

Model 570 (A & M)

Installation & Owners Manual

Humidifier
GFI #5710 & 5705

Please Read And Save These Instructions

- Installation by anyone other than a qualified contractor voids the warranty.
- Product designed for residential installation only. Commercial installation voids warranty.
- Modification or alteration of product, parts, installation instructions or local safety codes voids warranty.
 - Read our full warranty policy at the end of this document.



Breathe Healthier

General Filters, Inc.
43800 Grand River Avenue
Novi, Michigan 48375
Toll Free: (866) 476-5101
www.generalaire.com

Canadian General Filters, Ltd.
400 Midwest Rd.
Toronto, ON M1P3A9 Canada
Toll Free: (888) 216-9184
www.cgfproducts.com



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WARNING!

This symbol indicates: **IMPORTANT INSTRUCTIONS!**

Failure to heed them can result in serious injury or death.



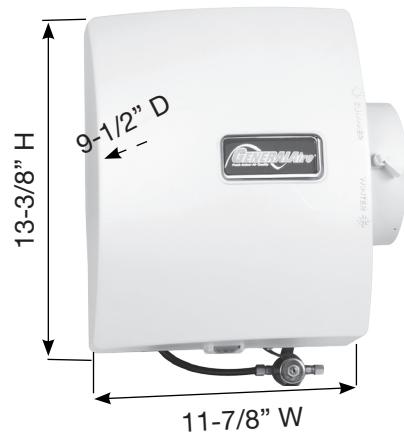
CAUTION!

This symbol indicates: **IMPORTANT INSTRUCTIONS!**

Failure to heed them can result in serious injury or material property damage.

Specifications

- Model:** 570 (A & M) Elite Flow Through Humidifiers (GFI #5710 & #5705)
- Type:** Flow Through
- GPD:** 12 Based on 120° F / 49° C Plenum Temperature
- Warranty (Years):** 10
- Replacement Vapor Pad®:** GA10 (GFI#7900) (Replace 1-2 times per season)
- Dimensions (Inches):** 11-7/8 W x 13-3/8 H x 9-1/2 D
- Weight (Pounds):** 7
- Home Size (Square Feet):** To 2,000
- Installation:** Warm Air / Return Air Plenum / Right or Left Side
- Plenum Opening (Inches):** 8-7/8 W x 9-1/2 H
- Bypass Opening (Inches):** 6
- Pallet Qty:** 36
- Cabinet Construction:** UV-Stable Automotive Grade Plastic
- Humidistat (Included):** "M" Models: MHX3C / "A" Models: GFX3
- Voltage:** 24VAC
- In The Box:** Humidifier, Humidistat, Control Bypass Damper, 24V Transformer, Solenoid Valve, Vapor Pad®, Saddle Valve, (GCV3412 Code Valve - A Models), Installation Instructions, Template, Parts.



Expected Humidity Performance Coverage in Square Feet Based on Construction Type

Model No.	GPD	Loose (0.75 AC/H)	Average (0.50 AC/H)	Tight (0.30 AC/H)
Elite 570	12	800 Sq. Ft.	1200 Sq. Ft.	2000 Sq. Ft.
Elite 900	17	1115 Sq. Ft.	1650 Sq. Ft.	2800 Sq. Ft.
Elite 1000	18	1175 Sq. Ft.	1770 Sq. Ft.	3000 Sq. Ft.

Humidifier Performance Baseline Criteria

Outside Design Temperature	0° F / -18° C
Outside Design R.H.	70% R.H.
Inside Design Temperature	70° F / 21° C
Inside Design R.H.	30% R.H.
Air Changes/hour (AC/H)	0.30
Ceiling Height (Feet)	8
Furnace Plenum Temperature	120° F / 49° C
Furnace Run Time For Calculating Sq. Ft.	8 Hour / 1 Day

Installation Options:

- Warm Air Plenum
- Return Air Plenum
- Right or Left Bypass
- Vertical or Horizontal
- Furnace or Air Handler

Unit Location



WARNING: Disconnect electrical power before beginning installation.

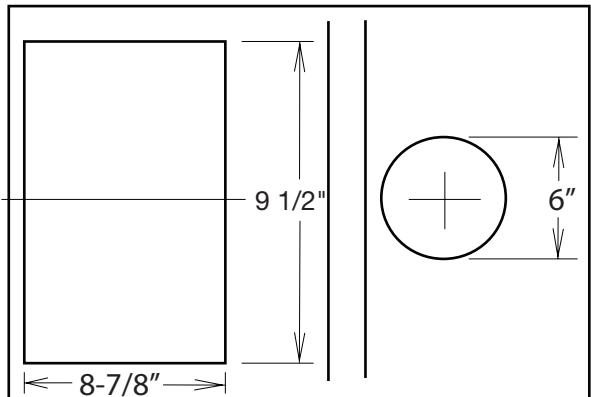
- Do not install where temperatures fall below 32°F / 0°C or where plenum temperatures exceed 200°F / 93°C. For maximum evaporative capacity, install this humidifier on the warm air supply plenum.

Additional Materials That May Be Necessary:

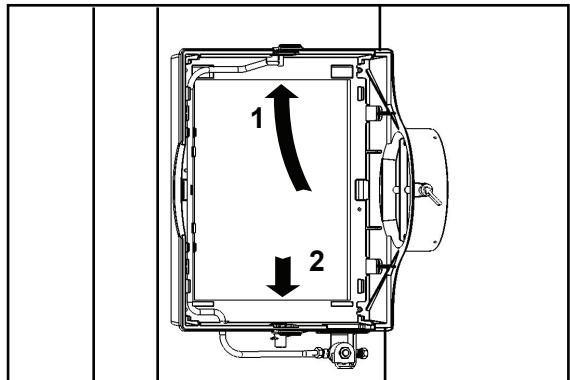
1. 1/4" Diameter plastic supply tubing for cold water applications, or 1/4" copper supply tubing for hot water applications
2. 6" Diameter galvanized by-pass pipe
3. Electrical wire and wire nuts
4. Current sensing relay (Model #GA50 - GFI #7026)
5. #8 Self-piercing sheet metal screws

Installation

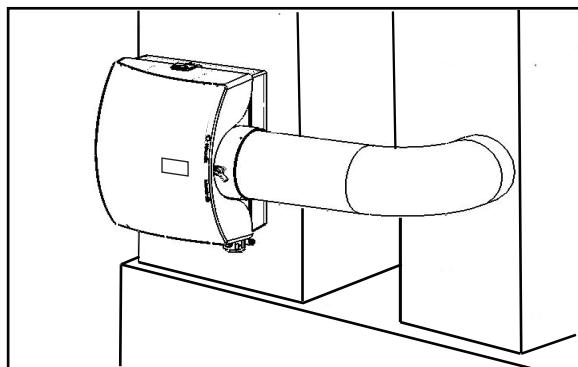
1. The Model 570 may be installed on either the supply or return plenum of a forced air handling system. Select a location for the humidifier that allows for service and maintenance. Cut out a rectangle 8-7/8" wide by 9 1/2" tall. Extend horizontal centerline of cut out to the adjacent plenum. Cut a 6" hole 10" to 15" from side of humidifier, on cabinet centerline, using connecting collar as guide. The bypass is reversible and can be mounted on the right or left side of the humidifier.



2. The humidifier is self retaining. Slide the top side in first, then slide the chassis down. Level the chassis and install center screws. If the by-pass pipe installs to opposite side of chassis, bend clip on chassis, remove side panel, and reinstall panel to opposite side of chassis. Install the remaining four corner screws.



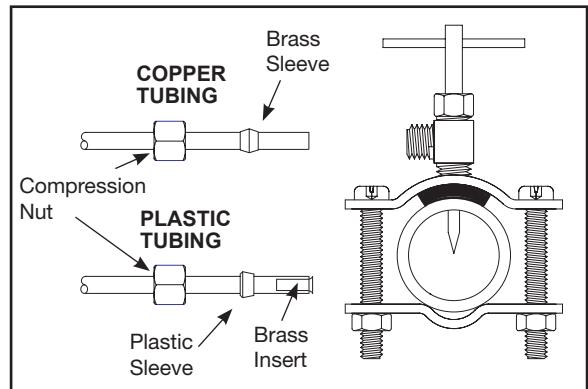
3. Connect the by-pass pipe to collar and humidifier cabinet. Using holes at top and bottom of side panel discharge, pierce two self tapping screws through by-pass pipe.



Installation Cont.

4. Mount the self tapping saddle valve or code valve on either a cold or a hot water pipe. A side or top mount is best to avoid clogging from pipe sediment. Connect 1/4" O.D. tubing to the saddle valve. Copper tubing requires a brass compression nut and brass sleeve. Plastic tubing requires a brass insert inside the tubing, a plastic sleeve on the outside with a brass compression nut.

CAUTION: Do not use plastic tubing on hot water or in contact with any hot plenum surface or duct. Installation of this saddle valve must meet or exceed local codes and ordinances.

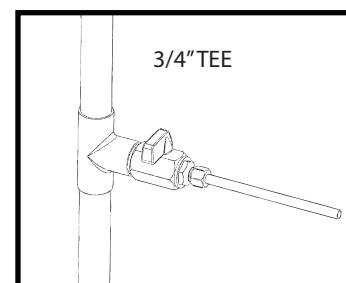
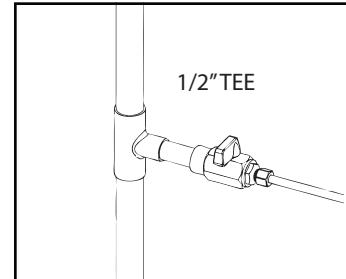


5. GCV3412 Code Valve Installation Instructions*

Copper Pipe:

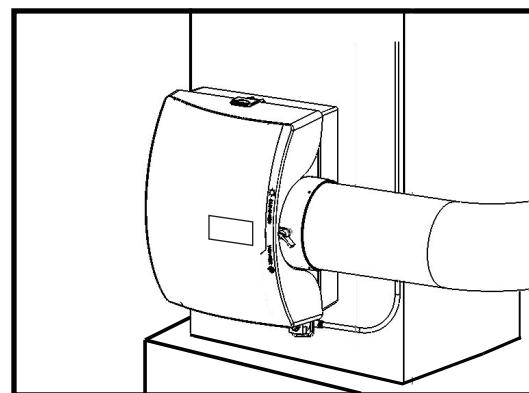
- !** 1. **CAUTION:** Turn off water supply.
- 2. Clean pipe, fittings and valve with sandpaper or wire brush.
- 3. Apply a thin layer of flux to all surfaces to be soldered.
- 4. Assemble valve to pipe and/or fittings.
- 5. Cooling the valve by wrapping a wetted rag around the valve is optional.
- !** 6. **WARNING: For your safety, this should be performed by a licensed contractor only.** Heat the joints with a torch. Apply solder to each joint. Continue to apply heat sufficient to keep solder liquid.
- 7. After solder has filled the entire joint area, remove heat and allow the joint to cool. Do not move or disturb.
- 8. Slide compression nut over 1/4" copper tube followed by compression sleeve.
- 9. Insert tube into valve fully and tighten nut.
- 10. Turn on water supply and check for leaks.

*Code Valve Is Included With Automatic Models Only



Connect 1/4" water supply tube to brass filter at inlet of solenoid.

! **CAUTION:** do not use plastic tubing in contact with any hot plenum surface or duct. If using plastic tubing, use tube insert P189 and plastic compression sleeve P190 (available as part of assembly 747-38 tubing kit - GFI #7078).

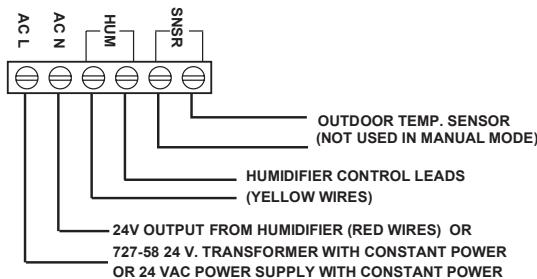


6. Turn the damper knob to the WINTER position. Turn on water supply and check operation of humidifier. Set humidistat to a demand setting. With the furnace off, the solenoid valve should be closed. Start the furnace, the solenoid valve should open when the blower or burner circuit is energized. Check flow of water through distributor trough and evaporator pad. The standard Yellow Orifice GA4231 (GFI #7580) will supply approximately 3.5 GPH of water at a line water pressure of 60 PSI. For low water pressures (20-40 PSI) a larger Orange Orifice GA4299 (GFI #7581) is available to provide the same flow. Leave humidistat set at the recommended setting.

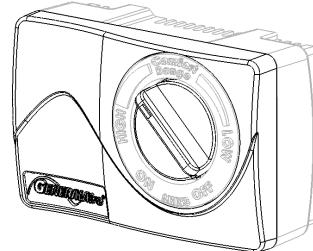
Connect drain hose to 1/2" spout on humidifier cabinet using hose clamp. Run 1/2" hose to suitable drain such as floor drain, laundry sink or to a condensate pump (sold separately). Be sure hose has continuous slope and is not kinked at any point.

Installing / Wiring The Control

GFX3 (Automatic Models)



MHX3C (Manual Models)



Thick Gasket
DUCT MOUNT ONLY



Thin Gasket

DUCT MOUNT: Use ONLY Outer Portion
WALL MOUNT: Use Outer & Inner Portions

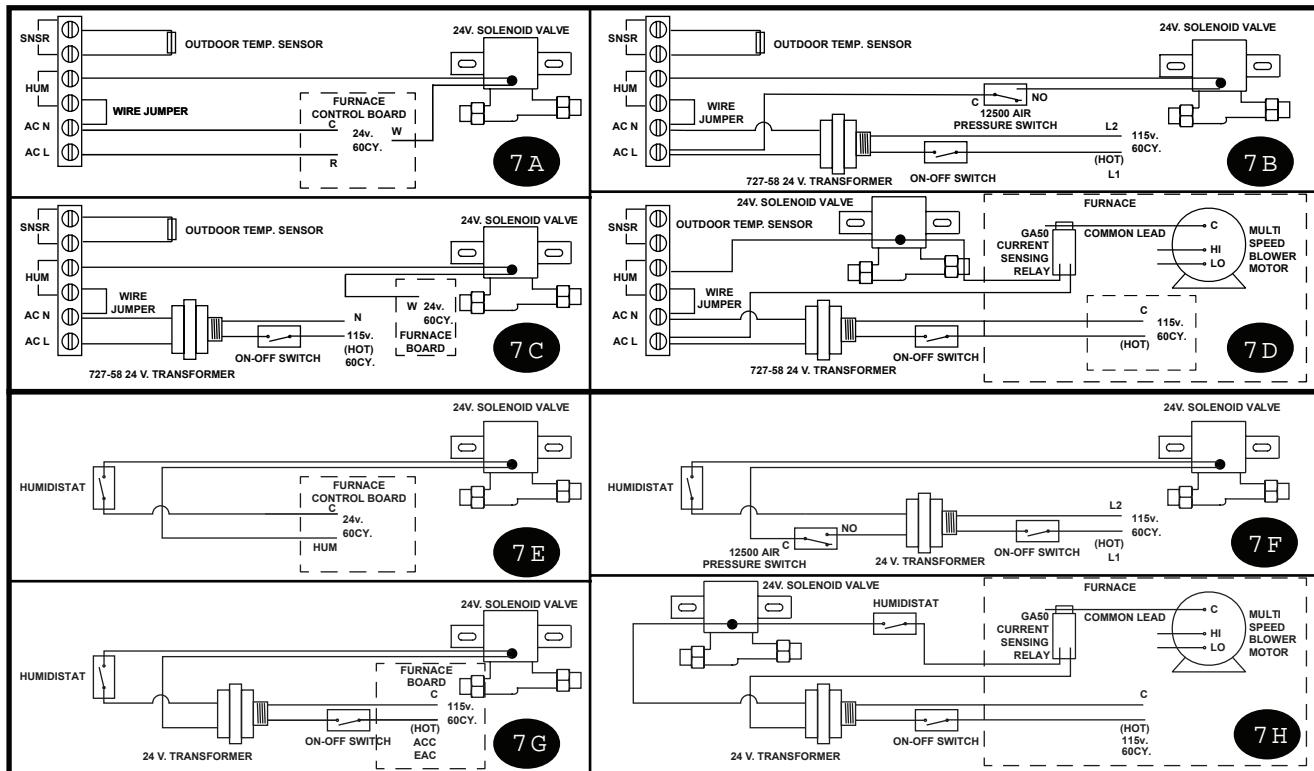
Mounting Base

Face

FIG. 1



WARNING: ALL WIRING SHOULD COMPLY WITH LOCAL ELECTRICAL CODES.



7A-7D Electronic Humidistat

7A - To furnace control board 24V

7B - To constant power using 24V transformer and pressure switch

7C - To furnace control board 115V with 24V transformer

7D - To constant power using 24V relay and current sensing relay

7E-7H Manual Humidistat

7E - To furnace control board 24V

7F - To constant power using 24V transformer and pressure switch

7G - To furnace control board 115V with 24V transformer

7H - To constant power using 24V relay and current sensing relay

How The Humidifier Works

- The operating principle of the humidifier is based on the most efficient and economical means of evaporating water to the air. The humidifier uses only 2.5 watts of electrical power during operation; the heat necessary for evaporating water is produced by the furnace.
- The water supply to the humidifier is controlled by the electric solenoid valve. The humidistat connected in series with the solenoid provides low voltage control of the humidifier. The humidistat is designed for wall mounting in the living area or surface mounting on the return air duct.

CAUTION: Do not set relative humidity too high during cold weather. Excessive humidity may cause condensation on windows or in walls. Refer to recommended settings as described in the humidistat owners manual.

- Water flows through a strainer, is metered through an orifice to provide the proper amount of water, and is supplied to the evaporator pad by the distributor trough. Approximately 200 CFM of air is by-passed from the warm air plenum through the humidifier and returned to the cold air plenum. Moisture is evaporated to the air passing through the evaporator pad. Minerals are not blown into the air stream as occurs in atomizing humidifiers; they are left on the evaporator pad where a high percentage is carried off with the waste water.
- When the humidifier is installed and operating, no adjustments are necessary other than setting the control knob on the humidistat to the desired level of humidification. Leave knob on the humidifier pointing towards the "WINTER" position. To turn the humidifier off, close water supply valve, switch electrical power off and turn humidistat off. If furnace is used for summer cooling or ventilating set air damper to the "SUMMER" position.

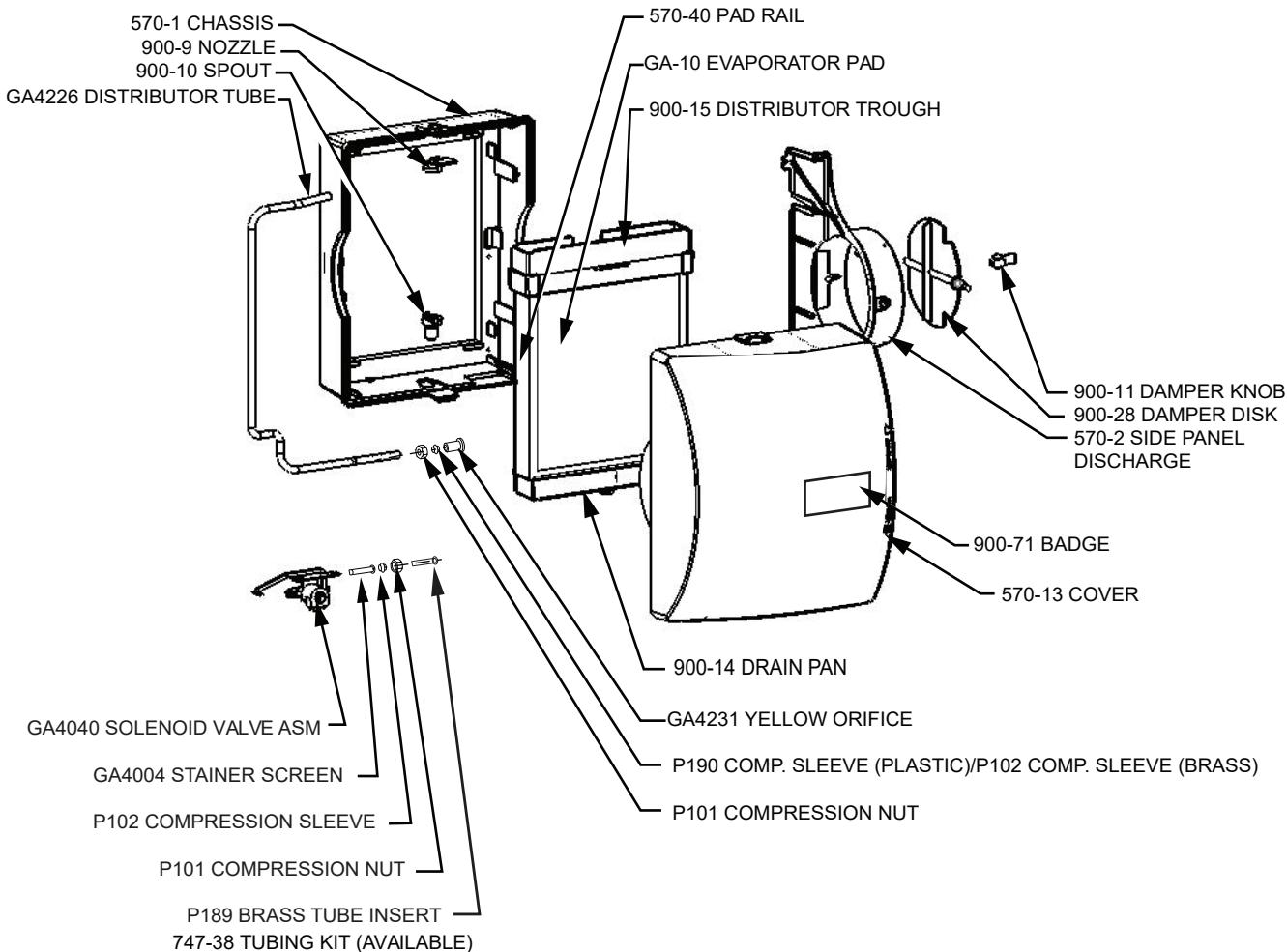
At Outside Temperature	Recommended Setting	
-20°F	-29°C	15%
-10°F	-23°C	20%
0°F	-18°F	25%
+10°F	-12°C	30%
+20°F	-7°C	35%
+30°F	-1°C	40%

Maintenance

Your humidifier is engineered to give helpful and trouble-free humidification. For maximum efficiency the following cleaning procedures should be carried out at the end of each heating season:

- Turn off the water supply and electrical power to the humidifier.
- Remove water cover, distributor trough, evaporator pad and drain pan. Clean excessive mineral deposits from the distributor trough, drain pan, pad rails, and humidifier cabinet. A solution of 1/2 vinegar & 1/2 water will help loosen mineral deposits.
- Replace humidifier evaporator pad if necessary (P/N GA10). Install trough and drain pan. Replace cover. Replace evaporator pad yearly for peak performance.
- In heavy mineral areas or if the solenoid valve fails to function disconnect the 1/4" water supply line from the solenoid valve. Carefully pull the strainer screen (P/N GA4004) from the valve body (P/N 900-6). Clean the mineral deposits from all parts. If the orifice is clogged, it may be opened by inserting a small pin. Reinsert the filter into the orifice fitting and screw the brass strainer body into the solenoid valve.
- Reconnect the 1/4" water line to the solenoid valve if necessary. Turn on the water supply and check all points for leakage. The operation of the unit may be checked by starting the furnace. The humidifier operates only when the furnace blower is running or the burner circuit is energized. The humidifier is now ready for operation.
- During the summer, turn OFF the water supply and electrical power to the humidifier. Close air damper.

Parts Drawing



Inside Your Box

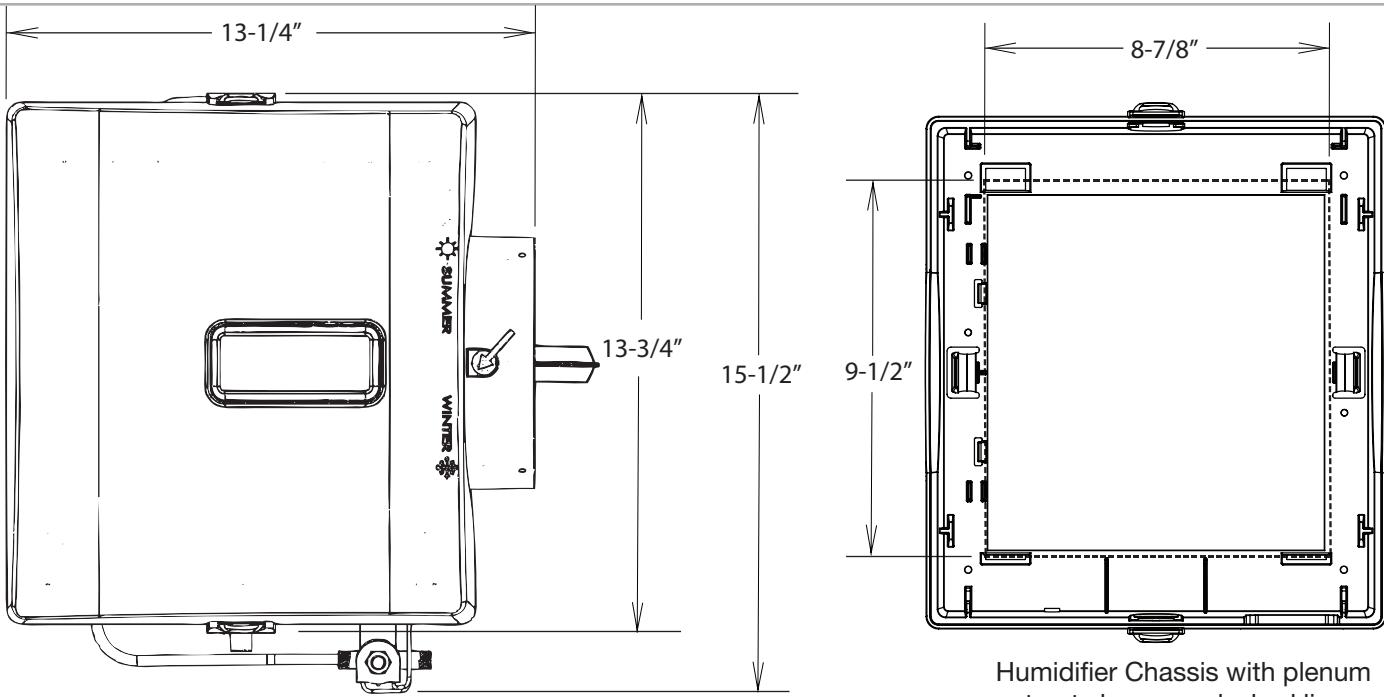
Model 570A (GFI#5710) includes:

Humidifier components: GA10 Vapor pad, GA4040 Solenoid Assembly, Integral Bypass Damper
Accessories: GFX3 Automatic Digital Humidistat, 24V Transformer, Code Valve, Saddle Valve

Model 570M (GFI#5705) includes:

Humidifier Components: GA10 Vapor Pad, GA4040 Solenoid Assembly, Integral Bypass Damper
Accessories: MHX3C Manual Humidistat, 24V Transformer, Saddle Valve

Humidifier Chassis Cut Out



Humidifier Chassis with plenum cut out shown as dashed lines

Troubleshooting

1. My humidifier will not operate.

Check for the following:

- Set thermostat to operate both furnace burner and blower. Operation may be necessary for system power.
- Humidity level in home may be higher than humidistat setting. Increase humidity setting on humidistat (generally located on furnace return plenum or on an inside wall in the living space).
- Verify water supply is on.
- Check for voltage at the solenoid valve. Voltage should be 24VAC.
- Verify wiring of humidifier and humidistat.
- Contact licensed GeneralAire® contractor to verify voltage in and out of the relay board, and replace if necessary.

2. Proper voltage present at solenoid valve (24 VAC) but no water flow.

This can be caused by any of the following:

- Verify water supply is on.
- Verify metering orifice is not obstructed. Very hard water with high mineral content may restrict the metering orifice in as little as one heating season. Replace Yellow metering orifice GA4231 if restricted (GFI #7580)).

3. The humidifier runs without furnace operation or humidifier never shuts off.

Check for the following:

- Verify humidifier and humidistat wiring. Humidifier should operate with furnace burner or blower cycle.

4. Too much humidity in home and/or condensation on windows.

- Reduce the setting on the humidistat. Refer to How The Humidifier Works Section of this manual to estimate a humidity setting for the home based on outside temperature (humidistat generally located on furnace return plenum or on an inside wall in the living space).



IMPORTANT: To ensure your safety and the longevity of your unit, we recommend contacting a licensed contractor to perform any repairs or maintenance.

FAQ's

1. How does a humidifier help with my allergies?

Dry air can lead to a host of problems for allergy and asthma sufferers. Dry climates, winter air, and artificial heat all contribute to the discomfort by drying out your skin, throat and delicate sinus passages and airways (which can contribute to sinusitis). Winter is an especially bad time for dry air as home heating systems, especially forced-air systems, reduce the amount of moisture in the air while humidity levels outdoors typically dip as well.

2. What range of humidity is ideal?

Research shows that 40-60% relative humidity is ideal. Outside this range, your risk of being adversely affected increases.

3. How often should I change my Vapor Pad®?

We recommend replacing your Vapor Pad® at least once per year. Minerals build up on the vapor pad over time, which in turn:

- Reduces the pad's ability to absorb water.
- Prevents the warm air from flowing through the pad (Warm air moving though the water-soaked pad causes the water in the pad to evaporate. It is this process that delivers moisture throughout your home via the home's duct system).

4. Can I clean my Vapor Pad instead of replacing it?

A coating is applied to the Vapor Pad® that helps it absorb water and control water flow. If you subject the pad to cleaning, you usually remove much of the coating and the pad becomes ineffective. This reduces the output of the humidifier and increases water consumption.

Replace the Vapor Pad® annually.

5. Why would I want to install a humidifier?

For many reasons:

1. Since the air in your home is always trying to reach its saturation point, it will absorb water wherever it can; from the bodies of you and your children, your pets, your furniture and even your house plants. As a result your skin, throat and nasal passages dry out, leaving you more susceptible to physical discomfort, colds, flu and even infection. Allergy and asthma sufferers can be especially affected by air that's too dry.
2. Dry air causes dry, itchy skin.
3. Dry air cracks expensive woodwork, floors, musical instruments, artwork and furnishings.
4. Annoying static electricity (caused by dry air) can damage computers, VCR's and other electronic equipment, requiring expensive repair.
5. Dry air can cause harm to expensive musical instruments like pianos and violins.
6. Dry air causes gaps in window & door frames, letting cold outdoor air in; causing you to turn up the heat and increasing your heating bills! Controlled humidity from the GeneralAire® Elite Steam Humidifier allows you the luxury of dialing the thermostat back & reducing annual heating bills. For example, 68° at 40% relative humidity feels just as warm as 74° at 20% humidity. Setting your thermostat back by as little as three degrees can reduce annual heating bills by as much as 5%.

Limited Warranty

What is Covered

- Ten Years: The 570 Humidifier is warranted by General Filters, Inc. (“Company”) for a period of ten (10) years from the date of the original installation, when installed in residential applications only (“Limited Warranty Period”).
- One Year: The Humidistat
- This Limited Warranty runs to the original purchaser of the Product(s) who owns, and resides in, the residential property for which it is installed and maintained.
- The Limited Warranty coverage begins upon the date the Product(s) is installed.
- This Limited Warranty is valid only for the original customer purchasing from Company, and is not transferable.

What is Not Covered

- The following components are not covered by this warranty: Vapor Pads, sleeves or plates, wiring, water strainers or metering orifices.
- This product is designed for residential installation only, therefore, commercial or industrial installations are not covered under this warranty.
- Failure to install the 570 Humidifier in accordance with these instructions, local codes or ordinances voids the warranty.
- Modifications, changes or alterations to equipment.
- Failure to perform regular maintenance as described in this document voids the warranty.
- This Limited Warranty is valid only for the original customer purchasing from Company, and is not transferable.
- Damage caused by misuse, neglect, fire, wind, mold, damage in transit, or other casualty, contact with corrosive materials (chlorine, fluorine, salt, urine, fertilizers, recycled waste water, or other damaging substances), damage caused during installation, or any cause beyond General Filters, Inc. control is not covered under this Limited Warranty.
- Labor involved in diagnostic calls or in removing, repairing, servicing or replacing parts is not covered under this Limited Warranty.

What is Not Covered, Cont.

- Shipping charges are not covered by this Limited Warranty.
- Agreements made by third parties that are not listed in this Limited Warranty.
- Liability for special, incidental, direct, indirect, collateral and consequential damages is excluded. Some states do not allow limitation of incidental damages, so the limitations or exclusions may not apply to you. General Filters, Inc. will not pay electricity or fuel costs, or increases in electricity or fuel costs, for any reason whatsoever, including additional or unusual use of supplemental electric heat. This warranty does not cover lodging expenses or labor charges. General Filters, Inc. shall not be liable for any default or delay in performance under this warranty caused by any contingency beyond its control. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To Make a Warranty Claim / Obtain Service

- Owner must submit a warranty registration within 30 days after installation.
- The Owner must complete our online Return Merchandise Authorization (RMA) Form (www.generalfilters.com/returns), to arrange for applicable Limited Warranty service, within the warranty period. Owner must also provide complete model and serial number, proof of required periodic maintenance, installation date and location and an accurate, detailed description of the problem.
- Owner shall be solely responsible for properly packaging the Covered or Extended Coverage Equipment, for all freight charges, and for all risk of loss associated with shipment.
- Owner is responsible for obtaining a licensed contractor to perform any repairs, maintenance or other work on unit.
- If during the Limited or Extended Warranty Period, Covered or Extended Coverage Equipment fails because of a manufacturing defect, Company will provide a free replacement part to the Owner through a licensed service contractor.

Limited Warranty, Cont.

Limitations Of Liability

- General Filters, Inc. makes no express warranties other than the warranty specified above.
- The implied warranties of merchantability and fitness for a particular purpose are limited to the duration listed.
- The manufacturer assumes no liability in connection with the installation or use of the product, except as stated in this Limited Warranty.
- The manufacturer will in no event be liable for incidental or consequential damages.
- This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow either limitations on implied warranties, or exclusions from incidental or consequential damages, so the above exclusion and limitation may not apply to you.

Questions

- Any questions pertaining to this limited warranty should be addressed to the manufacturer. (U.S.A.: The manufacturer has elected not to make available the informal dispute settlement mechanism which is specified in the Magnuson-Moss Warranty Act.)

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LIRE ET ENREGISTRER CES INSTRUCTIONS

**INSTALLATEUR : VEUILLEZ REMPLIR ET POSTER LA CARTE DE GARANTIE UNE FOIS □
L'INSTALLATION TERMINÉE. LAISSER LES DIRECTIVES □
D'INSTALLATION AU PROPRIÉTAIRE DE LA MAISON.**

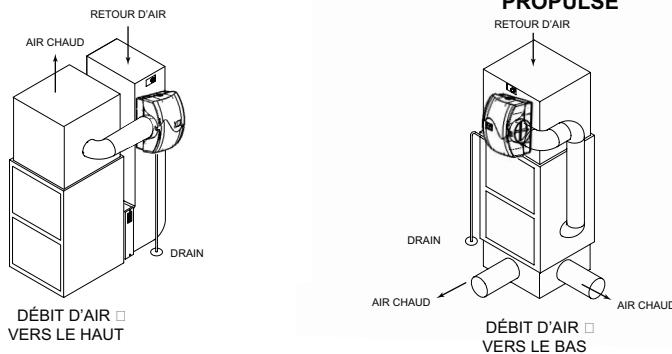
PRÉCAUTION : L'installateur doit être un technicien qualifié et expérimenté. Couper l'alimentation électrique avant de commencer l'installation. Ne pas installer l'appareil dans un endroit où la température peut descendre sous 0 °C (32 °F) ou si la température du plenum dépasse 66 °C (150 °F). Lors d'un branchement à un circuit de ventilateur à plusieurs vitesses, voir l'étape 6.

INSTALLATION : L'humidificateur peut être installé avec la sortie de 15 cm (6 po) à droite ou à gauche en inversant le boîtier et l'emplacement de la goulotte du distributeur et du bac de récupération. L'humidificateur fournit le même rendement, qu'il soit installé sur un plenum d'air chaud ou sur un plenum de reprise d'air.

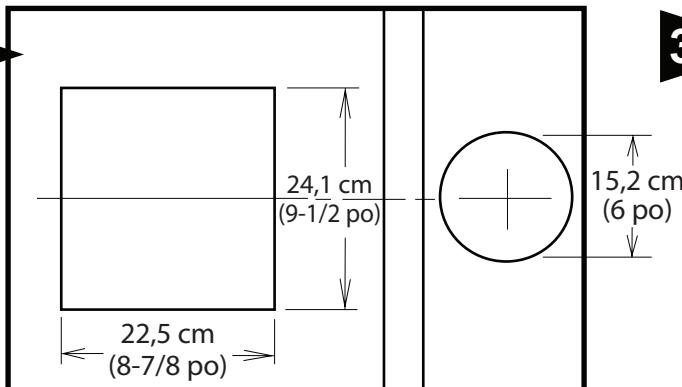
Voir l'installation typique.

MATÉRIAUX SUPPLÉMENTAIRES POUVANT ÊTRE NÉCESSAIRES :

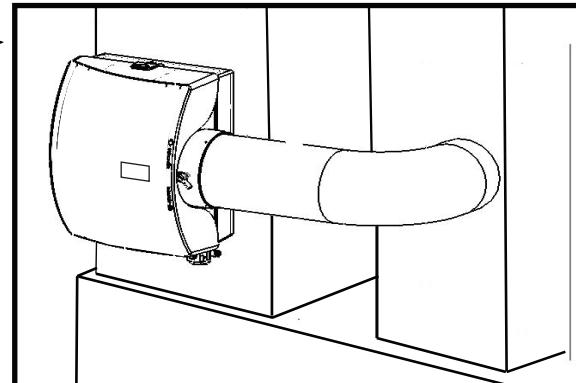
1. tuyau d'alimentation en plastique ou en cuivre de 6 mm (1/4 po) de diamètre pour l'alimentation en eau chaude
2. tuyau de dérivation galvanisé de 15 cm (6 po)
3. fils électriques et coincieurs à câble
4. relais du détecteur de surcharge (G.F. modèle n° GA50 suggéré)
5. vis autotaraudeuse n° 8



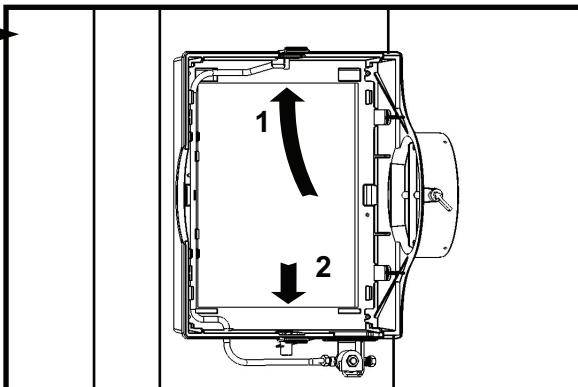
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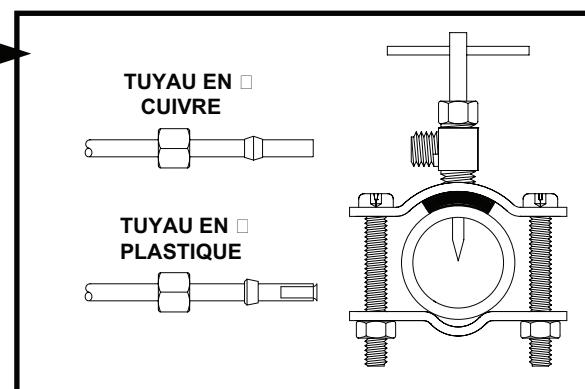


2



L'humidificateur se retient par lui-même; faire glisser d'abord la partie supérieure, puis faire glisser le cadre vers le bas. Mettre le cadre de niveau et visser la vis centrale. Si le tuyau de dérivation est installé du côté opposé du cadre, plier la bride du cadre, enlever le tuyau de sortie et le réinstaller du côté opposé du cadre. Visser les quatre vis dans les coins.

4



Installer le robinet-vanne à étrier autotaraudeur ou la vanne-code sur un tuyau d'eau froide ou d'eau chaude. Un montage latéral ou sur le dessus est idéal pour éviter un engorgement causé par les sédiments du tuyau. Raccorder un tuyau d'un diam. ext. de 6 mm (1/4 po) au robinet-vanne à étrier. Les tuyaux en cuivre exigent un écrou à compression et un manchon en laiton. Les tuyaux en plastique exigent un insert en laiton à l'intérieur des tuyaux et un manchon en plastique à l'extérieur avec un écrou à compression.

REMARQUE : NE PAS UTILISER DE TUYAUX EN PLASTIQUE AVEC DE L'EAU CHAUTE OU SUR UNE SURFACE DE CONTACT CHAUTE DE PLENUM OU DE CONDUIT. L'INSTALLATION DE CE ROBINET-VANNE À ÉTRIER DOIT RESPECTER OU DÉPASSER LES EXIGENCES DES CODES LOCAUX ET AUTRES ORDONNANCES.

SÉRIE 570

HUMIDIFICATEUR À CIRCULATION DIRECTE

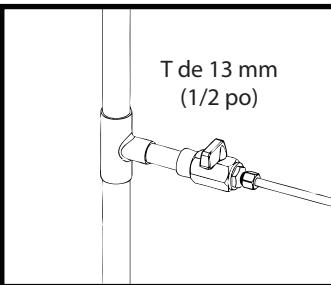
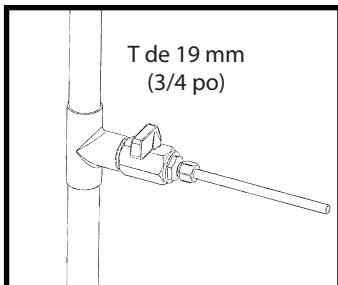
POUR UNE INSTALLATION SUR LA SURFACE VERTICALE DU PLENUM DE N'IMPORTE QUEL APPAREIL DE CHAUFFAGE À AIR CHAUD PROPULSÉ

INSTRUCTIONS D'INSTALLATION DE LA VANNE-CODE GCV3412

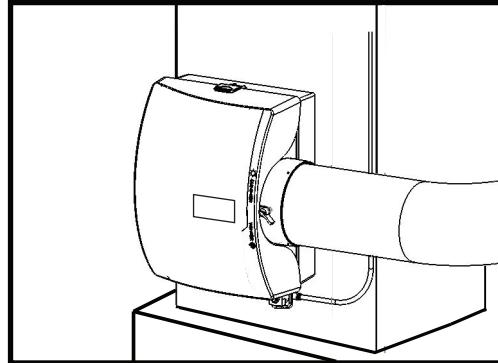
Tuyau en cuivre

- 1.□ Couper l'alimentation en eau.
- 2.□ Nettoyer le tuyau, les raccords et la vanne avec du papier abrasif ou une brosse métallique.
- 3.□ Appliquer une fine couche de flux sur toutes les surfaces devant être soudées.
- 4.□ Fixer la vanne au tuyau ou aux raccords.
- 5.□ Refroidir la vanne en l'enveloppant d'un chiffon humide est une possibilité.
- 6.□ Chauffer les joints avec un chalumeau. Souder chaque joint. Continuer d'appliquer suffisamment de chaleur pour garder la soudure à l'état liquide.
- 7.□ Lorsque la soudure a entièrement rempli l'espace du joint, retirer la chaleur et laisser le joint refroidir. Éviter de déplacer ou de toucher le joint.
- 8.□ Faire glisser un écrou à compression sur le tuyau en cuivre de □ 6 mm (1/4 po), puis le manchon de compression.
- 9.□ Insérer entièrement le tube dans la vanne et serrer l'écrou.
- 10.□ Ouvrir l'alimentation en eau et vérifier qu'il n'y a pas de fuites.

*LA VANNE-CODE EST FOURNIE AVEC LES MODÈLES □ AUTOMATIQUES UNIQUEMENT



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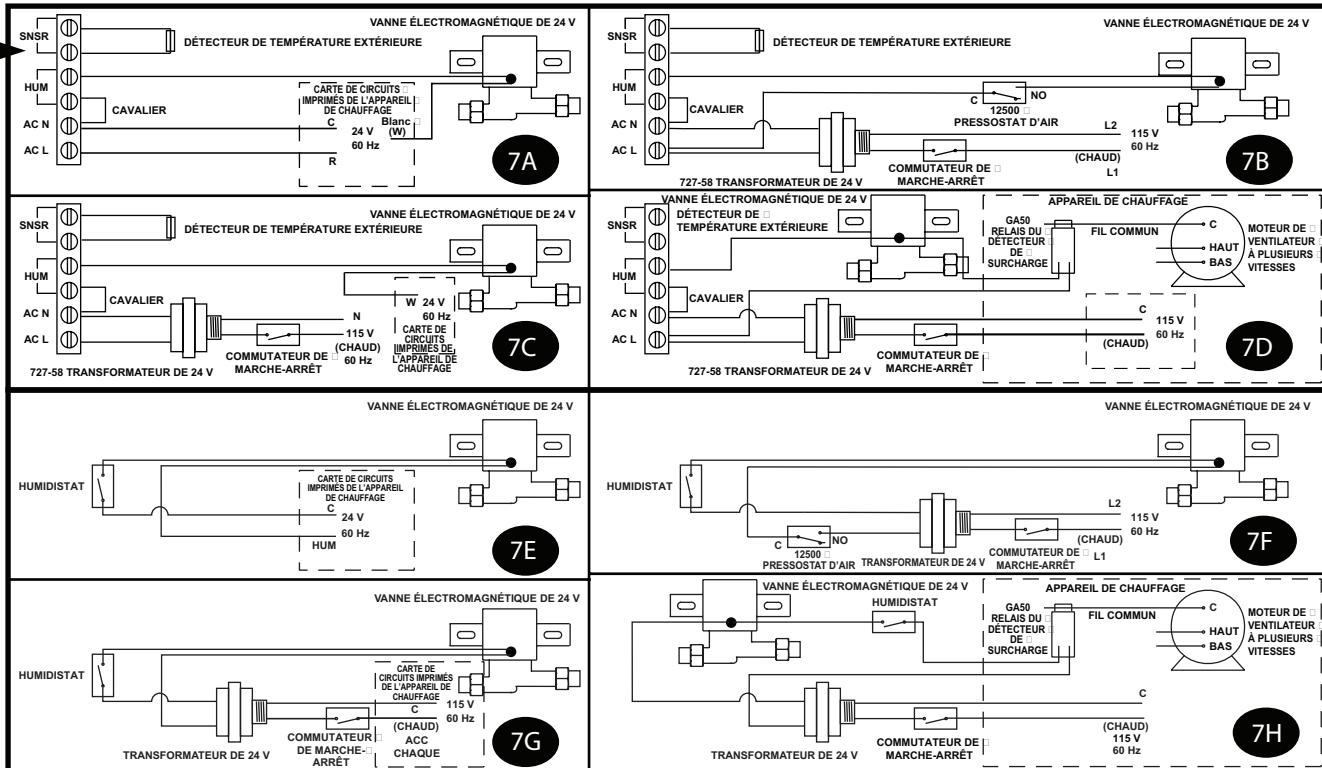
Raccorder le tuyau d'alimentation en eau de 6 mm (1/4 po) du filtre en laiton à l'entrée de la vanne électromagnétique. NE PAS UTILISER DE TUYAUX EN PLASTIQUE SUR UNE SURFACE DE CONTACT CHAUDE DE PLÉNUM OU DE CONDUIT. SI UN TUYAU EN PLASTIQUE EST UTILISÉ, UTILISER LE SUPPORT À TUYAU P189 ET LE MANCHON DE COMPRESSION POUR PLASTIQUE P190.

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Tourner le bouton du registre à la position hiver (ouvert). Ouvrir l'alimentation en eau et vérifier le fonctionnement de l'humidificateur. Réglér l'humidistat en mode de demande. Lorsque l'appareil de chauffage est éteint, la vanne électromagnétique doit être fermée. Démarrer l'appareil de chauffage, la vanne électromagnétique devrait s'ouvrir lorsque le circuit du ventilateur ou du brûleur est activé. Vérifier le débit d'eau passant par la goulotte du distributeur et le tampon d'évaporation. L'orifice jaune standard GA4231 fournit environ 13,2 l/h (3,5 gal/h) d'eau à une ligne de pression de 206 kPa (60 lb/po²). Si la pression d'eau est faible (137 à 275 kPa/20 à 40 lb/po²), un orifice orange plus grand GA4299 est offert afin de fournir le même débit. Laisser l'humidistat au réglage recommandé.

Raccorder le tuyau d'évacuation au bec de 13 mm (1/2 po) situé sur le boîtier de l'humidificateur en utilisant un collier de serrage. Acheminer un boyau de 13 mm (1/2 po) vers un drain adéquat, comme un drain de sol, d'égout ou d'évier de lavage. S'assurer que le boyau est en pente continue et n'est déformé en aucun point.

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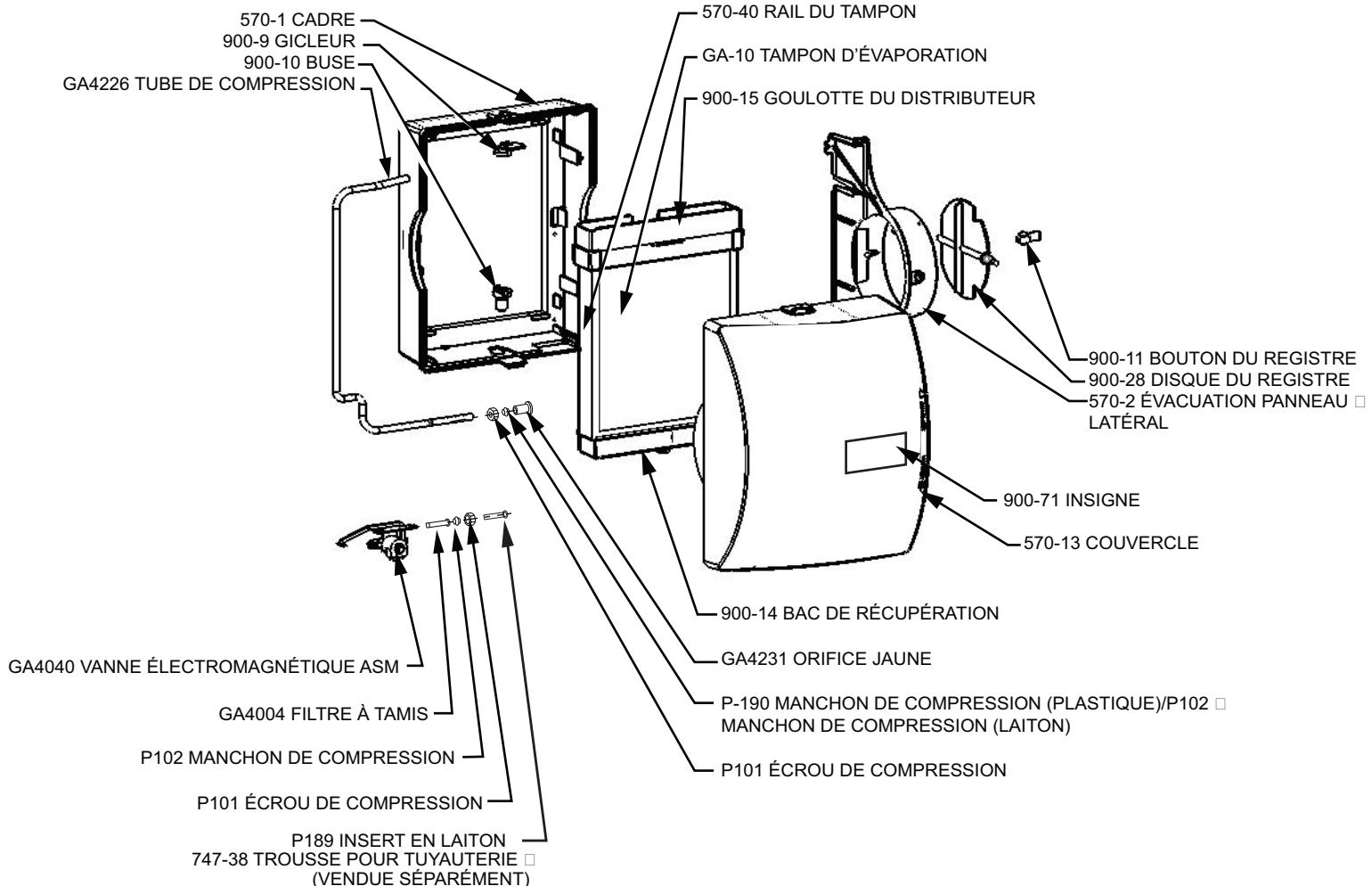
7A à 7D Humidistat électronique

- 7A – Vers la carte de circuits imprimés de l'appareil de chauffage de 24 volts
- 7B – Vers la source d'alimentation constante utilisant un transformateur de 24 V et un manostat
- 7C – Vers la carte de circuits imprimés de l'appareil de chauffage de 115 volts avec un transformateur de 24 V
- 7D – Vers la source d'alimentation constante utilisant un relais et un relais du détecteur de surcharge de 24 V

7E à 7H Humidistat manuel

- 7E – Vers la carte de circuits imprimés de l'appareil de chauffage de 24 volts
- 7F – Vers la source d'alimentation constante utilisant un transformateur de 24 V et un manostat
- 7G – Vers la carte de circuits imprimés de l'appareil de chauffage de 115 volts avec un transformateur de 24 V
- 7H – Vers la source d'alimentation constante utilisant un relais et un relais du détecteur de surcharge de 24 V

LISTE DES PIÈCES POUR L'HUMIDIFICATEUR



GARANTIE LIMITÉE

Cet humidificateur, lorsqu'il est enregistré correctement en retournant la carte d'enregistrement de la garantie au fabricant, est garanti au consommateur contre tout défaut de matériaux et de main-d'œuvre pour une période de dix (10) ans à partir de la date d'installation. Les tampons d'évaporation, les filtres à eau ou les plaques ne sont pas couverts par cette garantie limitée ou par toute autre garantie. Toute autre pièce défectueuse sera réparée sans frais, hormis les coûts de désinstallation, de réinstallation et de transport. Pour obtenir un service de réparation avec cette garantie limitée, le consommateur doit envoyer la pièce défectueuse ou l'humidificateur au fabricant.

AUCUNE AUTRE GARANTIE QUE LA PRÉSENTE NE COUVRE CET HUMIDIFICATEUR, LES GARANTIES IMPLICITES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE PARTICULIER SONT EXPRESSÉMEN EXCLUES. LE FABRICANT NE PEUT ÊTRE TENU RESPONSABLE DE L'INSTALLATION OU DE L'UTILISATION DE CE PRODUIT, SAUF DE LA MANIÈRE INDICUÉE DANS LA PRÉSENTE GARANTIE LIMITÉE. LE FABRICANT NE PEUT EN AUCUN CAS ÊTRE TENU RESPONSABLE DES DOMMAGES ACCESSOIRES OU INDIRECTS.

Cette garantie limitée vous donne des droits légaux spécifiques, et vous pouvez jouir d'autres droits, lesquels varient d'une juridiction à l'autre. Certaines juridictions ne permettent pas de limites sur les garanties implicites ou d'exclusions pour les dommages accessoires ou indirects; les exclusions susmentionnées peuvent donc ne pas s'appliquer dans votre cas.

Toute question relative à cette garantie limitée doit être soumise au fabricant. (É.-U. : Le fabricant a choisi de ne pas divulguer les termes de l'accord spécifiés dans le « Magnuson-Moss Warranty Act ».)

SOIN ET ENTRETIEN

Votre humidificateur est conçu pour fournir une humidification d'appoint sans problèmes. Pour bénéficier d'un fonctionnement maximum, suivre les étapes de nettoyage ci-dessous à la fin de chaque saison froide :

1. Fermer l'alimentation en eau et en électricité de l'humidificateur.
2. Enlever le couvercle, la goulotte du distributeur, le tampon d'évaporation et le bac de récupération. Nettoyer les dépôts excessifs de minéraux de la goulotte du distributeur, du bac de récupération, des rails du tampon et du boîtier de l'humidificateur. Une solution moitié vinaigre, moitié eau aide à déloger les dépôts de minéraux.
3. Remplacer le tampon d'évaporation de l'humidificateur si nécessaire (réf. GA10). Installer la goulotte et le bac de récupération. Remettre le couvercle. Remplacer le tampon d'évaporation chaque année pour assurer un fonctionnement optimum.
4. Dans les endroits riches en minéraux ou si la vanne électromagnétique est défaillante, déconnecter la ligne d'alimentation en eau de 6 mm (1/4 po) de la vanne électromagnétique. Retirer avec précaution le filtre à tamis (réf. GA4004) du corps de la vanne (réf. 900-6). Éliminer les dépôts de minéraux de toutes les pièces. Si l'orifice est bloqué, on peut l'ouvrir en y insérant une petite tige. Réinstaller le filtre dans le raccord de l'orifice et visser le corps du filtre en laiton dans la vanne électromagnétique.
5. Raccorder la conduite d'eau de 6 mm (1/4 po) à la vanne électromagnétique au besoin. Ouvrir l'alimentation en eau et vérifier tous les points de fuite.
- Le fonctionnement de l'appareil peut être vérifié en démarrant l'appareil de chauffage. L'humidificateur fonctionne uniquement lorsque le ventilateur de l'appareil de chauffage est en marche ou que le circuit du brûleur est activé. L'humidificateur est maintenant prêt à fonctionner.
6. Pendant la période estivale, fermer l'alimentation en eau et en électricité de l'humidificateur. Fermer le registre à air.

TEMPÉRATURE EXTÉRIEURE	RÉGLAGE RECOMMANDÉ
-29 °C/-20 °F	15 %
-23 °C/-10 °F	20 %
-18 °C/ 0 °F	25 %
-12 °C/+10 °F	30 %
-7 °C/+20 °F	35 %
-1 °C/+30 °F	40 %

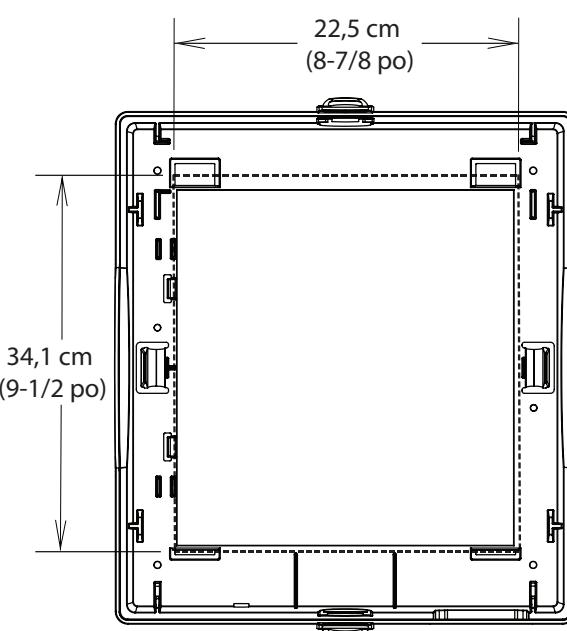
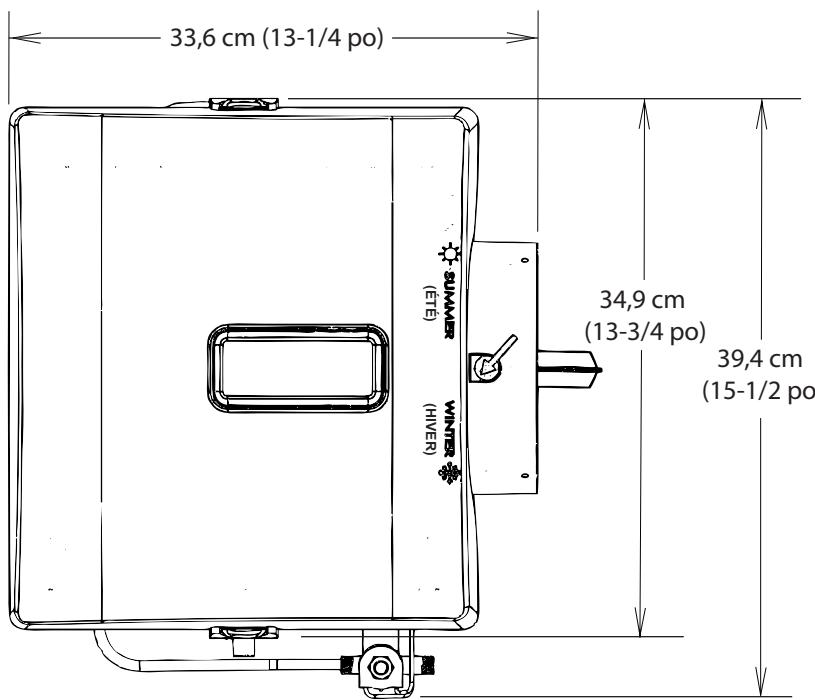
CARACTÉRISTIQUES DE L'HUMIDIFICATEUR ELITE 570

Performance d'humidité prévue selon la superficie en mètres carrés/pieds carrés et le type de construction

Nº de modèle	GPD	Faible (0,75 CAH)	Moyen (0,50 CAH)	Élevé (0,30 CAH)
Elite 570	12	74 m ² /800 pi ²	111 m ² /1200 pi ²	186 m ² /2000 pi ²
Elite 900	17	104 m ² /1115 pi ²	153 m ² /1650 pi ²	260 m ² /2800 pi ²
Elite 1000	18	109 m ² /1175 pi ²	164 m ² /1770 pi ²	279 m ² /3000 pi ²

Critères de base de la performance de l'humidificateur

Température de calcul – extérieure	-18 °C (0 °F)
HR de calcul – extérieure	HR de 70 %
Température de calcul – intérieure	21 °C (70 °F)
HR de calcul – intérieure	HR de 30 %
Changements d'air/heure (CAH)	0,30
Hauteur du plafond	2,43 m (8 pi)
Température du plenum de l'appareil de chauffage	49 °C (120 °F)
Durée de fonctionnement de l'appareil de chauffage pour calculer la superficie	8 h/jour



Cadre de l'humidificateur avec la découpe du plenum illustrée en lignes pointillées

ACCESOIRES DES COMPOSANTS DE L'HUMIDIFICATEUR EMBALLÉ

Le modèle 570A inclut :

Composants de l'humidificateur : GA10 tampon d'évaporation, GA4040 ensemble de la vanne électromagnétique, registre de dérivation intégral

Accessoires : GFX3 Humidistat numérique automatique, transformateur de 24 V, vanne-code, vanne à étrier

Le modèle 570M inclut :

Composants de l'humidificateur : GA10 tampon d'évaporation, GA4040 ensemble de la vanne électromagnétique, registre de dérivation intégral

Accessoires : Humidistat manuel, transformateur de 24 V, vanne à étrier