



Free Standing Dehumidifier

Safety and Installation Instructions

Model 1700 FS

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, set this up or do not install unit.
- 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.

WARNING

- This product must be installed by a qualified heating and air conditioning contractor. Failure to do so could result in serious injury from electrical shock or damage to product.
- 120 volts may cause serious injury from electric shock.** Disconnect electrical power before starting installation. Leave power disconnected until installation is completed.
- Unit weight and dropping may cause personal injury or equipment damage.** Handle with care.

OVERVIEW

The purpose of the Aprilaire Dehumidifier is to keep the humidity in the house at acceptable limits to reduce the unwanted effects of high humidity. The dehumidifier will measure the dewpoint of the house to decide if it needs to run. The dryness set point can be adjusted with the control knob on the inlet side of the unit.

SPECIFICATIONS

Dimensions:

20 3/4" W x 24" L x 20 7/8" H (mounting feet fully engaged)

20 3/4" W x 24" L x 22 3/8" H (mounting feet fully extended)

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

DRAIN LINE

The included condensate trap must be installed to the Model 1700FS. Use PVC cement to connect the trap to the drain outlet on the Model 1700FS. 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 1700FS. The adjustable legs on the Model 1700FS must be disengaged approximately 1" to clear the trap. Complete the assembly by piping the trap to the drain. The trap must be primed with water prior to start-up.

SYSTEM CHECKOUT

- Rotate the main control knob clockwise to the "TEST" position
- If all is set up properly, the dehumidifier blower will turn on. The compressor will turn on after the dehumidifier blower has run for 30 seconds. After 1 minute the dehumidifier and compressor will shut off ("TEST" mode only)
- If the dehumidifier blower does not activate in TEST mode, refer to the Troubleshooting Guide.

TROUBLESHOOTING GUIDE

SYMPTOM

Dehumidifier is producing hot air.

TROUBLESHOOTING PROCEDURE / POSSIBLE REASON

- 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.

- 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

- Check condensate trap to be sure it is clear.
- Check drain line for continuous slope.

Dehumidifier does not run.

- 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.