

ATTENTION INSTALLER:

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. This product must be installed in compliance with all local, state and federal codes. Proper humidification and humidity control also requires that the home be constructed in accordance with local codes and good building practices.

Aprilaire® MODEL 700 SERIES HUMIDIFIER

⚠ WARNING

- ELECTRICAL SHOCK HAZARD.** Disconnect electrical power to the furnace before starting installation. Failure to do so could result in serious injury from electrical shock.
- SHARP EDGES HAZARD.** Sharp edges may cause serious injury from cuts. Use care when making plenum openings and handling ductwork.
- RISK OF SCALDING.** Water temperatures over 120°F can cause severe burns and scald instantly. Shut off the hot water supply before disconnecting or tapping into any hot water supply line.

⚠ CAUTION

RISK OF PROPERTY AND EQUIPMENT DAMAGE.

- Do not install humidifier where freezing temperatures could occur. The water line could freeze and crack causing water damage to the home.
- Do not install humidifier on the furnace jacket.
- Do not install humidifier on a plenum face where the blanked off ends of the cooling coil will restrict air movement through the humidifier.
- Do not set humidity level above recommended or to recommended level if condensation exists on inside windows of any unheated space, as condensation damage may result. Excess humidity can cause moisture accumulation which can allow the possibility for mold growth in the home.
- Do not connect the Model 700 or 700M power cord to multi-speed furnace blower motors or blower motors other than 120 VAC. Premature component failure may result. Use Research Products Corporation Model 10 Current Sensing Relay.
- When installing Humidifier Control on a downflow furnace, ensure blower continues to run after a heat call is satisfied to eliminate high temperatures from damaging the Control.
- Do not install humidifier where water pressure exceeds 120 psi, since damage to the humidifier may result. Follow codes in effect concerning pressure reduction.
- Do not install humidifier on the supply plenum where static pressure exceeds 0.4 in. wg.

SPECIFICATIONS

HUMIDIFIER DIMENSIONS

Width 10-7/8"
Height including external valve and drain-pipe 18"
Depth 10-1/2"

PLENUM OPENINGS

14-1/4"W x 14-1/4"H

WATER FEED RATE

8 gph

ELECTRICAL DATA

120 VAC-60 Hz, 0.8 AMP

RECOMMENDED WIRING DIAGRAMS

(SEE STEP 6 ON BACK AND "HUMIDIFIER CONTROL SAFETY AND INSTALLATION INSTRUCTIONS" FOR DETAILED WIRING INSTRUCTIONS)

Model 700 DIGITAL HUMIDIFIER CONTROL

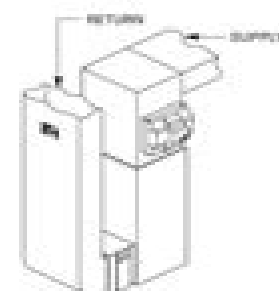


Model 700M ANALOG HUMIDIFIER CONTROL

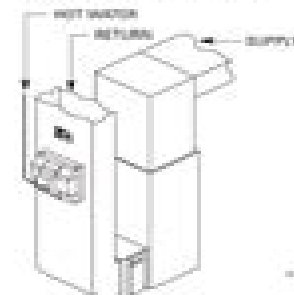


INSTALLATION OPTIONS

Typical Installation



Alternate Installation



Orientation of Aprilaire Model 700 and 700M to Cooling Coils



NOTES

- Model 700 and 700M are not suitable for installation per ducts with horizontal surface. Performance will be reduced.
- When installing the Aprilaire humidifier with the Aprilaire Digital Humidifier Control or an external pump system, use hot water. The heated water supplements the reduced supply air temperature as added heat for evaporation.

Aprilaire Steam Humidifier Installation Manual

Joacim Rocklöv



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web trimyrustin in the major triglyceride found in nutmeg representing 20 25 of the dried weight of ground nutmeg to extract the trimyrustin we performed a solid liquid extraction using the organic solvent methylene chloride CH_2Cl_2

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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is triester formed from the dehydration reaction between glycerol and myristic acid oh

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web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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web the desired components of solids are dissolved in a solvent then the remaining solid is filtered so that the selected element and solvent are left over in this lab the trimyristin was dissolved into the solvent and the remainder of the nutmeg was filtered out

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