Energize the power 3. Connect the power cord 4. Replace the fuse
Dehumidification is not ideal	1. Dust accumulated in air purification filter mesh 2. Object blocking air inlet and outlet 3. The door or window is open 4. Refrigerant is leaking	1. Clear the filter mesh 2. Remove the blocking object 3. Close the door and window 4. Contact distributor or manufacturer for repair
Water leak	1. The machine is inclined 2. Water pipe is blocked	1. Level the machine 2. Remove the blocking object
Abnormal noise	1. The machine is not placed solidly 2. The filter mesh is blocked	1. Place the machine firmly. 2. Clear the filter mesh

1. If the above troubleshooting does not fix your issues and repair, please contact Ideal-Air™ technical support. Do not disassemble without authorization.

ERROR CODES

This dehumidifier is able to automatically judge failure. If there is any failure, there will be failure code displayed on the humidity display window.

ERROR CODES

Failure display	Problem
E1	Temperature sensor failure
E2	Coil sensor failure

TABLE OF PARAMETERS

Item/Model	701600	701602	701604
Power supply	115V/60Hz	115V/60Hz	115V/60Hz
Nominal Dehumidification Capacity	180 Pints/D	100 Pints/D	60 Pints/D
Rated input power	1350W	728W	520W
Weight (N/W)	135 lbs	77 lbs	73 lbs
Dimension (D,W,H)	22.5"x 23"x 40"	23.5"x 17.75"x 31.25"	24.5"x 18.75"x 32.25"

The above parameters are subject to change without notice.

IMPORTANT

Product not working properly?

DO NOT return this product to the store where you purchased it.

Contact Ideal-Air™ support directly
at support@ideal-air.com or call

1-877-943-3251

For answers to most common questions and a complete
technical support library please visit **www.ideal-air.com**

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All design and specifications herein are subject to change without
notice for product improvement. Contact Ideal-Air™ for details,
updates and other information.