

IV. LIMITED WARRANTY

Your Research Products Corporation Aprilaire® Dehumidifier is expressly warranted for five (5) years from date of installation to be free from defects in materials or workmanship.

Research Products Corporation's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any component which is found to be defective within such five (5) year period and which is returned not later than thirty (30) days after said five (5) year period by you to either your original supplier or to Research Products Corporation, Madison, Wisconsin 53701, together with the model number and installation date of the dehumidifier.

THIS WARRANTY SHALL NOT OBLIGATE RESEARCH PRODUCTS CORPORATION FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY YOUR INSTALLER AS CONTRASTED TO DEFECTS IN THE DEHUMIDIFIER ITSELF.

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID FIVE YEAR PERIOD. RESEARCH PRODUCTS CORPORATION'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above exclusion or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY REGISTRATION

Please... Take a few minutes to visit us online at

www.aprilaire.com

to register your Aprilaire product.

If you do not have on-line access, please mail a postcard with your name, address, phone number, email address, product purchased, model number, date of purchase and dealer name and address to:

Research Products Corporation
P.O. BOX 1467
Madison, WI 53701

Thank you!

Your Warranty Registration information will not be sold or shared outside of this company.

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RESEARCH PRODUCTS CORPORATION

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Dehumidifier



Model 1710 Dehumidifier Installation/Owner's Manual

Includes Safety & Operating Instructions
and Warranty Information

⚠ WARNING 120 volts may cause serious injury from electric shock.
Disconnect electrical power before servicing.

⚠ CAUTION Sudden operation may cause personal injury or property damage. Unplug the dehumidifier before servicing.
Do not use solvents/cleaners on or near the control board.

READ AND SAVE THESE INSTRUCTIONS

I. PRINCIPLE OF OPERATION

The purpose of the Aprilaire® Dehumidifier is to keep humidity in the house at acceptable limits to reduce the unwanted effects of high humidity. The dehumidifier measures the condition of the house air to decide when to run.

INSTALLER – PLEASE NOTE!

- 1. INSTALLATION MUST CONFORM TO ALL APPLICABLE STATE OR LOCAL CODES.**
- 2. A DEDICATED 15 Amp circuit is required for proper operation of the dehumidifier.** If a dedicated circuit is not available, use a lightly loaded circuit. **Do not use an extension cord.**
- 3. For protection of the compressor, unit must be transported and installed in an upright position.** If the unit was shipped or stored on its side, a 24 hour settling period is required before running the unit.
- 4. Note the dehumidifier is not intended to be used in pool applications.**

WARNING

- **120 volts may cause serious injury from electric shock.**
- **Unit weight and dropping may cause personal injury or equipment damage.** Handle with care.

SPECIFICATIONS

Dimensions: 20 3/4" W x 24" L x 22 3/16" H
Weight: 93 lbs.
Capacity: 90 pints per day @ 60%RH, 80°F (ANSI/AHAM DH-1-2003 standard conditions)
Power: 115 VAC, 8 Amps, Unit is equipped with an 8 ft. grounded cord.

Design Airflow: 275 CFM @ 0.6 in. w.c.
Filter: MERV 8 Filter
Cabinet Insulation: 1" foil faced EPS insulation
Inlet Air Operating Conditions: 40°F to 105°F
Ambient Air Operation Conditions: 40°F to 150°F

II. OPERATING INSTRUCTIONS

The dehumidifier dryness can be set from "1" or "LESS" to "7" or "MORE" based on desired comfort level. Most installations should be initially set between "3" and "5" or "NORMAL" setting; however this can be adjusted to your individual needs.

DRAIN LINE

The included condensate trap must be installed to the Model 1710. Use PVC cement to connect the trap to the drain outlet on the Model 1710. The drain outlet is located near the On/Off toggle switch. **Note orientation of trap prior to cementing.** The high side of the trap mates with the Model 1710. Complete the assembly by piping the trap to the drain. The trap must be primed with water prior to start-up.

SYSTEM CHECKOUT

1. Rotate the main control knob clockwise to the "TEST" position
2. If all is set up properly, the dehumidifier blower will turn on. The compressor will turn on after the dehumidifier blower has run for 3 minutes, then both the compressor and blower will run for 1 minute. The dehumidifier and compressor will then shut off ("TEST" mode only).
3. If the dehumidifier blower does not activate in TEST mode, refer to the Troubleshooting Guide.

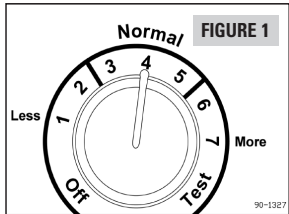
TROUBLESHOOTING GUIDE

SYMPTOM	TROUBLESHOOTING PROCEDURE/POSSIBLE REASON
Dehumidifier is producing hot air	<ul style="list-style-type: none"> • Reheat of outgoing air will cause a temperature increase across the dehumidifier • Unit will possibly run continuously initially. After unit has "dried" home, dehumidifier will cycle, reducing load
Dehumidifier not adequately dehumidifying	<ul style="list-style-type: none"> • Unit will need time to "dry" materials in home before effectively changing RH. • Compressor is not turning on • System undercharged
Dehumidifier is not draining properly	<ul style="list-style-type: none"> • Check condensate trap to be sure it is clear • Check drain line for continuous slope
Dehumidifier does not run	<ul style="list-style-type: none"> • Follow all of the system checkout procedures. Make sure power switch is on! • Check that circuit breaker is not tripped. The dehumidifier requires a minimum of 8 amps. The dehumidifier should be placed on its own dedicated 15 amp circuit

ADJUSTING THE DEHUMIDIFIER SET POINT

Use the main control knob (Figure 1) on the outside of the unit to set the dehumidifier dryness setting. Start with a "NORMAL" setting for most installations. Moving the knob clockwise to "MORE" will make conditions drier. Moving the knob toward "LESS" allows for higher moisture levels.

Based on the indoor temperature, use the following table to determine the control knob setting to reach the desired RH value. The dehumidifier will work to achieve these values.



Control Knob Setting	%RH (± 5%) based on Control Knob Setting and Indoor Temperature			
	Indoor Temperature (°F)			
	65	70	75	80
1 - "LESS"		84%	71%	60%
2	86%	73%	61%	52%
3 - "NORMAL"	74%	63%	53%	45%
4 - "NORMAL"	64%	54%	45%	39%
5 - "NORMAL"	55%	46%	39%	33%
6	47%	39%	33%	28%
7 - "MORE"	40%	34%	28%	24%

EXAMPLE: At an indoor temperature of 75°F with a dehumidifier control knob setting of 3, the dehumidifier will work to achieve an RH value of 53%.

- NOTES:**
1. %RH values are ±5% and are to be used as a **GUIDE ONLY** for initial set-up.
 2. Indoor Temperature is measured at the inlet to the Model 1710.

III. MAINTENANCE

AIR FILTER

Under normal circumstances, the filter in the dehumidifier should be cleaned or replaced once a year. A clean filter is necessary to prevent damage to the dehumidifier and allow it to function at full capacity. To remove the filter, first unplug or disconnect power to the dehumidifier, then remove the air filter via the access panel on the side of the dehumidifier. To clean, flush with warm water and detergent solution. After a clean or new filter is reinstalled, replace the access panel and reconnect power to the dehumidifier. The replacement filter for the dehumidifier is Model 4510 and is available from most HVAC contractors in your area or Aprilaire.com

DRAIN

The drain trap or outlet should be checked and cleaned of debris annually.

NOTE: The drain trap needs to be primed with water prior to start-up and after extended periods of unit shut down (winter months).